Kent State University reserves the right to change or withdraw courses, to change the fees, rules and calendar for admission, registration, instruction, and graduation; and to change other regulations affecting the student body at any time.

Kent State University, an equal opportunity employer, encourages applications from members of protected groups.

Inquiries regarding Federal Regulations and State Law may be directed to the Office of Equal Opportunity and Affirmative Action, Terrace Hall Annex, Kent State University, P.O. Box 5190, Kent, OH 44242-0001.

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Kent State University is committed to attaining excellence through the recruitment and retention of a diverse student body and workforce.

The Kent State University Graduate Schools Catalog is published yearly.
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# GRADUATE SCHOOLS CALENDAR 2009-2010

## Fall Semester 2009

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<td>Aug. 22-28</td>
<td>Saturday-Friday Graduate Assistant Orientation</td>
</tr>
<tr>
<td>Aug. 31</td>
<td>Monday Classes Begin</td>
</tr>
<tr>
<td>Sept. 4</td>
<td>Monday Last day to file application for December graduation for doctoral and master's candidates.</td>
</tr>
<tr>
<td>Sept. 7</td>
<td>Monday Labor Day No classes. Offices closed.</td>
</tr>
<tr>
<td>Oct. 13</td>
<td>Tuesday Doctoral Welcome Ceremony</td>
</tr>
<tr>
<td>Nov. 8</td>
<td>Sunday Last date for Complete Term Withdrawal</td>
</tr>
<tr>
<td>Nov. 11</td>
<td>Wednesday Veterans Day No classes. Offices closed.</td>
</tr>
<tr>
<td>Nov. 13</td>
<td>Friday Final date for oral examination of doctoral and master's candidates planning December graduation.</td>
</tr>
<tr>
<td>Nov. 25-29</td>
<td>Wednesday (noon)-Sunday Thanksgiving Recess. Offices closed Thursday and Friday.</td>
</tr>
<tr>
<td>Nov. 27</td>
<td>Friday Columbus Day observed. No classes. Offices closed.</td>
</tr>
<tr>
<td>Nov. 30</td>
<td>Monday All candidates for December graduation must have dissertation or thesis and abstract filed in graduate schools' offices.</td>
</tr>
<tr>
<td>Dec. 13</td>
<td>Sunday Classes End</td>
</tr>
<tr>
<td>Dec. 14-20</td>
<td>Monday-Sunday Final Examinations</td>
</tr>
<tr>
<td>Dec. 17</td>
<td>Thursday Doctoral Commencement Ceremony</td>
</tr>
<tr>
<td>Dec. 17-19</td>
<td>Thursday-Saturday Kent Campus Commencement</td>
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<tr>
<td>Dec. 24</td>
<td>Thursday President's Day Observance. Offices closed.</td>
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<td>Dec. 25</td>
<td>Friday Christmas Day Holiday.</td>
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<td>Dec. 26</td>
<td>Thursday President's Day Observance. Offices closed.</td>
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<td>Jan. 1</td>
<td>Friday New Year's Day Holiday.</td>
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## Spring Semester 2010

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<td>Jan. 19</td>
<td>Tuesday Classes begin</td>
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<tr>
<td>Jan. 22</td>
<td>Friday Last day to file application for May graduation for doctoral and master's candidates.</td>
</tr>
<tr>
<td>March 29 - April 4</td>
<td>Monday-Sunday Spring Recess. No classes. Offices open.</td>
</tr>
<tr>
<td>April 5</td>
<td>Monday Last date for Complete Term Withdrawal</td>
</tr>
<tr>
<td>April 5</td>
<td>Monday Classes resume</td>
</tr>
<tr>
<td>April 2</td>
<td>Friday Final date for oral examination of doctoral and master's candidates planning May graduation.</td>
</tr>
<tr>
<td>April 11-17</td>
<td>Sunday-Saturday Honors Week</td>
</tr>
<tr>
<td>April 19</td>
<td>Monday All candidates for May graduation must have dissertation or thesis and abstract filed in graduate schools' offices.</td>
</tr>
<tr>
<td>May 4</td>
<td>Tuesday Remembrance Day</td>
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<tr>
<td>May 9</td>
<td>Sunday Classes end</td>
</tr>
<tr>
<td>May 10-16</td>
<td>Monday-Sunday Final Examinations</td>
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<td>May 13</td>
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## Summer Intercession 2010

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<tr>
<td>May 31</td>
<td>Monday Memorial Day. No classes. Offices closed.</td>
</tr>
<tr>
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<td>Monday Classes begin</td>
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<td>Friday Classes end</td>
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## Summer I (Five-week term) and Summer II (Eight-week term) 2010

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<tr>
<td>June 14</td>
<td>Monday Classes begin</td>
</tr>
<tr>
<td>June 18</td>
<td>Friday Last day to file application for August graduation for doctoral and master's candidates.</td>
</tr>
<tr>
<td>July 5</td>
<td>Monday Independence Day observed. No classes. Offices closed.</td>
</tr>
<tr>
<td>July 6</td>
<td>Tuesday Final date for oral examination of doctoral and master's candidates planning August graduation.</td>
</tr>
<tr>
<td>July 17</td>
<td>Saturday Summer I classes end</td>
</tr>
<tr>
<td>July 19</td>
<td>Monday All candidates for August graduation must have dissertation or thesis and abstract filed in graduate schools' offices.</td>
</tr>
<tr>
<td>Aug. 7</td>
<td>Saturday Summer II classes end</td>
</tr>
</tbody>
</table>

## Summer III (Five-week term) 2010

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 19</td>
<td>Monday Classes begin</td>
</tr>
<tr>
<td>July 19</td>
<td>Monday All candidates for August graduation must have dissertation or thesis and abstract filed in graduate schools' offices.</td>
</tr>
<tr>
<td>Aug. 20</td>
<td>Friday Doctoral Commencement Ceremony</td>
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<tr>
<td>Aug. 21</td>
<td>Saturday Summer III classes end</td>
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Note: There may be minor changes in the dates listed above. The university reserves the right to make such changes whenever conditions or circumstances warrant.
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ADMISSION

Kent State University welcomes applications for graduate study from those wishing to pursue an advanced degree at the master’s or doctoral level as a full or part-time student. The university also encourages graduate work for students who desire to enrich their lives through non-degree courses or who are in good standing in a graduate degree program at another university and wish to enroll as transient students.

TYPES OF ADMISSION
Prospective students may apply for admission under several categories, including regular admission for master’s, doctoral, non-degree, transient study and workshop study. Details of different programs are found on subsequent pages. Each applicant is considered for admission in the particular department requested. Careful attention to the prerequisites for degree programs will ensure proper review of applications.

GENERAL REQUIREMENTS FOR ADMISSION
Applicants are expected to submit evidence of scholarly accomplishment in previous undergraduate and graduate work if undertaken. This may be accomplished in part by having achieved an undergraduate grade point average of 2.75 on a 4.0 point scale, although some departments may require a higher minimum GPA. At the graduate level a 3.0 GPA is expected. In all cases the GPA is only one of several measures used to determine admission. Additional considerations are letters of recommendation, scores on standardized tests and other indices of ability to do graduate-level work. Students with grade points below 2.75 will be considered for conditional admission in such cases will depend heavily on other indices of the student’s ability to handle graduate-level work. These might include strong performance on standardized tests, GPA in the major, and/or experiences subsequent to matriculation that are clearly indicative of strong academic ability. Evidence of holding a bachelor’s degree or equivalent from an accredited college or university must be included.

Students who hold degrees from nonaccredited institutions may be admitted under conditions that are determined in each individual case and which ordinarily include the necessity of further undergraduate work.

GRADE POINT AVERAGE CALCULATION
To be considered for admission to graduate study at Kent State University you must have official transcripts from each college or university previously attended sent to the appropriate admitting office. Your cumulative grade point average (GPA) is calculated using the final grades from all previous undergraduate and post-undergraduate academic work.

ADMISSION FOR DEGREE STUDENTS
Each applicant for admission to graduate work as a degree student must take the following steps:

• Submit an application online at https://www.admissions.kent.edu/apply/ or a paper application including the $30 application fee. For programs in the College of Architecture and Environmental Design, the College of Arts and Sciences, the College of The Arts, the College of Communication and Information, the College of Technology, and the College of Nursing, forms may be obtained from the Division of Research and Graduate Studies, Office of Graduate Admissions, Cartwright Hall. For programs in education, applications may be obtained from the College of Education, Health and Human Services, Office of Student Services, 418 White Hall. Applications for graduate study in business may be obtained from the Graduate School of Management, Room 310A, Business Administration Building. Students are highly encouraged to apply online at https://www.admissions.kent.edu/apply/.

• Submit an application at least six weeks before the start of the semester in which you plan to begin your work. Some programs may have much earlier deadlines that differ from the above. Check individual departments or schools in this catalog for other deadlines and further information.

• Have official transcripts from each college or university previously attended sent to the appropriate admitting office. Please consult the instructions contained in the application for admission for submission of official transcripts. Applicants need not submit transcripts of work completed at Kent State University.

• Consult this catalog or the online catalog at www.kent.edu/graduateschool/graduate-catalogs.cfm to determine if any additional supporting materials, such as a standard examination, are needed for admission to your program. Commonly required examinations include the Graduate Record Examination (GRE), the Graduate Management Admissions Test (GMAT), and the Miller Analogies Test (MAT).

Incomplete application materials will be kept for a period of one year only. After that time materials will be destroyed. Students interested in admission after one year will need to reapply.

ADMISSION FOR NONDEGREE AND GRADUATE CERTIFICATE STUDENTS
Applicants who wish to take a limited number of graduate courses for self-improvement, intellectual curiosity or expansion of areas of professional expertise must take the following steps:

• Submit the Application for Graduate non-degree
Admission

Admission with the $30.00 nonrefundable application fee. This application may be obtained from the Division of Research and Graduate Studies, Office of Graduate Admissions, Cartwright Hall, Kent State University, P.O. Box 5190, Kent, OH 44242-0001, or apply online at https://www.admissions.kent.edu/apply/.

- Submit the application at least six weeks prior to the start of the semester in which you plan to begin your work. Some programs may have much earlier deadlines that differ from the above. Check the departmental section of the catalog or online at www.kent.edu/rgs/graduatestudies/graduate-catalogs.cfm for other deadlines.

- Have official transcripts from each college or university previously attended (except Kent State University) sent to the Division of Research and Graduate Studies, Office of Graduate Admissions, Kent State University, P.O. Box 5190, Kent, OH 44242-0001. Students who are taking graduate certificate programs should apply as a non-degree student, unless they are already in a concurrent degree program.

ADMISSION FOR INTERNATIONAL STUDENTS

An international student is any student who is not a U.S. citizen, whether residing abroad or in the United States holding any visa.

- Consult this catalog for admission procedures for the college or independent school offering the degree program in which you are interested.

- Applicants whose native language is not English must take the Test of English as a Foreign Language (TOEFL) and have an official test result submitted to Kent State University. Full information concerning this test is sent with application materials. All arrangements for taking the TOEFL or having additional score reports sent to institutions should be directed to the Test of English as a Foreign Language, Educational Testing Service, Box 899, Princeton, NJ 08540, U.S.A.

- Submit an application online at www.kent.edu/admissions/international or a paper application including the $60 application fee to the Office of International Affairs, 106 Van Campen Hall, Kent State University, P.O. Box 5190, Kent, OH 44242-0001 U.S.A.

- Submit the application six months prior to the start of the semester in which you plan to begin your work. Some programs may have much earlier deadlines that differ from the above. Check the departmental section of the catalog or online at www.kent.edu/rgs/graduatestudies/graduate-catalogs.cfm for other deadlines.

- Have official transcripts from the college or university posting your most recent degree sent to the Office of International Affairs, 106 Van Campen Hall, Kent State University, P.O. Box 5190, Kent, OH 44242-0001. Certified copies of all courses previously taken and the grade received in each course for each year from all colleges and/or universities must be submitted in support of the application. All documents must be certified and bear the seal of the endorser; unofficial photocopies are not acceptable. In addition, all documents must be accompanied by literal English translations.

- Included with application materials is the “Financial Affidavit of Support.” This statement serves as a notification to Kent State University of the source and amount of funds available to a student during his/her period of stay in the United States, and must accompany every application for admission. The “Certificate of Eligibility” will not be issued until Kent State University has sufficient evidence of financial support for the applicant’s entire period of study.

- All enrolled international students must show proof of health insurance coverage. Kent State University offers a student group health insurance plan.

ADMISSION FOR GRADUATE WORKSHOPS AND INSTITUTES

The Office of Continuing and Distance Education, in cooperation with academic departments, offers a variety of credit workshops. These workshops are especially designed to meet identified needs of various professions. Each workshop is set up to recognize the needs of the audience in terms of time, place, format and content.

A student holding a bachelor’s degree from an accredited institution and who has been accepted by a workshop director for a specified workshop, institute or other special program offering graduate credit may be admitted as a Special Non-degree Workshop student for the term of the workshop only. Prerequisites for admission are set by the instructional department. The temporary admission is valid for only one workshop consisting of a maximum of 12 semester hours. Students desiring to take other nonworkshop graduate courses concurrently with the workshop or to do graduate work beyond the length of the workshop term must apply for admission to the appropriate graduate college or school under regular procedures. A student may reapply for subsequent workshop participation under workshop admission regulations.

A maximum of 4 semester credit hours earned in graduate workshops may be applied to a graduate degree program. All workshops are graded “S/U." Some departments may be more restrictive. Students are advised to consult their departments regarding application of workshop credit toward degree requirements. For further information visit: http://www.kent.edu/contstudies/.

ADMISSION FOR TRANSIENT STUDENTS

Persons who are in good standing in a graduate degree program at another university may be admitted as transient students at Kent State University to take coursework which may apply to their degree program. A Transient Student Application Form may be obtained at the office of the
appropriate graduate college or online at http://www.kent.edu/rags/Forms/Graduate-Program-Management.cfm.

Transient students are admitted for one semester only. At the end of the semester for which a transient student is admitted, the admission will be inactivated. The student may register in subsequent semesters upon submission of a new Transient Student Application Form.

ADMISSION FOR INTERNATIONAL TRANSIENT VISITING GRADUATE STUDENT

Students who are in good standing in a graduate degree program at a university abroad may be admitted as transient students at Kent State University to take coursework which may apply to their degree program.

• Completion of the International Transient Visiting Graduate Form and processing through the International Admissions Office, 106 Van Campen Hall.
• Submission of a request letter from the advisor at the home institution certifying that the student is in good standing, and a letter of acceptance from a faculty member at KSU.
• Approval by the department/school graduate program committee and by the graduate dean of the college.

Time Limit: Student is allowed to work using Kent State facilities for a total of no more than 12 months.

Coursework: Students may also register for research hours or for regular courses but not to exceed a total of 12 credit hours over the visiting period. Tuition will be paid by their home institution or a Kent State grant. Students will be identified as full-time.

GUEST STUDENT ADMISSION

Admission as a guest student enables a student to take a limited number of graduate courses for credit. To be admitted in this category, a student must have earned a baccalaureate degree. Guest students typically take courses for job achievement, personal enrichment or other reasons.

Guest admission is available to applicants who are new to graduate study at Kent State University. Guest students may remain in this status until a maximum of 6 semester hours of Kent State University credit have been attempted. Students cannot earn a degree in this admission status. Guest students who wish to pursue a degree program or continue after 6 semester hours have been attempted must apply for regular admission. Credit hours taken in this status may apply to a degree program with the approval of the dean. Guest students must meet all prerequisites for courses (or obtain permission of the instructor) and must obtain approval from the corresponding program coordinator. Anyone who has been denied admission to graduate studies, or is under dismissal from the university, is not eligible for guest student status. Guest students are not eligible for financial aid.

NONTRADITIONAL MASTER’S DEGREE STUDENT

In rare instances a person who has not completed a baccalaureate degree will be considered for admission to the appropriate graduate school due to unusual and exemplary experiential learning. Such an applicant may apply for admission by presenting for departmental consideration a curricular plan encompassing undergraduate and graduate coursework to achieve a liberal educational background and professional graduate degree and three letters of recommendation attesting to the applicant's potential for graduate study. Upon departmental recommendation and the approval of the dean of the appropriate graduate school, the applicant will be admitted to undertake graduate work. Upon successful completion of the curricular plan and the particular master’s degree requirements, the student will be awarded the master’s degree.

COMBINED BACCALAUREATE/MASTER’S DEGREE EARLY IN THE STUDENT’S KENT UNDERGRADUATE STUDIES

A Kent State University student who has achieved a GPA of 3.5 after 60 semester hours, 3.4 after 75 semester hours, 3.3 after 90 semester hours or 3.2 after 105 semester hours may apply for early admission to a master’s degree program by:

• Completing the Application for Admission.
• Completing the Combined Baccalaureate and Master’s Program form that includes:
  a. Listing of courses at the undergraduate level that need to be taken for the baccalaureate degree.
  b. Beginning date for graduate study.
  c. Listing of graduate courses to be utilized in satisfying the undergraduate degree. (In participating departments/schools, students may apply up to 12 of their accumulated graduate hours toward the completion of their undergraduate degree requirements as well. The student’s undergraduate department will determine the undergraduate coursework for which graduate credits may be substituted.) In some departments graduate coursework may be substituted only for elective undergraduate coursework and cannot be used as substitution within the major. (Please check with the graduate coordinator in your individual department.) The selection of the graduate coursework and the number of credits to be applied toward an undergraduate degree requires the approval of the graduate chair in the student’s academic department and the appropriate undergraduate and graduate deans.
  • Providing three letters of recommendation from instructors who are familiar with the student’s achievements and intended academic goals.
  • Submitting any needed test scores from standardized examinations.
Admission

COMBINED BACCALAUREATE/MASTER’S PROGRAM FOR SPECIFIED KENT PROFESSIONAL PROGRAMS

The following are combined baccalaureate/master’s programs for professional programs available at Kent State University.

• Combined Baccalaureate/Master’s in Speech Pathology and Audiology Leading to Clinical Certification - This program is available to Kent State students who have completed 90 semester hours and achieved a minimum GPA of 3.0. Students may, with approval of the School of Speech Pathology and Audiology, apply for admission to the combined program. Admission will be based upon satisfactory GRE scores, three letters of recommendation, and completion of the Application for Admission and Combined Baccalaureate and Master’s Program forms.

• The Combined Bachelor of Science/Master of Arts Program in Visual Communication Design - This is a five-year degree program with optional concentrations in 2D graphic design, 3D graphic design and illustration. Students who pass the junior portfolio review, complete a minimum of 90 semester hours, demonstrate excellence in formal organization, conceptual problem-solving abilities and technical skills and maintain a minimum 3.0 overall GPA and a 3.25 in the major will be invited or may petition to enter this program. An overall GPA of 3.0 and a major GPA of 3.0 in both the bachelor’s and master’s programs will be required for graduation.

• Combined Baccalaureate/Master’s Program in the College of Business Administration and Graduate School of Management - This program is available to Kent State students who have completed 90 semester hours. In addition, they must meet the GPA requirements outlined under the Combined Baccalaureate/Master’s Degree early in the Kent State student's undergraduate studies.

• Combined Baccalaureate/Master’s Program in the Center for International and Comparative Programs and the Graduate School of Management Leading to the Bachelor of Arts and Master of Business Administration Degrees - Students must be international relations majors and complete their major in the first three years of study. In addition, students must pass a language proficiency exam, have a cumulative GPA of 3.3 and earn a minimum GMAT score of 525 before being admitted to the M.B.A. program. In the fourth year of this combined program, students take graduate business courses that are applicable to the undergraduate degree as electives and to the M.B.A. degree as foundation coursework. During the final year, students take advanced graduate business coursework leading to the M.B.A.

• Combined Baccalaureate in Fashion Merchandising/Master of Business Administration in the College of Business Administration and Graduate School of Management - Fashion merchandising majors who qualify may enroll in the combined B.S. in Fashion Merchandising/Master’s of Business Administration program and complete both degrees within five years. Careful planning and advising are needed in order to successfully complete the programs in a timely way. Students should work closely with their faculty advisors if they intend to follow this plan. In the freshman year, the math choice should be MATH 11012 or MATH 12002. When the student has achieved 90 hours or more in the merchandising program (beginning of the junior year) and has a GPA of 3.3 or higher, they should apply for conditional admission to the MBA program. This application must occur no later than April 1 of the junior year. The GMAT exam must be completed with an appropriately high score at the time application is made.

• Combined Bachelor of Science/Master of Science in Nursing Program - An accelerated combined degree program for undergraduate KSU nursing students who have completed 60 semester hours and meet the GPA requirements delineated in Combined Baccalaureate/Master’s for Degree Students Early In Their Undergraduate Studies. Qualified students may apply by completing an application for admission to the MSN program of choice and gaining approval from the appropriate graduate faculty program director. A plan of substituting selected master’s core courses for selected undergraduate courses should be carefully worked out with the faculty advisor. Following graduation and passing the state licensing examination (NCLEX-RN), students’ MSN application may be activated for admission into the selected master’s program.

• Combined Baccalaureate/Master’s Degree Program - Gerontology and Nursing Home Administration/Master of Business Administration Degree - Eligible students will substitute maximum 12 credit hours of selected MBA courses for their undergraduate degree coursework; and 6 credit hours of specific MBA course requirements will be waived for students completing selected courses. Total credit hours to program completion are 157 (121 for the undergraduate and 36 for the graduate).
ACADEMIC REGULATIONS

GENERAL ACADEMIC REQUIREMENTS
The university reserves the right to change course offerings and academic requirements; however, such changes should not be to the substantial disadvantage of a student during his or her enrollment. In this regard:

- Each student’s academic requirements are based on the catalog in force during his/her first semester at Kent State University.
- Students may elect to complete their degrees under the most recent catalog but must comply with all of the new requirements relevant to their program under the new catalog.
- Exceptions to the above may be necessary when changes in state certification or licensure standards mandate changes in academic requirements or in university programs.

GRADING SYSTEM
The transcript is an accurate and complete historical record of work attempted at the university. Changes to transcript entries that alter the enrollment history of a student are not to be made.

The student’s proficiency in graduate coursework is indicated in the following manner:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
<td>Denotes superior scholarship</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>Denotes average performance</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>Denotes below average performance</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>Denotes far below average performance</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
<td>Denotes failure</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

AU The mark “AU” denotes that students have registered to audit a course. Students may audit without credit any course, subject to space availability and departmental approval. An audited course is not counted as part of the course load, but the student must go through the registration procedures and pay the normal registration fees. In particular, an audited course may not be counted as fulfilling the minimum course load requirements of a graduate appointee. An instructor may impose whatever attendance requirements are deemed necessary upon the graduate student registered for audit. The student must be informed of these requirements at the beginning of the semester. Failure to meet such attendance requirements subjects the student to being withdrawn from the course by the instructor. This will be accomplished by the instructor’s insertion of the mark “W” for the student on the final grade list.

IN The administrative mark of “IN” (Incomplete) may be given to students who are currently earning a “C” or better and are unable to complete the required work between the course withdrawal deadline and the end of classes due to extenuating circumstances. Appropriate documentation is generally required to support the extenuating circumstances. The student must initiate the request for the Incomplete mark from the instructor, and it is the responsibility of the student to make arrangements to make up the incomplete work. Incompletes must be made up within one calendar year. Instructors are required to complete and submit an Incomplete Mark Form to the department chair or school director at the time grades are assigned. This form should include justification for awarding the Incomplete, the work to be completed for the course, and the grade to be assigned if the work is not completed (default grade). A copy of the Incomplete Mark Form is also provided to the student. In the event the instructor assigns an “IN” grade without a default grade, the default grade will be “F” if the work is not completed by the student. Incompletes will not be counted in the computation of grade point averages until the work is completed, at which time an appropriate grade will be assigned based on the instructor’s evaluation of the work submitted and a new grade point average computed. Unless the course is completed or an extension is granted, Incompletes will automatically lapse to the grade designated on the Incomplete Mark Form at the end of one year.

IP May be given to a student to indicate that research, individual investigation or similar efforts are in progress and that a final grade will be given in some later term. Courses for which the “IP” grade may be given are so indicated under individual departmental listings. A grade of “IP” is used for Thesis 6##99 or Dissertation 8##99 during those semesters in which a student is in the process of completing a thesis or dissertation. For courses that are required for the degree, a final grade must be given before a degree can be granted. The “IP” when given for thesis registration remains a terminal grade if the student changes from a thesis option in the master’s degree to another degree option.

NR A mark of “NR” indicates the instructor did not submit a grade.

S/U Denotes that a student has done satisfactory (“S”) or unsatisfactory (“U”) work in courses in which an ordinary letter grade is inappropriate. Courses for which only “S” or “U” grades may be given are so indicated under departmental listings. “S” and “U” are the only grades to be used for Thesis 6##99, Dissertation 8##99, workshops and courses involving internships. The instructor intending to use the grades of “S” and “U” in a course other than these must do so exclusively and only where permitted. The instructor will
announced this intent to the particular class at the beginning of the course and note it on the course syllabus. “S” — Satisfactory work is interpreted as average or superior attainment. “S” is not used in computing grade point averages, but work earning “S” may be applied toward meeting degree requirements.

“U” — Denotes unsatisfactory performance in a course for which a regular grade is inappropriate. Credit hours are recorded as credit hours attempted for which a regular grade is inappropriate. Credit hours are recorded as credit hours attempted, and the grade will be counted as an “F” in computing grade point averages.

W Denotes that a student has withdrawn from the university or from any individual course without evaluation. This mark is not used in computing grade point averages.

NF The “NF” (Never Attended F) grade denotes that students never attended one class session nor did the students formally withdraw from the course. The “NF” grade will count as an “F” (zero quality points) in computing grade point averages.

SF The “SF” (Stopped Attending F) grade denotes that students stopped attending the course and did not formally withdraw. The “SF” will count as an “F” (zero quality points) in computing grade point averages and must be accompanied by a date of last attendance in the course. Faculty who cannot determine the exact date of last attendance may use the date of the last academic activity in which students participated. “SF” grades are not appropriate for students who stop attending after the course withdrawal deadline. After that time, grades should be based on student performance in the completion of course requirements.

GRADE-TO-GRADE CHANGE POLICY
Once grades are submitted, they are final and will not be changed except in cases of administrative error. Grades will not be changed by allowing the students to do additional work (e.g., retaking exams; redoing papers; submitting extra credit papers, reports, etc.) or by using criteria other than those applied to all students in the class. In the event of a possible administrative error, the students must contact the instructor as soon as possible following the awarding of the grade. If the instructor is not available, the department/school chair should be contacted. Grade appeals for reasons other than administrative error must follow established procedures for student academic complaints. See the Student Academic Complaints (Kent Campus) procedure in the Digest of Rules and Regulations published annually on the Web site at http://www.kent.edu/CurrentStudents/.

GRADE POINT AVERAGE REQUIREMENT
To be considered “in good standing,” a 3.0 average or better in all graduate and required undergraduate work undertaken at Kent State University should be maintained by graduate students. In order to qualify for graduation, the student must have a 3.0 average in all graduate courses attempted. The grade point average of a student who enlists in the military service after work is begun toward a graduate degree may, at the student’s request upon return from military service, exclude the grades earned in the last semester in which that student is in residence prior to induction.

QUALITATIVE REQUIREMENTS
Only work of high quality is approved for graduate credit. Graduate students are expected to maintain a 3.0 average in all work attempted at Kent State. A student who fails to maintain a 3.0 average is subject to dismissal. In addition, in order to qualify for graduation, a 3.0 average must be maintained for all graduate coursework. Grades below “C (2.0)” are not counted toward completion of requirements for any advanced degree, but are counted in evaluating a student’s grade point average. Only graduate course credits count toward a graduate degree.

A graduate student who receives a combination of more than 8 hours of “B- (2.7)” or lower grades, or more than 4 hours of grades lower than “C (2.0)” is subject to dismissal. Dismissal may be recommended by the chair (or director) of the student’s department to the graduate dean, or the dean may request the action of the department chair, or action may be recommended by the dean’s designee.

When a department has determined that the number of In Progress (“IPs”) or Incompletes (“INs”) on a student’s record indicates poor progress toward completion of a degree, it may recommend to the dean dismissal of the student. In certain programs in which professional success depends upon factors other than those measured by normal evaluations in coursework, a department has the right to separate from the program a student who, in the opinion of a duly constituted departmental committee, is not likely to succeed professionally despite earning acceptable grades. Such programs, along with the factors involved, are listed with the appropriate dean. Administrators of these programs will inform the student upon admission of the nature of the assessment and the process by which it is made. A student separated from such a program has the right to appeal the decision. Information on the process of appeal is available in the office of the dean, appropriate academic offices and student services offices upon request. In determining a graduate student’s grade point average, all graduate courses required regularly by the program or specially by the student’s advisor and attempted by the student while in a Kent State University graduate program are included in the computation. A change by a graduate
student from one department or program to another does not eliminate the grades received under the first enrollment, which are computed in the student's grade point average. Graduate (but not undergraduate) courses taken by the student over and above those required for the student's program are included in the grade point average.

REINSTATEMENT AND READMISISON
A graduate student who has been dismissed from a graduate program normally may not be reinstated for work in the student’s former program, or readmitted in any other program or coursework. However, after one year as a dismissed student, application for reinstatement or readmission may be made based upon evidence that former academic weaknesses have been appropriately addressed. If the pertinent department and the dean agree that another opportunity should be provided, conditional admission will be granted.

FOREIGN LANGUAGE REQUIREMENTS
There is no universal foreign language or research tool requirement. Individual departments or discipline areas may have specific requirements. Students should consult their individual departments.

LANGUAGE EXAMINATION
Where required, the examination used to establish a student’s language proficiency is determined by the student’s department. The examination may be a departmentally designed and administered test.

APPROPRIATE LANGUAGES
The appropriate languages are determined by the student’s major department. Special arrangements for examinations in other languages must be made by the student’s major department in consultation with the chair of the university’s foreign language department.

TEST DATES
Dates for departmentally administered tests are set by the department.

SPECIAL LANGUAGE COURSES
A series of courses has been instituted in French and German to develop “reading” proficiency in these languages. “Reading” proficiency in a foreign language is demonstrated when the student completes one of the following sequences with a grade of “B (3.0)” or better in each course of the sequence:

- French  63201 and 63202
- German  61901 and 61902

Credit hours earned in this language sequence are not applicable toward the completion of the hour requirement in a student’s graduate program and do not count toward the minimum 8-hour semester load required.

PREPARATION FOR COLLEGE TEACHING
All new graduate students holding graduate appointments will be required to attend and participate in an orientation and training program the week prior to the beginning of fall semester classes (ONTAP). For further information, please visit: http://www.kent.edu/rags/ONTAP/index.cfm. Departments may also require attendance at departmental orientation meetings.

During the initial term of a graduate appointee’s tenure, the departments require special training in college teaching. Graduate students may register for this training under College Teaching of (the name of the department’s discipline). The nature of the training is determined by each department offering it, but may include such activities as supervised experience, group discussions of teaching problems conducted by a senior member of the faculty, or directed readings. No more than 2 credits may be applied to degree requirements, with departmental approval, although registration for College Teaching of (the name of the department’s discipline) may be repeated to a total of 7 hours. For details consult the chair of the department (or coordinator of college teaching in the department) or the dean.

The college teacher training program also includes a preceptorial system in several departments, with senior teaching fellows serving as advisors to small groups of beginning graduate assistants.

The Doctoral Programs

General academic policies of doctoral programs are given in this section. Special information on doctoral programs will be found in the various academic units, and individual departments may prescribe such additional requirements as they deem warranted.

The degree of Doctor of Philosophy is designed for students interested in becoming professional scholars, college and university teachers, or independent research workers in private, industrial or government research institutions.

Programs are offered in the fields of biological sciences, biomedical sciences, chemistry, communication studies, computer science, education, English, geography, geology, history, management, mathematics, music, nursing, physical education, physics, political science, psychology, sociology and speech pathology and audiology. There are programs in the interdisciplinary areas of chemical physics and educational psychology.

The degree will be conferred solely in recognition of high-level attainment in a branch of learning and in the demonstration of marked scholarly ability within a chosen field. It should be clearly understood that no specific number of credits entitles a student to a doctoral degree. However, the comprehensive knowledge expected of the student is such that the coursework and dissertation will generally demand at least three years of full-time study or its equivalent after the baccalaureate.
Academic Regulations

PROCEDURE
The student will ordinarily observe the following procedure in order to be eligible for the Ph.D. degree:

- Indicate the intention to meet specifications of the departments concerned by applying for admission. The college or independent school and the department together will determine acceptability;
- Fulfill the credit requirements of the department in which the major work is done;
- Fulfill the residence requirements (if any);
- Satisfy the language or research tool requirements of the department;
- Pass the candidacy examinations in the major field (if any);
- Carry out a suitable scholarly research or creative program;
- Write a dissertation that shows high attainment and creativity;
- Successfully defend the findings of the dissertation in public before a committee of the graduate faculty; and
- Have registered for a minimum of 90 semester credits beyond the bachelor’s degree or 60 credits beyond the master’s degree (registration for thesis, dissertation and research may be included in this total).

LANGUAGE
All students must demonstrate proficiency in both oral and written English, which is the language of graduate study at Kent State. Judgment of such competence rests with the appropriate major department. Deficiency in English is cause for dismissal from any graduate program.

Additional language requirements, other than English, for the Doctor of Philosophy degree are specified by the student’s department.

Language requirements (if any) must be completed before the student is admitted to candidacy. Students should consult their department regarding foreign language requirements for their degree program.

CREDIT
While the well-prepared student may expect to meet formal course requirements (exclusive of dissertation) for the doctoral program by completing a minimum of two years of full-time work beyond the baccalaureate degree, departments may require more extensive preparation where needed. In order to qualify for a doctoral degree, a student must present a minimum of 90 semester hours beyond the bachelor’s degree, or 60 hours beyond the master’s degree. These hours may include registration for coursework, individual investigation, or research courses and dissertation. Only work of high quality is approved for doctoral credit.

TIME LIMITS
A doctoral student must register for courses at Kent State University within two years after the student’s admission date in order to retain active status. Failing to do so, the student must reapply, and all requirements in effect at the time of reapplication must be met. If a student is unable to begin formal coursework during the term for which admission was originally granted, he/she must maintain current demographic information and academic transcripts at the admitting office at Kent State University and indicate the term in which he/she will register.

It is expected that the graduate student working toward a doctoral degree and entering Kent State University with a baccalaureate degree will complete the degree in no more than 10 years. Normally students entering with a master’s degree will complete the degree in no more than nine years. Students proceeding from the baccalaureate degree will normally pass the candidacy examination within four calendar years of the first graduate registration at Kent State University.

A doctoral candidate is expected to satisfactorily complete the dissertation and pass the final oral examination within five calendar years after having passed the candidacy examination. Individual disciplines may have shorter time limits, and specific program descriptions should be consulted.

When an extension of any of these time limits seems to be necessary and proper, the student and advisor will petition the student’s department for an extension. The extension may be denied, in which case the student will be dismissed, or it may be granted with qualification. The student, advisor and dean must be informed of the decision in writing. If the extension exceeds one year, the approval of the graduate dean is required. Requests for time extensions exceeding one year must be submitted to the dean with evidence that the degree candidate is current in his/her field of study.

Upon receiving a doctoral degree, a student is inactivated and is no longer eligible to register for courses at Kent State University. If a student wishes to continue studies, he/she will need to reapply to the appropriate academic unit.

TRANSFER CREDIT
A master’s degree and 12 semester hours (or a maximum of 44 semester hours of graduate credit) may be accepted by transfer from accredited institutions provided (1) the work was of “B (3.0) or better quality; (2) the work fits into the student’s program at Kent State; (3) credit is less than nine years old at the time the degree is conferred at Kent State; (4) an official transcript with an accompanying explanatory letter is filed in the department; and (5) the student’s advisor, department graduate committee and the graduate dean approve.

An “accredited” institution is one that is approved or accredited by the appropriate regional accrediting agency (e.g., North Central Association of Colleges and Schools) for graduate-level work.
RESIDENCE
Residence requirements are determined by the graduate departments. Please consult the appropriate department as to its residence requirement for the doctorate.

CANDIDACY
To become a candidate for the doctorate, a student must pass a candidacy (comprehensive) examination in the field of the major subject. This examination will be taken when departmental requirements have been met, but it should not be taken later than nine months before the student expects to receive the degree. The content and scope of the examination are determined by the department concerned. The examination may be either written or oral, or both. The student is not permitted to continue with the dissertation unless this requirement is satisfied.

Failure on the candidacy examination and a subsequent prescription and reexamination are subject to departmental policy. When opportunities for such reexamination are exhausted without success, the student will be dismissed from graduate study.

DISSERTATION
A dissertation is required of each doctoral candidate in any department offering the doctoral degree. The dissertation topic must be approved by the department and filed with the dean no later than one semester preceding that in which the candidate expects to receive the degree. Each graduate unit has adopted a procedure for the preparation of a dissertation prospectus. This document will normally include an outline of the parameters of the projected dissertation topic, a statement of the problem to be undertaken, the procedure or methodology to be used in the research, a preliminary review of the literature substantiating the need for the study, and the principle sources of information for the dissertation. The prospectus must be in writing, but an oral presentation may also be required.

Each doctoral candidate, upon admission to candidacy, must register for Course Number #999, Dissertation I, for a total of 30 hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter Dissertation II, each semester, including summer, until all requirements for the degree have been met. The grade of “IP” is used until the student completes the dissertation at which time all “IP” grades in dissertation are changed to “S” grades.

The dissertation must demonstrate that the student has acquired the ability to conduct research in a discriminating and original manner. The dissertation should make a significant contribution to the field in which it is written that at least one scholarly article suitable for publication in a professional journal may be derived from it or that the findings of the dissertation would be otherwise publishable.

After the dissertation, typed in legible form, is accepted by the dissertation advisor, it will be read by the student’s dissertation committee, and any recommended revisions will be communicated to the student. Upon completion of the revisions, if any, the student will be required to defend the findings before a committee of graduate faculty members including the dissertation committee and others chosen by the department and dean. The responsibility for conducting the examination itself will be that of an impartial moderator selected from a department other than that of the student’s major or minor. The defense of the dissertation is open to the university community. Questioning is restricted to members of the graduate faculty, and the vote of the examining committee will be conducted in private.

After the candidate has passed the oral examination, the doctoral candidates will submit their dissertation in electronic form. The dissertation will also include an abstract of no more than 350 words. A “checklist” and a “how-to” create Electronic Theses and Dissertations is found online at: http://www.library.kent.edu/page/10239.

Dissertations submitted electronically are available through OhioLINK.ETD Center (http://www.ohiolink.edu/etd/). Individual units may still require submission of a paper copy for their archives. It is the responsibility of the doctoral student to fulfill this requirement.

Theses and dissertations must be prepared according to established guidelines. Guidelines for preparation and typing of theses and dissertations are available in the appropriate graduate offices.

All dissertations must be published according to a plan provided by ProQuest Information and Learning. Ann Arbor, Michigan for the purposes of archiving, indexing, and dissemination. All communications and relations between faculty or students and ProQuest shall be carried out only through the Kent State University librarian.

Publication of the complete dissertation or significant parts of it through other avenues is expected, but this is not to be used in lieu of the requirement stated herein.

MULTIPLE DEGREES
A student may work simultaneously or sequentially on doctorates in two different disciplines or a doctorate in one and a master’s or baccalaureate in another if the departments involved believe there is good reason for so doing and will admit the student to both programs. Persons having a doctorate will not be permitted to work on a second degree from the same department with a different emphasis. Courses to be doubly counted shall be determined by the departments but in no case may the number of credits exceed the equivalent of a master’s degree plus 12 credits. The deans involved shall be notified of these decisions.

PRIVILEGES
A doctoral student will be allowed, with the consent of the advisor and of the instructor concerned, to enroll in any course offered at Kent State University.
Academic Regulations

The Master's Programs

A variety of master's programs are offered by Kent State University. General policies of the master's programs are given in this section. More specific information on master's programs is given in later sections of this catalog.

At the master's level Kent State University is authorized to grant the degrees of Master of Architecture, Master of Arts, Master of Arts in Teaching, Master of Business Administration, Master of Education, Master of Fine Arts, Master of Liberal Studies, Master of Library and Information Science, Master of Music, Master of Public Administration, Master of Science, Master of Science in Accounting, Master of Science in Nursing and Master of Technology. The College of Education, Health and Human Services also awards the Educational Specialist degree.

Graduate courses are available in the following areas: accounting, anthropology, architecture, art, biological sciences, biomedical sciences, chemical physics, chemistry, communication studies, computer science, criminal justice studies, economics, education, english, family and consumer studies, geography, geology, history, journalism, library science, management, mathematics, modern and classical language studies, music, nursing, philosophy, physical education, physics, political science, psychology, sociology, speech pathology and audiology, technology and theatre.

To pursue graduate work in a given department, the student ordinarily should have met the requirements of the university for an undergraduate major or minor in that department, but this is not mandatory. For admission to graduate work in certain areas of education, the student must have qualified for an Ohio Provisional Teaching Certificate or the equivalent. Areas in which a certificate is not required include student personnel (higher education), rehabilitation counseling, evaluation and measurement, learning and development, certain majors in special education, school psychology, early childhood education, and the elementary and secondary Master of Arts in Teaching programs.

ADVISORS

The coordinator of the program in which a student majors will either assist the student in planning a program or assign a member of the departmental faculty to act as the advisor. During the first semester in residence, each student should tentatively plan their entire graduate program with the advisor.

Where a thesis is required, the student should select a topic early in the year in consultation with the advisor. The thesis advisor will act as a consultant during the time the thesis is being written and will also help to make arrangements for the oral examination.

The deans also welcome the opportunity to advise students regarding the general regulations, but in most instances, the advisor can furnish all necessary information concerning general and departmental requirements.

ENGLISH COMPETENCE

Competence in both written and oral English is always expected of students, and judgment of such competence rests with the appropriate major department. Deficiency in English is cause for dismissal from any graduate program.

RESIDENCE

Residence requirements are determined by the graduate departments. Please consult the department as to its residency requirement for a master's degree.

TIME LIMITS

A master's degree student must register for courses at Kent State University within two years after the student's admission date in order to retain active status. Failing to do so, reapplication must be made and all requirements in effect at the time of reapplication must be met. If a student is unable to begin formal coursework during the term for which admission was originally granted, he/she must maintain current demographic information and academic transcripts at the admitting office at Kent State University and indicate the term in which he/she will register.

A master's degree student will normally complete work within six calendar years after the student’s first graduate registration at Kent State University. Any credit being transferred for meeting degree requirements should also have been earned within the six-year period. Departments with time limits that vary from these norms will notify their students in writing.

When an extension seems to be necessary and proper, the student and advisor will petition the student’s department for an extension. The extension may be denied, in which case the student will be dismissed, or it may be granted with qualification. The student, advisor and dean must be informed of the decision in writing. If the extension exceeds one year, the approval of the dean is required. Requests for time extensions exceeding one year must be submitted to the dean with evidence that the degree candidate is current in his/her field of study.

Upon receiving a master's degree, a student is no longer eligible to register for courses at Kent State. In order to continue studies at Kent State, reapplication in another graduate degree program or as a special nondegree student must be made and be accepted.

TRANSFER CREDIT

A maximum of 12 semester hours of credit may be accepted by transfer from accredited institutions offering the master's degree provided (1) graduate credit was received from that institution; (2) the work was of "B (3.0)" quality; (3) the work fits into the program; (4) credit is less than six years old at the time the degree is conferred at Kent State; (5) an official transcript with an accompanying explanatory letter is filed in the department; and (6) the student's advisor, department graduate committee and the dean approve.
An “accredited” institution is one that is approved or accredited by the appropriate regional accrediting agency (e.g., North Central Association) for graduate-level work.

QUALIFYING EXAMINATION
In some departments all graduate students are required to take a qualifying examination. Each student should inquire of the major department whether such an examination is required and when it should be taken. The student is responsible for making the arrangements for taking the examination.

Students working for a degree requiring a thesis may have their thesis topic approved as soon as they pass the qualifying examination.

ORAL EXAMINATION
In some departments, an oral examination, open to the university community, may be required of candidates writing a thesis. When the thesis has been accepted by a student’s advisor, the department will arrange for the oral examination. The dean will be kept informed of the time and place of the examination and the composition of the examining committee. The results of the examination will be sent to the dean for approval. This examination is directed primarily toward the thesis but may contain other topics with which the committee feels the candidate should be familiar. The committee usually consists of three to five graduate faculty members, the majority of whom must be associated with the student’s program.

THESIS
The writing of an acceptable thesis is mandatory in certain degree programs. The thesis topic must be approved by the department and filed with the graduate dean no later than the semester preceding that in which the candidate expects to receive the degree.

The thesis topic should be one that will further the student’s educational development by developing research or other skills that will help the student keep abreast of the field and enable the student to pursue independent work. The thesis topic is formulated by the student in consultation with the advisor and submitted to the department for approval according to normal departmental procedures.

The thesis must be completed and in the hands of the examining committee no later than eight weeks before commencement. Some departments may demand an earlier deadline. After the thesis has been accepted by the examining committee and after the candidate has passed the oral examination (if required by the major department), two copies of the final, letter-perfect thesis are prepared and submitted to the appropriate graduate office. Two copies of an abstract of not more than 400 words are included with the copies of the thesis. Students should consult guidelines for preparation of theses and dissertations, which are available in the college offices.

Master candidates have the option of submitting their thesis in electronic form instead of the paper format. Guidelines for creating electronic theses are found online at http://www.library.kent.edu/etd/. Theses are submitted electronically through the OhioLINK ETD Center (http://www.ohiolink.edu/etd/) where they are made publicly available. If this option is exercised, no paper copies are required for the Library. Individual units may still require submission of a paper copy for their archives. It is the responsibility of the master’s student to fulfill this requirement.

Each student writing a thesis is required to register continuously for Thesis I 6#99 for a total of 6 credits. A student who has completed the required 6 hours of Thesis I is expected thereafter to register continuously for Thesis II 6#99 each semester, including summer, until all degree requirements are met. No more than 6 hours of Thesis I credit may be counted toward completion of degree requirements. The student should make certain that the topic has been approved and must register for thesis writing no later than the last semester the student is in residence. Grades of “S” or “U” are used.

MULTIPLE DEGREES
A student may work simultaneously or sequentially on master’s degrees of two designations in one discipline or on master’s degrees of one or two designations in two disciplines or on a master’s degree and a baccalaureate in two different disciplines if the departments involved believe that there is good reason for so doing and will admit the student to the programs. Courses may be doubly counted for the two degrees as determined by the department(s), but in no case may they exceed 12 credits except for the special cases listed below. The appropriate dean(s) shall be notified of these decisions.

When one of the degrees is the Master of Fine Arts, a two-year degree, the courses to be doubly counted shall not exceed 26 credits.

Students pursuing the Master of Business Administration and Master of Science in Nursing or Master of Business Administration and Master of Library and Information Science programs may doubly count up to 28 credits.

Students pursuing a degree of Master of Science in Information Architecture and Knowledge Management and a Master of Arts in Journalism and Mass Communication or Master of Science in Information Architecture and Knowledge Management and Master of Library and Information Science may doubly count up to a maximum of 28 credits.
APPLICATION FOR AND AWARD OF A MASTER’S DEGREE TO A PH.D. STUDENT

A student who has been admitted to and is currently pursuing a doctoral degree may apply for a master’s degree in the same department in which the doctorate is to be taken. Upon certification that the student has met the requirements for the master’s degree in that department, the degree may be awarded. The total number of graduate hours required for the Ph.D. shall not be altered thereby.

Nondegree Students

For students who wish to take a few graduate courses for personal reasons (e.g., self-improvement, intellectual curiosity), the classification of nondegree student is available. This classification is only for those students not working toward a graduate degree at Kent State University. If such a student decides to work toward a degree, then the appropriate department/school must be petitioned and the department/school and the appropriate dean must grant approval. At most 12 semester hours of such credit may be petitioned to satisfy requirements of a degree program. Such a petition must receive approval of the department/school and of the appropriate graduate dean. Note that only 6 semester credit hours can be transferred in some departments/schools graduate programs. Nondegree students may not transfer credit earned at another university.

Persons who have earned a graduate degree from an accredited institution may be admitted as nondegree students, subject to departmental approval, after making application and filing evidence of such degree with the appropriate college or independent school.

Baccalaureate degree holders who wish admission to the graduate nondegree category must follow the application procedures as shown under Admission for Nondegree and Certificate Students. In order to retain active status, a student must register for coursework within two years after the admission date. The admission of a student who does not register within two years will be inactivated. Reapplication must be made if the student desires to register for coursework at this time. Once registered, a nondegree student may continue to take courses for six years. Six years after the first registration, the nondegree student will be inactivated and must reapply for admission if continued registration in graduate coursework at Kent State University is desired.

Anyone who has been denied admission to graduate studies, or is under dismissal from the University, is not eligible for Nondegree student status.

All fees, deadlines and performance standards for degree students apply to nondegree students.
REGISTRATION

Only students who have been formally admitted to a graduate program at Kent State University may register for graduate coursework and pay the appropriate fees. An official registration is a record of the student's approved schedule of classes maintained online in the university's Student Information System. Students must register and make payment of fees by published deadlines prior to attending classes. Students who are not officially registered for a course by published university deadlines should not be attending classes and will not receive credit or a grade for the course.

All graduate students, whether full-time or part-time, will register using FlashFAST accessible from FlashLine at http://flashline.kent.edu. Access the Office of the University Registrar home page at www.registars.kent.edu/home for specific registration dates and procedures.

All admitted students should come to the FLASHcard Office located in the Kent State Student Center to be issued an ID (the FLASHcard). Students must possess a valid Approval of Admission from the university and two valid forms of identification to receive a FLASHcard.

IMPORTANT NOTE: Corrections involving registration transactions (initial registrations, schedule adjustments, exits, etc.) must be completed by published deadlines. Refer to the University Registrar Web site for information, deadlines and procedures.

FLEXIBLY SCHEDULED COURSE SECTIONS

Some courses are offered as flexibly scheduled sections, that is, the section does not meet for the full semester. Eligibility for processing registration transactions for these courses (adding, dropping or withdrawing) is determined by the beginning and ending dates of the section. Deadlines may be determined by visiting the Office of the University Registrar Web site at www.registars.kent.edu/home and accessing the Processing Dates for Classes link.

CLASS SCHEDULES

All courses carrying graduate credit are described in the following pages. A few of the courses are offered each semester, but the majority are scheduled less frequently. For the most current, accurate and searchable Schedule of Classes, visit FlashFAST, which is accessible from Flashline at http://flashline.kent.edu or the University Registrar’s Web site at: www.registars.kent.edu/home.

COURSE NUMBERING SYSTEM

Courses numbered 50000 and above are for graduate students only and are referred to as graduate courses. Many of the 50000-level courses are also offered at the 40000 level for undergraduates. Students who have already completed 40000-level courses may not repeat the courses at the 50000-level for credit toward a graduate degree. No more than one-half of a graduate student's coursework may be taken in 50000-level courses.

LATE REGISTRATION

Students who are not officially enrolled for any coursework (registered and have paid fees) as of the first day of classes for the semester will have to process a Late Registration using FlashFAST in order to attend classes. All late registrations must be completed prior to the beginning of the third week of classes for fall and spring semesters.*

A late registration fee of $100 will be assessed for any registration processed after the first week of classes for fall and spring semester.*

Late Registration will not be accepted after the second week of classes for fall and spring semesters.* Any questions regarding this policy should be referred to the student’s college office.

Additional information about late registration is available by accessing the University Registrar’s Web site at www.registars.kent.edu/home.

SCHEDULE ADJUSTMENTS

In addition to the schedule adjustments during the registration periods, the following schedule adjustments may be permitted during the first two weeks of the semester:*  

- Adding a course/section.
- Dropping a course/section.
- Changing a section (same course, different time or credit hours).
- Changing from graded to audit status.
- Changing from audit to graded status.

Schedule adjustments are permitted as outlined on the University Registrar Web site at www.registars.kent.edu/home. There are no processing fees required for schedule adjustments.

- Course adding is permitted through the second week of the semester, on a space-available basis, using FlashFAST.

- Withdrawal from any or all courses is permitted through the 10th week of the semester (or the prorated deadline for flexibly scheduled sections). After that time, students are considered to be committed to all remaining courses and must complete them. If students are unable to complete the semester because of extreme circumstances that first occur after the deadline, students should consult their college or campus dean's office. Any course withdrawal(s) processed after the second week of the semester will appear on the students' academic record with a grade of “W.”

- Any applicable refund (as noted on the Bursar’s Web site, www.kent.edu/bursar) is determined by the date the transaction is processed on FlashFAST.
REGISTRATION CANCELLATION

To receive a full refund of tuition, students who register and decide not to attend the university must cancel their registration as early as possible and no later than the end of the first week of classes.* This may be accomplished by dropping all courses via FlashFAST during registration periods. Any paid registration not canceled by the end of the first week of classes will be subject to the refund schedule published on the Bursar’s Web site. Any applicable refund is determined by the date the transaction is processed on FlashFAST.

Note: If class beginning or ending dates are other than the regular session dates for a full term, deadlines may be different than noted above. For these flexibly scheduled classes, you may determine deadlines by accessing the processing dates for classes (http://www.registrars.kent.edu/home/classes/sessdatesrch.cfm) link on the University Registrar’s Web Site.

FULL-TIME REGISTRATION

By definition, a full-time graduate student is one registered for 8 to 16 hours in any one semester, with 16 hours being the maximum number that may be carried per semester. For fee assessment purposes, a full-time student is defined under the section on fees. A graduate student who has entered into candidacy and is within the university’s maximum time and credit hour limits for completion of the degree may carry a program of one or more graduate-level credits involving research (Dissertation II) under the direction of the candidate’s dissertation advisor, and will be considered as full time.

Students who are not officially registered for a course by published university deadlines should not be attending classes and will not receive credit or a grade for the course.

PART-TIME REGISTRATION

A part-time graduate student is one taking less than 8 hours per semester. Persons doing graduate work while engaged in a full-time, on-campus position should attempt to limit themselves to one course. Off-campus work is governed by the same rules that apply to work on campus.

EVENING AND SATURDAY CLASSES

Enrollment for evening and Saturday classes is made during the regular registration periods. Anyone expecting to enroll for one of these classes should make sure that admission to graduate study has been attained and should be informed about registration periods.

SUMMER SESSION

One three-week term (Intersession), two terms of five weeks each and one term of eight weeks comprise the university’s summer session.

SELECTIVE SERVICE REQUIREMENT

Pursuant to Ohio Law, House Bill 845, all Ohio resident male students between the ages of 18 and 26 not registered with Selective Service must file a statement of Selective Service registration with the Office of the University Registrar. If you have not already registered with Selective Service, you will be contacted regarding your noncompliant status. Failure to comply will result in the assessment of nonresident tuition fees to your account and the cancellation of all state-based financial aid. Further questions may be directed to the Office of the University Registrar at 330-672-3131.

*Please refer to the Summer term calendar at www.registrars.kent.edu for summer deadlines.
GENERAL REQUIREMENTS AND REGULATIONS

DEADLINES FOR FILING THESES, DISSERTATIONS AND FOR COMMENCEMENT
Deadlines are established for filing theses, dissertations, applications for graduation and similar actions initiated by graduate students. Exact dates of the various deadlines will vary somewhat from year to year and are published on the University Registrar Web site and in the colleges’ web pages as well as on Page iii of this Graduate Schools Catalog. It is the responsibility of each graduate student to be familiar with the deadlines.

REPRODUCTION OF THESES AND DISSERTATIONS
For the reproduction of theses and dissertations, a student must submit two suitable copies in partial fulfillment of degree requirements. Suitable copies are described in the guidelines and instructions for typing theses and dissertations. Guidelines may be obtained at the office of the student’s graduate dean. Students should consult this document for typing instructions. This requirement is waived for doctoral and masters students choosing the option of electronic submission of their dissertation.

TRANSCRIPTS
Copies of a student’s academic transcript are available, at no charge, by requesting them in one of the following ways:

- Come to the Office of the University Registrar Service Counter, Room 108, Michael Schwartz Center, with a photo I.D.
- Mail a request to Kent State University, Office of the University Registrar, P.O. Box 5190, Kent, OH 44242-0001, with the information noted below.
- Fax a request to 330-672-3867, with the information noted below.
- Log into FlashFAST at http://www.kent.edu and click Student Tools tab.

INFORMATION REQUIRED FOR TRANSCRIPT REQUEST
When making a transcript request, please provide the following information: your current name and address, any former name(s), student ID number, dates of attendance, campus(es) attended, the address(es) where the transcripts are to be mailed and your written signature.

Transcripts will be processed upon receipt and will be mailed within two business days. Please allow extra processing time at the beginning and ending of each semester.

Specific dates for availability of current semester grades and degrees may be found at www.registars.kent.edu/home.

Select the Classes tab and click on the Processing Dates for Final Grades and Transcripts.

All financial obligations to Kent State University must be satisfied before a transcript is released.

GRADES
Final grades are reported at the close of each academic term and become part of the student’s permanent record. Students may check their grades by accessing FlashFAST from FlashLine at http://www.kent.edu.

COMMENCEMENT
Degrees are conferred at commencement exercises in December, May and August. A student must file an application for graduation in the office of his/her graduate dean, where a special form may be obtained. This should be done by the end of the first week (see calendar) of the semester during which the student is reasonably certain of completing the work for the degree. If the student does not complete the work in the semester during which the application is filed, then reapplication must be done during the first week of the semester in which completion of the work for the degree is expected. August graduates must file during the first week of Summer Session I.

POSTING OF DEGREES
The integrity of academic transcripts is fundamental to the validity of coursework and degrees certified by the university. Therefore, all student transcript entries (grade and other notations) are finalized when the degree is officially posted to the permanent academic record. Degrees are posted to the students’ permanent academic records approximately 30 days following the effective date of graduation.

STUDENT CONDUCT
The Kent State University Code of Student Conduct applies to both graduate and undergraduate students. Graduate students are subject to dismissal or suspension for violations of the code.

Violations that may result in academic dismissal include furnishing false or incomplete information to the university with intent to deceive or forge, alter or misuse university documents or other official documents that serve as the basis for admission and graduation. Forgery or alteration of these documents may result in the revocation of a graduate degree or certificate.

It is the policy of Kent State University (1) that students are to perform their own academic work according to the standards set by faculty members, departments, schools and colleges of the university, and (2) that cheating and plagiarism constitute a fraudulent misrepresentation for which no credit can be given and for which appropriate sanctions are warranted and will be applied.

For additional information, please visit http://www.kent.edu/administration/emsa/judicial.cfm
ADMINISTRATIVE POLICY REGARDING ELECTRONIC COMMUNICATIONS FOR STUDENTS

A. Introduction
Kent State University is committed to using the most advanced technology available to communicate with students and recognizes an expanding reliance on electronic communication among students, faculty, staff and the administration due to the convenience, speed, cost-effectiveness and environmental advantages of using electronic communication. Therefore, the Electronic Communications Student Policy will provide procedures and regulations to govern the use of electronic communications between the university and the students. Electronic communications may include, but are not limited to, electronic mail, electronic bulletin boards and information portals. Please refer to the Kent State University Responsible Use of Information Technology Policy for additional information and guidelines regarding electronic communication.

B. Procedural Standards

- University use of electronic mail: A university-assigned student e-mail account shall be an official university means of communication with all students at Kent State University. Students are responsible for all information sent to them via their university-assigned e-mail account. If a student chooses to forward information in their university e-mail account, he or she is responsible for all information, including attachments, sent to any other e-mail account.

- Assignment of student e-mail accounts: New students will be assigned an e-mail account when they are admitted. Once an e-mail account is established, the address will be added to FlashFAST at wfs.kent.edu and the student online directory at www.kent.edu/phonedirectory.

- Expectations regarding student use of university electronic communications, which include, but are not limited to, e-mail and information portals. To stay current with university information, students are expected to check their official university e-mail account and other electronic communications on a frequent and consistent basis. Recognizing that some communications may be time-critical, the university recommends that electronic communications be checked minimally twice a week.

- Maintenance of student e-mail accounts: Kent State University will maintain a student’s e-mail account for the life of the student to facilitate communication as an alumnus, or until such time that a former student requests that the account be closed.

- Mass and targeted electronic communication: The distribution of mass communication to all students or targeted communication to a specific subset of students shall be restricted to Kent State University departments for university business. External requests will not be honored.

- Educational uses of e-mail: Faculty may determine how e-mail and other electronic communications will be used in their classes, and it is recommended that faculty expectations of all electronic communication requirements be specified in their course syllabus. Faculty should expect that students are accessing official electronic communications and should use such communications for their courses accordingly.

C. Guidelines for Implementation
The Vice President for Enrollment Management and Student Affairs and the Vice President for Information Services shall establish guidelines for the implementation of this policy.
Jasmine's Café

For sports and recreation enthusiasts, the university offers many opportunities. As a member of the National Collegiate Athletic Association, the Mid-American Conference and the Association of Intercollegiate Athletics for Women, Kent State sponsors 18 varsity sports for men and women. In addition, the intramural office provides athletic competition in numerous sports for undergraduate, graduate and faculty teams. The campus houses several facilities for athletics and recreation: Dix Stadium Memorial Athletic and Convocation Center, an indoor ice arena, an 18-hole golf course, an all-weather track, lighted tennis courts, baseball/softball fields, playing areas for soccer and rugby, and the Student Recreation and Wellness Center (SRWC). The SRWC, a 153,000-square-foot world-class facility, features a sports arena, elevated running track, natatorium, climbing wall, workout rooms and refreshment and lounge areas.

The surrounding region of northeastern Ohio provides many additional cultural and recreational attractions. The
Blossom Music Center in nearby Northampton Township offers a wide variety of musical programs during the summer months, ranging from concerts by The Cleveland Orchestra to popular musicians and groups. The university also owns and operates the Porthouse Theatre, a 600-seat, open-air summer theatre located adjacent to the Blossom Music Center. Kent’s proximity to Cleveland, Youngstown and Akron provides additional opportunities for attending performances of distinguished musical ensembles, enjoying permanent and visiting exhibitions at renowned art institutes, and attending theatre, dance, film and other arts programs.

The state of Ohio provides many recreational opportunities with 12 state parks in northeastern Ohio. Nearby is the Cuyahoga Valley National Park, which is particularly known for its traditional music events each year. Well-known amusement parks are also located in northeastern Ohio — Cedar Point and Geauga Lake of Ohio. Several ski resorts, including Alpine Valley, Boston Mills and Brandywine, are close by. Kent’s proximity to major metropolitan areas provides many opportunities to see professional baseball, basketball and football.

**GRADUATE STUDENT SENATE**

The Graduate Student Senate represents the concerns of the graduate student community of Kent State University. The Graduate Student Senate also serves as an allocation body by providing funding to graduate students and graduate organizations for speakers, workshops, social events, capital equipment purchases and professional travel.

The Graduate Student Senate is composed of representatives chosen by procedures established by the graduate departments/schools of Kent State University. The Graduate Student Senate also appoints graduate student representatives to a variety of university committees.

The Graduate Student Senate Research and Presentation Colloquium showcases the work of graduate students, facilitates graduate students’ development as participants in the scholarly, professional and creative community, and creates a forum to share knowledge within and across university disciplines. The colloquium is an opportunity to turn a seminar research project into a conference paper and practice conference and professional presentation skills. All Kent State graduate students, as well as graduate students from other universities and colleges, are invited to submit abstracts for presentations in paper, slide, poster, visual arts display, or demonstration format. The colloquium takes place in mid-Spring semester and submissions are due in February. Look for more detailed information on our Web site. Graduate Student Senate general meetings are held four times each semester. Gradfests are held for all graduate students on the Fridays following the general meetings. Additional information regarding Graduate Student Senate may be obtained from the Graduate Student Senate office at 330-672-5860, fax 330-672-3403, e-mail gss@kent.edu.

The URL of the Graduate Student Senate is: http://dept.kent.edu/gss.

**BLACK GRADUATE STUDENTS ASSOCIATION**

The purpose of the Black Graduate Students Association (BGSA) is to provide a forum for the expression of those concerns that are unique to black graduate students. All black graduate students are members. The organization meets once a month for general meetings. Ongoing programs include the First Thursday Forum, which is a noontime gathering held on the first Thursday of every month to stimulate networking, provide social support and aid black graduate students with their transition to graduate school. In addition, BGSA Week is held in the fall and spring semesters. Social activities, such as potlucks, cookouts and dinner dances, are outlets also offered by the Black Graduate Students Association. BGSA may be reached at 330-672-3401, via e-mail at bgsa@kent.edu, or see the Web site at http://www.kent.edu/bgsa for more information.

**Flash ALERTS** is Kent State’s official emergency text notification system to alert students, faculty and staff of critical information no matter what time it is or where they are in the world. For more information about how to sign-up visit https://www.getrave.com/login/kent.
GRADUATE STUDENT SERVICES

Career Services Center

The Career Services Center at Kent State University is committed to providing students and alumni comprehensive services in career education, career employment, student employment and academic testing.

All graduate students are welcome to use the center’s Career Resource Library, attend drop-in counseling sessions, schedule an individual counseling appointment with a career counselor or attend any of the career fairs hosted by the center during the academic year. Flash Forward, the Career Services Center’s online job board, allows students to register and upload a resume, view and apply to student jobs, internships, and professional positions, and participate in on-campus employer interviews. Visit the Career Services Center Web site at http://career.kent.edu to discover additional resources to enhance your career search.

Information Services

The Division of Information Services is dedicated to creating an environment through systems and technology that empowers Kent State University students, faculty and staff members on all campuses to pursue learning, increase institutional effectiveness and meet the competitive challenges of the future. Information Services staff members are committed to providing the university community with support to effectively use information and technology to transform and improve all university academic and administrative operations, including the quality of teaching, discovery, application integration, creative activity, work processes and decision-making. Units within the Division of Information Services include:

ADMINISTRATIVE COMPUTING SERVICES


CLIENT SERVICES/HELPDESK

Provides a single point of contact for desktop support services for the university community and supports seven computer labs at locations across the Kent campus;

ENGINEERING & OPERATIONS

The Engineering & Operations (E&O) area provides support for the university’s data and communications infrastructure. E&O includes Data Center Operations, Network Services and Telecommunications Services. Offices within the Engineering & Operations unit include:

- Data Center Operations: Provides support services for the information technologies, systems and environments for the university community;

- Network Services: Provides the engineering and support services for the university’s integrated voice, video and data network;

- Telecommunications: Provides cost-effective solutions for voice services for the university community;

NEW MEDIA CENTER

The mission of the Kent State University New Media Center is to support teaching, learning and research through the development and integration of applied and emerging technology in higher education.

With our professional staff, faculty and students, we serve the university and its global constituents through our distributed learning, multimedia, online course and content development. We partner with innovative individuals, academic and administrative organizations to integrate and support technology in multidisciplinary teaching and research.

As a select member of the national New Media Consortium, we collaborate with leading research universities, outstanding community colleges and advanced technology organizations to articulate and promote Kent State’s leadership role in defining and exploring new ways to transform teaching, learning and creative expression. The New Media Center encourages graduate students interested in applied research and multimedia technologies to participate in workshops, seminars and a limited number of paid and credit internships offered in the center each year. For more information, please visit: http://newmedia.kent.edu/.

OFFICE OF SECURITY AND COMPLIANCE

This office oversees the security aspects of Kent State’s network and electronic data. Its responsibilities to the network begin where the “outside world” comes in contact with the university.

Office of International Affairs

The Office of International Affairs (OIA) is responsible for planning, coordinating, sustaining, and monitoring the University’s global initiatives, exchange programs, and support services for international students and scholars. The office assists in strengthening the international aspects of courses in various disciplines; in addition, it sponsors and provides assistance, as appropriate, for seminars, workshops and conferences dealing with topics in the international field. It also promotes university research of an international and comparative nature, seminars with foreign institutions for faculty and students, and facilitates applications and selection of candidates for international fellowships.

International Recruitment and Admissions, housed in OIA, is the first point of contact for international students seeking to study at Kent State University. This office is responsible for reviewing applications, evaluating foreign transcript credentials for equivalence, and working with the academic units through the application process.
International Student and Scholar Services (ISSS) exists within the OIA to provide a nurturing setting for academic success, intercultural development and mutual understanding. ISSS serves as a central resource for international students seeking assistance with academic advising, cultural adjustment and emergency support. It is responsible for overseeing all matters relating to student (F) and exchange visitor (J) visas, and for monitoring compliance of students and exchange visitors with current immigration regulations. Special programs sponsored by ISSS include the International Awards Program and airport pickup and orientations for new international students. ISSS also coordinates the activities of the local chapter of Phi Beta Delta, the Honor Society for International Scholars.

Kent State offers several academic study-abroad programs through the Office of International Affairs, having its own program in international relations in Geneva, Switzerland and a campus with major programming in Florence, Italy. Detailed, up-to-date information about current and developing programs, as well as other information about the Office of the International Affairs and International Student Services, may be obtained from the Office of International Affairs, Van Campen Hall, by calling 330-672-7980, by sending an e-mail to OIA@kent.edu, or by visiting www.dept.kent.edu/oi.

Recreational Services

The Department of Recreational Services provides outstanding recreational and wellness opportunities for our students, faculty/staff, community members and guests. The Department of Recreational Services is located in the new Student Recreation and Wellness Center (SRWC) at Ted Boyd Drive on the Kent Campus.

The Student Recreation and Wellness Center

The SRWC is one of the more state-of-the-art facilities of its kind in the nation and provides for the recreational, wellness, and fitness needs of the students of Kent State University. Some of the most notable features include: a 40-foot indoor rock climbing wall, basketball, volleyball, badminton or fencing, a suspended one-seventh-mile indoor jogging/walking track, a modern fitness floor with cardiovascular and free-weight equipment, an indoor natatorium, four glass-enclosed racquetball courts and a multipurpose gymnasium catering to indoor soccer or floor hockey. For more information please visit the Department of Recreational Services online at www.recservices.kent.edu or call the department at 330-672-4REC.

Outdoor Facilities

In addition to the SRWC, Kent State has a number of outdoor recreational facilities. The Allerton Sports Complex is a lighted, four-field complex that hosts softball and flag-football leagues. There are also numerous outdoor basketball courts, four sand volleyball courts and a lighted, four-court tennis complex on campus.

The Department of Recreational Services’ Fitness and Wellness staff is proud to offer a plethora of specialized programs designed for the diverse membership of the Student Recreation and Wellness Center.

Sports Clubs and Intramurals

Sport clubs offer ongoing participation in more than 30 sports on the Kent Campus. Clubs vary from year to year based on student interest. Intramurals offers the opportunity for organized competition through many leagues and tournaments throughout the year. Intramurals are offered for individuals at all skill levels.

Fitness and Wellness

The department is pleased to offer a comprehensive fitness and wellness program which includes a full line of group instruction and noncredit instructional classes, fitness assessments and prescriptions, personal trainers, massage therapy, new-user orientation and more. New programs are added regularly to meet client interest.

The Adventure Center

The Adventure Center provides a variety of outdoor adventure trips as well as outdoor equipment rental. Some of the more popular trips include camping, boating, cave spelunking, mountain climbing, white water rafting and backpacking. For those who want to explore on their own, the Adventure Center has a wide array of outdoor equipment students can rent for a nominal fee.

Teambuilding and Leadership Challenges

The Teambuilding and Leadership Challenges (TLC) program offers organizations a unique tool for building team trust, cooperation and group productivity. The TLC program is custom-designed to meet a group’s specific goals; call the SRWC for details.
Residence Services

The university has facilities for housing single graduate students along with facilities for graduate student families.

RESIDENCE HALLS

Single graduate students may choose from a number of residence halls accommodating both graduate and upper-division undergraduate students. Korb Hall, a coed residence hall, accommodates both graduate and undergraduate students. Korb offers single rooms and is open during break periods. Centennial Court C (CCC), opened in 2003, is also available for upper-division and graduate students. CCC offers private rooms with a bath shared between two rooms, and is open during break periods (winter break and spring break). Graduate/upper-division residence halls provide an environment conducive to academic pursuits.

Room assignments are made by date of application and are based on the availability of space. Room types for graduate students include singles, deluxe singles, standard doubles and suites. Each residence hall has laundry facilities and limited cooking facilities. In-room Internet access, cable television and local phone service are provided in each student room. There are computer clusters available for residence hall student use.

A prospective student interested in residence hall housing should contact the Department of Residence Services, Korb Hall, P.O. Box 5190, Kent, OH 44242-0001, or call 330-672-7000, or visit the Residence Services Web site at www.res.kent.edu.

ALLERTON STUDENT/FAMILY APARTMENTS

One- and two-bedroom apartment units are available. Junior, senior and graduate students, or students who qualify as “student families” — married couples with no more than two children, and single parents with no more than three dependent children — may apply for residence in the Allerton Student/Family Apartments. A maximum of four immediate family members may reside in two-bedroom units and a maximum of three family members may reside in one-bedroom units.

A prospective student interested in Allerton Student/Family housing should contact the Allerton Student/Family Housing Office, 1150 F Allerton St., Kent, OH 44240-0001, 330-672-2595.

Student Accessibility Services

Student Accessibility Services provides assistance to students with various disabilities in order to maximize educational opportunity and individual potential. Some services include notetaking, readers, interpreters, priority registration, test proctoring, E-text, academic and personal counseling, and special parking arrangements. In addition to coordinating various services with academic and nonacademic departments, the office serves as a liaison between community and state rehabilitation agencies. Documentation of the disability must be presented to and discussed with Student Accessibility Services staff prior to any accommodations being facilitated. For more information, please visit the Web site at www.kent.edu/sas.

Student Disability Services provides the academic, technological, and emotional support necessary for students with disabilities to have full access to all aspects of the educational experience at Kent State.
Graduate Student Services

University Health Services
DeWeese Health Center
University Health Services provides high-quality medical and psychological care, including prevention and treatment, for Kent State University students. Health Services seeks to assist students in reaching their maximum potential in academic success and personal growth. In addition to primary medical and psychological care, Health Services provides health education, wellness promotion and other support services within the university community.

STUDENT IMMUNIZATION POLICY
Kent State University policy requires that all students new to Kent State must comply with the following immunization requirements:

• All students must show proof of immunity to measles, mumps and rubella (MMR). This means two MMR injections after age one and at least one month apart or an MMR injection within the past six years.

• Students from the following global areas are required to have a Mantoux-type tuberculosis screening test: Africa, Eastern Europe and Russia, South America, Central America, Mexico, Asia (including the Middle East and the Pacific Islands except Japan) and the Caribbean. This test must be completed within 12 months prior to staring classes.

• Students born prior to 1957 or students who attended the Kent Campus prior to fall 1996 or students who have graduated after 1993 from a state of Ohio accredited high school are EXEMPT from this requirement.

The required immunization and screening may be obtained at University Health Services, local health departments or private physician’s offices. Charges for immunizations vary.

MENINGITIS AND HEPATITIS B
Students are strongly encouraged to be informed of their risk of contracting Meningitis and Hepatitis B and the potential benefits of the vaccinations. Studies suggest that freshman living in residence halls have a slightly higher risk of contracting Meningitis because they live and work in proximity to each other. For more information on Meningitis and Hepatitis B, visit http://www.uhs.kent.edu or http://www.odh.ohio.gov.

MEDICAL CLINIC
A full-service primary care clinic is available to Kent State students. Appointments are encouraged to reduce waiting times. Students can usually be seen within 24 hours. Clinicians focus on high-quality, cost-effective outpatient care for injuries, illnesses and other health care issues including musculoskeletal, infectious disease, gynecologic, endocrinology, respiratory and dermatologic problems. Physicians who are board certified or board eligible in their specialties, nurse practitioners and nurses staff the medical clinic.

RADIOLOGY AND LABORATORY
Radiology provides routine diagnostic X-Rays (e.g., skull, chest, extremities) and EKGs, as prescribed by a licensed physician. A licensed radiological technologist staffs this department.

The laboratory offers routine diagnostic testing as prescribed by a licensed physician. Specialty and pathology testing are completed through an outside reference laboratory. University Health Services is accredited by the Accreditation Association for Ambulatory Health Care, which means our center has undergone a thorough review of our policies and practices and has met nationally recognized standards for high-quality health care.

PHARMACY
The pharmacy fills prescriptions and provides over-the-counter medications to Kent State students. Education is a high priority and patients are offered instructions on the proper use and possible side effects of their medication. In addition to the convenience provided to students, many items can be purchased at considerable cost savings. As a government institution, preferential pricing contracts with pharmaceutical companies are maintained to save money for the students on their prescriptions. A registered pharmacist is on duty at all times the pharmacy is open.

PHYSICAL THERAPY
Physical therapy provides a wide variety of high-quality services to Kent State students in the area of physical rehabilitation and fitness. Patients can receive short-term or long-term rehabilitation to help them return to an optimal level of function. A major component of this department is to provide patient education while helping patients make lifestyle changes that prevent future problems. Exercise is another important part of therapy, and a full line of equipment is available for patient use. This department is staffed by a licensed physical therapist and a licensed physical therapist assistant.

WOMEN’S HEALTH CONNECTION
The Women’s Health Connection is a clinic committed to comprehensive specialized care for women. Types of exams offered through he Women’s Health Connection include cervical cancer screening, sexually transmitted infection testing, general head-to-toe physical exams, confidential HIV testing, general gynecological exams, colposcopy, and specialized gynecological testing. Nurse practitioners, nurses and a supervising physician are experienced and committed to optimizing the health of women at the Women’s Health Connection.
OTHER SERVICES AVAILABLE

- Allergy and Immunization Clinic
- Travel Clinic – Assist students in preparation for foreign travel
- 24-Hour Nurse Help Line: 330-672-2326

PSYCHOLOGICAL SERVICES
Psychological Services provides a wide variety of counseling and psychological services for students. Whether a student has concerns about personal issues, managing academic stress or relating more effectively to other students in the classroom or residence hall, Psychological Services enhances student development by providing high-quality, personalized counseling services.

Our professional licensed psychologists are experienced and committed to the special concerns of students.

INSURANCE BILLING
University Health Services is able to directly bill most medical insurance carriers for office visits and ancillary services provided at the DeWeese Health Center.

OFFICE OF HEALTH PROMOTION
The primary focus of the Office of Health Promotion is to provide programs, special events and services that support health-enhancing behavior among students and the campus community. Examples of health issues addressed include alcohol and other drugs, smoking cessation, stress management and sexual health. Educational resource materials that target a number of high priority health issues are available at no charge to students.

CONTACT INFORMATION
Medical Appointments: 330-672-2322
Psychological Services: 330-672-2487
Office of Health Promotion: 330-672-2320
24-Hour Nurse Line: 330-672-2326
Administration: 330-672-2443
Fax: 330-672-3711
Website: www.uhs.kent.edu

The Official Seal of Kent State University designates that this catalog is an official University document of record for academic information and policy.

Graduate Student Services

University Libraries and Media Services
The University Libraries of the Kent Campus are among the most important resources enriching graduate studies and research. Library resources include more than 2.6 million volumes, one million microforms and extensive collections of other media.

The primary collection is found in a 12-story building with open-stack access. Study seating for 2,000 is available at small tables and carrels adjacent to or amid the book stacks. Study facilities also include six group study rooms and 60 research carrels for faculty and doctoral candidates. The Library is open 101 hours per week while classes are in session.

The University Libraries also include six branch libraries: Architecture, Chemistry/Physics, Fashion, Map, Mathematics and Computer Science and Music. Each of the seven Regional Campuses also has its own library with a professional library director and a collection backed up by access to systemwide resources.

The Kent and Regional Campus libraries are united by KentLINK, a shared online catalog, which allows users at any campus to view holdings and initiate online requests for books throughout the campus system. Nearly 300,000 items per year are circulated on the KentLINK system. The University Libraries constitute the largest state-assisted university library system in northeastern Ohio. They also rank 76th in size of collections among all major academic libraries in the United States.

The University Libraries are members of the Association of Research Libraries, the Center for Research Libraries and OhioLINK. OhioLINK members include 84 Ohio academic libraries, the State Library of Ohio, and several public libraries. The collections and resources of these libraries are available to students and faculty from across the state. Kent State users obtain 60,000 items per year through the direct, user-initiated OhioLINK borrowing. OhioLINK also offers research databases in most subject areas, as well as electronic full text. Additional information resources are available via the Internet and World Wide Web. Remote access to KentLINK, OhioLINK and other resources is available.

Kent State maintains strong programs for the development of its library collections, adding approximately 50,000 volumes annually, in addition to extensive acquisitions of microforms and other media. Of particular importance for graduate work are the more than 12,000 periodical and serial titles.
The University Libraries provide networked access to • many bibliographic, statistical and full-text databases. Most of these databases, plus many other resources and services, are available through the University Libraries’ Web page.

Reciprocal arrangements with many other Ohio college and university libraries allow Kent State students and faculty to use and borrow materials directly from those libraries.

Researchers whose needs go beyond the holdings of the University Libraries can directly access more than 31 million items in the OhioLINK central database. Scholars can also utilize Interlibrary Loan. Interlibrary Loan (ILL) uses OCLC, an international bibliographic utility whose database contains the holdings of more than 57,000 libraries in 112 countries and territories, along with other bibliographic sources, to locate and obtain materials from other libraries throughout the world. Each year ILL obtains approximately 10,000 items for Kent State researchers from other sources.

Through the university’s membership in the Center for Research Libraries in Chicago, Interlibrary Loan obtains materials from a collection of over 3.5 million books and journals not available in most other libraries.

Media Services

Media Services provides support to faculty, staff and students in their learning, teaching, research and business activities through the production of media and the provision of numerous media formats and presentation/instructional technologies. Audio Visual Services provides classroom and instructional systems design, classroom services, a copy center, copyright clearance services, engraving services, public address and equipment repair services, instructional graphics, photocopy service, special event support and a student multimedia studio.

Teleproductions provides video operations/engineering and video production. For more information call Audio Visual Services, 330-672-3456 or Teleproductions, 330-672-2810, or visit the Web at http://www.library.kent.edu.
GRADUATE CERTIFICATE PROGRAMS

Graduate certificate programs that address contemporary, topical and/or workplace issues are offered in several academic units. The graduate certificate programs are designed to deliver focused instruction and formalized guidance in a flexible manner. Graduate certificate programs are open to degree-seeking as well as graduate non-degree students. Students must meet the admission requirements for the specific graduate certificate being sought and must declare their intent to earn the certificate.

College of Architecture and Environmental Design

GRADUATE CERTIFICATE IN URBAN DESIGN
The college offers a graduate Certificate in Urban Design (C.U.D.) as an opportunity for architecture students and graduates, as well as professionals interested in continuing education, to acquire specialized knowledge and skills in the area of urban design.

Consistent with the mission of the Cleveland Urban Design Collaborative, whose facility in downtown Cleveland hosts the program, the thrust of the program lies primarily in the “participatory approach” to design and planning. Lecture courses and seminars focus on urban social and cultural issues, while the design workshops and studios develop strategies and solutions for specific urban areas and neighborhoods. Interaction with local communities is also part of the program.

Due to its flexibility, short duration and broad range of elective courses, the program is particularly suitable for part-time students with work experience and clearly defined professional interests.

GRADUATE CERTIFICATE IN PRESERVATION ARCHITECTURE
The program leading to the graduate Certificate in Preservation Architecture (C.P.A. 16) is an opportunity for architecture students and graduates, as well as professionals interested in continuing education, to acquire specialized knowledge and skills in the area of Preservation Architecture.

The curriculum focuses on specific foundation knowledge in preservation, with particular regard to methodology, assessment criteria, preservation techniques and legislation.

The program is normally offered entirely in Florence, Italy, through the college’s International Studies Program during one semester (fall or spring) or an intensive summer term. Being based in Florence and required to take various field trips, the students have an opportunity of being exposed to important examples of building and urban preservation in Italy and in other European countries.

College of Communication and Information

CERTIFICATE IN KNOWLEDGE MANAGEMENT
The certificate in Knowledge Management provides essential knowledge and skills about knowledge management to interested information professionals, delivered primarily in online mode. It is designed for information professionals who, whether by time or distance or job commitments, cannot come to the Kent campus for on-site instruction. Admission requirements are the same as for the full degree.

CERTIFICATE IN INFORMATION ARCHITECTURE
The Certificate in Information Architecture provides competencies and knowledge in the area of Information Architecture. Admission requirements are the same as for the full degree.

College of Education, Health and Human Services / Educational Foundations and Special Services

BEHAVIORAL INTERVENTION SPECIALIST CERTIFICATE
The Behavioral Intervention Specialist certificate program is offered to currently licensed special education teachers and school psychologists or to graduate students currently enrolled in those disciplines that will lead to licensure. Through a series of graduate coursework in Special Education and School Psychology, as well as supervised field-based experiences, students will gain specialized knowledge and skills to collaborate with professional teams and parents in order to develop, implement and evaluate positive-behavior support programs for children and youths with behavioral concerns.

CERTIFICATE IN PERVERSIVE DEVELOPMENTAL SPECTRUM DISORDERS
The Pervasive Developmental Disorders Specialist (Autism) certificate is a combined program offering graduate-level coursework from Special Education and Speech Pathology and is available to currently licensed teachers or speech-language pathologists, or to individuals enrolled in graduate programs that will lead to licensure in either program. Students completing this certificate will gain specialized knowledge and skills necessary to collaborate with parents and other professionals to provide services for children, youth and adults with Pervasive Developmental Disorders (Autism Spectrum Disorders).

CERTIFICATE IN INTEGRATING TECHNOLOGY INTO THE CLASSROOM
Teachers increasingly need to integrate technology into their teaching and classrooms. This certificate program provides essential knowledge and skills for teachers to make effective use of a variety of current technologies in learning and teaching.

2008-2009 Kent State University Graduate Catalog
Graduate Certificate Programs

ONLINE LEARNING AND TEACHING
Online learning and teaching are playing a widening role in education at all levels. This certificate program provides students with the opportunity to learn the essential knowledge and skills they need to teach effectively online, whether they are teaching an entire course or integrating online teaching into a more traditional setting. Students will prepare for future developments in online learning and teaching by becoming aware of the research literature and trends.

BEHAVIOR INTERVENTION SPECIALIST
The Behavior Intervention Specialist certificate combines Special Education and School Psychology coursework. This certificate is available to currently certified or licensed teachers or school psychologists or those currently enrolled in graduate programs that will lead to licensure in those areas.

PERVASIVE DEVELOPMENTAL DISORDERS SPECIALIST
The Pervasive Developmental Disorders Specialist (Autism) certificate is a combined program offering graduate-level coursework from Special Education and Speech Pathology and is available to currently licensed teachers or speech-language pathologists, or to individuals enrolled in graduate programs that will lead to licensure in either program. Students completing this certificate will gain specialized knowledge and skills necessary to collaborate with parents and other professionals to provide services for children, youth and adults with Pervasive Developmental Disorders (Autism Spectrum Disorders).

INTERNATIONALIZATION OF HIGHER EDUCATION CERTIFICATE
One of the rapid and profound changes in the contemporary colleges and universities is internationalization in the globalized knowledge economy. This transformational institutional change requires higher education (HE) administrative leaders to have a comprehensive understanding of the phenomenon along with well articulated skills, knowledge and dispositions to improve the HE institutional capacity of internationalization. For that reason, KSU Higher Education Administration and Student Personnel program offers a professional certificate program “Internationalization of Higher Education Certificate.” The certificate program requires a total number of 15 credit hours. Students who are enrolled in the KSU Higher Education Administration and Student Personnel program (Master’s, Educational Specialist, or Ph.D. degree programs) can earn the certificate as they are simultaneously working on their degree.
CERTIFICATE OF ADVANCED STUDY
The School of Library and Information Science offers a “sixth year” program as an opportunity for librarians and information specialists already in the field to update and upgrade professional skills. The program offers a multidisciplinary approach tailored to those who hold master’s degrees in library and information science and are interested in expanding their professional skills in various areas of library and information science. A minimum of 18 graduate hours is required for the Certificate of Advanced Study in Library and Information Science, to be completed within four years.

Prospective students must hold a master’s degree in library and information science from an institution accredited by the American Library Association (or equivalent degree from schools in other countries, in the case of international students). Ideally, advanced certificate students have had at least two years of professional experience since earning their master’s degree.

CERTIFICATE OF ADVANCED STUDY IN K-12 SCHOOL LIBRARY MEDIA
The School of Library and Information Science offers an advanced certificate program as an opportunity for school library media specialists already in the field to update and upgrade their professional skills. This program is tailored to those school library media specialists who hold an M.L.S./M.L.I.S. degree (or another approved graduate degree in education), school library media licensure and standard teaching credentials. The certificate is aimed at those who are interested in expanding their administrative and technology skills. Each program is individually designed and leads to a certificate in the advanced study of school librarianship. Students will be awarded the Certificate of Advanced Study in K-12 School Library Media upon successful completion of 18 semester hours of coursework.

CERTIFICATE OF ADVANCED STUDY IN LIBRARY MANAGEMENT
The Certificate will allow those who hold the master’s in Library and Information Science and who have current professional experience in libraries and other information agencies to expand and upgrade their professional skills in technology, administration, and information services. A minimum of 18 graduate hours of coursework is required for the Certificate of Advanced Study in Library Management.

THE CERTIFICATE OF ADVANCED STUDY IN DIGITAL LIBRARIES
The Certificate of Advanced Study in Digital Libraries is designed to meet the growing demand for digital librarians and digital libraries. The program is intended for those who already hold an M.L.S. or M.L.I.S. degree.

CERTIFICATE OF ADVANCED STUDY IN DIGITAL PRESERVATION
The Certificate of Advanced Study in Digital Preservation was designed to meet the growing demand for digital preservation specialists in digital libraries and archives. The program is intended for those who already hold an M.L.S. or M.L.I.S. degree. The certificate requires successful completion of 18 semester hours of coursework. Curriculum focuses on the following areas: foundations of preservation theory and practice in library, archival, and other information environments; creation and maintenance of digital surrogates of analog material; knowledge organization and management for digital repositories, technical infrastructure for digital preservation; curatorial functions, including development of policy and procedure to manage digital objects; and social, economic, policy, and professional issues.
AFRICAN STUDIES PROGRAM
An African Studies Program exists at Kent State University at both the graduate and undergraduate levels. The program, which is designed to give a broad familiarity with African history, culture and contemporary problems, includes the opportunity to select from a wide range of graduate courses directly or indirectly related to Africa. Students entering the program pursue graduate degrees at the master’s or doctoral level in an established discipline such as art, history, geography, economics, music, political science, sociology, business administration, technology and education. Recognition of the African emphasis will be made by awarding a certificate in African Studies. A total of 18 semester hours are required for the certificate. The certificate will be evidence that the student has focused study and research on Africa. In addition, through contacts which the university has with various universities in East and West Africa, graduate students may have the opportunity to conduct thesis- or dissertation-related research on location in Africa.

POST-MASTER’S CERTIFICATES
Post-master’s certificates are offered to nurses with a master’s degree in nursing. These certificates are useful in career advancement or changes or personal fulfillment. The post-master nursing specialty certificates are:

- Acute Care Nurse Practitioner
- Family Nurse Practitioner
- Primary Care Adult Nurse Practitioner
- Psychiatric Mental Health Nurse Practitioner
- Psychiatric Mental Health Clinical Nurse Specialist
- Psychiatric Mental Health Nursing of Children and Adolescents with Non-PMH Master’s Degree, Clinical Nurse Specialist
- Psychiatric Mental Health Nursing of Children and Adolescents with PMH Master’s degree, Clinical Nurse Specialist
- Pediatric Nurse Practitioner
- Women’s Health Nurse Practitioner
- Nursing Education Certificate
- Adult Health Clinical Nurse Specialist
- Geriatric Nurse Practitioner
- Pediatric Clinical Nurse Specialist
- Nursing and Health Care Management

Each certificate program requires a separate application approval process.

All certificates are offered as faculty and space are available and typically require 12 to 15 semester hours of graduate coursework beyond prerequisites. Contact the College of Nursing for specific information about post-master’s certificates.
The College of Architecture and Environmental Design (CAED) offers graduate studies in Architecture, Urbanism and Preservation. The various courses of study lead to a National Architectural Accrediting Board (NAAB) professionally accredited:

- Master of Architecture degree (M.Arch. 44)
- Master of Architecture and Master of Business Administration professional dual degree (M.Arch. and M.B.A. 74)
- Post-professional Master of Architecture degree with a Concentration in Post-Professional Studies (M.Arch. P.P.S)
- Master of Urban Design (M.U.D)
- Master of Architecture professional & Master of Urban Design dual degree (M.Arch & M.U.D)
- Graduate Certificate in Urban Design (C.U.D.)
- Graduate Certificate in Preservation Architecture (C.P.A.)

Visit the college's Web site at [http://www.caed.kent.edu](http://www.caed.kent.edu) for more information.

### Master of Architecture (M.Arch. 44)

The Master of Architecture degree is accredited by the National Architectural Accrediting Board (NAAB). In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a six-year, three-year or two-year term of accreditation, depending on the extent of its conformance with established educational standards.

Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree, that, when earned sequentially, constitute an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

The program at Kent State University seeks to prepare graduates to enter the profession of architecture by stimulating the growth of technical knowledge and design creativity, and the refinement of design skills acquired in undergraduate programs, as well as by offering a broad exposure to professional issues and knowledge.

The program has an emphasis in building design and professional practice and offers students the opportunity of selecting elective courses in concentration areas of choice, such as building technology, building preservation, architectural history and theory, urban studies and design.

### ADMISSION REQUIREMENTS

Students must fulfill these requirements for acceptance into the Master of Architecture degree:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preprofessional degree in architecture (Bachelor of Science or Bachelor of Architecture)</td>
<td>Applicant must have undergraduate coursework equivalent to the Kent State University Bachelor of Science degree. Refer to the Kent State University Undergraduate catalog for more information. Conditional admission may be granted with specific additional coursework, such as the Comprehensive Building Design and Technology Studio (ARCH 40102) currently offered in the fourth year of the B.Sci. in Architecture curriculum.</td>
</tr>
<tr>
<td>Cumulative GPA</td>
<td>At least 2.75 on a 4.0 scale.</td>
</tr>
<tr>
<td>GRE</td>
<td></td>
</tr>
<tr>
<td>Goal Statement</td>
<td>Include intent and background information.</td>
</tr>
<tr>
<td>Official Transcript(s)</td>
<td>Official transcripts from each college or university previously attended must be submitted.</td>
</tr>
<tr>
<td>3 Letters of recommendation</td>
<td>One of these letters should be from a non-academic source.</td>
</tr>
<tr>
<td>Curriculum Vitae</td>
<td></td>
</tr>
<tr>
<td>Portfolio</td>
<td>Design work should clearly indicate the applicant’s role in group projects.</td>
</tr>
</tbody>
</table>

Refer to the Admission section in this catalog for further information about general requirements for admission.

Review of applications (including transcripts of previous coursework for non-Kent State University students) will start after January 31. Admissions with financial offers will be notified by mail no later than March 15. Agreement to enroll with a financial offer must be received in writing within four weeks.
PROGRAM REQUIREMENTS

Students in the M.Arch. program must earn at least a total of 44 credit hours, 35 from core courses and 9 from elective courses. The core courses are as follows:

<table>
<thead>
<tr>
<th>Core Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 66995*</td>
<td>1</td>
</tr>
<tr>
<td>ARCH 60101</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 60102</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 60103</td>
<td>9</td>
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<tr>
<td>ARCH 60150</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 60301</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 60922</td>
<td>2</td>
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<tr>
<td>ARCH 65001</td>
<td>2</td>
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<tr>
<td>ARCH 65002</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 65003</td>
<td>3</td>
</tr>
</tbody>
</table>

(*ST course in Professional Practice)

Actual offerings and schedules may vary from year to year, and students are encouraged to register in the College of Architecture and Environmental Design preapproved Recommended Course of Study. Alternative courses of study are permitted, with approval from the college's Graduate Studies Committee, before registration. Contact the college's graduate secretary for details on registration for coursework.

ADMISSION REQUIREMENTS

Students must fulfill these requirements for acceptance into the Master of Architecture/Master of Business Administration degree:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Preprofessional degree in architecture (Bachelor of Science or Bachelor of Architecture)</td>
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<td>Official Transcript(s)</td>
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<td>3 Letters of recommendation</td>
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<td>Curriculum Vitae</td>
<td></td>
</tr>
<tr>
<td>Portfolio</td>
<td>Design work should clearly indicate the applicant's role in group projects.</td>
</tr>
</tbody>
</table>

Students need to apply to both the College of Architecture and Environmental Design and the Graduate School of Management, following the respective application guidelines. Each unit will make an independent decision and the student will be notified in one letter of the decisions made in both programs. Refer to the Admission section in this catalog for further information about general requirements for admission.

PROGRAM REQUIREMENTS

Students in the M.Arch./M.B.A. Dual Degree program must earn at least a total of 74 credit hours, 35 from the M.Arch. program and 39 from the M.B.A. program. The required M.Arch courses are as follows:
Architecture and Environmental Design

2009-2010 Kent State University Graduate Catalog

Architecture and Environmental Design

The official seal of Kent State University designates that this catalog is an official University document of record for academic information and policy.

<table>
<thead>
<tr>
<th>Core Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 66995*</td>
<td>1</td>
</tr>
<tr>
<td>ARCH 60101</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 60102</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 60103</td>
<td>9</td>
</tr>
<tr>
<td>ARCH 60150</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 60301</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 60922</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 65001</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 65002</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 65003</td>
<td>3</td>
</tr>
</tbody>
</table>

(*ST course in Professional Practice)

The required MBA courses are as follows:

<table>
<thead>
<tr>
<th>Core Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>B AD 63037</td>
<td>3</td>
</tr>
<tr>
<td>B AD 63038</td>
<td>3</td>
</tr>
<tr>
<td>B AD 64005</td>
<td>3</td>
</tr>
<tr>
<td>B AD 64041</td>
<td>3</td>
</tr>
<tr>
<td>B AD 64042</td>
<td>3</td>
</tr>
<tr>
<td>B AD 64158</td>
<td>3</td>
</tr>
<tr>
<td>B AD 64185</td>
<td>3</td>
</tr>
<tr>
<td>B AD 64271</td>
<td>3</td>
</tr>
<tr>
<td>B AD 65051</td>
<td>3</td>
</tr>
<tr>
<td>B AD 65184</td>
<td>3</td>
</tr>
<tr>
<td>B AD 66061</td>
<td>3</td>
</tr>
<tr>
<td>ECON 62021</td>
<td>3</td>
</tr>
<tr>
<td>ECON 62022</td>
<td>3</td>
</tr>
</tbody>
</table>

Actual offerings and schedules vary from year to year. The College of Architecture and Environmental Design and the Graduate School of Management jointly provides a preapproved Recommended Course of Study. Students who wish to take a different course of study need to obtain separate approvals from both units' graduate coordinators.

Contact the college graduate secretary for details on coursework registration.

Master of Architecture with a Concentration in Post-Professional Studies (M.Arch.PPS 32)

The College of Architecture and Environmental Design also offers a post-professional M.Arch. degree program with a Concentration in Post-Professional Studies (M.Arch.PPS 32). This degree program is for those holding a degree in architecture who wish to continue their own education by focusing on one of the various areas of options offered (Design Theory, Preservation, Urban Design, Building Technology, Green Building, Building Management, etc.).

This research-based program allows each student to shape a course of study according to his/her own educational, cultural and professional interests. The program can be taken in a flexible way and particularly suits the needs of those professionals who cannot enroll on a full-time basis.

ADMISSION REQUIREMENTS

Students must fulfill these requirements for acceptance into the Master of Architecture with a concentration in Post-Professional Studies degree:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumulative GPA</td>
<td>At least 2.75 on a 4.0 scale.</td>
</tr>
<tr>
<td>GRE Score</td>
<td></td>
</tr>
<tr>
<td>Goal Statement</td>
<td>Include intent and background information.</td>
</tr>
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<td>Official Transcript(s)</td>
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</tr>
<tr>
<td>3 Letters of Recommendation</td>
<td>One of these letters should be from a non-academic source.</td>
</tr>
<tr>
<td>Curriculum Vitae</td>
<td>Design work should clearly indicate the applicant’s role in group projects.</td>
</tr>
<tr>
<td>Portfolio</td>
<td></td>
</tr>
</tbody>
</table>

Please refer to the Admission section in this catalog for further admission information.

Actual offerings and schedules vary from year to year. Contact the college's graduate secretary for details on coursework registration.

As a post-professional degree focused on a certain option, the M.Arch. with a concentration in post-professional studies may be earned also after the completion of the National Architectural Accrediting Board professionally accredited M.Arch.

PROGRAM REQUIREMENTS

The graduation requirements consist of the successful completion of a minimum of 32 credit hours with two alternative culminating experiences:

- A thesis in the selected area of option, consisting of the typical sequence:
  - ARCH 66199 (6 credits) and
  - ARCH 66299 (2 credits, not to be counted toward completion of program requirements)
ADMISSION REQUIREMENTS

Students must fulfill these requirements for acceptance into the Master of Urban Design program:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumulative GPA</td>
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<td>GRE Score</td>
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<td>Curriculum Vitae</td>
<td></td>
</tr>
<tr>
<td>Portfolio</td>
<td>Design work should clearly indicate the applicant’s role in group projects.</td>
</tr>
</tbody>
</table>

Students enrolled in the M.Arch. 32 degree program are required to define a course of study by the end of their first semester, subject to the approval of their advisor and of the Graduate Studies Committee.

PROGRAM REQUIREMENTS

Students in the M.U.D program must earn at least a total of 32 credit hours, 30 from required courses and 2 from electives. As per KSU regulations, a minimum GPA of 3.0 must be maintained.

The core courses are as follows:

<table>
<thead>
<tr>
<th>Core Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. ARCH Courses</td>
<td></td>
</tr>
<tr>
<td>ARCH 65001</td>
<td>2</td>
</tr>
</tbody>
</table>

MUD Courses
### Core Course | Hours
--- | ---
M. ARCH Courses |  
UD 55705 | 3  
UD 65101 | 1  
UD 65102 | 3  
UD 65632 | 1  
After all of the above courses are taken |  
UD 60703 | 6  
After all of the above courses are taken |  
UD 66995 | 1  
After all of the above courses are taken |  
UD 60704 | 9  
UD 60705 | 3  
Elective Course*** | 2  

*** These credits may be taken from the CAED offerings, or from other KSU departments or from the offerings at the Levin College of Urban Affairs at Cleveland State University.

### Requirement | Details
--- | ---
Preprofessional degree in architecture (Bachelor of Science or Bachelor of Architecture) | Applicant must have undergraduate coursework equivalent to the Kent State University Bachelor of Science degree. Refer to the Kent State University Undergraduate catalog for more information. Conditional admission may be granted with specific additional coursework, such as the Comprehensive Building Design and Technology Studio (ARCH 40102) currently offered in the fourth year of the B.S. in Architecture curriculum.

Cumulative GPA | At least 2.75 on a 4.0 scale.
GRE |  
Goal Statement | Include intent and background information.
Official Transcript(s) | Official transcripts from each college or university previously attended must be submitted.
3 Letters of recommendation | One of these letters should be from a non-academic source.
Curriculum Vitae |  
Portfolio | Design work should clearly indicate the applicant's role in group projects.

Refer to the Admission section in this catalog for further information about general requirements for admission.

### PROGRAM REQUIREMENTS

Students in the M.Arch & M.U.D Dual Degree program must earn at least a total of 67 credit hours, 35 from the MArch program and 32 from the M.U.D program.

The core courses are as follows:

### Core Course | Hours
--- | ---
M. ARCH Courses |  
ARCH 66995* | 1  
ARCH 60101 | 6  
ARCH 60102 | 4  
ARCH 60103 | 9  
ARCH 60150 | 3  
ARCH 60301 | 3  
ARCH 60922 | 2  
ARCH 65001 | 2  
ARCH 65002 | 2
Architecture and Environmental Design

ADMISSION REQUIREMENTS
Students must fulfill these requirements to obtain a graduate certificate in Urban Design:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Cumulative GPA</td>
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<tr>
<td>3 Letters of Recommendation</td>
<td>One of these letters should be from a non-academic source.</td>
</tr>
</tbody>
</table>

PROGRAM REQUIREMENTS
Students in the Certificate in Urban Design program must earn at least a total of 16 credit hours, 11 from core courses and 5 from not less than two elective courses.

Core Course | Hours
--- | ---
M. ARCH Courses | |
ARCH 65003 | 3
MUD Courses | |
UD 55705** | 3
PDD 623*** | 3
UD 65101 | 1
UD 65102** | 3
UD 65632 | 1
After all of the above courses are taken | |
UD 60703 | 6
After all of the above courses are taken | |
UD 66995 | 1
After all of the above courses are taken | |
UD 60704 | 9
UD 60705 | 3
Elective Course**** | 2

**ST course in Professional Practice
*** If the first semester is taken in Florence, these courses are substituted with ARCH 55706 and ARCH 65703.
**** These credits may be taken from the CAED offerings, or from other KSU departments or from the offerings at the Levin College of Urban Affairs at Cleveland State University.

After all of the above courses are taken | |
UD 60703 | 6
After all of the above courses are taken | |
UD 66995 | 1
After all of the above courses are taken | |
UD 60704 | 9
UD 60705 | 3
Elective Course**** | 2

*These credits may be taken from the CAED offerings, or from other KSU departments or from the offerings at the Levin College of Urban Affairs at Cleveland State University.

Actual offerings and schedule will vary from year to year. Contact CAED Graduate Secretary for details on coursework registration.

Graduate Certificate in Urban Design
The college offers a graduate Certificate in Urban Design (C.U.D.) as an opportunity for architecture students and graduates, as well as professionals interested in continuing education, to acquire specialized knowledge and skills in the area of urban design.

Consistent with the mission of the Cleveland Urban Design Collaborative, whose facility in downtown Cleveland hosts the program, the thrust of the program lies primarily in the “participatory approach” to design and planning. Lecture courses and seminars focus on urban social and cultural issues, while the design workshops and studios develop strategies and solutions for specific urban areas and neighborhoods. Interaction with local communities is also part of the program.

Due to its flexibility, short duration and broad range of elective courses, the program is particularly suitable for part-time students with work experience and clearly defined professional interests.

To register for either studio, students enrolled in this program need to have successfully completed the required coursework for UD 55705 and UD 55710 or UD 55711. Actual offerings and schedules may vary from year to year, and students are encouraged to register in the college’s pre-approved Recommended Course of Study. Alternative courses of study are permitted, with approval from the college’s Graduate Studies Committee, before registration. Students should contact the college’s graduate secretary for details on registration for coursework.
Graduate Certificate in Preservation Architecture

The program leading to the graduate Certificate in Preservation Architecture (C.P.A. 16) is an opportunity for architecture students and graduates, as well as professionals interested in continuing education, to acquire specialized knowledge and skills in the area of Preservation Architecture. The curriculum focuses on specific foundation knowledge in Preservation, with particular regard to methodology, assessment criteria, preservation techniques and legislation. The program is normally offered entirely in Florence, Italy, through the college’s International Studies Program, during one semester (fall or spring) or an intensive summer term. Being based in Florence and required to take various field trips, the students have an opportunity of being exposed to important examples of building and urban preservation in Italy and in other European countries.

ADMISSION REQUIREMENTS

Students must fulfill these requirements to obtain a graduate certificate in Preservation Architecture:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Cumulative GPA</td>
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Refer to the Admission section in this catalog for further information about general requirements for admission.

PROGRAM REQUIREMENTS

Students in the Certificate in Preservation Architecture program must earn at least a total of 16 credit hours. The required courses (6 credit hours) are the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 60201</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 60205</td>
<td>2</td>
</tr>
</tbody>
</table>

The other 10 credit hours must be earned from courses in Preservation in not less than three other courses. Actual offerings and schedule may vary from year to year. The elective courses may be selected from, but are not limited to the courses listed below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 60202</td>
<td>3-4</td>
</tr>
<tr>
<td>ARCH 60203</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Students are required to agree on a specific course of study with the Graduate Studies Committee prior to the beginning of the program.

Students should contact the college’s graduate secretary for details on registration for coursework:

The Graduate Secretary  
College of Architecture and Environmental Design  
Kent State University  
P.O. Box 5190  
Kent, OH 44242  
Phone: 330-672-0937; 330-672-3765  
Fax: 330-672-3809  
www.caed.kent.edu

Courses

The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.

Architecture (ARCH)

ARCH 50001  
SUSTAINABLE DESIGN (1)  
Writing intensive and research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.

ARCH 50002  
SYSTEMS DESIGN (1)  
Lecture and research component addressing comprehensive integration of mechanical, electrical, communication, structural- and life-safety systems and sustainable design concerns.

ARCH 50093  
VARIABLE TITLE WORKSHOP IN ARCHITECTURE (1-6)

ARCH 50101  
4TH YEAR DESIGN STUDIO I (5)  
Studio investigation of complex formal and spatial constructs addressing comprehensive concerns of architecture. Special emphasis on understanding conservation of the natural environment. CAD is required. Prerequisite: ARCH 30102 or ARCH 30112. Corequisite: ARCH 50001.
ARCH 50102
4TH YEAR DESIGN STUDIO II (5)
Studio investigation of the comprehensive concerns and understanding of building systems integration. CAD is required. Corequisite: ARCH 50002.

ARCH 50302
STRUCTURAL SYSTEMS II (3)
A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress, and design for masonry and concrete structural members and systems.

ARCH 50402
METHODS AND MATERIALS II (3)
Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale including allied systems and building materials, including glazing and interiors.

ARCH 50502
ENVIRONMENTAL TECHNOLOGY II (3)
Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.

ARCH 50501
PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT (3)
Introduction to the economic, social, ethical and legal impact of development in both the public and private sectors. Computer applications and case-study analysis is required.

ARCH 50502
PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW (3)
The course surveys laws relating to the practice of architecture and dispute resolution with emphasis on contract laws contrasted with laws of negligence and the standard care in the profession. Planning law surveys land use control mechanisms as seen through zoning, variances and practical applications.

ARCH 50503
PROFESSIONAL PRACTICE: LEADERSHIP AND ETHICS (3)
This course discusses leadership on several professional scales including architectural and urban, with emphasis on problem identification and problem-solving within an ethical framework.

ARCH 55004
PROFESSIONAL PRACTICE: OFFICE AND FINANCIAL MANAGEMENT (3)
This course examines various architectural office structures and management approaches, laws pertaining to professional registration and practice, the use of consulting engineers and financial management of the architect’s office in the context of the profession as a business.

ARCH 55093
WORKSHOP: PROFESSIONAL PRACTICE (1-3)
Variable topic workshop related to architectural professional practice. Repeatable for a total of 3 credit hours. S/U grading.

ARCH 55101
FIFTH-YEAR DESIGN STUDIO I (6)
This studio intends to investigate a new scale of environmental issues that integrate both architectural and urban planning. Included are site visits, data collection, design of a master plan and an architectural form response to a segment of the total conceptual plan.

ARCH 55102
FIFTH-YEAR DESIGN STUDIO II (3-6)
Advanced design studio emphasizing comprehensive and independent investigation — exploring and manifesting ideas through architecture using competition and hypothetical or real projects as vehicles of expression.

ARCH 55210
RENAISSANCE ARCHITECTURE (3)
History and theory of Renaissance architecture from 1400 until 1600.

ARCH 55211
BAROQUE ARCHITECTURE (3)
History and theory of architecture in Europe from 1600 through 1750.

ARCH 55220
AMERICAN ARCHITECTURE: COLONIAL TO 1900 (3)
History of American architecture from Spanish, French, Dutch and English colonization through the 19th century.

ARCH 55230
FRANK LLOYD WRIGHT (3)
Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history. Prerequisite: ART 22007 or ARCH 55202.

ARCH 55291
SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY (1-3)
Content varies. Repeatable for a total of 3 credit hours. Prerequisite: Permission.
ARCH 55391
SEMINAR: STRUCTURES III (1-3)
A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long-span and high-rise structures. Computer analysis is required. Repeatable for a total of 3 credit hours.

ARCH 55491
SEMINAR: METHODS AND MATERIALS III (1-3)
Advanced topics in methods and complex materials systems. Computer modeling and field experience is required. Repeatable for a total of 3 credit hours.

ARCH 55591
SEMINAR: ENVIRONMENTAL TECHNOLOGY III (1-3)
Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques, etc. Repeatable for a total of 3 credit hours.

ARCH 55601
ADVANCED COMPUTER APPLICATIONS (1-3)
This course discusses advanced visualization techniques such as raytracing, radiosity and animation, and presents a variety of presentation issues and options. Repeatable for a total of 3 credit hours.

ARCH 55610
RECONSTRUCTING ARCHITECTURE (3)
The representation of race, gender and nationalistic ideologies within architectural practice and form.

ARCH 55611
DESIGN THEORY AND CRITICISM: 20TH CENTURY (1-3)
Design theory and criticism of architecture in the 20th century. Repeatable for a total of 3 credit hours.

ARCH 55620
INTRODUCTION TO PRESERVATION (1-3)
An overview of preservation including building analysis conservation, adaptive reuse, economic benefits of preservation planning as a revitalizing strategy. Prerequisite: Admission to the preservation program or permission of the instructor.

ARCH 55621
CURRENT ISSUES IN HISTORIC PRESERVATION (1-3)
Course in which practicing professionals, including architects, planners, developers and government officials, present preservation-related work. Repeatable for a total of 3 credit hours. Prerequisite: Permission.

ARCH 55630
INTRODUCTION TO LANDSCAPE ARCHITECTURE (1-3)
Introduction to landscape design with emphasis upon the relationship between landscape and buildings. Repeatable for a maximum 3 credit hours.

ARCH 55631
SITE ANALYSIS AND DESIGN (1-3)
Analysis of environmental factors as a basis for site selection and site planning. Repeatable for a total of 3 credit hours.

ARCH 55640
DEVELOPING ENVIRONMENTS FOR OLDER ADULTS (1-3)
Research of existing built environments and an investigation of the planning design process for the elderly. Repeatable for a total of 3 credit hours.

ARCH 55701
URBAN DESIGN STUDIO I (3-6)
Introduction to urban design and its relationship to other design disciplines through analysis of neighborhoods and definition of comprehensive area improvement programs. Repeatable for a total of 6 credit hours. Prerequisite: Permission.

ARCH 55702
URBAN DESIGN STUDIO II (3-6)
Urban design exploration of the formal relationships between buildings, open spaces and streets in the development of high density, mixed-use projects. Repeatable for a total of 6 credit hours. Prerequisite: Permission.

ARCH 55706
SOCIO-POLITICAL REPRESENTATION IN URBAN DESIGN (1-3)
This course explores representation of socio-political ideas/ideology through architectural and urban design. Repeatable for a total of 3 credit hours. Prerequisite: Permission.

ARCH 55707
REPRESENTATION IN DESIGN (1-3)
Course on the nature of communication in design and the representational tools the designer uses to give form to abstract ideas and converse with clients and colleagues. Repeatable for a total of 3 credit hours.

ARCH 55793
WORKSHOP IN URBAN DESIGN AND PLANNING (1-3)
This course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods with particular emphasis on the role of urban design, architecture and landscape design. Repeatable for a total of 3 credit hours. S/U grading.

ARCH 55813
PROFESSIONAL PRACTICE (3)
Study of the practice of architecture, including professional office organizations, marketing of services, law, contracts, project management and construction contract administration. Prerequisite: Permission.
ARCH 60201
HISTORY AND THEORY OF PRESERVATION (3-4)
A study of the history and theory of preservation as practiced in the United States compared with international standards and practices.

ARCH 60202
BUILDING DIAGNOSTIC APPLICATIONS (3-4)
Nondestructive evaluation of damage and its causes. The diagnostic tools will permit to verify the hypothesis of the damage, supporting qualitative and quantitative data. Analytical criteria illustrated through case studies.

ARCH 60203
HISTORIC BUILDING MATERIALS CONSERVATION (3-4)
A study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration.

ARCH 60204
EXPLORING HISTORIC STRUCTURES (1-3)

ARCH 60205
PRESERVATION LEGISLATION AND POLICIES (1-3)

ARCH 55913
LAND USE CONTROL LAW (3)
Seminar discussing land use control policies, systems, programs and laws including private controls, constitutional considerations and environmental issues. Prerequisite: Permission.

ARCH 56991
SEMINAR: VARIABLE TOPICS (1-3)
Variable topic seminar. Repeatable for a maximum 3 credit hours. Prerequisite: Permission.

ARCH 56992
FIELD STUDY (1-3)
Field experience. Repeatable for a maximum 3 credit hours. Prerequisite: Permission.

ARCH 56993
WORKSHOP: VARIABLE TOPIC (1-3)
Field experience. Repeat registration permitted. S/U grading. Prerequisite: Permission.

ARCH 56995
SPECIAL TOPICS (1-3)
Special topics in architecture. Repeat registration permitted. Prerequisite: Permission.

ARCH 60101
GRADUATE DESIGN STUDIO I (3-6)
Architectural studies related to buildings. Emphasis on spatial, aesthetic, environmental and functional factors in design. Repeatable for a total of 6 credit hours. Special fee: $15 per semester.

ARCH 60102
GRADUATE DESIGN STUDIO II (3-6)
Research studio aimed at exploring advanced design strategies and techniques. Prerequisites: ARCH 60101 and ARCH 60301.

ARCH 60103
GRADUATE DESIGN STUDIO III (6-9)
Capstone-studio (or “Master Project”) aimed at further investigating building design issues both at a greater depth of complexity and by focusing on particular design aspects or areas of concentration. Prerequisite: ARCH 60102, 60150, and 60922.

ARCH 60150
PROJECT PROGRAMMING (2-3)
Study and discussion of the notion of Program in architecture and the principles of project Programming. Case-study analysis and preparation of a comprehensive program for an architectural project. IP permissible. Pre-requisite: ARCH 60101 and ARCH 60301.
ARCH 65002
PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW (2)
The course surveys laws relating to the practice of architecture and to dispute resolution with emphasis on contract laws, contrasted with laws of negligence and the standard of care in the profession. Surveys of land use control mechanisms as seen through zoning, variances, and practical applications.

ARCH 65003
PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS & OFFICE MANAGEMENT (3)
The course discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers, and financial management of an office in the context of the profession as business.

ARCH 65703
ANALYSIS OF URBAN FORM (1-3)
Seminar on the relationship between design ideologies/theories and the realities of existing spatial relationships. Prerequisite: Permission.

ARCH 65704
THEORIES OF URBANISM (1-3)
In-depth analysis and discussion of ideologies and theories on urbanism from Modernism until present time. Critical evaluation of major authors and urban projects. Repeatable for a total of 3 credit hours.

ARCH 66100
CAPSTONE PREPARATION (1-3)
Capstone project preparation. Repeatable for a total 3 credit hours. IP permissible. Prerequisite: Permission.

ARCH 66199
THESIS I (2-6)
Thesis students must register for a total of 6 hours. S/U grading; IP permissible.

ARCH 66299
THESIS II (2)
Following completion of 6 credit hours of Thesis I, all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ARCH 66199 — 6 credit hours.

ARCH 66892
PRACTICUM (1-3)
Variable topic practicum. Repeat registration permitted. Prerequisite: Permission.

ARCH 66991
SEMINAR: VARIABLE TOPIC (1-4)
Seminar on a variable topic. Repeat registration permitted.

ARCH 66992
FIELD STUDY (1-3)
Field study in architecture. Repeat registration permitted. IP permissible.

ARCH 66993
WORKSHOP: VARIABLE TOPIC (1-3)

ARCH 66995
SPECIAL TOPICS (1-4)
Special topics in architecture. Repeat registration permitted.

ARCH 66996
INDIVIDUAL INVESTIGATION (1-3)
Individual investigation in architecture. Repeat registration permitted. IP permissible. Prerequisite: Faculty written approval is required prior to registration.

ARCH 66998
RESEARCH (2-6)
Research in architecture. Repeat registration permitted. Prerequisite: Faculty written approval is required prior to registration.

ID 51093
VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN (1-4)
Workshops dealing with variable topics related to the interior design profession. Learning experiences provided in a broad spectrum of specialities. S/U grading. Prerequisite: Admission to Interior Design or permission.

ID 51095
SPECIAL TOPICS IN INTERIOR DESIGN (1-4)
Discussion of a major topic or issue within the profession of interior design. Repeat registration permitted. Prerequisite: Admission to Interior Design or permission.

ID 51096
INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN (1-3)
Independent study of Interior Design and related topics under the guidance of a faculty member. IP permissible. Prerequisite: Admission to Interior Design or permission.
ID 54512
HISTORIC FURNISHING TEXTILES (2)
A course designed to acclimate the student to historic textiles created primarily for use in interior architecture. Focus is on aesthetics, design and construction. A comprehensive adaptive reuse or restoration project is required. Prerequisite: ID 44525 and 44534.

ID 54524
ANGLO-AMERICAN INTERIORS (3)
An in-depth study of the Anglo-American interior and domestic furnishings with concentration on the preservation and contemporary usage of both interior architectural spaces and domestic objects. Prerequisite: ID 44512.

ID 54534
HISTORY OF INTERIORS TO 1600 (4)
A chronological study of housing and furnishings from civilization to the 15th century. Prerequisite: ID 34504, ART 22006 and 22007 or ARCH 20001, 20002 and permission.

ID 54535
HISTORY OF INTERIORS 1600 TO PRESENT (4)
A chronological study of housing and furnishings from the Renaissance to the Victorian period, 16th to 19th centuries and 20th century. Prerequisite: ID 54534.

 UD 55705
FORCES THAT SHAPE CITIES (1-3)
This course examines the forces that have shaped urban form through history, how they impact our cities today, and the challenges they will pose for the future. Repeatable for a total of 3 credit hours.

 UD 55710
DESIGN METHODOLOGY AND METHODS (1-3)
Course on procedural theory in urban design, the nature of the design process and how its manipulation affects the quality and character of design products. Repeatable for a total of 3 credit hours.

 UD 55711
CASE STUDIES IN URBAN DESIGN (1-3)
An in-depth evaluation of important examples of completed urban design projects presented by key project participants. Repeatable for a total of 3 credit hours.

 UD 60701
URBAN DESIGN STUDIO I (3-6)
Introduction to urban design and its relationship to other design disciplines through analysis of neighborhood and definition of comprehensive area-improvement programs. Repeatable for a total of 6 credit hours.

 UD 60702
URBAN DESIGN STUDIO II (3-6)
Urban design exploration of the formal relationships between buildings, open spaces and streets in the development of high density, mixed-use projects. Repeatable for a total of 6 credit hours. Prerequisite: UD 60701.

 UD 60703
URBAN DESIGN STUDIO III (3-6)
Design of a comprehensive redevelopment strategy and implementation strategies for an urban area of diverse existing character. Repeatable for a total of 6 credit hours. Prerequisite: UD 55705 and 60702 and 65102.

 UD 60704
URBAN DESIGN STUDIO IV (6-9)
Independent design project, completed under the direction of an individual advisor selected from the graduate faculty. IP permissible. Prerequisite: ARCH 60703 and 60705.

 UD 60705
CAPSTONE PROJECT PREPARATION (1-3)
Development of a rationale and structure for the independent design project to be completed in the final semester of the program. Repeatable for a total 3 credit hours. IP permissible. Prerequisite: UD 60703.

 UD 65101
COMMUNITY DEVELOPMENT PROCESS (1-3)
Advanced course on comprehensive community development. Case-study analysis, qualitative research and work with community initiatives are required. Prerequisite: Permission.

 UD 65102
URBAN SYSTEMS (1-3)
Introduction to urban systems in its socio-economic, environmental and engineering aspects: residential fabric, commercial sector, open spaces network, transportation systems, infrastructures.

 UD 65632
URBAN ECOLOGY (1-3)
Study of urban habitats and ecosystems. Relationships between natural systems and community design, planning, development and redevelopment. Prerequisite: UD 60703.

 UD 66995 (1-4)
SPECIAL TOPICS
Special topics in Urban Design. Repeated registration permitted.
COLLEGE OF THE ARTS

John R. Crawford, Interim Dean
204 Taylor Hall
330-672-2760
jcrawfo1@kent.edu

Ralph Lorenz, Interim Associate Dean
204 Taylor Hall
330-672-2760
florenz@kent.edu

The College of The Arts consists of four diverse, independent schools dedicated to the understanding, practice, interpretation, and advancement of the arts. Faculty and students explore, expand, and express knowledge and experience through teaching and learning, through research, and through creative forms and activities. The college includes graduate programs in the schools of Art, Music, and Theatre and Dance.

Master's Degree Programs

Master's degree programs are available in three disciplines, including the Master of Arts, Master of Fine Arts, and Master of Music.

- Art (M.A.; M.F.A.)
- Music (M.A.; M.M.)
- Theatre (M.A.; M.F.A.)

Doctor of Philosophy

The Doctor of Philosophy is offered in one discipline:

- Music (Ph.D.)

Information regarding individual graduate programs is provided on the following pages. Prospective students may obtain more information and admission applications by contacting the individual schools.

Application for admission is made online at https://admissions.rags.kent.edu. General admission requirements are listed earlier in this catalog. There also may be additional requirements for certain programs; please consult individual school sections in this catalog.

Persons seeking information on graduate non-degree status or graduate certificate programs should consult the Division of Research and Graduate Studies, Office of Graduate Program Services, 330-672-2661.

Advanced Study in the Arts

The schools of Art, Music, and Theatre and Dance in the College of the Arts offer nationally respected programs geared to advanced professional preparation. Graduate degree programs include the Master of Arts, Master of Fine Arts, Master of Music and Doctor of Philosophy. Related workshops and other special programs add focused opportunities for advanced study directed to specific career goals. (See College of the Arts.)

The School of Art (http://dept.kent.edu/art) maintains a high creative and scholarly profile. Student exhibition opportunities in the fine arts and crafts include the School of Art Gallery, as well as guidance in external competition and exhibition experiences. International study offerings include art history experiences in Florence, Paris and London, fine arts and crafts programs in New York and Chicago, and art education study in Mexico City and Finland, as well as field-based experiences in specialized institutional settings surrounding the campus. See also Kent/Blossom Art.

The active performance environment of the Hugh A. Glauser School of Music (http://dept.kent.edu/music) regularly features graduate students in solo and chamber recitals, in major ensemble concerts and opera productions, as soloists and conductors with major university ensembles, and through presentations of the works of student composers. The graduate string quartet program offers established young quartets a two-year mentorship with the Miami String Quartet, professional artists in residence. Musicology and ethnomusicology students study with faculty members in the Center of World Musics. They explore research experiences in music education; and they explore contemporary issues in secondary and higher education. See also Kent/Blossom Music.

Graduate students in the School of Theatre and Dance (www.theatre.kent.edu) participate in mainstage productions offered in the 500-seat E. Turner Stump Theatre and the 200-seat Wright-Curtis Theatre. Performance and design/technical internships are completed in working professional theatres and related settings throughout the region. The Kent Theatre Ensemble provides touring performances in school and community settings. Graduate workshops explore such topics as stage movement and dance, vocal technique for actors, and acting for the camera. See also Porthouse Theatre.
Kent/Blossom Festivals

Since 1968 the university has mounted nationally recognized summer professional study opportunities in cooperation with Blossom Music Center, summer home of The Cleveland Orchestra. The university also owns and operates Eells Art Gallery and Porthouse Theatre on the scenic Blossom grounds in the midst of the Cuyahoga Valley National Park. Exhibition and performance activities showcase the work of nationally selected students and the professional mentors with whom they study. Graduate students experience central roles in these dynamic components of the cultural life of a major arts market.

KENT/BLOSSOM ART

The two- and three-week intensive workshops of Kent/Blossom Art emphasize the exchange of creative concepts and techniques drawn from diverse visual media. Interactions among students and faculty - both resident and visiting - along with public presentations provide the means of exploring ideas and values within and beyond the student’s primary medium. Some workshops may involve off-site activities or travel. Kent/Blossom Art also produces a summer exhibition series at the Eells Art Gallery located on the main ground of Blossom Music Center. For additional information contact the School of Art, 330-672-2192 (http://dept.kent.edu/art).

KENT/BLOSSOM MUSIC

Kent/Blossom Music enables string, woodwind, horn and piano students to develop professional skills through intensive study with visiting master artists, members of The Cleveland Orchestra, the Miami String Quartet and other university faculty. Experiences focus on major works of the chamber music repertoire and orchestral technique and solo master classes. Rigorous daily coaching and rehearsal schedules culminate in performances on the campus and at Blossom Music Center, where participants also attend open rehearsals and concerts of The Cleveland Orchestra. See also: http://dept.kent.edu/blossom.

PORTHOUSE THEATRE

The Porthouse Theatre season offers three productions each summer under industry affiliations including Actors Equity Association and the Society of Stage Directors and Choreographers. College students from across the country and a small number of high school interns are selected by audition and technical credentials to work alongside professional actors, designers and directors fulfilling the artistic, technical and management needs of the theatre. In addition to these assignments, students attend master classes led by visiting professionals in various aspects of performance technique and professional development. Porthouse Theatre, a comfortable, 400-seat, outdoor, covered pavilion, attracts more than 18,000 patrons to its scenic setting each season. More information regarding Porthouse Theatre can be found online at http://dept.kent.edu/theatre/porthouse.
The School of Art offers graduate study leading to the Master of Arts and Master of Fine Arts degrees. Master of Arts programs are offered in art education, art history, and the studio areas of ceramics, drawing/painting, glass, jewelry/metal/enamels, printmaking, sculpture, and textile arts. These programs vary from 32 to 35 hours in length. The Master of Fine Arts degree program is offered in the studio areas listed above and requires 60 hours of coursework. The School of Art is accredited by the National Association of Schools of Art and Design.

SPECIAL PROGRAMS
Each year, the School of Art conducts special programs that are available for graduate credit. The special programs include the Kent/Blossom Art Program in crafts and fine arts, as well as varied travel study programs in studio, art history, and art education. Visit www.kent.edu/art for more information.

Master of Arts/Master of Fine Arts

ADMISSION
In addition to regular application requirements of the university, admission to Master of Arts or Master of Fine Arts programs requires the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumulative GPA</td>
<td>At least 2.75 on a 4.0 scale.</td>
</tr>
<tr>
<td>GRE Score</td>
<td>Not Required</td>
</tr>
<tr>
<td>Goal Statement (s)</td>
<td>Art Education - a “philosophy of art education” statement of between 250-500 words. Studio Majors/Crafts &amp; Fine Art - a 250-500 word “artist statement.” Art History - a “statement of purpose” of approximately 250 words indicating the proposed area of specialization within the art history curriculum.</td>
</tr>
<tr>
<td>Official Transcript(s)</td>
<td>Official transcripts from each college or university previously attended must be submitted.</td>
</tr>
<tr>
<td>3 Letters of Recommendation</td>
<td>These letters should be from persons who are currently in the applicant’s proposed field of study or a closely related area.</td>
</tr>
<tr>
<td>Curriculum Vitae</td>
<td></td>
</tr>
</tbody>
</table>
Visits to the School of Art preceding the application are strongly recommended.

Two deadlines are in effect:

- February 15 - summer sessions and fall semester admissions
- October 15 - spring semester admissions.

To be considered for admission all requirements must be received by the coordinator of graduate studies in the School of Art by deadlines listed above. Applications are reviewed throughout the year by some programs dependent on enrollment and availability of studio space. Contact the coordinator of graduate studies for specific details.

**PROGRAM REQUIREMENTS**

### Master of Arts - Art Education

The required courses for the Thesis Track are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTE 61001</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 61003</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 61198</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 61209</td>
<td>1</td>
</tr>
</tbody>
</table>

Electives: 3

Art History: 6

Studio Electives: 8

Thesis: 6

TOTAL: 33

The required courses for the Non-Thesis Track are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTE 61001</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 61003</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 61298</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 61209</td>
<td>1</td>
</tr>
</tbody>
</table>

Electives: 9

Art History: 6

Studio Electives: 8

Project: 2

TOTAL: 35

The required courses for the Master of Art - Art History are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History (one course in each: ancient, Medieval, Renaissance/Baroque, modern and non-Western)</td>
<td>24</td>
</tr>
<tr>
<td>ARTE 50295 Research Methods</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives: 3

Thesis: 6

TOTAL: 35

The required courses for the Master of Arts - Studio Areas/Crafts and Fine Art are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Area</td>
<td>23</td>
</tr>
<tr>
<td>Art History</td>
<td>3</td>
</tr>
<tr>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

TOTAL: 32

### Master of Fine Arts
The required courses for the Studio Areas/Crafts and Fine Art are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Area</td>
<td>26</td>
</tr>
<tr>
<td>Art Electives</td>
<td>10</td>
</tr>
<tr>
<td>Art History</td>
<td>9</td>
</tr>
<tr>
<td>Open Electives</td>
<td>9</td>
</tr>
<tr>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>60</strong></td>
</tr>
</tbody>
</table>

**ADVISING**
After a student is admitted to the program and notifies the graduate coordinator of his or her intention to enroll, a graduate advisor is assigned to help plan a course of study and to familiarize the student with the procedures of the school. The Graduate Program Handbook, which describes the routine procedures of the school, may be obtained from the graduate coordinator's office.

**CANDIDACY REVIEW EXAMINATION**
Successful completion of the Candidacy Review Examination is a requirement in every School of Art graduate program. In the studio majors, it is scheduled after half of the program has been completed.

For graduate students in art education, ARTE 61001, 61003 and 61198, and 3 to 5 hours in other program requirements must be completed prior to scheduling the examination. In art history the examination is given when all regular coursework is completed.

Successful completion of the examination designates the student as a candidate for the degree.

**THESIS**
The thesis is a significant project or body of work done independently of other coursework. Students are expected to demonstrate the ability to conduct research or produce a significant, original project in a discriminating and disciplined manner. The thesis topic should be one that will further the student’s knowledge and ability in the specialty by demonstrating skill as a researcher or studio artist. The outcome should be an effort that serves as a foundation for the pursuit of independent work when the graduate program is completed. At this stage, students are expected to work in close consultation with their thesis advisor.

**FINAL EXAMINATION**
The final examination occurs during the period of time in which the studio or research thesis is completed. The final examination is the presentation and defense of the thesis and is also an examination of the graduate student’s general comprehension of the visual arts. Graduate students are expected to follow the university schedule of deadlines for holding the final examination and presenting thesis materials.

**LABORATORY FEES**
Laboratory fees are assessed for some courses.

**STUDIO FACILITIES**
Limited studio space is available on campus for graduate students.

**Courses (ART)**
The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.

**ART 67199**
M.A. THESIS I (2-6)
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**ART 67299**
M.A. THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ART 67199.

**ART 69199**
M.F.A. THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**ART 69299**
M.F.A. THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ART 69199.

**ART Crafts**

**ARTC 65095**
CRAFTS: SPECIAL TOPICS (3)
Specialized courses in crafts that focus on specific techniques and media. Prerequisite: Permission. Special fee: $150.

**ARTC 65991**
SEMINAR IN CRAFTS (2)
Contemporary issues and professional concerns in the crafts explored through presentations, lectures and discussion. Graduate faculty and guest speakers.
ARTC 65996
INDIVIDUAL STUDY: CRAFTS (1-15)
Independent study in ceramics, glass, enamels, jewelry/metals or fiber arts. IP permissible. Special fee: $50 per credit hour.

ARTE 51002
ART EDUCATION: METHODS AND MATERIALS (3)
An examination of relationships between content, materials and strategies for teaching art. 7 field and/or clinical hours are associated with this course. Prerequisite: Permission.

ARTE 51525
ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE (3)
Concepts and practices related to teaching art. Inquiry into teaching art as a professional practice. 26 field and/or clinical hours are associated with this course.

ARTE 61001
SEMINAR IN ART EDUCATION (3)
Required of Master of Arts students in art education. Appropriate course for graduate students in education, art and other graduate programs. Historical analysis of art education foundations. Prerequisite: Certification and permission for art education graduate students. Permission for non-majors.

ARTE 61003
PROBLEMS AND ISSUES IN ART EDUCATION (3)
Required of Master of Arts students in art education. Appropriate course for graduate students in education, art and other graduate studies. Trends in art education. Prerequisite: ART 61001 and permission.

ARTE 61095/71095
SPECIAL TOPICS: ART EDUCATION (3)
A course in which the topic changes to reflect the interests and specializations of faculty. Prerequisite: ART 61198 and instructor's permission.

ARTE 61096
INDIVIDUAL STUDY — ART EDUCATION (1-6)
Specialized study leading to the thesis in art education. IP permissible. Prerequisite: ART 61001, 61003, 61198 and permission.

ARTE 61198
RESEARCH IN ART EDUCATION (3)
Specialized research leading to the thesis in art education. IP permissible. Prerequisite: ART 61001, 61003 and permission.

ARTE 61209
CANDIDACY REVIEW EXAMINATION: ART EDUCATION (1)
This comprehensive review is a formal assessment of students' knowledge and understanding of concepts in art, education and art education. Prerequisite: ART 61198 and instructor's permission. S/U and IP grading.

ARTE 61298
MASTER'S PROJECT: ART EDUCATION (2)
A course for guiding the design, preparation of drafts, and presentation of the terminal project in the non-thesis track of the M.A. program in Art Education. Prerequisite: ART 61209 and instructor's permission. S/U and IP grading.

ARTF 54091
STUDIO SEMINAR: SELECTED TOPICS (3)
Contemporary issues related to visual arts explored through presentation, lecture and discussion. Guest speakers augment staff. Repeatable for a total of 9 hours. Special fee: $12 per credit hour.

ARTF 64040
PRINTMAKING: INDIVIDUAL STUDY (2-10)
Continued development on a personal direction in printmaking. Prerequisite: Special approval. Special fee: $15 per credit hour.

ARTF 64050
SCULPTURE: INDIVIDUAL STUDY (2-10)
Continued development of a personal direction in sculpture. IP permissible. Special fee: $22 per credit hour.

ARTF 64060
PAINTING: INDIVIDUAL STUDY (2-10)
Individual study, painting. IP permissible. Prerequisite: Permission. Special fee: $10 per credit hour.

ARTF 64098
RESEARCH (1-15)
Studio research in the visual arts.

ARTH 52025
THE ART OF WEST AFRICA (3)
Arts, crafts and architecture of the western Sudanic and Guinea Coast areas of West Africa from prehistoric times to the present. Special fee: $45

ARTH 52026
ART OF NIGERIA (3)
Study of the arts, crafts and architecture of Nigeria from prehistoric times to present. Special fee: $45

ARTH 52027
ART OF CENTRAL AFRICA (3)
Study of the arts, crafts and architecture of Central Africa from prehistoric times to present. Special fee: $45
ART 52031  
GREEK ART AND ARCHAEOLOGY (3)  
Greek art and architecture from earliest times through the Hellenistic period with special attention given to recent archaeological discoveries.

ART 52032  
ROMAN ART AND ARCHAEOLOGY (3)  
Introduction to archaeology of the Roman world. Emphasis on discoveries and impact on the study of Italic, Etruscan and Roman art, architecture and sculpture through Imperial period.

ART 52036  
MEDIEVAL ART (3)  
Emphasis on major periods of Medieval art (Byzantine, Carolingian, Ottonian, Romanesque and Gothic), treating icono-graphic themes and styles in a variety of media.

ART 52039  
GOTHIC ART: 12TH TO 15TH CENTURIES (3)  
An examination of the development of European Gothic art from the 12th to the 15th centuries. Students will research specific works of art. The course will put emphasis on contemporary, historical, philosophical and literary figures.

ART 52041  
ITALIAN RENAISSANCE ART (3)  
Study of development of major themes in Italian art from 1400 until about 1550, emphasizing achievements of the masters and analyzing major ideas and theories of the period. Special fee: $45

ART 52042  
NORTHERN RENAISSANCE ART (3)  
Study of stylistic and iconographic questions and technique in northern panel painting as well as other arts in northern Europe.

ART 52046  
BAROQUE ART OF THE 17TH CENTURY (3)  
A study of the origins of baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain. Special fee: $45

ART 52047  
ROCCOCO ART OF THE 18TH CENTURY (3)  
A study of 18th-century art in France and subsequent spread and development throughout continental Europe.

ART 52051  
EUROPEAN ART: 1750-1900 (3)  
Selected studies in late-18th-century and 19th-century painting, sculpture, architecture and allied arts of England, France, Germany and Spain. Special fee: $45

ART 52058  
AMERICAN FILM, PHOTOGRAPHY, ART AND IDEAS (3)  
Key examples of photography from the 19th century to present day.

ART 52061  
EARLY 20TH-CENTURY ART (3)  
A study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940. Special fee: $45

ART 52066  
LATE MODERN ART SINCE 1940 (3)  
A study of painting, sculpture and allied arts in the United States and Europe from 1940 to the present. Special fee: $45

ART 52070  
HISTORY OF GRAPHIC DESIGN (3)  
This course traces the arts of visual communication from their origins to current trends and practices with an emphasis on theory and aesthetics.

ART 52078  
HISTORY OF DECORATIVE AND APPLIED ARTS (3)  
Historical and critical examination of decorative and applied arts and their relationship to Western societies that produced them.

ART 52095  
SPECIAL TOPICS: ART HISTORY (1-3)  
Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Precise title will be inserted in Schedule of Classes.

ARTC 55095  
CRAFTS: SELECTED TOPICS (3)  
Specialized courses in crafts that focus on specific techniques and media. Prerequisite: Permission. Special fee: $90.

ART 62056  
AMERICAN ART: 1600-1860 (3)  
Intensive survey of the major forms of art, styles, personalities, patrons, institutions and esthetic theories in the United States from its beginnings to the Civil War.

ART 62057  
AMERICAN ART: 1860-1940 (3)  
In-depth study of American painting, sculpture, graphics and allied arts from 1860 to 1940.

ART 62071  
HISTORY OF PRINTS (3)  
A chronological survey of printmaking (engraving, etching, lithography, etc.) from 1400 to the present, emphasizing its technical and stylistic evolution.

ART 62072  
INTRODUCTION TO MUSEOLOGY (3)  
Art elective course providing insights into the history of collecting, growth of museums and the scope of the museum field and specialized professional areas involved.
ARHT 62075
FILM AND PHOTOGRAPHY IN WESTERN ART AND IDEAS (3)
Selected studies of film and photography within the broader context of Western realism and ideas.

ARHT 62091
ART HISTORY SEMINAR (3)
Open format course with topics announced in advance. Designed to allow in-depth examination of selected topics. May be repeated up to a total of 9 hours.

ARHT 62095
SPECIAL TOPICS: ART HISTORY (3)
Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Special focus on problems and issues in the different areas of the discipline.

ARHT 62096
SELECTED PROBLEMS — ART HISTORY (3)
The course content changes each semester according to the topic, entailing discussion and lectures on specific problems, issues and areas in art history. Repeatable for a total of 9 hours. Prerequisite: Permission.

ARHT 62098
RESEARCH (1-15)
Independent research open only to art history graduate students who have completed course requirements for the Master of Arts degree.

KBA 54080
STUDIO EXPERIENCE IN FINE ARTS (1-6)
Studio exploration of selected concepts in painting, sculpture, printmaking, or photography. Content varies with each section offered. Course is repeatable.

KBA 55080
STUDIO EXPERIENCE IN CRAFTS (1-6)
Studio exploration of selected concepts in ceramics, enameling, glass, jewelry, metals, or fiber arts. Content varies with each section offered. Course is repeatable.
Music

MUSIC

Denise A. Seachrist, Interim Director
E101 Music and Speech Center
330-672-2172
dseachri@kent.edu

Thomas Janson, Coordinator of Graduate Studies
E101 Music and Speech Center
330-672-0449
tjanson@kent.edu

Graduate programs in music lead to the degrees Master of Arts, Master of Music or Doctor of Philosophy, all of which are accredited by the National Association of Schools of Music. Master of Arts degree majors are available in music composition, ethnomusicology, musicology and music theory. Master of Music majors are available in performance, conducting and music education. Doctor of Philosophy majors are available in music education, musicology-ethnomusicology and music theory-composition. Visit the school Web site at http://dept.kent.edu/music for more information.

ADMISSION

In addition to regular application requirements of the university, admission to the Master of Arts, Master of Music or Doctor of Philosophy programs requires the following:

- At least three letters of recommendation from persons familiar with the applicant's academic background, musicianship and teaching effectiveness. For prospective music education students, these letters should provide evidence of successful teaching experience.
- Master's degree applicants in performance and those individuals planning to take applied lessons at the graduate level, regardless of their degree program, must audition in their major performing medium. Students entering the M.M. program with a voice major will be expected to demonstrate proficiency in German, French and Italian diction. If a language deficiency is identified, the student will be required to take remedial language courses at the undergraduate level including Singer’s Diction, MUS 18611 and MUS 18612. Remedial courses will not count toward graduation. For students residing at an inconvenient distance from Kent, an audition recording may be sent to the coordinator of graduate studies. It should contain up to 30 minutes of material covering a variety of performance styles (and languages for vocalists). A list of repertoire studied in the past year should accompany the recording or be brought to the audition. While it is not required for admission, doctoral students planning to study applied music must audition. Students desiring return of the audition recording should enclose a self-addressed stamped envelope.
- A resume of educational and professional achievements and a cover letter indicating future career goals.
- Applicants for the Master of Arts in musicology, ethnomusicology, composition and theory should include an academic paper written in English (e.g., term paper).
- Composition majors must also include a portfolio of their original compositions.
- Music education master's and doctoral applicants must hold an accredited teaching certificate. Doctoral applicants in music education must also have a minimum of three years of successful teaching experience at elementary and/or secondary levels.
- Doctoral applicants should include evidence of competence in written English, organizational skills and knowledge of basic research techniques. A master's thesis or scholarly paper will satisfy this requirement. Doctoral students majoring in theory-composition should send several representative examples of recent compositions.

ENTRANCE (DIAGNOSTIC) EXAMINATIONS

All entering master's and doctoral students take entrance (diagnostic) examinations in music theory and in music history prior to first enrollment. Based upon the examination results, the student may be required to take certain courses as a part of his/her program if shown to be deficient in a particular area. Students with an extensive background in a specific area may not be required to take any courses. Students with a generally good background may be required to take one or two graduate courses in one area. Students who are not fully prepared for graduate-level work in any area may be required to take the appropriate undergraduate practicum course (MUS 41111 or 42211) in addition to one or two graduate courses. Graduate courses required as a result of the diagnostic examinations will be considered electives within the degree program except where required as part of the major program. If the number of hours required exceeds the number of elective hours in the program, this will result in a larger number of required hours than the minimum numbers listed below.

Master of Arts and Master of Music

PROGRAM REQUIREMENTS

Each student will be accepted as a major in a specific curricular area. It may be necessary for the student to complete Kent State University requirements for the appropriate undergraduate degree. A program of study leading to the master's degree should be planned in consultation with the advisor. Students pursuing the Master of Music may select one of the following options: a thesis option, an essay and recital option, a two-recital option, or a coursework option depending on their major. The Master of Arts program requires a thesis.

SECONDARY APPLIED MUSIC

Election of secondary instruments or secondary voice requires an audition and approval of the appropriate applied division.
**ENSEMBLE**
A maximum of two ensemble credit hours may be applied toward degree requirements. Students must petition the Graduate Studies Committee to count additional ensemble hours toward degree requirements. Piano performance majors may satisfy the ensemble requirement with MUS 55311 and/or MUS 55321.

Music ensembles are open to all qualified university students upon satisfactory audition. Membership in music organizations is not limited to music majors and minors. All master's students are required to participate in an ensemble for two semesters. One summer session is considered equivalent to one semester.

**RESEARCH TOOL REQUIREMENT**
Candidates for the Master of Arts degree program in musicology or ethnomusicology must demonstrate a reading knowledge of one foreign language, normally German or French. With the approval of the advisor and the graduate studies committee, other languages may be substituted, especially for the student in ethnomusicology. Credit hours earned in meeting this requirement are not applicable toward the credit-hour requirement in the degree program.

**FINAL ORAL EXAMINATION**
All students writing a thesis or essay must pass a final oral examination covering the thesis or essay and the student's major area of study. A student electing the two-recital option must pass a final oral examination covering literature performed in recitals and the student's areas of performance and study in the degree. Those completing a coursework option must pass a final oral examination covering all of the coursework in the master’s degree program. The final oral examination may be attempted two times.

**WORKSHOP CREDIT**
A maximum of 4 semester hours of workshop credit may be applied to certain graduate degrees. The hours must pertain to the degree emphasis. Workshop credit with grades of A or B may be transferred into a degree program.

<table>
<thead>
<tr>
<th>Music Composition</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 61211 ..........</td>
<td>8</td>
</tr>
<tr>
<td>MUS 62451 ..........</td>
<td>3</td>
</tr>
<tr>
<td>Select from MUS 61171, 61172, 71191 ..........</td>
<td>6</td>
</tr>
<tr>
<td>Electives ..........</td>
<td>7</td>
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<td>Ensemble ..........</td>
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<td>Thesis ..........</td>
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<table>
<thead>
<tr>
<th>Ethnomusicology</th>
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<tbody>
<tr>
<td>Select from MUS S2111, S2141, S2151 ..........</td>
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</tr>
<tr>
<td>MUS 62412 ..........</td>
<td>3</td>
</tr>
<tr>
<td>Select from MUS 62601, 62602, 62603, 62604, 62605, 62606, 72691 ..........</td>
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<tr>
<td>Electives ..........</td>
<td>9</td>
</tr>
<tr>
<td>Ensemble (Chamber Music) ..........</td>
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<td>Thesis ..........</td>
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**MUSIC THEOLOGY**

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**MASTER OF ARTS**

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<tr>
<td>Select from MUS 61171, 61172, 71191 ..........</td>
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<tr>
<td>Electives ..........</td>
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<tr>
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<td>Thesis ..........</td>
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<table>
<thead>
<tr>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Select from MUS S2111, S2141, S2151 ..........</td>
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</tr>
<tr>
<td>MUS 62412 ..........</td>
<td>3</td>
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<tr>
<td>Select from MUS 62601, 62602, 62603, 62604, 62605, 62606, 72691 ..........</td>
<td>6</td>
</tr>
<tr>
<td>Electives ..........</td>
<td>9</td>
</tr>
<tr>
<td>Ensemble (Chamber Music) ..........</td>
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</tr>
<tr>
<td>Thesis ..........</td>
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**MASTER OF MUSIC**

<table>
<thead>
<tr>
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<tr>
<td>Recital ..........</td>
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**CONDUCTING**

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<tr>
<td>Electives ..........</td>
<td>13</td>
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<tr>
<td>Ensemble ..........</td>
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<tr>
<td>Recital ..........</td>
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<td>3</td>
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**MUSIC EDUCATION**

<table>
<thead>
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<th>Hours</th>
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<tr>
<td>MUS 63271, 63283, 63274 ..........</td>
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</tr>
<tr>
<td>Pedagogy concentration (*) ..........</td>
<td>5</td>
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<tr>
<td>Music electives, other than Music Education (**) ..........</td>
<td>12</td>
</tr>
<tr>
<td>Thesis, Recital and Essay or ..........</td>
<td>6</td>
</tr>
<tr>
<td>Total ..........</td>
<td>32</td>
</tr>
</tbody>
</table>
Music

Coursework option (see Notes ***, ****) 6-9
Total 32-35
(*) Special areas of concentration are general music; choral music and conducting; and instrumental music and conducting. Students who elect the general music area must take MUS 63263; students who elect the choral music and conducting area must take MUS 63261 and 64111; students who elect the instrumental music and conducting area must take MUS 63262 and either MUS 64121 or 64131.
(**) All students except those who elect the general music area must take 2 credit hours of ensemble.
(*** ) Students who elect the thesis or recital and essay option will take 6 credit hours. Students who elect the coursework option must take 9 credit hours. Courses to be included in this option must be approved by the student's advisor.
(****) Students planning to continue into a Ph.D. program are encouraged to choose the thesis option.

Doctor of Philosophy

PROGRAM REQUIREMENTS

Students who do not have a master's degree in the appropriate area will be required to take coursework, including the writing of a thesis (if required in that area), necessary to achieve the level of competence expected of a student who does hold a master's degree in that area. These credits will be considered part of the doctoral program but will be in addition to the minimums for the Doctor of Philosophy degree. Students who envision possible problems with the four-year limit to candidacy might consider enrolling initially at the master's level and transferring to the doctoral program when these requirements are substantially fulfilled.

Music Education

The degree of Doctor of Philosophy in music with a major in music education is designed for students seeking leadership positions in music education in schools, colleges and universities. This degree program provides flexibility in meeting individual student needs. A wide array of courses is available in music education, ethnomusicology, musicology, music theory and applied music.

Minimum semester hours beyond Master's Degree:

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Music Education</td>
<td>16-19</td>
</tr>
<tr>
<td>Pedagogy Concentration</td>
<td>8-9</td>
</tr>
<tr>
<td>Outside Minor</td>
<td>6</td>
</tr>
<tr>
<td>Ethnomusicology</td>
<td>3</td>
</tr>
<tr>
<td>Related Studies (Electives)</td>
<td>0-5</td>
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<tr>
<td>Dissertation</td>
<td>30</td>
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<tr>
<td>Total</td>
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</tr>
</tbody>
</table>

Musicology-Ethnomusicology

The degree of Doctor of Philosophy with a major in musicology-ethnomusicology is designed to prepare college and university teachers and research scholars, with an emphasis on combining the techniques of historical musicology and ethnomusicology. Students will elect to emphasize either musicology or ethnomusicology and will be required to take at least 21 hours in the emphasized area. In addition, they must take at least 9 hours in the area that is not emphasized, unless appropriate courses have been taken previously, e.g., in the master's program. These hours will be considered as part of the major requirement beyond the minimum 21 hours. A 9-hour outside minor is required, but appropriate courses taken previously may be counted toward this requirement. Theory and music history courses required by the diagnostic examination or elected will count in the related-studies block.

Minimum semester hours beyond Master's Degree:

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Musicology and Ethnomusicology</td>
<td>21-24</td>
</tr>
<tr>
<td>Non-Music Minor</td>
<td>9</td>
</tr>
<tr>
<td>Related Studies (Music Electives)</td>
<td>0-9</td>
</tr>
<tr>
<td>Dissertation</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>60-72</td>
</tr>
</tbody>
</table>

Music Theory-Composition

The degree of Doctor of Philosophy with a major in music theory-composition is designed to prepare composers, college and university teachers, and research scholars in the area of music theory. This degree program is based on the premise that original composition of high quality requires a strong background in theory, and that significant scholarship in theory requires experience in original composition.

Minimum semester hours beyond Master's Degree:

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory and Composition</td>
<td>15-21</td>
</tr>
<tr>
<td>Minor Area: Ethnomusicology</td>
<td>9</td>
</tr>
<tr>
<td>Music Education</td>
<td>6-9</td>
</tr>
<tr>
<td>Related Studies (Music Electives)</td>
<td>9-12</td>
</tr>
<tr>
<td>Dissertation</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>60-72</td>
</tr>
</tbody>
</table>

ADVISING

At the time of admittance, the doctoral student will be assigned a major advisor by the coordinator of graduate studies. The student, major advisor and coordinator of graduate studies will then select members for that student's advisory committee, which will be composed of at least four graduate faculty members. Two members must be from the student's major area, and two must be from outside the major area. At least one member must be from musicology or theory. The membership of the advisory committee must be approved by the advisor and the Graduate Studies Committee.
A program of studies to be completed within the student’s degree program will be determined collectively by the student and his/her advisory committee. This document is official when signed by all the committee members. The program of study form should be completed within the first two semesters of full-time study. Alterations may be made by memo, with the signature approval of all committee members.

**RESIDENCE**
The student must complete at least 15 semester hours of study within one calendar year in residence.

**RESEARCH TOOL REQUIREMENT**
Each doctoral program in the School of Music has a research tool requirement. The purpose of this requirement is to assure that doctoral-level students have prerequisite skills for completing independent research activity. Specific requirements for each of the programs are described in the following paragraphs. In all cases, students may satisfy these requirements either through satisfactory performance in coursework or by examination. Credit hours earned in acquiring these competencies are not applicable toward the credit hour requirement in the degree program. All research tool requirements must be passed before the student is permitted to attempt the candidacy examination.

In musicology-ethnomusicology, the requirement is a reading knowledge of two foreign languages, normally German and French. With the approval of the doctoral advisory committee, other languages may be substituted, especially for the student emphasizing ethnomusicology.

In music education, the requirement is either a reading knowledge of one foreign language or a demonstrated competence in statistics equivalent to that which might be obtained in two graduate-level statistics courses. Demonstrated competence in other areas of research may be substituted on the recommendation of the doctoral advisory committee.

In theory-composition, the requirement is either a reading knowledge of one foreign language or a demonstrated competence in an area of research specified by the doctoral advisory committee.

**CANDIDACY EXAMINATION**
This examination will normally be taken when the student has substantially completed his/her coursework and has received the consent of the advisory committee to attempt the examination. The written portion of the examination will cover the major and supportive areas of study and will be followed by a comprehensive oral examination. Students who fail the candidacy examination two times will be dismissed from the doctoral program.

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**Courses (MUS)**

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

**MUS 50295**
ST: MUSIC, VARIABLE TITLE (1-3)
Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member. Prerequisite: Music (MUS) major.

**MUS 50296**
INDEPENDENT STUDY: MUSIC (1-3)
Individual investigation in music topics either not offered as regular coursework or beyond the scope of existing music major courses. Prerequisite: Music (MUS) major and special approval.

**MUS 51131**
KEYBOARD HARMONY (3)
Theoretical skills demonstrated at the keyboard. Harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.

**MUS 51141/71141**
16TH-CENTURY COUNTERPOINT (3)
Two- three- and four-part vocal counterpoint in 16th-century style.

**MUS 51151/71151**
18TH-CENTURY COUNTERPOINT (3)
Technique of writing counterpoint in 18th-century style, especially that of J. S. Bach.

**MUS 51211**
COMPOSITION (2)
Study of the materials and techniques of composition culminating in original compositions based upon observable principles of unity and variety. Prerequisite: Special approval.

**MUS 51231/71231**
TECHNIQUES OF ELECTRONIC MUSIC (3)
Techniques of the composition of electronic music, including tape techniques and synthesizer techniques. Study oriented toward the facilities of the Kent Electronic Music Studio. Prerequisite: Music (MUS) major.
### Music

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 51321</td>
<td>ORCHESTRATION (3)</td>
<td>Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>MUS 51341</td>
<td>JAZZ IMPROVISATION (2)</td>
<td>The development of the art of jazz improvisation through performance and analysis. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>MUS 51342</td>
<td>JAZZ ARRANGING (2)</td>
<td>Arranging for the large and small jazz ensemble. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>MUS 52131</td>
<td>AMERICA’S MUSIC (3)</td>
<td>Historical survey of music in America from New England psalmody to present-day compositional trends.</td>
</tr>
<tr>
<td>MUS 52141</td>
<td>FOLK AND TRADITIONAL MUSIC OF WESTERN CONTINENTS (3)</td>
<td>Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.</td>
</tr>
<tr>
<td>MUS 52151</td>
<td>ASIAN MUSIC (3)</td>
<td>Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.</td>
</tr>
<tr>
<td>MUS 52161</td>
<td>HISTORY OF JAZZ (3)</td>
<td>The evolution of jazz from its origins to the present.</td>
</tr>
<tr>
<td>MUS 52221</td>
<td>SYMPHONIC LITERATURE (3)</td>
<td>Historical and stylistic survey of music for large instrumental ensemble.</td>
</tr>
<tr>
<td>MUS 52222</td>
<td>CHAMBER MUSIC LITERATURE (3)</td>
<td>Historical and stylistic survey of chamber music literature.</td>
</tr>
<tr>
<td>MUS 52241</td>
<td>PIANO LITERATURE (3)</td>
<td>Survey of keyboard and piano literature from the 16th century to the present. Study of related forms and styles. Emphasis on performing, listening and analysis. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>MUS 52251</td>
<td>SONG LITERATURE (3)</td>
<td>A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.</td>
</tr>
<tr>
<td>MUS 52261</td>
<td>OPERA LITERATURE (3)</td>
<td>The historical development of opera from the 17th century to the present. Detailed analysis of representative works.</td>
</tr>
<tr>
<td>MUS 52271</td>
<td>CHORAL LITERATURE (3)</td>
<td>Study of choral literature from all historical periods and styles.</td>
</tr>
<tr>
<td>MUS 53241</td>
<td>MARCHING BAND TECHNIQUES AND LITERATURE (2)</td>
<td>Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>MUS 53242</td>
<td>JAZZ ENSEMBLE TECHNIQUES (2)</td>
<td>Organization and administration of the jazz ensemble with emphasis on musical interpretation, jazz styles and rehearsal techniques taught through laboratory experience. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>MUS 53243</td>
<td>VOCAL JAZZ AND MUSICAL THEATRE IN THE SCHOOLS (2)</td>
<td>Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.</td>
</tr>
<tr>
<td>MUS 55111</td>
<td>UNIVERSITY CHOIR (1)</td>
<td>Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.</td>
</tr>
<tr>
<td>MUS 55121</td>
<td>KENT CHORUS (1)</td>
<td>Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.</td>
</tr>
<tr>
<td>MUS 55131</td>
<td>OPERA: SINGER-ACTOR TECHNIQUES (2)</td>
<td>A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas. Prerequisite: Special approval.</td>
</tr>
</tbody>
</table>
MUS 55141/75141  
KENT STATE UNIVERSITY CHORALE (1)  
Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. Prerequisite: Special approval.

MUS 55142  
MEN’S CHORUS (1)  
A chorus of male voices. Emphasis on music literacy, vocal production, instruction, study and performance of music written for male voices. All Western music periods are represented. Experience with mixed-voice choirs also occurs. Prerequisite: Special approval.

MUS 55143  
WOMEN’S CHORUS (1)  
A chorus of women’s voices. Emphasis on music literacy, vocal production, instruction, study and performance of music written for women’s voices. All Western music periods are represented. Experience with mixed-voice choirs also occurs. Prerequisite: Special approval.

MUS 55151  
KENT STATE UNIVERSITY GOSPEL CHOIR (1)  
Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.

MUS 55212/75212  
KENT STATE UNIVERSITY ORCHESTRA (1)  
A select group of instrumentalists for the purpose of studying and performing music written specifically for chamber orchestra, including works of the 17th, 18th and 20th centuries. Prerequisite: Special approval.

MUS 55221  
CONCERT BAND (1)  
Study and performance of music literature for wind band. Prerequisite: Special approval.

MUS 55222  
MARCHING BAND (1)  
Study and performance of literature and maneuvers for marching band. Repeatable up to 6 hours. Prerequisite: Special approval.

MUS 55223/75223  
WIND ENSEMBLE (1)  
A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Prerequisite: Special approval.

MUS 55231/75231  
JAZZ ENSEMBLE (1)  
Study and performance of music literature in the jazz idiom. Prerequisite: Special approval.

MUS 55241  
TROMBONE ENSEMBLE (1)  
A thorough study of trombone performance in various size ensembles. Emphasis on original literature from over four centuries. Prerequisite: Special approval.

MUS 55251  
PERCUSSION ENSEMBLE (1)  
A comprehensive study of percussion performance in various size ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature. Prerequisite: Special approval.

MUS 55261  
BASSOON ENSEMBLE (1)  
Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing, interpretation, leadership skills and arranging techniques. Repeat registration permitted. Prerequisite: Special approval.

MUS 55271/75271  
NEW MUSIC ENSEMBLE (1)  
Study and performance of 20th-century chamber music with an emphasis on works by contemporary composers. Repeat registration permitted. Prerequisite: Special approval.

MUS 55311/75311  
CHAMBER MUSIC (1-2)  
The study and performance of music for small ensembles. Prerequisite: Special approval.

MUS 55321  
ACCOMPANYING (1-2)  
Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly. Repeat registration permitted. Prerequisite: Special approval.

MUS 58111  
EURHYTHMICS (1)  
Applied study of rhythm through kinesthetic, intellectual and emotional involvement. Movement experiences to strengthen concentration and communication among ear, brain and muscles that execute rhythm. Prerequisite: Special approval.

MUS 58112  
EURHYTHMICS (1)  
A continuation of MUS 58111. Prerequisite: MUS 58111.
Music

MUS 58221
ELEMENTS OF ACCOMPANYING I (2)
Techniques of accompanying; selected overview of art song literature including Italian, German, French and English songs; development of playing-at-sight skills. Prerequisite: Special approval.

MUS 58222
ELEMENTS OF ACCOMPANYING II (2)
Continuation of accompanying techniques including opera accompanying, orchestral reductions, and selected overview of literature for solo instrument and piano; continuation of playing-at-sight skills. Prerequisite: Special approval.

MUS 58241
VOICE PEDAGOGY (2)
Survey of techniques, practices and materials of teaching voice. Prerequisite: Special approval.

MUS 58251
PEDAGOGY OF MUSIC THEORY (2)
The principles and techniques of teaching music theory.

MUS 58257
PEDAGOGY— INSTRUMENTAL (2)
Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings, woodwinds, brass, percussion, organ or guitar. Prerequisite: Special approval.

MUS 58393/78393
VARIABLE TITLE WORKSHOP IN MUSIC (1-4)
Offered for specific professional needs. Emphasis on performance and pedagogical skills. S/U grading. Prerequisite: Special approval.

MUS 61131/71131
BAND ARRANGING (2)
Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band. Prerequisite: MUS 51331 with at least a “C”.

MUS 62227/72227
HISTORY AND LITERATURE OF THE WIND BAND (2)
Historical survey of wind band literature and the development of the ensemble. Prerequisite: Special approval.

MUS 62281/72281
SEMINAR IN MUSIC HISTORY AND LITERATURE (3)
Selected problems of research in music history and literature. Each student will be responsible for presenting papers for discussion. Repeat registration permitted.

MUS 62412/72412
INTRODUCTION TO ETHNOMUSICOLOGY (3)
A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription, analysis and bibliography. Prerequisite: MUS 52111 or 52141 or 52151.

MUS 62413/72413
ADVANCED FIELD AND LAB METHODS IN ETHNOMUSICOLOGY (3)
Development of professional-level research skills in all media of field documentation, transcription, analysis and scholarly writing. Study of current related issues in ethnomusicology. Prerequisite: MUS 62412.

MUS 62451/72451
INTRODUCTION TO MUSICOLOGY (3)
Techniques of music research and creative musical writing including special projects, reports and readings.

MUS 62511/72511
MUSIC HISTORY I (3)
A study of Western music history and its place in the medieval world to the beginning of the 16th century (ca. 1520).

MUS 62521/72521
MUSIC HISTORY II (3)
A study of Western music history and its place in the cultural milieu of the late Renaissance and Baroque eras.

MUS 62531/72531
MUSIC HISTORY III (3)
A study of Western music during the classical period and the classic tradition to the end of the 19th century.

MUS 62541/72541
MUSIC HISTORY IV (3)
A study of romantically inclined composers to the end of the 19th century and major trends, techniques and composers since 1900.
MUS 62601/72601  
SEMINAR IN MUSICS OF AFRICA (3)  
Specialized investigations of music cultures of Africa.  
Prerequisite: Special approval.

MUS 62602/72602  
SEMINAR IN MUSICS OF THE AMERICAS (3)  
Specialized investigation of music cultures of the Americas.  
Prerequisite: Special approval.

MUS 62603/72603  
SEMINAR IN MUSICS OF THE MIDDLE EAST (3)  
Specialized investigation of music cultures of the Middle East.  
Prerequisite: Special approval.

MUS 62604/72604  
SEMINAR IN MUSICS OF EAST ASIA (3)  
Specialized investigation of music cultures of East Asia.  
Prerequisite: Special approval.

MUS 62605/72605  
SEMINAR IN MUSICS OF SOUTHEAST ASIA (3)  
Specialized investigation of music cultures in Southeast Asia.  
Prerequisite: Special approval.

MUS 63261/73261  
ADVANCED STUDIES IN SECONDARY CHORAL AND GENERAL MUSIC (3)  
Review curriculum in secondary general music and development of innovative teaching materials and strategies.  
Analytical techniques, rehearsal procedures, repertory suitable for secondary school choral ensembles.  
Prerequisite: Special approval.

MUS 63262/73262  
ADVANCED STUDIES IN INSTRUMENTAL MUSIC (3)  
Study of curriculum, method, techniques and materials in school instrumental music education.

MUS 63263/73263  
ADVANCED STUDIES IN GENERAL MUSIC FOR CHILDREN (3)  
Study of trends in philosophy, curriculum and program development, instructional materials and innovative teaching techniques for elementary school and early childhood general music.  
Prerequisite: Special approval.

MUS 63271/73271  
MEASUREMENT AND EVALUATION IN MUSIC (3)  
Study of measurement and evaluation techniques for music aptitude, achievement and preference.  
Emphasis on developing teacher-made tests and on available standardized music tests.

MUS 63272/73272  
LEARNING THEORIES IN MUSIC (3)  
Application of current theories of learning to the teaching and learning of music.

MUS 63273/73273  
PSYCHOLOGY OF MUSIC (3)  
The study of music's effect on human behavior including physiological and affective responses.  
Applications of music psychology to the teaching and learning of music will be explored.

MUS 63274/73274  
FOUNDATIONS OF MUSIC EDUCATION (3)  
Study of the influences on the field of music education, including sociology, psychology, philosophy, curriculum and history.

MUS 63283/73283  
RESEARCH IN MUSIC EDUCATION (3)  
Introduction to research techniques in music education including topic selection, data collection, analysis and interpretation; and presentation of information in written form.

MUS 63284/73284  
HISTORY OF MUSIC EDUCATION (2)  
Study of historical approaches to music education with emphasis on significant people, places and events that have influenced music teaching and learning music.  
Prerequisite: MUS 63274.

MUS 63285/73285  
PHILOSOPHY OF MUSIC EDUCATION (2)  
Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.  
Prerequisite: MUS 63274.

MUS 63311/73311  
DALCROZE TECHNIQUES IN MUSIC EDUCATION (2)  
Dalcroze principles of eurhythmics, ear training and keyboard improvisation as applied to teaching music in schools.  
Emphasis on teaching young children.  Development of teaching skills.  
Prerequisite: MUS 58111.

MUS 64111/74111  
CONDUCTING PROJECTS: CHORAL (2 OR 4)  
Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.  
Repeat registration permitted.  
Prerequisite: Special approval.

MUS 64121/74121  
CONDUCTING PROJECTS: BAND (2 OR 4)  
Band-conducting techniques, score analysis, rehearsal procedures and study of musical style.  
Repeat registration permitted.  
Prerequisite: Special approval.
MUS 64131/74131
CONDUCTING PROJECTS: ORCHESTRA (2 OR 4)
Orchestra-conducting techniques, score analysis, rehearsal procedures and study of musical style. Repeat registration permitted. Prerequisite: Special approval.

All of the following courses require permission before registration. Repeat registration permissible. Registration in one of the following is required in semester of final oral examination.

Students who plan to register for applied music for the first time must appear for an audition before the examination committee of the Hugh A. Glauser School of Music prior to registration in order to be assigned a course number and instructor.

Privately instructed applied music courses are offered each semester. Each course provides a one-half-hour private lesson weekly for 2 semester hours of credit or a one-hour lesson weekly for 4 semester hours of credit. In order to receive a passing grade in applied music, performance of a juried examination is required during the week of final examinations each semester of registration. Approved exceptions include the performance of a degree recital, a full concerto with instrumental ensemble or a major role in an opera performed during the semester of enrollment.

The private instruction fee is $50 per credit hour. Prerequisite for each course is an audition.

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Percussion 66711 76711
Guitar 66912 76912

MUS 66191
SEMINAR IN ACCOMPANYING (2)
Studio performances of standard repertoire for piano and voice or instruments; investigation of other topics relating to the accompanying of the repertoire. Repeat registration permitted. Prerequisite: Special approval.

MUS 68199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters, if desired. S/U grading; IP permissible.

MUS 68299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: MUS 68199 and graduate standing.

MUS 68214/78214
PIANO PEDAGOGY AND MATERIALS I (3)
Teaching techniques and materials for the studio teacher including approach to philosophy of teaching, lesson structure and current innovations. Prerequisite: Special approval.

MUS 68215/78215
PIANO PEDAGOGY AND MATERIALS II (3)
Teaching techniques and materials for the studio teacher; analysis of specific teaching problems including the teaching of 20th-century music. Prerequisite: MUS 6/78214.

MUS 68294/78294
COLLEGE TEACHING OF MUSIC (3)
Study of administrative structure, faculty role, pedagogy, content and evaluation relating to the college music curriculum. Prerequisite: Special approval.

MUS 68598
RESEARCH (1-15)
Research or individual investigation for master’s-level graduate students. IP permissible.

MUS 68687
RECITAL (1-3)
Required of all performance majors and music education majors who choose performance option. S/U grading. Prerequisite: Special approval.

MUS 68698
ESSAY (1-3)
Required of performance majors and music education majors who choose the recital and essay option. S/U grading; IP permissible.
MUS 71121  
**EVOLUTION OF MUSIC THEORY** (3)
A systematic study of significant theoretical speculation as proposed in the writings of Western theorists, ca. 500 to the present.

MUS 71191  
**SEMINAR IN 20TH-CENTURY MUSIC AND TECHNIQUES** (3)
Detailed class analysis of scores using specified styles and techniques; individual projects in areas of particular interest to the student. Repeatable to 6 hours credit.

MUS 71195  
**SPECIAL PROJECTS IN THEORETICAL STUDIES** (3)
Individual and class investigation into specific methods of analysis and their application to music in various styles.

MUS 71241  
**ELECTRONIC MUSIC COMPOSITION** (2-4)
Original composition using tape recorders and analog synthesizers. Repeatable to 8 hours credit.

MUS 72211  
**NOTATION I** (3)
Study and transcription of white mensural notation (ca. 1450-1600) and the various types of keyboard and lute tablatures.

MUS 72212  
**NOTATION II** (3)
Study of the notation of medieval polyphonic music from the earliest forms of organum through end of the 14th century. Prerequisite: MUS 72211.

MUS 72691  
**SEMINAR IN ETHNOMUSICOLOGY** (3)
Specialized topics in ethnomusicology for advanced students.

MUS 73295  
**SPECIAL TOPICS IN MUSIC EDUCATION** (3)
Advanced study in selected topics that will vary from semester to semester depending on needs and interests of students. Repeat registration permitted.

MUS 81196  
**INDIVIDUAL INVESTIGATION IN MUSIC THEORY** (1-6)
Intensive research or readings on selected topic beyond normal course coverage. Repeat registration permitted. S/U grading.

MUS 81211  
**COMPOSITION** (2 OR 4)
Refinement of compositional techniques culminating in large-scale works for media of student's choice. Repeat registration permitted.

MUS 82291  
**SEMINAR IN MUSICOLOGY** (3)
Examination into primary sources, treatises and writings in selected areas in Western music. Topics selected range from medieval period to present. Repeat registration permitted. Prerequisite: MUS 62451 and 72211.

MUS 82396  
**INDIVIDUAL INVESTIGATION IN MUSICOLOGY** (1-6)
Intensive research or readings on selected topic beyond normal course coverage. Repeat registration permitted. S/U grading. Prerequisite: Special approval.

MUS 82696  
**INDIVIDUAL INVESTIGATION IN ETHNOMUSICOCOLOGY** (1-6)
Intensive research or readings on selected topic beyond normal course coverage. Repeat registration permitted. S/U grading. Prerequisite: Special approval.

MUS 83196  
**INDIVIDUAL INVESTIGATION IN MUSIC EDUCATION** (1-6)
Intensive research or readings on selected topic beyond normal course coverage. Repeat registration permitted. S/U grading. Prerequisite: Special approval.

MUS 83211  
**SEMINAR IN TEACHER EDUCATION IN MUSIC** (3)
Investigation of the role of curriculum, accreditation and certification in music teacher education. Procedures related to teaching methods courses and to the student teaching program.

MUS 88199  
**DISSERTATION I** (15)
Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Special approval.

MUS 88299  
**DISSERTATION II** (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: MUS 88199.

MUS 88598  
**RESEARCH** (1-15)
Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. IP permissible.
Blossom Festival School—Music

KBM 50026/70026
ACCOMPANYING PROJECTS (2-4)

KBM 50031/70031
CHAMBER MUSIC (1-4)

KBM 50032/70032
ORCHESTRAL REPERTOIRE AND TECHNIQUE (1)

KBM 50093/70093
VARIABLE TITLE WORKSHOP IN MUSIC (1-4)
Offered for specific professional needs. Emphasis on performance and pedagogical skills. S/U grading. Prerequisite: Permission.

KBM 60042/70042
APPLIED MUSIC—INSTRUMENTAL (1-2)
THEATRE AND DANCE

Cynthia Stillings, Director
141B Music and Speech Center
330-672-2082
cstillin@kent.edu

Yuko Kurahashi, Coordinator of Graduate Studies
1468 Music and Speech Center
330-672-9483
ykurahas@kent.edu

The School of Theatre and Dance offers programs of graduate study leading to the Master of Arts degree or the Master of Fine Arts degree. It also provides graduate coursework in theatre for graduate students in other disciplines of the university when it is required or elected as part of their programs.

The Master of Arts program offers the student advanced work in theatre that will represent mastery of the field in general and of a specific area of theatre as well. In addition, the research writing skills stressed in this track are intended to prepare the student, who so elects, to define and pursue a terminal degree.

The Master of Fine Arts, normally a three-year course of study, is offered in acting and in design/technology (with concentrations in costume design, scenic design, lighting design and in costume technology and technical direction). The acting concentration includes a returning professional’s track in which students can receive credit for professional work previously completed as fulfillment of Kent State University course requirements (substitutions require course enrollment for credit). The M.F.A. is a terminal degree designed for those who intend to pursue a career in the profession as a creative artist or theatre technologist.

The School of Theatre and Dance offers a limited number of graduate assistantships for both full-time Master of Arts and Master of Fine Arts students. Graduate assistantships usually provide a tuition waiver and a stipend and require a minimum of 20 hours of service to the School of Theatre and Dance in the form of instruction, supervision of labs or work in a specific area (management, scene shop, costume shop). Students interested in a graduate assistantship must apply to the School of Theatre and Dance in writing. To be continued on a term-by-term basis, the student must maintain a minimum 3.0 GPA, pass periodic review by the Graduate Studies Committee and (if M.F.A. students) regular performance or portfolio review, and show satisfactory progress toward the degree. Students are notified at the time of these reviews of the awarding or continuation of a graduate assistantship.

An M.A. student may hold an assistantship for a maximum of two academic years (excluding summers) and an M.F.A. student may hold an assistantship for a maximum of three academic years (excluding summers and off-campus internships).

For further information on either the Master of Arts degree or the Master of Fine Arts degree, please contact the School of Theatre and Dance or visit the school’s Web site at http://www.theatre.kent.edu.

Master of Arts

ADMISSION

All Master of Arts applicants for graduate study should comply with the conditions for admission as set forth in the general section of this catalog. Of the three letters of recommendation required in the application for graduate study, at least two should come from former professors or others competent to evaluate research or scholarly writing skills. The application must be accompanied by a brief statement (no more than two double-spaced pages) summarizing the student’s background and career goals. Students are required to submit an example of historical or critical writing (such as a documented research paper). Applicants for the Master of Arts must achieve and submit appropriate scores on the Graduate Record Examination.

Students are expected to have the equivalent of an undergraduate curriculum in theatre consisting of at least 12 semester hours in theatre history and dramatic literature and basic courses in acting, directing, design and technical theatre. An idea of the level of background expected may be derived from the Kent State University undergraduate catalog and from course syllabi in these areas of theatre. Applicants who do not possess the equivalent of this curriculum may be required to complete specified undergraduate coursework for no credit in addition to the master’s degree curricular requirements.

PROGRAM REQUIREMENTS

Curricular advising will be provided by the coordinator of graduate studies or area head prior to first enrollment. Unless they have successfully completed an equivalent course, Master of Arts students must take Introduction to Graduate Study (THEA 61000) during their first semester. Program requirements for the two-year program may be completed via one of the following options, which the student will elect in consultation with an advisor, chosen during the first semester in residence:

• Option 1. Thesis. Requires a minimum of 32 hours of graduate coursework, consisting of THEA 61000, at least five courses from among our graduate offerings in theatre history, drama, theory and criticism (to include THEA 51110, 51133, 51134, 61110 and 61111), courses in other departments that support and enrich the area of specialty, and 6 hours of Thesis I (THEA 61199). Continuous enrollment in Thesis II (THEA 61299), including summer, is required until the thesis is successfully defended (maximum time: six calendar years from first enrollment). A description of the thesis process may be obtained from the school. The thesis is deposited in the college office and archived, and follows regulations described in the College of The Arts Style Guide.
Theatre and Dance

• Option 2. Non-thesis Paper. Requires a minimum of 36 hours of graduate coursework consisting of THEA 61000, at least five courses from among our graduate offerings in theatre history, drama, theory and criticism (to include THEA 51133, 51134, 61001, 61110 and 61111), courses in other departments that support and enrich the area of specialty, 9 hours in a specified research area (at least 3 hours of these courses must be at the 60000 level), and 3 hours of Research (THEA 61098). A description of the non-thesis paper process may be obtained from the school.

Master of Fine Arts

ADMISSION

All Master of Fine Arts applicants for graduate study should comply with the conditions for admission as set forth in the general section of this bulletin and in the application form. Applicants whose undergraduate grade point average is below 3.0 are not normally accepted for graduate study. Those seeking exception to this rule must submit scores on the Graduate Record Examination and other evidence of high academic potential. Of the three letters of recommendation required in the application for graduate study, at least two should come from former professors or others competent to evaluate productions and academic skills.

In addition to meeting the general university requirements for admission to graduate study, the applicant must meet one of the following two requirements in undergraduate preparation: a baccalaureate degree in theatre that includes a core curriculum consisting of 12 semester hours in theatre history and dramatic literature, plus basic courses in acting, directing, technical theatre and design; or a baccalaureate degree in a discipline other than theatre, when there is a record of equivalent professional training or experience in theatre, or demonstrable potential for work at the Master of Fine Arts level in theatre.

Applicants to the Master of Fine Arts program are required to submit a resume of all theatrical experience and a brief statement — no more than two double-spaced pages — summarizing background and career goals.

Admission to the Master of Fine Arts concentrations in design/technology or acting requires an audition or portfolio review with the graduate faculty in the area of concentration. On-campus interviews, auditions and portfolio reviews are by appointment only and are scheduled each semester, typically during the November or March preceding the first enrollment for a fall semester. M.F.A. classes are admitted once every three years, beginning with the fall of 2003. Students may also schedule an appointment at conferences and conventions where graduate faculty are in attendance. During the first and second years of study, students are regularly reviewed by the graduate faculty in their area of concentration (design/technology faculty or acting faculty) and advised of the outcome of those reviews. Reviews concern whether the student will be allowed to continue in the program and may involve warning, probation or dismissal, as well as retention. Design/technology students must present a portfolio of their work for these reviews and acting students the performance of a significant role. All students are expected to be able to demonstrate significant contributions to the productions of the School of Theatre and Dance.

PROGRAM REQUIREMENTS

The Master of Fine Arts program is an intensive, three-year, professional training program requiring the completion of 60-73 hours of graduate credit depending on the area of concentration. All M.F.A. students are required to take THEA 61000 during their first semester in the program, the graduate core courses THEA 61110 and THEA 61111, 6 hours of Graduate Practicum in their area of concentration (design/technology or acting), THEA 60992, 61992 and 60199-M.F.A. Thesis Project (Design/Tech) or THEA 61309-M.F.A. Comprehensive Project in Acting. Each student will be provided a graduate faculty advisor from his/her area of concentration to assure that curricular requirements in the area of specialty are met. THEA 60992 and THEA 61992 may be completed in one of three ways (all require the advisor’s approval): (1) an internship with the Porthouse Theatre Company and an internship with another professional theatre company; or (2) internships with two professional theatre companies; or (3) two internships with the Porthouse Theatre Company.

All internships require an exit document by the on-site supervisor summarizing the duties performed, skill level attained and quality of the student’s internship work. Where possible, internships should be undertaken during the summer. Absence on internship during a semester requires prior approval by the Graduate Studies Committee.

M.F.A. students are required to remain in residence for the three years needed to complete the program (excluding, if
appropriate, the internship). At a minimum, acting students must audition for all main stage productions and accept the roles assigned to them, and design/technology students must complete one production assignment and work on one other production per semester. Students may not undertake any work outside the School of Theatre and Dance without petitioning the appropriate area faculty and receiving written permission prior to auditioning/interviewing. (Returning professionals in acting are exempt from this requirement but need to keep the school advised of absences.)

Students in the Master of Fine Arts program must successfully complete a Comprehensive Project (Performance) or M.F.A. Thesis Project (Production) as to demonstrate mastery of skills and artistry commensurate with entrance into the profession. The scope of the project will be determined and reviewed by the area of specialty and may be fulfilled within the School of Theatre and Dance, through Porthouse and/or professional production assignments. The Comprehensive Project will consist of performance or exhibition of work, documentation of that work in a format appropriate for each area and project, and an exit interview.

### M.F.A. Thesis Project
### M.F.A. Comprehensive Project

**Design/Technology**

Students in design/technology begin the M.F.A. thesis project by presenting a two-page proposal to the advisor requesting that a specific design or project be accepted as the thesis project topic, and identifying a thesis project committee, consisting of a minimum of three graduate faculty, including the student’s academic advisor. When deemed in submissible form, the advisor will present the proposed topic to the graduate faculty in the area of concentration. When approved by the graduate faculty in the area, the advisor will submit the proposal to the graduate coordinator for circulation to the Graduate Studies Committee and will present the thesis project topic to them as scheduled. The approval of this committee shall be final and a Notification of Approved M.F.A. Thesis Project Topic form will be filed with the school and the college. The student may then enroll in THEA 60199 for the semester in which the project will be undertaken.

As soon as the thesis project has been completed, the student will prepare and submit the thesis project paper or components to the advisor in accordance with regulations specified in the school’s description of the M.F.A. Thesis Project Paper (available from the coordinator of graduate studies) and in the College Style Guide. When both are satisfied, the paper will be circulated to the members of the student’s thesis project committee. When the committee deems the work is in appropriate form, it will be made available to members of the graduate faculty in the school and presented at a public meeting. Upon successful completion of these procedures, the Report of Completion of M.F.A. Thesis Project will be signed and the thesis project placed in the student’s file and deposited in the college office.

**Acting**

Students in acting begin the comprehensive project during the second semester of study by identifying a graduate faculty advisor in the acting area. Each of the three roles in which the student is cast (from this point to the conclusion of the project) is presented to the area with the student’s rationale that the role is challenging, significant and relevant to serve as part of the comprehensive project. The student will register for THEA 61309 M.F.A. Comprehensive Project for each role approved. The process is then documented in a format appropriate for the project and presented by the faculty advisor. After each role, the student will meet with the acting area for assessment and evaluation. Upon completion of the third role, the student will compile all appropriate documentation and create a comprehensive project summary to be approved by the acting area. After approval, the comprehensive project summary will be presented to the Graduate Studies Committee. The approval of this committee shall be final and the project summary shall be housed in the school office.

Students in the returning professional track in acting focus upon one task for the M.F.A. comprehensive project, approved according to the topic proposal and specified area of research and creativity. The returning professional project completion process follows the process outlined above. The advisor will clarify what documentation is appropriate for each project.
Theatre and Dance

Courses

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

Kent Blossom Theatre (KBT)

KBT 60199
M.F.A. THESIS PROJECT (3)
Students must register for course during the semester of their MFA thesis project. Not repeatable. Prerequisite: Special approval of adviser.

KBT 60992
PROFESSIONAL THEATRE INTERNSHIP I (1 OR 6)

KBT 61096
INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA (1-4)
Independent study of an area or problem approved by division coordinator, in consultation with project director. Repeatable. IP permissible. Prerequisite: Permission. Cross-listed with THEA 61096.

KBT 61992
PROFESSIONAL THEATRE INTERNSHIP II (1 OR 6)

KBT 62092
PRACTICUM: DESIGN/TECHNOLOGY (3)
Practical experience for the graduate student in theatre design and technology under faculty supervision. S/U grading; IP permissible.

KBT 62192
PRACTICUM: PERFORMANCE (3)

KBT 62992/72992
THEATRE PRODUCTION INTERNSHIP (1-6)

Theatre (THEA)

THEA 51026
PLAYWRITING (3)
Principles underlying playwriting for the contemporary theatre; analysis of short play form. May be repeated once. Prerequisite: Permission of instructor.

THEA 51027
ADVANCED PLAYWRITING (3)
Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition. May be repeated once. Prerequisite: THEA 51026 and permission of instructor.

THEA 51093
VARIABLE TITLE WORKSHOP IN THEATRE (1-6)
Variable topic offered as need arises to train in particular area of field. Specific topics will be announced in Schedule of Classes. S/U grading.

THEA 51095/61095
SPECIAL TOPICS (1-3)
Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled. Repeat registration permitted.

THEA 51110
THEATRE RESEARCH AND CRITICISM (3)
Introduction to theatre criticism, development of aesthetic theory and training, critical theory and fundamental research strategies through analytical reading and written responses to dramatic texts, scholarly works, and professional theatre productions in the region. Research papers incorporating various theories will be required.

THEA 51113
THEATRE IN A MULTICULTURAL AMERICA (3)
A study of theatre and drama in the Native American, Hispanic American, African-American communities in the United States from 1980 to the present.

THEA 51114
GAY AND LESBIAN THEATRE (3)
Studies in how the gay and lesbian community has been represented in theatre. Frameworks will include the history of the community, political issues, identity questions and gender theory.

THEA 51133
THEATRE AND DRAMA IN AMERICA I (3)
History of theatre and drama in America from the beginning to ca. 1900. Prerequisite: Instructor's permission.
THEA 51134
THEATRE AND DRAMA IN AMERICA II (3)
History of the theatre and drama in America from ca. 1900 to the present. Prerequisite: Instructor's permission.

THEA 51191
VARIABLE CONTENT SEMINAR: THEATRE HISTORY/LITERATURE/THEORY (3)
Seminar focuses on selected topics in these areas, for example, performance art, performance theory or theatre in a multicultural society.

THEA 51303
ACTING I: FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV (3)
The Stanislavski and Michael Chekhov Techniques: A thorough exploration of Stanislavski's Method of Physical Action, and the internalization of Michael Chekhov's technique including: atmosphere, psychological gesture, and qualities of movement. Taught in the same semester as THEA 41304. Prerequisite: Special approval.

THEA 51304
ACTING II: SCENE STUDY-MODERN AMERICAN REALISM (3)
The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others. Prerequisite: THEA 51303 and special approval of instructor.

THEA 51305
PROFESSIONAL ASPECTS: PERFORMANCE (3)
A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered: pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects. Prerequisite: Permission of instructor.

THEA 51306
PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY (3)
A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized. Special course fee $8.00 per credit hour (subject to change).

THEA 51401
ADVANCED DIRECTING (3)
Advanced work in directing for the theatre. Topics include director as creative/interpretative artist; the director and the actor. Students direct individual projects. Prerequisite: Special approval of instructor.

THEA 51521
ADVANCED LIGHTING TECHNOLOGY (3)
Advanced study of the technologies used in lighting designs; instrument design, optics, dimmer control systems, projection techniques and special effects. Special fee: $30 per semester.

THEA 51522
DESIGN STUDIO: LIGHTING (3)
Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems. Special fee: $30 per semester. Prerequisite: Special approval.

THEA 51523
SOUND DESIGN AND TECHNOLOGY I (3)
Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment: mixing consoles, amplifiers, speakers. Prerequisite: Special approval.

THEA 51524
DESIGN STUDIO: COSTUME (3)
Advanced study in costume design. Genres, styles, in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer/shop personnel and designer/director. Prerequisite: Special approval. Special fee: $45 per semester (subject to change).

THEA 51525
PROPS AND CRAFTS (3)
Examination of the processes related to the creation and procurement of scenic and costume props. Special fee: $50 per semester.

THEA 51527
SOUND AND DESIGN TECHNOLOGY II (3)
Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored. Additional work required for graduate credit. Prerequisite: THEA 51523 and special approval.

THEA 51528
THEATRE SOUND REINFORCEMENT (3)
Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real-time digital procession of audio. Extra work required for graduate credit. Prerequisite: Permission.

THEA 51529
ADVANCED WIG AND MAKEUP TECHNIQUES — STAGE AND SCREEN (3)
Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required. Prerequisite: Special approval. Special fee: $45 per semester.
THEA 51530
AUTOMATED STAGE LIGHTING PROGRAMMING (3)
Studies in the application of automated lighting techniques to live performance emphasizing artistic style and concept through a range of programming problems. Prerequisite: Special approval.

THEA 51560
THEATRE FABRICATION TECHNOLOGY (3)
History of technical production practice, materials theory and application in scenic construction technology. Special fee: $80 per semester.

THEA 51620
HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (3)
A survey of visual styles as related to historical and contemporary culture from antiquity through the 20th century with an emphasis on their application to theatrical design.

THEA 51621
PRESENTATION MEDIA (3)
Advanced process techniques in rendering, model building and design presentation for the scenic, costume and lighting designer in traditional and new media. Special fee: $45 per semester.

THEA 51622
DESIGN STUDIO: SCENERY (3)
Advanced study in scenic design. Explores genres, styles, performance spaces, including practical considerations. Prerequisite: Special approval. Special fee: $50 per semester.

THEA 51623
TELEVISION PRODUCTION: LIGHTING (3)
Studies in the process and application of designing lighting for studio and event-based television production. Prerequisite: Special approval.

THEA 51701
MOVEMENT, FORM AND SPACE I-THE ACTOR’S PHYSICAL INSTRUMENT (3)
Development of technical skills emphasizing the physical components of expressive action through integration of breath, voice and body conditioning. Prerequisite: Special approval.

THEA 51726
THEATRE MANAGEMENT (3)
Principles and practices of managing theatrical producing organizations. Problems of finance, personnel policy, program building and public relations. Production participation as assigned.

THEA 51736
PRODUCTION AND STAGE MANAGEMENT (3)
Detailed investigation of the methodology used in stage managing a professional theatrical production including paperwork, rehearsals and calling a show.

THEA 51801
VOICE AND SPEECH I: THE ACTOR’S INSTRUMENT (3)
The use of exercise and specific text work to explore centering as it relates to the vocal, physical and emotional process of the actor. Focus on extremes of emotional sounds and eliminating barriers and detrimental vocal habits/speech patterns. Prerequisite: Special approval.

THEA 51808
ACTING STYLES I: SHAKESPEARE (3)
The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies, and scenes from Shakespeare. Prerequisite: Special approval.

THEA 57163
HISTORY OF DANCE AS A THEATRICAL PHENOMENON II (3)
History of the development of concert and theatrical dance forms from 1900.

THEA 57174
PRINCIPLES OF DANCE COMPOSITION I (3)
Movement exploration with emphasis on the concepts of design structure and form. Prerequisite: Permission.

THEA 60096
INDIVIDUAL INVESTIGATION — COSTUME HISTORY (2)
The study of 20th-century costume and international dress. Prerequisite: Permission.

THEA 60196
INDIVIDUAL INVESTIGATION — HISTORIC TEXTILES (3)
Identification and analysis of textile fabric as the reflection of culture.

THEA 60199
M.F.A. THESIS PROJECT (3)
Students must register for course during the semester of their M.F.A. thesis project. Not repeatable. S/U grading; IP permissible. Prerequisite: Permission of advisor.

THEA 60992
PROFESSIONAL THEATRE INTERNSHIP I (3-6)
THEA 61000
INTRODUCTION TO GRADUATE STUDY IN THEATRE (3)
Orientation to bibliography and research in the field of theatre with emphasis on application of research to performance.

THEA 61094
COLLEGE TEACHING IN THEATRE (3)
Strategies for teaching, issues on implications of pedagogical practice, and responsibilities of academic leadership.

THEA 61095
SPECIAL TOPICS (1-3)
Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled. Repeated registration permitted.

THEA 61096
INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA (1-4)
Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director. Repeatable for maximum of 6 credit hours. IP permissible. Prerequisite: Permission. Cross-listed with KBT 61096.

THEA 61098
RESEARCH (1-15)
Research or individual investigation for master’s-level graduate students. Credits may be applied toward meeting degree requirements if school approves. Repeat registration permitted. S/U grading; IP permissible.

THEA 61100
HISTORY OF THEORIES OF ACTING AND SPACE I (3)
History of theories of acting and space in the theatre from the beginning to ca. 1850.

THEA 61110
HISTORY OF THEORIES OF ACTING AND SPACE II (3)
History of theories of acting and space in the theatre.

THEA 61111
HISTORY OF THEORIES OF ACTING AND SPACE III (3)
The development of theatre in the Greek and Roman world is examined in its historical and aesthetic contexts.

THEA 61112
THEATRE HISTORY AND THEORY I (4)
The development of theatre in the Medieval and Renaissance periods is examined in its historical and aesthetic contexts.

THEA 61113
THEATRE HISTORY AND THEORY II (4)
The development of theatre in the 17th and 18th centuries is examined in its historical and aesthetic contexts.

THEA 61114
THEATRE HISTORY AND THEORY III (4)
The development of theatre in the period of Romanticism is examined in its historical and aesthetic contexts.

THEA 61115
THEATRE HISTORY AND THEORY IV (4)
The development of theatre in the period of Romanticism is examined in its historical and aesthetic contexts.

THEA 61116
THEATRE HISTORY AND THEORY V (4)
The development of theatre in the late-19th and early-20th centuries examined in its historical and aesthetic contexts.

THEA 61117
THEATRE HISTORY AND THEORY VI (4)
The development of theatre in the later-20th century examined in its historical and aesthetic contexts.

THEA 61191
SEMINAR: THEATRE HISTORY AND THEORY (3)
An investigation of a period, historical/theoretical development, playwright/practitioner/theorist (variable topics).

THEA 61199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: THEA 61199.

THEA 61201
SOFTWARE APPLICATIONS (3)
A survey of current software used in theatre production with an emphasis on applications for management, design and technical direction. Prerequisite: Permission. Special fee: $45 per semester.

THEA 61299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: THEA 61199.

THEA 61303
ACTING III SCENE STUDY: NATURALISM AND ABSURD (3)
In-depth scene study in the genres of Naturalism and Absurd theatre. Exploration of the works of Chekhov, Strindberg, Beckett and others. Prerequisite: Special approval of instructor.

THEA 61305
ACTING STYLES II: GREEK AND COMEDY OF MANNERS (3)
Application of acting, movement, and speech techniques to these specific genres. Focus on style and physicalization using Greek and English Restoration playwrights as well as Moliere, Wilde and others.

THEA 61309
MASTER OF FINE ARTS COMPREHENSIVE PROJECT IN ACTING (1-3)
Intensive work in the development of the practical aspects of production; includes performance or exhibition of work, documentation of that work in a format appropriate for area and project, and an exit interview. Prerequisite: THEA 61000.
THEA 61391
SEMINAR: PLAYWRITING (3)
Intensive analysis of dramaturgical theory. Scope of the inquiry dependent upon individual interests of those enrolled. Prerequisite: Permission.

THEA 61401
DIRECTING: PRODUCTION STYLE (3)
How plays “make” their meanings. Analysis of form and theatrical style for director and dramaturge. Prerequisite: Permission of instructor.

THEA 61402
DIRECTING: TEXT, SPACE AND ACTOR (4)
The director’s relationship to playtext, theatrical world and the human actor. Theoretical exploration and practical experience. Prerequisite: Special approval.

THEA 61491
SEMINAR: DIRECTING AND ACTING (3)
Intensive theoretical and practical study of a great actor or director, a school of acting or directing, or stylistic approach; variable topics. Repeatable once. Prerequisite: Special approval.

THEA 61497
PRODUCTION COLLOQUIUM (1-3)
Collegial exploration of the intersections among creative and scholarly/critical/theoretical thinking. Students involved in the colloquium may be pursuing current creative projects under faculty supervision. Does not count toward degree. Prerequisite: Special approval.

THEA 61521
ADVANCED THEATRE DRAFTING (3)
Advanced drafting techniques for the technical director, scenic designer and lighting designer. Includes film, television, industrial and engineering graphic techniques. Prerequisite: Permission. Special fee: $25 per semester.

THEA 61522
ADVANCED STUDIES IN LIGHTING DESIGN (3)
Detailed exploration of the skills of designing lighting with emphasis on theatre, opera, ballet, alternative venues and professional standards. Special fee: $30 per semester.

THEA 61524
ADVANCED STUDIES IN COSTUME DESIGN FOR STAGE AND SCREEN (3)
Detailed exploration of skills in designing costumes for stage and screen. Emphasis on concept work, stylist work, accuracy in research, organizational skills and industry standards. Prerequisite: THEA 51524. Special fee: $30 per semester.

THEA 61525
MILLINERY AND 3-D CHARACTERS (3)
Advanced studies of techniques of millinery construction and 3-D character construction with an emphasis on current practice in the industry. Special fee: $80 per semester.

THEA 61527
SHOP MANAGEMENT (3)
Study of resource management for the professional shop. Topics: Business planning, labor relations, accounting, budgeting and productivity techniques. Prerequisite: Special approval.

THEA 61561
ADVANCED CONSTRUCTION THEORY (3)
The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop. Prerequisite: Special approval. Special fee: $30 per semester.

THEA 61621
ADVANCED STUDIES IN SCENE PAINTING (3)
Advanced study of the techniques used in painting scenery for theatre and television. Emphasizes professional standards and the practical application of skills. Prerequisite: Special approval.

THEA 61622
ADVANCED STUDY: SCENERY FOR STAGE AND SCREEN (3)
Detailed exploration of the skills of designing scenery with emphasis on theatre, opera, ballet, film, television and alternative venues and the professional standards associated with each area. Prerequisite: Special approval. Special fee: $50 per semester.

THEA 61701
MOVEMENT, FORM AND SPACE II: NEUTRAL AND CHARACTER MASK (3)
Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through performance in masks. Prerequisite: THEA 51701.

THEA 61702
MUSICAL THEATRE STYLES (3)
The study of diverse styles of choreography for the actor performing in Musical Theatre.

THEA 61801
VOICE AND SPEECH II: VOCAL DEMANDS AND DIALECTS (3)
Voice principles will be covered in depth and detail, with emphasis on their application to dialects, singing and media voice work.

THEA 61802
VOICE/SPEECH III: THE ACTOR/SINGER (3)
Training in methods and skills necessary for the singing actor. Focus on the integration and physicalization of lyrics and music. Prerequisite: THEA 51801.

THEA 61806
SINGING FOR THE ACTOR (1)
A comprehensive study of performance techniques and repertoire appropriate to the singing actor. Prerequisite: THEA 51801.
THEA 61992
PROFESSIONAL THEATRE INTERNSHIP II (3 OR 6)

THEA 62092
PRACTICUM: DESIGN/TECHNOLOGY (3)
Practical experience for the graduate student in theatre design and technology under faculty supervision. S/U grading; IP permissible.

THEA 62192
PRACTICUM: PERFORMANCE (3)
Practical experience for the graduate student in theatre performance under faculty supervision. S/U grading; IP permissible. Repeat registration permitted. Cross-listed with KBT 62192.

THEA 62292
THEATRE MANAGEMENT (3)
Practical experience in theatre management under faculty supervision. S/U grading; IP permissible. Repeatable for a total of 12 hours. Prerequisite: Special approval.

THEA 62792
PRODUCTION DRAMATURGY (3)
Under faculty supervision, a student will serve as dramaturg to a School of Theatre and Dance production. Repeat registration permitted.

THEA 62892
THEATRE PRACTICUM (1)
Practical experience for the graduate student in cocurricular theatre activities, under faculty supervision. Repeatable twice. S/U grading; IP permissible. Prerequisite: Special approval.

THEA 62992
THEATRE PRODUCTION INTERNSHIP (1-6)
Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble. Repeatable for a maximum of 12 hours. Prerequisite: Special approval. Cross-listed with KBT 62992.

THEA 72992
THEATRE PRODUCTION INTERNSHIP (1-6)
Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble. Repeatable for a maximum of 12 hours. Prerequisite: Special approval of adviser.

THEA 67070
PRINCIPLES OF DANCE COMPOSITION II (3)
Movement exploration with emphasis on the development of advanced choreographic techniques. Prerequisite: Permission.
Master’s Programs

Master’s degree programs are available in 21 disciplines and interdisciplinary areas with 46 different majors and include the degrees of Master of Arts, Master of Fine Arts, Master of Liberal Studies, Master of Public Administration and Master of Science:

- Anthropology (M.A.)
- Biological Sciences (M.A., M.S.)
- Biomedical Sciences (M.S.)
- Chemical Physics (M.S.)
- Chemistry (M.A., M.S.)
- Computer Science (M.A., M.S.)
- Creative Writing (M.F.A.)
- English (M.A.)
- Geography (M.A.)
- Geology (M.S.)
- History (M.A.)
- Justice Studies (M.A.)
- Liberal Studies (L.S.M.)
- Mathematics (M.A., M.S.)
- Modern and Classical Language Studies (M.A.)
- Philosophy (M.A.)
- Physics (M.A., M.S.)
- Political Science (M.A.)
- Psychology (M.A.)
- Public Administration (M.P.A.)
- Sociology (M.A.)

Doctor of Philosophy

The Doctor of Philosophy (Ph.D.) degree is offered in 15 disciplines with 31 different majors:

- Biological Sciences
- Biomedical Sciences
- Chemical Physics
- Chemistry
- Computer Science
- English
- Geography
- Geology
- History
- Mathematics
- Modern and Classical Language Studies
- Physics
- Political Science
- Psychology
- Sociology
Anthropology

ANTHROPOLOGY

Richard S. Meindl, Chair
226 Lowry Hall
330-672-7998
rmeindl@kent.edu

Mark F. Seeman, Coordinator of Graduate Studies
215 Lowry Hall
330-672-2705
mseeman@kent.edu

Anthropology is a discipline that has traditionally emphasized cultural relativity and its extensive knowledge base of diverse human behavior. Defined as the systematic study of cultural diversity, the field of sociocultural anthropology trains master's students to make objective observations of human societies in a variety of ecological and economic settings. It addresses the study of kinship, linguistics, religious and symbolic meaning and theories of culture change. Archaeology is a subdiscipline of anthropology that focuses on how past societies survived or faltered depending on their ability to adapt to changing social and environmental circumstances. These anthropologists have the double mandate of investigating the archaeological record as social scientists as well as conserving it for future generations. Archaeologists are field workers and theorists, and their work ranges from specific problems pertaining to prehistoric settings, to working with local communities and amateur regional archaeologists, to providing practical training for master's candidates seeking employment as professionals. The subfield of biological anthropology is general human biology, with an emphasis on human evolution and variation. The analysis of primate behavior, human genetics and adaptability, paleontology, and human and primate anatomy can greatly improve master's students' understanding of themselves and their places in nature. A doctor of philosophy program in biological anthropology is available to graduates of the Master of Arts program and is administered by the School of Biomedical Sciences. For more information, visit the departmental Web site at http://dept.kent.edu/anthropology.

Master of Arts

Candidates for this degree may specialize in any of the three subfields of anthropology described above. The degree program in anthropology conforms to the professional standards recognized by the American Anthropological Association.

ADMISSION REQUIREMENTS

Students must fulfill these requirements for acceptance into the Anthropology Master of Arts program:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum undergraduate grade point average of 3.0 on a 4.0 scale</td>
<td>In exceptional cases, a student with a lower grade point average may be admitted on a conditional basis.</td>
</tr>
<tr>
<td>Goal Statement</td>
<td>Include in statement intent and background information.</td>
</tr>
<tr>
<td>Official Transcript(s)</td>
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<tr>
<td>3 Letters of recommendation from faculty</td>
<td></td>
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<tr>
<td>Submission of scores on the Graduate Record Examination</td>
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<tr>
<td>Full-time enrollment</td>
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<tr>
<td>Fall semester admittance</td>
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</tbody>
</table>

Within the framework of institutional regulations, students with a recognized undergraduate degree, not necessarily in anthropology, may be admitted to the program. Depending upon their backgrounds, students without prior anthropological training may be required to take designated undergraduate courses. These courses will not count for graduate credit. Similarly, most applicants for graduate study are expected to have a basic familiarity with statistics. Lacking such background, the student may be required to take introductory statistics on a noncredit basis. Each student upon admission to the graduate program will be assigned to a faculty advisor on the basis of the specialty that the student has indicated. Aside from the required courses, the student must work out the remainder of his/her schedule with the advisor.

PROGRAM REQUIREMENTS

Students must complete a course of study comprising a minimum of 30 semester hours of graduate credit and 6 hours of thesis work.

The program requires of all graduate students a core of basic graduate courses in the major sub-fields:

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ANTH 68230</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 68430</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 68630</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 68199</td>
<td>6</td>
</tr>
</tbody>
</table>

This series is presented to ensure that graduate students demonstrate scholarly familiarity with the various sub-fields, at least sufficient for them to read intelligently in areas other than their own specialty.

Each student is also urged to select at least one course in either linguistics or statistics. Students should choose this option in consultation with their advisors. A minimum grade of “B” must be attained in each of the required courses: ANTH 68230, 68430 and 68630. Formal final examinations will be administered in each course. Students who score less than a “B” (3.0) in these required courses will be required to pass an appropriate additional examination. This examination will be graded “S” or “U.” Students who
Anthropology

receive a "U" will automatically be dropped from the program. Additionally, students who score less than a "C" (2.0) in any of the required courses cannot subsequently qualify for an M.A. degree in anthropology.

Students will be permitted to present up to 6 semester hours of credit from outside of anthropology. The 6 hours, however, are expected to relate to the course of study being pursued (all cases will be considered on an individual basis, and outside courses must be selected in consultation with the advisor and the coordinator of graduate studies). Students wishing to take statistics or linguistics courses from outside of anthropology may be permitted to do so without those hours counting against their allotted six, in the event that the courses are not available within the department when they are needed.

THESIS

By the end of the first semester of graduate work, students should select two members of the graduate anthropology faculty in addition to their principal advisor to constitute a thesis committee. This committee must approve the thesis before it is submitted to the College of Arts and Sciences. Students should arrange for the appointment of this committee with the graduate coordinator for anthropology.

A completed written thesis must be unanimously approved as a work of professional caliber as to content and form by a thesis committee of three graduate faculty. This thesis will be defended orally by the student. The defense is not to be considered a mere formality. The committee may range beyond the actual content of the thesis to questions about concepts, methods, theories upon which the thesis is based, and about the content of relevant studies included in the bibliography of the thesis.

NON-THESIS OPTION

In cases in which the faculty believe that a student's career would be better served by additional coursework rather than a thesis, 6 semester hours of additional coursework may be substituted for the thesis. The additional courses should compose an intensive investigation within the student's specialty. Permission for using the non-thesis option must be arranged through the graduate coordinator. In the very rare cases where a student is granted permission to use the non-thesis option, special written comprehensive examinations will be required.

Courses (ANTH)

The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites requirements may apply and are listed in this catalog.

ANTH 58093

VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY (1-6)

Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group. S/U grading.

ANTH 58095

SPECIAL TOPICS IN ANTHROPOLOGY (3)

Offered irregularly when unusual resources and/or opportunities permit. Prerequisite: 6 graduate hours toward M.A. in anthropology.

ANTH 58210

CULTURE AND COMMUNICATION (3)

Study of the relationship between language and culture. Covers the basic principles of formal linguistics and their use in anthropology; case studies from the ethnography of speech. Prerequisite: Permission.

ANTH 58212

KINSHIP AND SOCIAL ORGANIZATION (3)

This course employs cross-cultural approaches to the understanding of marriage, family organization, descent and kinship system.

ANTH 58214

POLITICS OF CULTURE (3)

This course will address the way in which culture has been politicized. It will look at issues such as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.

ANTH 58220

CULTURAL ECOLOGY (3)

Analysis of relationships between sociocultural systems and physical/biological environment.

ANTH 58225

ARCHAEOLOGY OF DEATH (3)

From excavations of prehistoric burial mounds to studies of colonial gravestones, the archaeology of death has always occupied a prominent place in anthropological research. The course explores approaches to diverse meanings of life and death.

ANTH 58230

SOCIOCULTURAL CHANGE (3)

Analysis of institutional changes where peoples of different cultures are in sustained contact.
ANTH 58240
THE SYMBOLIC IMPERATIVE (3)
Cultural meanings from the perspective of symbols: objects, persons, relations and acts through which people communicate with each other and perceive order in their cultures. Pre-requisite: Permission.

ANTH 58250
CULTURE AND CURING (3)
Examination of the relationship between cultural beliefs about the nature of reality and the essence of humanity, and causation and alleviation of disease. Prerequisite: Permission.

ANTH 58260
CULTURE CONFLICT (3)
Analyzes structured conflict situations between widely different cultures, both simple and complex, including intertribal conflict, colonial conflict, and problems arising from contact between dominant and subdominant social systems.

ANTH 58270
NATIVE PEOPLES OF NORTH AMERICA (3)
Comparative analysis of North American Indian peoples and cultures with special reference to linguistic groupings, cultural areas and contemporary issues.

ANTH 58291
SEMINAR IN REVOLUTION AND CULTURE CHANGE (3)
The seminar deals with the interrelationship between culture and revolution since antiquity. The main focus is on dramatic and abrupt culture change.

ANTH 58391
SEMINARY IN HISTORY OF ANTHROPOLOGY 1750-1950 (3)
Seminar focusing on the development of anthropology within the intellectual and historical context from the height of the Enlightenment to the close of World War II.

ANTH 58410
STONE AGE ARCHAEOLOGY (3)
Survey of Old World cultural history using archaeological data. Stresses the period from 3 million years ago to 10,000 years ago.

ANTH 58420
ARCHAEOLOGY OF NORTH AMERICA (3)
Survey of major North American and Mexican archaeological sequences with emphasis on interregional relationships.

ANTH 58425
ANCIENT MESOAMERICA (3)
Comparative analysis of Mesoamerican societies from the arrival of the first Americans over 10,000 years ago to European colonization in the 16th century A.D., including major pre-Columbian civilizations.

ANTH 58440
ARCHAEOLOGY OF ANCIENT OHIO (3)
Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000-year period from initial occupation to the beginning of European written history.

ANTH 58450
STATES AND EMPIRES (3)
This course presents a comparative analysis of both Old and New World case histories to explore definitions, causal explanations and organizational parameters associated with prehistoric state and empire-level societies.

ANTH 58692
FIELD WORK IN BIOLOGICAL ANTHROPOLOGY (3)
Can be applied to any bioanth field of study and off-campus activity, ranging from museum work to U.S. and international research projects.

ANTH 58810
HUMAN PALEONTOLOGY (3)
Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.

ANTH 58820
HUMAN MUSCULOSKELETAL SYSTEM (3)
A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy, biomechanics, and estimation of age and sex from isolated bones.

ANTH 58830
HUMAN BEHAVIORAL ECOLOGY AND EVOLUTION (3)
How “unique” is human behavior? Using an evolutionary perspective, we will explore the evolution of human mating systems and parental investment.

ANTH 58835
PRIMATE ECOLOGY AND CONSERVATION (3)
Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes, and human and climatic effects on their long-term survival.

ANTH 58840
NATURAL SELECTION IN PERSPECTIVE (3)
The course provides an in-depth introduction into the theory of natural selection by reading both Darwin’s original work and recent interpretations.

ANTH 68091
RESEARCH SEMINAR IN ANTHROPOLOGICAL THEORY (3)
An opportunity for advanced students to follow up personal theoretical interests based upon a previously established foundation in theory.
ANTH 68093
VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY (1-6)
Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop group. S/U grading. Prerequisite: Permission.

ANTH 68095
SPECIAL TOPICS IN ANTHROPOLOGY (3)
Offered irregularly when unusual resources and/or opportunities permit. Prerequisite: 6 graduate hours toward M.A. in anthropology.

ANTH 68096
INDIVIDUAL INVESTIGATION (1-3)
Readings and/or research supervised by member of graduate faculty. IP permissible. Prerequisite: Permission. Petition form available in the anthropology department office.

ANTH 68098
RESEARCH (1-15)
Research or individual investigation. Repeat registration permitted. IP permissible. Prerequisite: Permission. Petition form available in the anthropology department office. Prerequisite: Special approval.

ANTH 68199
THESIS I (2-6)
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, or distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Special approval.

ANTH 68230
PROBLEMS IN CULTURAL ANTHROPOLOGY (3)
Basic graduate course in cultural anthropology required of all M.A. candidates. Course deals with major topics within this subdiscipline of anthropology. Prerequisite: Special approval.

ANTH 68240
ETHNIC GROUP ANALYSIS: EAST ASIA (3)
Critical analysis of key aspects in traditional East Asian socio-cultural systems that can be related to modern development. Prerequisite: Special approval.

ANTH 68241
ETHNIC GROUP ANALYSIS: PACIFIC ISLANDS (3)
Peoples and characteristics of culture areas of the Pacific Islands, including Polynesia, Melanesia and Micronesia, with analysis of several representative cultures from these areas. Prerequisite: Special approval.

ANTH 68242
ETHNIC GROUP ANALYSIS: NORTH AMERICA (3)
Cross-cultural analysis of native cultures and societies of North America. Prerequisite: Special approval.

ANTH 68299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ANTH 68199.

ANTH 68430
PROBLEMS IN WORLD PREHISTORY (3)
Basic graduate course in prehistoric archaeology required of all M.A. candidates.

ANTH 68612
PRIMATE ANATOMY (5)
Lecture and laboratory dissection of primate cadaveria from major taxonomic groups of the order primates. Emphasis on musculoskeletal and nervous systems. Prerequisite: Special approval.

ANTH 68613
MORPHOLOGICAL ANALYSIS (3)
Application of current taxonomic and genetic theory to the analysis of mammalian structure, with special emphasis on the primate fossil record. Prerequisite: Special approval.

ANTH 68621
PALEODEMOGRAPHY AND OSTEOLOGY (3)
An examination of the methods and theory of the use of prehistoric human remains in the reconstruction of extinct populations. Prerequisite: Special approval.

ANTH 68622
HUMAN POPULATION STRUCTURE AND BIOLOGICAL DEMOGRAPHY (3)
An intensive investigation of the principles of biological demography; includes emphasis on theories of selection and mating structure. Prerequisite: Special approval.

ANTH 68623
HUMAN VARIATION (3)
A detailed anthropological examination of the causes and extent of modern human variability. Prerequisite: Special approval.

ANTH 68624
PRIMATE ETHOLOGY (3)
Detailed examination of the principles of primate ethology, including evolutionary trends in ecology, dominance, locomotion and social behavior. Prerequisite: Special approval.

ANTH 68625
DENTAL ANTHROPOLOGY (3)
Study of the human and primate dentition as it relates to primate and human evolution. Includes general orofacial biology. Prerequisite: Special approval.

ANTH 68626
PRIMATE PALEONTOLOGY (3)
Survey of primate evolution and taxonomy up to the emergence of modern hominids. Prerequisite: Special approval.
ANTH 68630
PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY (3)
A graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates, early man.

ANTH 68637
BIOANTHROPOLOGICAL DATA ANALYSIS I (5)
Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures. (Same course as BMS 78673.)

ANTH 68638
BIOANTHROPOLOGICAL DATA ANALYSIS II (3)
This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple-sample problems and regression methods. It also includes computer application. Prerequisite: ANTH 68637. (Same course as BMS 78638.)
BIOLOGICAL SCIENCES

James Blank, Chair
256 Cunningham Hall
330-672-3613
jblank@kent.edu

Eric Mintz, Coordinator of Graduate Studies
258 Cunningham Hall
330-672-3847
emintz@kent.edu

The Department of Biological Sciences offers graduate courses and research leading to the Master of Arts, Master of Science and Doctor of Philosophy degrees. Areas of study include:

- aquatic ecology
- microbial ecology
- vertebrate ecology
- entomology
- systems ecology
- vertebrate morphology
- molecular biology
- vertebrate physiology
- environmental physiology
- immunology
- mammalian physiology
- physiological zoology
- reproductive physiology
- endocrinology
- plant morphology
- plant taxonomy.

The Ph.D. dissertation research may be conducted in ecology and evolutionary biology, physiology or cell biology. The M.S. degree is offered in the area of biological sciences.

For more information, visit the departmental Web site at http://bioweb.biology.kent.edu.

Master's Degree Programs

The M.A. non-thesis program is open to qualified persons, on a part-time or full-time basis, who have received a teaching certificate or who have an undergraduate degree in biological sciences or related field. The M.S. program is normally open to qualified students who can enroll full time. Students meeting all other requirements may be permitted to enroll on a part-time basis as long as registration is limited to formal courses and seminars. Registration for “Research” and “Thesis” is open only to full-time degree candidates. Completion of the M.S. program requires a minimum of two semesters of full-time residency. There is no curricular language requirement for the master’s degree in the department. A thesis and final oral examination are required of candidates for the M.S. degree. A total of 32 hours is required for the completion of the M.A. and M.S. degrees. Other requirements for the two master’s degrees are listed under the degree requirements in this catalog. Additional information regarding specific requirements is available upon request from the coordinator of graduate studies, Department of Biological Sciences.

Doctoral Program

The Ph.D. program is normally open only to qualified individuals who can enroll as full-time students. Students meeting all other requirements for entry into the doctoral program may be permitted to enroll on a part-time basis as long as registration is limited to formal courses and seminars. Registration for “Research” and “Dissertation” is permitted only of full-time doctoral candidates. The department does not have a curricular language requirement for the Ph.D. degree. Completion of the doctoral program requires a minimum of one year of full-time resident study. Prerequisites for registration in 70000 and 80000 courses include the master's degree or equivalent.

Additional information regarding specific requirements is available, upon request, from the coordinator of graduate studies, Department of Biological Sciences.

GENERAL REQUIREMENTS

The general regulations of the university are followed along with the additional departmental requirements listed below. The general test of the Graduate Record Examination is required for admission into the M.S. and Ph.D. programs.

Admission of a student to the M.S. program normally requires a grade point average of 3.0 (A=4.0) based on all coursework, both graduate and undergraduate, and acceptance of the student by a faculty advisor. Applicants with grade point averages less than 3.0 may be considered for a conditional admission if strong letters of recommendation and high
Graduate Record Examination scores justify that admission. Admission to the M.A. program normally requires a GPA of 2.75 or a teaching certificate.

Admission of a student to the doctoral program normally requires a grade point average of 3.25 in any prior graduate coursework and a 3.0 undergraduate grade point average. In addition, scores on the general test of the Graduate Record Examination should be in the 50th percentile or above for each section.

**Ecology/Evolutionary Biology**

Students interested in pursuing careers in ecology/evolutionary biology may enroll in programs leading to the M.S. or Ph.D. with specialization in fields such as animal behavior, entomology, limnology, microbial ecology, ornithology, systems ecology, systematic and evolutionary biology, environmental physiology, vertebrate ecology, and population and community ecology. The two major areas emphasized in the department are aquatic ecology and systematic/evolutionary biology. Although courses of study are tailored to students’ interests and needs, the programs of all students normally include training in population, community, ecosystems and evolutionary ecology and statistical theory. Because of the interdisciplinary nature of ecology, students are encouraged to take courses in geology, mathematics, chemistry and other disciplines.

The research programs deal with both basic and applied problems. Graduate students, working closely with a faculty advisor, are expected to develop competence in a research area of their choice. Both the planning and the execution of their academic and research program are done in close collaboration with faculty members in related disciplines who serve as a guidance committee.

The student must have a baccalaureate and a strong background in biology and related subjects such as chemistry and math. Deficiencies at the time of admission shall be rectified during the first year of graduate study. Before admission can be completed, a prospective student must be accepted by a faculty member in the ecology program who will serve as adviser.

**Botany**

Graduate study leading to an M.S. degree is offered with research in plant systematics, taxonomy, evolutionary studies, molecular biology, ecology and genetics. The master’s program provides a broad background in botanical sciences and training in research. Graduate students in botany are encouraged to become familiar with cognate disciplines that will enhance their scholarship and research potential; these include biometry, biochemistry, geology, geography and relevant foreign languages.
Biological Sciences

Cell Biology

The department offers programs that lead to the M.S. and Ph.D. degrees in biological sciences. Through an individualized program of study and research, the student is prepared for career opportunities in teaching and research in academic, governmental and industrial settings. A core series of courses prepares the student with a rigorous foundation in theory, experimental design and technical knowledge of contemporary investigations at the cellular level of organization. Areas of research include studies of membrane structure and function, transport processes, excitation-secretion coupling, immunology, and metabolism in algae, cyanobacteria and tissues of multi-cellular plants and animals. Students, working closely in collaboration with their research advisor, are expected to develop competence in a subdiscipline of their choice. Both the planning and the execution of their program of study is done with faculty members in related disciplines who act as a guidance committee.

The student must have completed a baccalaureate degree in the natural sciences with a minimum of two years of chemistry, one year of calculus, one year of physics and two years of biology including genetics, plant or animal physiology, and morphology. Deficiencies at the time of admission shall be rectified during the first year of graduate study. Before admission can be completed, a prospective student must be accepted by a faculty member in the program who will act as advisor.

Courses (BSCI)

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

Biology

BSCI 50020
BIOLOGY OF AGING (3)
Aging in cells, plants and animals, including humans; maintaining human health during aging; current theories of aging. Lecture 3 hours weekly. Prerequisite: BSCI 20020 and CHEM 10050 and 10052.

BSCI 50142/70142
BIOENERGETICS (3)
Lecture and discussion of respiration and photosynthesis, their origin, development and control in living systems. Concepts are introduced from fundamental principles. Lecture 3 hours weekly. Prerequisite: BSCI 40430.

BSCI 50143/70143
EUKARYOTIC CELL BIOLOGY (3)
Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture 3 hours weekly. Prerequisite: BSCI 40430.

BSCI 50158/70158
MOLECULAR BIOLOGY (3)
Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies. Prerequisite: BSCI 30156.

BSCI 50159/70159
MOLECULAR BIOLOGY LABORATORY (2)
Experience in research methods for studying cellular and molecular processes in plant and animal systems. Laboratory 6 hours weekly. Prerequisite: BSCI 20140; BSCI 40143 or 40158; CHEM 20481 or 30481; CHEM 30475. Special fee: $50 per semester (subject to change).

BSCI 50160/70160
MARINE BIOLOGY (3)
Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture 3 hours weekly. Prerequisite: BSCI 20560.

BSCI 50163/70163
ORGANIC EVOLUTION (3)
Discussion of the history of evolutionary theory, the evidence of evolution, the evolutionary forces and the products of those forces. Lecture 2 hours weekly. Prerequisite: BSCI 30156 plus 4 hours of biology.
BSCI 50164/70164
MOLECULAR SYSTEMATICS AND PHYLOGENETICS (4)
Modern methods used in systematics, DNA sequencing, DNA fingerprinting, phylogenetic analysis and interpretation of character evolution. Lecture 3 hours, laboratory 3 hours weekly. Prerequisite: BSCI 40163.

BSCI 50165/70165
HISTORY OF BIOLOGY (2)
Historical development of biology from antiquity to the present. Lecture 2 hours weekly. Prerequisite: BSCI 10181, 10182 or equivalent.

BSCI 50170/70170
STREAM BIOLOGY (3)
Identification, biology and ecology of stream-inhabiting organisms. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10181 and 10182.

BSCI 50174/70174
IMUNOLOGY (3)
Survey of the mammalian host responses to self and nonself with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lecture 3 hours weekly. Prerequisite: BSCI 30171 and CHEM 10060, 10061 and 10062.

BSCI 50193/70193
VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES (1-6)
Topics to be offered will meet specific needs in the biological sciences. S/U grading. Prerequisite: Permission.

BSCI 50195/70195
SPECIAL TOPICS IN BIOLOGY (1-3)
IP permissible. Prerequisite: Special approval of instructor.

BSCI 50196/70196
INDIVIDUAL INVESTIGATION (1-3)
IP permissible. Prerequisite: Special approval of instructor.

BSCI 60080
EXPERIMENTAL METHODS IN BIOLOGY (2)
The development of hypotheses, principles of experimental design, and methods of gathering and evaluating data. Prerequisite: Special approval of instructor.

BSCI 60100/70100
RADIATION SAFETY (1)
A rigorous basis for the detection and safe handling of unsealed radioisotopic material in research and the effects of radiation on human health is presented. Prerequisite: Special approval of instructor.

BSCI 60144/70144
SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY (1)
Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students. Corequisite: BSCI 5/70143.

BSCI 60191/70191
SEMINAR IN BIOLOGY (1)
Departmental seminar required of all graduate students. S/U grading; IP permissible.

BSCI 60194/70194
COLLEGE TEACHING IN BIOLOGY (1)
Training and experience in college teaching of biology. Maximum of 2 hours applicable toward degree. Repeat registration permitted. Required in all degree programs. S/U grading; IP permissible. Prerequisite: Special approval of instructor.

BSCI 80150
BIOLOGICAL INSTRUMENTATION (2)
Biological instrumentation and techniques. By arrangement. IP permissible. Prerequisite: Special approval of instructor.

Botany

BSCI 50269/70269
BIOLOGY OF THE ALGAE (4)
Morphology, ecology and systematics of freshwater and marine algae. Lecture 3 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10181, 10182, plus 10 hours of biology. Special fee: $28 per semester.

BSCI 50272/70272
PLANT ANATOMY (4)
Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture 2 hours, laboratory 6 hours weekly. Prerequisite: BSCI 10181, 10182 or equivalent.

BSCI 50275/70275
SYSTEMATIC BOTANY (4)
Biosystematics, angiosperm phylogeny, survey of some major families of dicotyledons. Lecture 3 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10181, 10182 or equivalent.

BSCI 50277/70277
MORPHOLOGY OF LOWER PLANTS (4)
Nonvascular plants, emphasizing structure, reproduction, evolution, fossil history, economic, ecological and medical importance. Lecture 3 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10181, 10182 or equivalent.

BSCI 60265/70265
PLANT METABOLISM (3)
An advanced study of absorption, transpiration, translocation, mineral nutrition, photosynthesis, respiration, nitrogen metabolism and other biochemical processes in plant cells. Lecture 3 hours weekly. Prerequisite: BSCI 30267
BSCI 60266/70266
PLANT GROWTH AND DEVELOPMENT (3)
An advanced study of the phytohormones, light, temperature, gravity, etc., and their effect on dormancy, germination, tropisms, cellular expansion, flowering and senescence. Lecture 3 hours weekly. Prerequisite: BSCI 30267.

BSCI 60291/70291
SEMINAR IN BOTANY (1)
Seminar on botanical topics. May be repeated for credit. Credits earned may be applied toward degree if department approves. S/U grading; IP permissible. Prerequisite: Special approval of instructor.

BSCI 80240
ADVANCED TOPICS IN BOTANY (2)
Lectures and/or laboratories in advanced areas of botany. By arrangement. IP permissible. Prerequisite: Special approval of instructor.

BSCI 80241
ADVANCED TOPICS IN BOTANY (3)
Lectures and/or laboratories in advanced areas of botany. By arrangement. IP permissible. Prerequisite: Special approval of instructor.

ECOLOGY

BSCI 50363/70363
MICROBIAL ECOLOGY (3)
Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems. Prerequisite: BSCI 30171, 30360 or equivalent or permission.

BSCI 50364/70364
LIMNOLOGY (4)
Field and laboratory study of the principles of aquatic ecology. Recitation 1 hour, lecture 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 30360 or equivalent. Special fee: $40 per semester.

BSCI 50367/70367
LIMNOLOGICAL TECHNIQUES (2)
Analysis and significance of ecologically important variables and constituents of surface waters. Lecture 1 hour, laboratory 4 weekly. Prerequisite: BSCI 5/70364 or permission.

BSCI 50368/70368
WETLAND ECOLOGY AND MANAGEMENT (4)
Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours, laboratory 3 hours weekly. Special fee $10 per credit hour (subject to change).

BSCI 50369/70369
LAKE MANAGEMENT (3)

BSCI 50372/70372
POPULATIONS, COMMUNITIES AND ECOSYSTEMS (4)
Integrated investigation of population, community and ecosystem ecology from historical and current perspectives. Community and ecosystem views of nutrient dynamics and biodiversity provide a framework for consideration of food web patterns, energy flow, and ecosystem stability and function. Prerequisite: BSCI 30360 or 40163 or equivalent courses.

BSCI 50374/70374
CONSERVATION BIOLOGY (4)
Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life. Lecture 4 hours weekly. Prerequisite: BSCI 30360.

BSCI 60365/80365
EXPERIMENTAL LIMNOLOGY (3)
Methods and selected literature in experimental aquatic ecology will be reviewed. An experiment will be designed and carried out. Lecture-recitation 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 5/70364 or permission.

BSCI 60367/80367
DYNAMICS OF AQUATIC COMMUNITIES (3)
Interpretation and simulation of the structure and dynamics of algal communities within lakes and streams. Discussion of the structure and dynamic interrelationships of the components of aquatic ecosystems. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 4/5/70269 or permission.

BSCI 60370/70370
EVOLOUTIONARY ECOLOGY (2)
An application of the theory of natural selection to the evolution of population and community phenomena. Prerequisite: BSCI 30360 or equivalent.

BSCI 60391/70391
SEMINAR IN ECOLOGY (1)
Seminar on topics in animal and plant ecology. May be repeated for credit. Credits earned may be applied to degree if department approves. S/U grading; IP permissible. Prerequisite: Special approval of instructor.
BSCI 80310
ADVANCED TOPICS IN ECOLOGY (2)
Lectures and/or laboratories in advanced areas in ecology. IP permissible. By arrangement. Prerequisite: Special approval of instructor.

BSCI 80311
ADVANCED TOPICS IN ECOLOGY (3)
Lectures and/or laboratories in advanced areas in ecology. IP permissible. By arrangement. Prerequisite: Special approval of instructor.

Physiology

BSCI 50432/70432
ENDOCRINOLOGY (3)

BSCI 50433/70433
MAMMALIAN PHYSIOLOGY I (3)
The internal environment, metabolism and energy balance, temperature regulation, nervous system and special senses. Lecture 3 hours weekly. Prerequisite: BSCI 40430; 9 hours mathematics or permission; 20 hours chemistry or permission.

BSCI 50434/70434
MAMMALIAN PHYSIOLOGY II (3)
Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture 3 hours weekly. Prerequisite: BSCI 40430; 9 hours mathematics or permission; 20 hours chemistry or permission.

BSCI 50435/70435
REPRODUCTIVE PHYSIOLOGY OF MAMMALS (3)
Current concepts of reproductive processes based on studies with laboratory and domestic animals and man. Lecture 3 hours weekly. Prerequisite: BSCI 40430 and 40432 or permission.

BSCI 50439/70439
ENVIRONMENTAL PHYSIOLOGY (4)
Effects of heat, cold, oxygen, carbon dioxide, pressure, radiant energy, salt and water variations, and other environmental factors on organisms. Lecture 4 hours weekly. Prerequisite: BSCI 10181, 10182; CHEM 10060, 10061 and 10062.

BSCI 50444/70444
MAMMALIAN PHYSIOLOGY LAB I (1)

BSCI 50445/70445
MAMMALIAN PHYSIOLOGY LAB II (1)
Laboratory experimentation emphasizing physiological principles covered in BSCI 5/70434. Corequisite: BSCI 5/70434. Special fee: $40 per semester.

BSCI 60431/70431
NEUROENDOCRINOLOGY (2)
Role of the central nervous system in the regulation of hormonal and vegetative functions; structure function relationships between brain and pituitary with modern views of neuroendocrine regulation. Methods for study of neuroendocrine relationships will be discussed. Prerequisite: BSCI 5/70432.

BSCI 60438/70438
COMPARATIVE PHYSIOLOGY (4)
Comparative physiology of regulatory mechanisms (biochemistry, nervous, hormonal, etc.); such areas as neurophysiology, sensory adaptations, biological rhythms, circulatory systems, movement and locomotion, buoyancy. Prerequisite: BSCI 10181, 10182; CHEM 10060, 60061, 60062, 60063 or equivalent.

BSCI 60440/70440
CELLULAR AND MOLECULAR ENDOCRINOLOGY (3)
Analysis of current hypotheses concerning the mechanisms by which hormones control cellular metabolism and gene expression. Prerequisite: BSCI 4/5/70432.

BSCI 60446
ADVANCED HUMAN PHYSIOLOGY (3)
Physiological mechanisms of human health and disease with emphasis on integrative physiology. Lecture 3 hours weekly. Prerequisite: Permission from department.

BSCI 60461/70461
NEUROCHEMISTRY (2)
Basic biochemistry of the mammalian nervous system, including myelin structure and metabolism, stimulus-secretion coupling, neurotransmitter and eicosanoid metabolism, energy utilization and the biochemistry of nervous disorders. Prerequisite: CHEM 5/70247 or permission.

BSCI 60491/70491
SEMINAR IN PHYSIOLOGY (1)
May be repeated for credit. Credits may be applied toward degree if department approves. S/U grading; IP permissible. Prerequisite: Special approval of instructor.

BSCI 60495/70495
SPECIAL TOPICS IN PHYSIOLOGY (2 OR 3)
Study of problems of current importance. Content dependent on student requirements and on developments in field. IP permissible. Prerequisite: Special approval of instructor.
**Biological Sciences**

**BSCI 80430**  
ADVANCED TOPICS IN PHYSIOLOGY (2)  
Analysis and solution of problems in contemporary physiology. By arrangement. IP permissible. Prerequisite: Special approval of instructor.

**BSCI 80431**  
ADVANCED TOPICS IN PHYSIOLOGY (3)  
Analysis and solution of problems in contemporary physiology. By arrangement. IP permissible. Prerequisite: Special approval of instructor.

**Zoology**

**BSCI 50515/70515**  
ANIMAL BEHAVIOR (3)  
Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

**BSCI 50517/70517**  
HISTOLOGY (3)  
Study of the microscopic and submicroscopic structure of the mammalian body in relation to function. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10181, 10182, plus 4 hours of biology.

**BSCI 50525/70525**  
WILDLIFE RESOURCES (3)  
Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic, economic and environmental values are discussed. Lecture 3 hours weekly. Prerequisite: BSCI 10181 and 10182, plus 4 hours or permission.

**BSCI 50556/70556**  
VERTEBRATE ZOOLOGY (4)  
Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture 3 hours, laboratory and field 3 hours weekly. Prerequisite: BSCI 10181, 10182, plus 4 hours of biology.

**BSCI 60580/70580**  
ADVANCED ENTOMOLOGY (3)  
Advanced studies in taxonomy, ecology, biology, physiology, morphology and control of insects. Prerequisite: BSCI 30580.

**BSCI 60199**  
THESIS I (2-6)  
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Permission.

**BSCI 60299**  
THESIS II (2)  
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: BSCI 60199.

**BSCI 80198**  
RESEARCH (1-15)  
Research or individual investigation for doctoral students who have not yet passed candidacy examination. Repeat registration permitted. S/U grading; IP permissible.

**BSCI 80199**  
DISSERTATION I (15)  
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Special approval.

**BSCI 80299**  
DISSERTATION II (1 OR 15)  
Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: BSCI 80199.
SCHOOL OF BIOMEDICAL SCIENCES

Robert V. Dorman, Director
112 Cunningham Hall
330-672-2263
rdorman@kent.edu

The School of Biomedical Sciences at Kent State University is a multidisciplinary inter-institutional graduate program, and interdepartmental organization that provides opportunities for studies and research in a variety of natural sciences related to medicine. The programs currently available are biological anthropology, cellular and molecular biology, neurosciences, pharmacology and physiology.

Although the Ph.D. and the M.S. degrees are awarded by Kent State University, the School of Biomedical Sciences is consortium-based. It draws its faculty from several departments at Kent State University, the Northeastern Ohio Universities College of Medicine and Pharmacy (NEOUCOMP), The University of Akron, Youngstown State University, and The Cleveland Clinic. Curricular programs are developed by faculty committees responsible for each of the programs. Each draws heavily from current course offerings within a number of different departments. New courses and seminars are created as required to provide integration and correlation of the multidisciplinary offerings. Inquiries concerning the specific options, curricula, requirements and faculty membership and research interests may be addressed to the director of the School of Biomedical Sciences.

For more information, visit the school web site at http://www.kent.edu/biomedical and view the informational video linked to the home page.

ADMISSION

Admission to a particular program will be recommended by the faculty of that program committee based upon a minimum grade point average of 3.0 (undergraduate and graduate) and the attainment of a baccalaureate degree with preparation adequate to perform graduate work in the desired field. This commonly includes two years of chemistry, one year of mathematics, one year of physics and courses in anthropology, biology and psychology as appropriate to the field. Admission with deficiencies may be accorded, but these must be made up during the first two years of graduate study. Graduate Record Examination scores must also be submitted for evaluation. Except where otherwise specified, the M.S. degree may be accorded upon the recommendation of the student's guidance committee and the director of the School of Biomedical Sciences.

The Ph.D. degree is emphasized in these programs and requires the completion of the core program, the M.S. or equivalent, except where otherwise specified, 30 hours of Dissertation I, and the submission of an acceptable dissertation.

A guidance committee will be formed as soon as practicable after the student registers initially, but no later than the end of the second semester of full-time enrollment. This committee will consist of the advisor and two other graduate faculty members of the program committee. The guidance committee will be responsible for establishment of the program of study and for the administration of the candidacy examination.

PROSPECTUS AND NOTIFICATION OF DISSERTATION TOPIC

As soon after completion of the candidacy examination as possible, the dissertation committee will be established consisting of the guidance committee and an outside discipline member — a graduate faculty member from another department at Kent State University or another program committee of the School of Biomedical Sciences. The student will submit to this committee his/her prospectus for the dissertation. The format of the prospectus will parallel that utilized for NIH grant proposals (without biographical, budget and facilities information). The dissertation committee may elect to examine the candidate on the proposal, may accept it as submitted, or may reject it with specific reasons and recommendations for reformulation.

There is a common core of coursework in the School of Biomedical Sciences. It is required of all students in each of the program areas. The School of Biomedical Sciences core consists of the following:

1. BSCI 5/70143 Eukaryotic Cell Biology (3 cr.). Must concurrently enroll in: BSCI 6/70144 Readings in Eukaryotic Cell Biology (1 cr.)
2. General Biochemistry (one of the following): CHEM 5/70247 Principles of Biochemistry (4 cr.) BSCI 5/70142 Bioenergetics (3 cr.)
3. Quantitative Methods and Statistics:
   ANTH 69637/BMS 78637 Analysis of BioAnthropological Data I (5 cr.)
   or
   ANTH 69638/BMS 78638 Analysis of BioAnthropological Data II (3 cr.)
   or
   BSCI 6/70195 ST: Bio Stats I and II
   PSYC 6/71651 Statistical Inference in Psychology (3 cr.)
   Equivalent course approved by director.
4. Seminar (Each program concentration has its own seminar course and enrollment requirements)
5. Professional Development
   BSCI 6/70194 College Teaching in Biology (1 cr.)
School of Biomedical Sciences

Biological Anthropology

This doctoral program includes a strong emphasis on human gross anatomy, which its graduates will be competent to teach. Element in medical, paramedical and zoological contexts. A thorough education in basic mammalian biology is also provided. Areas of concentration in this field of human biology include human paleontology, dental anthropology, human and primate osteology, paleodemography and biodemography, primate anatomy and skeletal biomechanics.

Applicants for this program should hold the M.A. or M.S. degree in anthropology or biological sciences and should have included courses in statistics and computer science in their mathematics preparation. However, a student with an outstanding academic record may receive a waiver of the master’s degree requirement upon completion of 20 hours of graduate work and be admitted directly to doctoral work.

The program of study consists of a core of courses as follows:

- BSCI 5/70163 .................................................3
- BMS 6/78610 .................................................4
- BMS 6/78611 .................................................3
- BMS 78612 ..................................................5
- BMS 78613 ..................................................3
- BMS 78630 ..................................................3
- BMS 78631 ..................................................5
- BMS 78637 ..................................................5
- BMS 78638 ..................................................3
- BMS 78691 ..................................................1

Courses equivalent to those in the core may be submitted with the approval of the program committee. Cognate and elective courses in related departments (anthropology, biological sciences, chemistry, geology and psychology) will be selected and approved by the student’s advisory committee.

Concentration in Molecular Biology and Genetics

CHEM 5/70247 .................................................4

From among the following courses, 3 to 5 credits:

a. BSCI 5/70143 .................................................3
b. BSCI 5/70158 .................................................3
or
CHEM 70252 ..................................................2
c. CHEM 70253 .................................................2
d. CHEM 70254 .................................................2

Methodology courses and electives will be selected from among appropriate courses in the biological sciences, biomedical sciences and chemistry.

Neurosciences

Graduate study in the neurosciences is interdisciplinary involving primarily the graduate Departments of Biological Sciences, Psychology, and Speech Pathology and Audiology at Kent State University and the Departments of Anatomy, Neurobiology and Pharmacology at NEOUCOMP. Completion of a common core of courses in morphology, physiology and the chemistry of the nervous system is required of all students. With the selection of appropriate electives, flexibility is provided to tailor specific training to the needs and interests of particular students. A close working relationship between faculty and students is strongly encouraged, and multidisciplinary approaches to research and theoretical problems are emphasized and modeled through extensive collaborative relationships among the faculty.

The specific core curriculum of this program consists of the following courses:

a. BMS 6/70729 .................................................4
b. BSCI 5/70195 .................................................3
Appropriate electives will be chosen from among courses in biological sciences, biomedical sciences and psychology depending upon the student’s interests and preparation.

**Pharmacology**

Graduate study in pharmacology involves the Departments of Pharmacology, Anatomy, Neurobiology and Physiology at the Northeastern Ohio Universities College of Medicine and the Departments of Biological Sciences, Chemistry and Psychology at Kent State University. Completion of core courses outlined below is required of all students and, through the selection of appropriate electives, flexibility is provided to tailor specific training to the needs and interests of particular students:

- a. BMS 6/70550 & 6/70551..........................3 & 3
- b. BMS 6/70449 & 6/70450..........................4 & 3
- or BSCI 5/70433 & 5/70434..........................3 & 3
- c. PSYC 6/71651 ........................................3
- d. CHEM 5/70247 .......................................4
- or BSCI 5/70142 ........................................3

Electives will be chosen in consultation with the student’s advisory committee appropriate to the field of dissertation research.

**Physiology**

The graduate program in physiology is jointly administered through the Department of Biological Sciences and the School of Biomedical Sciences. The faculty is composed of members drawn from the Department of Biological Sciences and the Applied Physiology Laboratory of Kent State University’s School of Exercise, Leisure and Sport, and the Departments of Physiology, Neurobiology and Anatomy of NEOUCOM. The research emphases in biological sciences are in reproductive physiology and endocrinology and in environmental and comparative physiology. In biomedical sciences the major areas of concentration are cardiopulmonary physiology and exercise physiology. The programs are research-oriented and designed to provide the student with a thorough grounding in physiological principles and techniques as well as opportunities for specialization according to the expertise of the faculty.

The specific course preparation for students entering this program include, in addition to the general requirements outlined below, genetics, biochemistry or cell biology, vertebrate anatomy, and a course in histology, developmental anatomy or embryology.

The requirements for the concentration in reproductive physiology and endocrinology and in environmental and comparative physiology are listed under biological sciences.

The core curricular requirements for the concentrations in cardiopulmonary and exercise physiology are:

- or BSCI 5/70433 & 5/70434..........................3 & 3
- b. CHEM 50245 .........................................4
- or CHEM 5/70247 ........................................4
- c. PSYC 6/71651 & 6/71684..........................3 & 3
- or ELS 63050, 63051, & 6/73052...............3, 3 & 3

Students concentrating in cardiopulmonary physiology will complete two courses from among the following:

- BMS 6/70451 ..............................................2
- BMS 6/70452 ..............................................2
- BMS 6/70729 ..............................................4

Those choosing the exercise physiology option will take:

- ELS 6/75081 ..............................................3
- ELS 6/75082 ..............................................3

Suitable electives related to the student’s dissertation research will be chosen and approved by the advisory committee.

**Courses (BMS)**

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

**Cellular and Molecular Biology**

**BMS 60220/70220**

**HUMAN MICROSCOPIC ANATOMY (5)**

Morphological basis for normal and disturbed functions; structure/function relationships in human microscopic anatomy. Lectures, special laboratory and learning techniques using human tissues. Prerequisite: BSCI 5/70517.

**BMS 60221/70221**

**ULTRASTRUCTURE OF THE CELL (4)**

Functional organization of cells of the ultra-structural level; topographical and cytochemical electron microscopical techniques. Dynamic interactions between cells and their milieu and between organelles in normal and pathological conditions. Prerequisite: Special approval of instructor.

**BMS 60230/70230**

**PRINCIPLES OF ELECTRON MICROSCOPY (4)**

Principles of electron microscopy will be presented with demonstrations of equipment and techniques as applied to biological materials. Prerequisite: Special approval.
BMS 60251/70251
THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING (2)
Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed. Prerequisite: BSCI 5/70158 and CHEM 5/70247, or equivalents.

BMS 60291/70291
SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY (1)
Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: Special approval.

BMS 60295/70295
SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY (2-5)
Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. IP permissible. Prerequisite: Special approval.

BMS 60449/70449
MEDICAL PHYSIOLOGY I (4)
Biophysical and biochemical concepts of integrative organ system physiology in the human: cardiovascular, pulmonary, exercise and temperature regulation physiology. Prerequisite: BSCI 40430 and special approval.

BMS 60450/70450
MEDICAL PHYSIOLOGY II (3)
Biophysical and biochemical concepts of integrative organ system physiology in the human: renal, gastrointestinal and endocrine physiology. Controlled. Prerequisite: BSCI 40430 or equivalent, one year college physics and college chemistry (including organic) and permission.

BMS 60451/70451
MICROCIRCULATION (2)
Theory and practical application of current techniques to evaluate fluid and solute exchange across the microvascular wall. Prerequisite: BSCI 5/70433 and 5/70434 or BMS 6/70449 and 6/70450 and special approval.

BMS 60452/70452
PULMONARY PHYSIOLOGY (2)
Relationship between structure and function of the lung with focus on mechanics, circulation, gas exchange, gas transport, acid/base regulation, regulation, host defense and ventilation-perfusion. Prerequisite: BSCI 5/70433 and 5/70434 or BMS 6/70449 and 6/70450 or equivalent.

BMS 60461/70461
INTEGRATIVE PHYSIOLOGY OF THE CARDIOVASCULAR SYSTEM (2)
Critical analysis of the integrative neurohumoral regulation of the cardiovascular system at rest and during stress. Special emphasis on peripheral and central mechanisms involved in regulation of the circulation. Prerequisite: BSCI 5/70433, 5/70434 or BMS 6/70449, 6/70450 and special approval.

BMS 60491/70491
SEMINAR IN MEDICAL PHYSIOLOGY (1)
Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: Special approval.

BMS 60495/70495
SPECIAL TOPICS IN MEDICAL PHYSIOLOGY (2-5)
Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. IP permissible. Prerequisite: Special approval.

BMS 60550/70550
MEDICAL PHARMACOLOGY I (3)
General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of drugs.

BMS 60551/70551
MEDICAL PHARMACOLOGY II (3)
Continuation of BMS 6/70550. Prerequisite: BMS 6/70550.

BMS 60557/70557
DRUG MECHANISMS IN THE BRAIN (3)
The mechanisms of centrally acting drugs on brain function. The different classes of neuroactive drugs will be considered according to their effects at different levels of central nervous system organization: structure, physiology and biochemistry/molecular biology. Prerequisite: Permission.

BMS 60558/70558
PSYCHOACTIVE DRUGS (3)
The effects of pharmacological agents on the physiology and pathophysiology of the mammalian nervous system. Utilizing both classic and recent literature, basic research findings will be correlated with clinical therapeutics of specific human disease states. Prerequisite: BMS 6/70557.

BMS 60591/70591
SEMINAR IN PHARMACOLOGY (1)
Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: Permission.
BMS 60595/70595
SPECIAL TOPICS IN PHARMACOLOGY (2-5)
Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. IP permissible. Prerequisite: Special approval.

BMS 60596/70596
INDIVIDUAL INVESTIGATION IN PHARMACOLOGY (1-3)
Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs. IP permissible. Prerequisite: Special approval.

BMS 60711/70711
DEVELOPMENTAL AND EVOLUTIONARY NEUROBIOLOGY (3)
Experimental studies of the development and evolution of the vertebrate central nervous system. Prerequisite: BMS 6/70710 and special approval.

BMS 60729/70729
CELL/MOLECULAR NEUROSCIENCE (4)
The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental Neurobiology. Lecture, discussion and laboratory. Prerequisite: BMS 6/70710 and special approval of instructor.

BMS 60791/70791
SEMINAR IN NEUROBIOLOGY (1)
Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: Special approval.

BMS 60795/70795
SPECIAL TOPICS IN NEUROBIOLOGY (2-3)
Study of problems of current importance. Content dependent on student requirements and on developments in field. IP permissible. Prerequisite: Special approval.

Neurosciences

BMS 60711/70711
DEVELOPMENTAL AND EVOLUTIONARY NEUROBIOLOGY (3)
Experimental studies of the development and evolution of the vertebrate central nervous system. Prerequisite: BMS 6/70710 and special approval.

BMS 60729/70729
CELL/MOLECULAR NEUROSCIENCE (4)
The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental Neurobiology. Lecture, discussion and laboratory. Prerequisite: BMS 6/70710 and special approval of instructor.

BMS 60791/70791
SEMINAR IN NEUROBIOLOGY (1)
Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: Special approval.

BMS 60795/70795
SPECIAL TOPICS IN NEUROBIOLOGY (2-3)
Study of problems of current importance. Content dependent on student requirements and on developments in field. IP permissible. Prerequisite: Special approval.

BMS 78612
PRIMATE ANATOMY (5)
Lecture and laboratory dissection of primate cadaver from major taxonomic groups of the order primates. Emphasis on musculoskeletal and nervous systems. Prerequisite: Special approval.

BMS 78613
PLEISTOCENE HOMINID MORPHOLOGY (3)
An intensive examination of fossil hominids of the Plio-Pleistocene. Prerequisite: Special approval.

BMS 78621
PALEODEMOGRAPHY AND OSTEOLOGY (3)
An examination of the methods and theory of the use of prehistoric human remains in the reconstruction of extinct populations. Prerequisite: Special approval.

BMS 78622
HUMAN POPULATION STRUCTURE AND BIOLOGICAL DEMOGRAPHY (3)
An intensive investigation of the principles of biological demography; includes emphasis on theories of selection and mating structure. Prerequisite: Special approval.

BMS 78623
HUMAN VARIATION (3)
A detailed anthropological examination of the causes and extent of modern human variability. Prerequisite: Special approval.

BMS 78624
PRIMATE ETHOLOGY (3)
Detailed examination of the principles of primate ethology, including evolutionary trends in ecology, dominance, locomotion and social behavior. Prerequisite: Special approval.

BMS 78625
DENTAL ANTHROPOLOGY (3)
Study of the human and primate dentition as it relates to primate and human evolution. Includes general orofacial biology. Prerequisite: Special approval.

BMS 78626
PRIMATE PALEONTOLOGY (3)
Survey of primate evolution and taxonomy up to the emergence of modern hominids. Prerequisite: Special approval.

BMS 78630
PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY (3)
Graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates and early man. Prerequisite: Special approval.
School of Biomedical Sciences

BMS 78631
SKELETAL BIOMECHANICS I: STATICS (5)
Fundamentals of statics and their application to biological structures; emphasis on solution of statics problems of increasing difficulty. Applications to bones and joints of primates.

BMS 78632
SKELETAL BIOMECHANICS II: DYNAMICS (3)
Continuation of Biomechanics I. Introduction to kinematics and kinetics with application to human and primate locomotion. Computer analysis of bone strength. Prerequisite: BMS 78631.

BMS 78637
BIOANTHROPOLOGICAL DATA ANALYSIS I (5)
Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.

BMS 78638
BIOANTHROPOLOGICAL DATA ANALYSIS II (3)
This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple-sample problems and regression methods. It also includes computer applications. Prerequisite: BMS 78637.

BMS 78691
SEMINAR IN BIOLOGICAL ANTHROPOLOGY (1)
Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: Special approval.

BMS 78692
FIELD WORK IN PALEOANTHROPOLOGY (1-5)
Excavation and/or field survey of Miocene and/or Plio-Pleistocene hominid localities. Prerequisite: Special approval.

BMS 78695
SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY (2-5)
Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. IP permissible. Prerequisite: Special approval.

Research, Thesis and Dissertation

BMS 60120/70120
LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES (2)
Minimum of two laboratory rotations per semester by arrangement with individual faculty members. May be repeated once. S/U grading. Prerequisite: Permission.

BMS 60194/70194
COLLEGE TEACHING IN BIOMEDICAL SCIENCES (1 OR 2)

BMS 60196/70196
INDIVIDUAL INVESTIGATION (1-3)
Directed investigation under supervision of faculty member in biomedical sciences and with prior approval. May be repeated to maximum of 6 semester hours for letter grade. Excess of 6 hours S/U grading. IP permissible. Prerequisite: Special approval.

BMS 60198
RESEARCH (1-15)
Research for master’s-level graduate students. Credits earned may be applied toward degree requirements if department approves. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: Special approval.

BMS 78691
THESIS I (2-6)
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Special approval.

BMS 78692
FIELD WORK IN PALEOANTHROPOLOGY (1-5)
Excavation and/or field survey of Miocene and/or Plio-Pleistocene hominid localities. Prerequisite: Special approval.

BMS 78695
SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY (2-5)
Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. IP permissible. Prerequisite: Special approval.

BMS 78699
THESIS II (2-6)
Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Special approval.

BMS 80198
RESEARCH (1-15)
Research for doctoral students who have not yet passed candidacy examination. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: Special approval.
BMS 80199  
**DISSERTATION I (15)**  
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Students must successfully complete the doctoral exam before taking this course. S/U grading; IP permissible. Prerequisite: Special approval.

BMS 80299  
**DISSERTATION II (1 OR 15)**  
Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: 30 hours of BMS 80199.

BMS 60240/70240  
**MEDICAL MICROBIOLOGICAL IMMUNOLOGY (5)**  
An in-depth study of eukaryotic and prokaryotic microorganisms, virology and immunology at the biochemical molecular and genetic level and their relationship to disease. Prerequisite: BSCI 30171 and CHEM 50245 or 50247.

BMS 60267/70267  
**MOLECULAR PATHOLOGY (2)**  
Biochemical principles will be applied to explain the mechanism of human diseases in terms of defects in molecular structures and metabolic pathways. Prerequisite: CHEM 50245 or 50247.

BMS 60268/70268  
**MOLECULAR PATHOLOGY II (4)**  
Biochemical principles will be applied to explain the mechanism of human diseases in terms of defects in molecular structures and metabolic pathways. Prerequisite: BMS 6/70267.

BMS 60561/70561  
**NEUROPHARMACOLOGY (3)**  
The effects of various classes of pharmacological agents on the physiology and pathophysiology of the mammalian nervous system via discussion of classical and current literature. Prerequisite: Special approval.

BMS 60710/70710  
**FUNCTIONAL NEUROANATOMY (6)**  
Study of structure and function of mammalian nervous system with emphasis on human brain and human behavior. Five hours of lecture three hours of laboratory and recitation weekly. Prerequisite: Special approval.
The Chemical Physics Interdisciplinary Program offers graduate courses and research leading to the Master of Science and Doctor of Philosophy degrees. The program involves the participation of the departments of Chemistry, Physics, Mathematics and Computer Science, as well as the Liquid Crystal Institute®, and offers concentrations for the master's and doctoral degrees in the following areas:

### Optoelectronics

This area of concentration is designed for the applied physicist, chemist or engineer who desires to study materials for their application in information display and related devices. This unique concentration is designed to take advantage of Kent State University’s role as a leading contributor to this technology, and to prepare students for the rapidly developing display and optoelectronics industry. This concentration includes specialized chemical physics courses on liquid crystal displays including a focus on both fundamental and applied science. Doctoral candidates in this concentration will investigate a research topic of importance in optoelectronics technology. The research topic could be material-oriented, examining some aspect of a material utilized in a display, or device-oriented, examining the physics of operation of the device.

### Physical Properties of Liquid Crystals

This concentration is intended for students with an interest in the physics of liquid crystalline materials, who desire more training in chemistry and materials science than is offered in the Department of Physics. Students in this concentration can be admitted from a number of undergraduate disciplines, including physics, chemistry, materials science, and chemical physics or engineering. They will pursue advanced training, studying the interaction of liquid crystals with fields and surfaces; structural transitions, instabilities, hydrodynamics, coating preparations and rheology; characterization by linear and nonlinear optics, X-rays, NMR, SEM, tunneling electron and atomic force microscopy, and other techniques. The students will take courses designed to give an in-depth understanding of the unique material properties of these phases. The coursework will prepare the students for dissertation projects that investigate physical properties of timely interest and importance in the advancement of our understanding of liquid crystalline materials.

### Liquid Crystal Synthesis and Molecular Design

This concentration is designed for the student interested in organic chemistry. The program offers more training in physics and the science of liquid crystalline materials than is traditionally provided in a graduate program in the Department of Chemistry. This concentration is tailored for students with an undergraduate background in chemistry or chemical engineering who wish to pursue graduate training in molecular design and synthesis of new and innovative liquid crystal materials. Under this program students will take several advanced courses offered in the Department of Chemistry and also courses in the Chemical Physics Interdisciplinary Program designed to improve their understanding of molecular properties important in liquid crystallinity and in the physical characterization of these materials. Dissertation work will involve the design and synthesis of new materials.

### Lyotropic Liquid Crystals and Membranes

This area of concentration is appropriate for science majors who wish to extend their undergraduate education to the science of materials in living systems. This concentration is intended for undergraduate majors in chemistry, physics, chemical engineering and possibly biology, although some preparatory coursework may be required for the latter. In addition to coursework in biochemistry, this program includes such courses as Lyotropic Liquid Crystals, Micellar Systems and Chemistry of Amphiphiles, which give the students an in-depth understanding of lyotropic liquid crystal materials.

### General Chemical Physics

This is a broad interdisciplinary concentration involving chemistry and physics, not focused on liquid crystals, and employing the techniques of theoretical and experimental physics. Applicants must have at least a “B” average in all undergraduate chemistry and physics courses taken for either a physics or chemistry major. Courses required for admission, in addition to introductory chemistry, are basic organic chemistry, introductory physics, intermediate mechanics, electronics and one semester of differential equations. Applicants lacking some of these requirements may enroll (without graduate credit) in the equivalents during their first year at Kent State University. Only students keenly interested in both chemistry and physics should consider entering this program.
GENERAL GUIDELINES OF THE CHEMICAL PHYSICS INTERDISCIPLINARY PROGRAM

The Chemical Physics Interdisciplinary Program follows the general regulations of the College of Arts and Sciences and the Office of Research and Graduate Studies. Together with a faculty advisor, incoming students can determine which concentration will best suit their needs. Exposure to current research and outside speakers is provided through participation in the liquid crystal, chemistry and physics seminar programs. For more information, visit www.lci.kent.edu.

ADMISSION

Because of the interdisciplinary nature of the program, students from a variety of undergraduate disciplines, such as chemistry, physics, chemical physics, materials science and engineering, will be eligible for admission to the Chemical Physics Interdisciplinary Program. Admission will be granted by examination of the student’s background on an individual basis.

PROGRAM REQUIREMENTS

General requirements for the Master of Science degree at Kent State University have been established by the College of Arts and Sciences and the Office of Research and Graduate Studies. The academic requirement for the Master of Science degree is successful completion of courses from the curriculum and the completion of a master's thesis.

A total of 32 credit hours is required for each concentration in the master’s degree program. For each of the five concentrations, students are required to complete 24-27 credit hours of core courses. If any required course is not available, an equivalent course may be substituted with permission of the graduate coordinator.

Candidates for the Master of Science degree must register for CPHY 60199, Thesis I, for a total of 6 credits. The thesis for the Master of Science degree will present and interpret results of original research and must be defended before a committee of the Chemical Physics graduate faculty.

The choice of remaining electives must be approved by the student’s faculty advisor.

OPTOELECTRONICS AND PHYSICAL PROPERTIES OF LIQUID CRYSTALS CONCENTRATIONS

Required Core Courses:
- CHEM 6/70541 ........................................ 3
- CPHY 6/72241 ........................................ 3
- CPHY 6/72242 ........................................ 2
- CPHY 6/72245 ........................................ 3
- CPHY 6/72250 ........................................ 3
- PHY 55201 ............................................. 4
- PHY 55501 ............................................. 3

Required Seminar:
- CPHY 6/74491 (2 enrollments) ..................... 2

LIQUID CRYSTAL SYNTHESIS AND MOLECULAR DESIGN AND LYOTROPIC LIQUID CRYSTALS AND MEMBRANES CONCENTRATIONS

Required Core Courses:
- CHEM 6/70333 ........................................ 3
- CHEM 6/70471 ........................................ 3
- CHEM 6/70472 ........................................ 3
- CHEM 6/70541 ........................................ 3
- CPHY 6/72241 ........................................ 3
- CPHY 6/72242 ........................................ 2
- CPHY 6/72243 ........................................ 3
- CPHY 6/72250 ........................................ 3

Required Seminar:
- CPHY 6/74491 (2 enrollments) ..................... 2

GENERAL CHEMICAL PHYSICS CONCENTRATION

Required Core Courses:
- CHEM 5/70361 ........................................ 2
- CHEM 5/70481 ........................................ 2
- CHEM 6/70541 ........................................ 3
- PHY 6/75101 ........................................ 3
- PHY 6/75401 ........................................ 4
- PHY 6/76402 ........................................ 3

and either
- PHY 55201 ........................................ 4
or
- PHY 6/75203 ........................................ 3

and either
- CHEM 6/70542 ........................................ 3
or
- PHY 6/76161 ........................................ 3
General requirements for the Doctor of Philosophy degree at Kent State University have been established by the College of Arts and Sciences and the Office of Research and Graduate Studies.

**PROGNAM REQUIREMENTS**

For each of the five concentrations, students are required to complete 36 credit hours of core courses and 12 credit hours of electives for the general chemical physics concentration, and 24-27 credit hours of core courses and 30 credit hours of electives for all other concentrations. The choice of electives must be approved by the student’s dissertation advisor. The elective requirements may be waived depending on previously completed coursework. If a required core course is not available, an equivalent course may be substituted with permission of the graduate coordinator.

**COMPUTER LANGUAGE REQUIREMENT**

Every successful candidate for the doctoral degree must satisfy a computer language requirement. This requirement can be satisfied by one of the following: (1) Completion of either Scientific Computing (PHY 35402), Introduction to Computer Science (CS 10061) or Computer Analysis of Experimental Measurements (PHY 5/75403) with a grade of “B” or better. Equivalent coursework from the student’s previous academic records may satisfy this requirement. (2) Since a student may acquire the necessary literacy to fulfill this requirement through use of computers in carrying out dissertation research, the student’s dissertation advisor may certify proficiency for consideration by the program director.

**CANDIDACY**

In addition to satisfying the course and computer language requirements, the student must pass the Chemical Physics Interdisciplinary Program candidacy examination. The examination will cover material in the core courses of the chemical physics program. A student may make two attempts at passing the examination. If the student fails the second attempt, he/she will not be permitted to continue toward the doctoral degree but may complete the requirements for the Master of Science degree. The student’s first attempt at candidacy should come following the first year of study in all concentrations except general chemical physics. In exceptional cases, a student may defer taking the candidacy examination until the beginning of the third year of graduate study.

**PROSPECTUS AND DISSERTATION**

A prospectus of the dissertation research project is required for all Ph.D. candidates. The prospectus is prepared jointly with the student’s dissertation advisor. The prospectus must be approved by the members of the student’s dissertation committee.

A dissertation presenting and interpreting results of original research is required for the Doctor of Philosophy degree. The areas of research are outlined under the various concentrations. Following acceptance of the dissertation by the dissertation committee, the final degree requirement is the satisfactory completion of the final oral exam (defense of dissertation) before a committee of the graduate Chemical Physics faculty.

**OPTOELECTRONICS CONCENTRATION**

Required Core Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CPHY 6/72241</td>
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<td>3</td>
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<td>CPHY 6/72242</td>
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Required Seminar:

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<td>CPHY 6/74491</td>
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**PHYSICAL PROPERTIES OF LIQUID CRYSTALS CONCENTRATIONS**

Required Core Courses:

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**LIQUID CRYSTAL SYNTHESIS AND MOLECULAR DESIGN CONCENTRATION**

Required Core Courses:

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Required Seminar:

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<td>CPHY 6/74491</td>
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LYOTROPIC LIQUID CRYSTALS AND MEMBRANES CONCENTRATION

Required Core Courses:
Either
CHEM 6/70471 ...................................................... 3
and
CHEM 6/70472 ...................................................... 3
or
CPHY 72647 .......................................................... 3
and
CHEM 70571 .......................................................... 2
and
CHEM 70595 ...................................................... 1
CHEM 6/70541 ...................................................... 3
CPHY 6/72241 ...................................................... 3
CPHY 6/72242 ...................................................... 2
CPHY 72245 .......................................................... 3
CPHY 6/72250 ...................................................... 3
CPHY 72335 .......................................................... 3
Required Seminar (4 enrollments):
CPHY 6/74491 ...................................................... 4

CPHY 62241/72241
SOFT MATTER: STRUCTURES, TEXTURES AND DEFECTS (3)
Lecture/laboratory on soft matter systems, such as thermotropic and lyotropic liquid crystals, colloids. Structures, defects and textures of phases with orientational and partial translational order.

CPHY 62242/72242
PHYSICAL METHODS OF MATERIALS CHARACTERIZATION (2)
Basic techniques in characterization using X-ray scattering, neutron scattering, light scattering, NMR, optical microscopy, scanning electron microscopy, transmission electron and tunneling electron microscopy and ellipsometry.

CPHY 62243/72243
LYOTROPIC LIQUID CRYSTALS AND MICELLAR SYSTEMS (3)
Properties of lyotropic liquid crystals, polymer solutions and aqueous solutions of amphiphilic compounds. Self-assembly of amphiphilic compounds, formation and properties of micelles, cylinders, bilayers, vesicles and tubules.

CPHY 62245/72245
PHYSICAL PROPERTIES OF LIQUID CRYSTALS (3)
Evaluation of physical properties of liquid crystals. Combined laboratory and lecture course on techniques for characterizing important properties of liquid crystals. Prerequisite: CPHY 62250 or permission.

CPHY 62250/72250
LIQUID CRYSTAL MATERIALS (3)
Basic statistical physics of liquid crystals, focusing on the effects of orientational order on physical properties. Topics include phase transitions and electric, magnetic and optical response. Prerequisite: B.S. in chemistry or physics.

CPHY 64491/74491
SEMINAR: LIQUID CRYSTALS (1)
Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests. Repeat registration permitted. S/U grading. Prerequisite: Permission.

CPHY 64495/74495
SPECIAL TOPICS IN CHEMICAL PHYSICS (1-3)
Topic to be announced when scheduled. Repeat registration permitted. Prerequisite: Permission.

CPHY 72248
LIQUID CRYSTAL OPTICS AND PHOTONICS (3)
Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechanical effects in liquid crystal elastomers.

CPHY 72249
LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL (1)
Introduction to laboratory data acquisition and instrument control using LabView software.

Courses (CPHY)

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

CPHY 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2-6 hours in a single semester or distributed over two semesters if desired. S/U grading; IP permissible. Prerequisite: Approval of advisor.

CPHY 60299
THESIS II (2)
Thesis students must continually register each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CPHY 60199.

CPHY 60498
RESEARCH (1-15)
Research or individual investigation. Credits earned may be applied toward meeting degree requirements if approved. Repeat registration permitted. Prerequisite: Permission.
Chemical Physics

CPHY 72335
ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS (3)
Lecture/laboratory on ordered systems and materials, including liquid crystals, liquid crystal polymers, guest-host systems and effects, photochemical interactions of anisotropic systems, materials for liquid crystal alignment.

CPHY 72415
FLUID MECHANICS AND RHEOLOGY (3)
Static and dynamic properties of fluids: hydrostatics, Navier Stokes equations, Newtonian fluids, viscosity, anisotropic liquids and rheology of highly viscous fluids. Prerequisite: B.S. in chemistry or physics.

CPHY 72418
DEFECTS IN LIQUID CRYSTAL MATERIALS (3)
Defects in solids and liquid crystals: observation and characterization of defects, elastic properties, defect interactions and movement, and phases with periodic defect structures. Prerequisite: B.S. in chemistry or physics.

CPHY 72461
NONLINEAR OPTICS OF MATERIALS (3)
Fundamentals of nonlinear optics of materials: nonlinear polarization and susceptibilities, optical harmonic generation, sum and difference frequency generation, parametric amplifiers and oscillators, and stimulated scattering. Prerequisite: PHYS 4/55501.

CPHY 72515
CHEMISTRY OF AMPHIPHILES (3)
Multiphase liquid crystal systems: molecular structure and properties of amphiphiles in water with emphasis on thermodynamics of self-assembly, phase properties of micellar, hexagonal and lamellar systems. Prerequisite: Permission.

CPHY 72517
MEMBRANE SPECTROSCOPY (2)
Multiphase liquid crystal systems: spectroscopic techniques to determine structure and molecular dynamics of model and biological membranes with emphasis on magnetic resonance techniques. Prerequisite: Permission.

CPHY 72640
LIQUID CRYSTAL/POLYMER COMPOSITES (3)
Multiphase liquid crystal systems: formation and applications; control of physical and electro-optic properties, liquid crystal configuration and surface alignment. Prerequisite: PHYS 6/78401.

CPHY 72641
LIQUID CRYSTAL SURFACES AND INTERFACES (3)
Surface tension of liquids and solids, surface structure, Wulff constructions, wetting and roughening, and experimental methods in surface studies. Prerequisite: B.S. in chemistry or physics.

CPHY 72643
LIQUID CRYSTAL DISPLAYS (3)
Science of applications of nematic and smectic liquid crystals. Integrates fundamental concepts and modeling of liquid crystals with focus on the design of liquid crystal devices. Prerequisite: CPHY 6/72250.

CPHY 72645
SEMICONDUCTOR DEVICES (3)
Introduction to semiconductor device technology, including principles of operation, integrated circuit fabrication techniques and device applications.

CPHY 72647
STRUCTURED FLUIDS (3)
The basics of fluids having internal structures, such as long range orientational order and/or one and two dimensional positional order. Materials include thermotropic smectic, lamellar lyotropic and columnar liquid crystals. Prerequisite: Special approval.

CPHY 80199
DISSERTATION I (15)
Doctoral dissertation for which registration in at least two semesters is required, first of which will be the semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Special approval.

CPHY 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: Completion of 30 hours of CPHY 80199.

CPHY 80498
RESEARCH (1-15)
Research or individual investigation for doctoral student who has not yet passed candidacy exam. Credit earned may be applied toward degree. Repeat registration permitted. S/U grading; IP permissible.
CHEMISTRY

Michael Tubergen, Acting Chair
214 Williams Hall
330-672-7079
mtuberge@kent.edu

Arne Gericke, Coordinator of Graduate Studies
134 Science Research Lab
330-672-2986
agericke@kent.edu

The Department of Chemistry offers graduate courses and research leading to the Master of Science, Master of Arts and Doctor of Philosophy degrees. Visit the departmental Web site at http://www.kent.edu/chemistry for more information. Detailed requirements for all programs are found at this site under PH.D. PROGRAM in the pdf document,”Regulations for Graduate Degrees in Chemistry.”

ADMISSION
The general regulations of the university are followed along with the additional requirements below. A background of undergraduate courses consisting of one year each in analytical chemistry or biochemistry, organic chemistry, physical chemistry, calculus and physics is expected. A student not having all of the above courses may be accepted for graduate study if ability is shown in other courses. Deficiencies in undergraduate courses can be made up during the first year of graduate study, but no graduate credit will be earned from these courses.

Admission of a student to the doctoral program normally requires at least a 3.0 undergraduate grade point average and a 3.25 grade point average in any prior graduate coursework (if applicable). In addition, a minimum Quantitative Graduate Record Examination (GRE) score of 600 is expected. Although the subject GRE is not required, candidates are encouraged to provide a subject GRE score to strengthen their application.

Applicants with a grade point average less than 3.0 may be considered for conditional admission if strong letters of recommendation and high GRE scores justify that admission.

Master of Science

PROGRAM REQUIREMENTS
Each student must complete a total of 32 semester hours of graduate credit, including research and dissertation. A thesis presenting and interpreting the results of original research is required. The Department of Chemistry considers research to be a fundamental part of the Master’s of Science program. Areas in which research may be carried out are analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry. The thesis must be successfully defended in an oral examination before the student’s advisory committee.

Doctor of Philosophy

PROGRAM REQUIREMENTS
Each student must complete a total of 90 semester hours beyond the bachelor’s degree or 60 hours beyond the master’s degree including research and dissertation. Of these, at least 27 hours must be for graduate credit other than research and dissertation. Required courses include College Teaching of Chemistry (CHEM 70894; 1 hour) and, in the major area, four semester hours of Seminar (CHEM 72191, 72291, 72391, 72491 or 72591) and four semester hours of Problem Solving or Recent Developments courses (CHEM 71191, 70291, 70391, 70491 or 70591). A total of 18 semester hours of graduate chemistry classroom courses are required; one of these courses must be outside the major area.

CANDIDACY
To be admitted to candidacy for the doctoral degree, the student must pass a written examination in the field of specialization, the form and time of the examination being determined by each division (analytical chemistry, biochemistry, inorganic chemistry, organic chemistry or physical chemistry). Those failing this examination may repeat the examination once. After passing the written examination, the student must present a detailed written proposal for his/her dissertation research. The successful oral defense of this proposal and its acceptance by the advisory committee admits the student to candidacy for the Ph.D. degree.

DISSERTATION
The dissertation describes original research. The dissertation topic can be in/between the subdisciplines of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry. The written dissertation is reviewed and approved by the research advisor and the advisory committee prior to scheduling the final oral examination.
Chemistry

Courses (CHEM)

Graduate students in chemistry may not use the following courses to fulfill degree requirements:

CHEM 50000/70000
CHEMICAL INFORMATION (2)
Access to chemical documents using indexes, formulating search strategies, citation mapping and manipulation of computer files are treated via lectures, readings and library problems. Prerequisite: CHEM 30482

CHEM 50093/70093
VARIABLE TITLE WORKSHOP IN CHEMISTRY (1-6)
S/U grading. Prerequisite: Special approval.

CHEM 60297/70297
ADVANCED BIOCHEMISTRY (2)
Course content is variable, each offering being concerned with a specific area of biochemistry. Examples are metabolism and regulation of the chemistry of proteins and other macromolecules. Lecture 2 hours weekly. Prerequisite: Special approval

CHEM 50795
CURRENT TOPICS IN CHEMICAL EDUCATION (1-3)
Designed to present recent advances in chemical research, instrumentation and theory to chemistry educators. S/U grading. Prerequisite: Special approval.

CHEM 60894/70894
COLLEGE TEACHING OF CHEMISTRY (1)
Experience in teaching of chemistry at college level. S/U grading.

Analytical Chemistry

CHEM 50112/70112
ADVANCED ANALYTICAL CHEMISTRY (2)
An advanced study of the theory and applications of analytical chemical equilibria: acid base, precipitation, complexation and redox. Prerequisite: CHEM 40555.

CHEM 50113/70113
CHEMICAL SEPARATIONS (3)
Theory, instrumentation and applications of chemical separations for chemical analysis with an emphasis on gas and liquid chromatography. Prerequisite: CHEM 30106.

CHEM 50114/70114
ELECTROANALYTICAL CHEMISTRY (3)
The physical basis of electrochemistry; instrumentation and applications in chemical analysis. Polarography, coulometry, voltammetry and ion-selective electrodes. Lecture 3 hours weekly. Prerequisite: CHEM 40555.

CHEM 60111/70111
THEORY OF CHEMICAL INSTRUMENTATION (2)
General survey course on theory of instruments. Special emphasis on data interpretation and problem solving. Prerequisite: Permission.

CHEM 60115/70115
ANALYTICAL SPECTROSCOPY (3)
An advanced study of the fundamental principles, instrumentation and experimental techniques associated with different analytical spectroscopic methods.

CHEM 61191/71191
SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY (1)
Discussion of recent chemical analysis methods, sample preparation and data handling, as well as practical student experience involving characterization of real samples. IP permissible.

CHEM 62191/72191
SEMINAR: ANALYTICAL CHEMISTRY (1)
Students register once each year. Participation extends throughout the academic year. IP permissible.

CHEM 70195
ADVANCED TOPICS, ANALYTICAL (1-3)
Advanced topics in analytical chemistry. Repeat registration permitted. Prerequisite: Permission.

Biochemistry

CHEM 50245
BIOCHEMICAL FOUNDATIONS OF MEDICINE (4)
Introduction to chemistry and metabolism of important compounds in biological systems; enzymes and characteristics of enzyme catalysis; regulation of metabolism at molecular, cellular and organism levels; inborn and induced errors of metabolism. Designed and scheduled for, and priority given to, students in integrated life sciences program. Prerequisite: CHEM 30481 or equivalent.
CHEM 50247/70247
PRINCIPLES OF BIOCHEMISTRY (4)
Introduction to biochemical principles, including chemistry and metabolism of biochemically important compounds, biological catalysts and metabolic regulation. May be taken for graduate credit by chemistry majors. Prerequisite: CHEM 20481 or 30481 and 40555 or 40567 or permission.

CHEM 50248/70248
ADVANCED BIOLOGICAL CHEMISTRY (3)
Chemistry of biologically important molecules. Advanced topics in: metabolic and enzyme regulation; enzyme kinetics and mechanism; DNA replication, recombination and repair; gene transcription and translation; recombinant DNA technology; selected areas in molecular physiology. Three hours weekly. Prerequisite: CHEM 30284 or CHEM 40245 or CHEM 40247.

CHEM 50263/70263
PHYSICAL BIOCHEMISTRY I (3)
Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules. Prerequisite: CHEM 40555 or permission.

CHEM 60249/70249
BIOCHEMICAL TECHNIQUES (2 EACH)
Laboratory work emphasizing modern methods of biochemical investigation. Experiments illustrating use of spectrophotometric, chromatographic and isotopic methods. May be taken for graduate credit by chemistry majors. S/U grading; IP permissible. Co- or prerequisite: CHEM 60247 or CHEM 70247.

CHEM 60250/70250
BIOCHEMICAL TECHNIQUES (2 EACH)
Laboratory work emphasizing modern methods of biochemical investigation. Experiments illustrating use of spectrophotometric, chromatographic and isotopic methods. May be taken for graduate credit by chemistry majors. S/U grading; IP permissible. Co- or prerequisite: CHEM 60249 or CHEM 70249.

CHEM 60251/70251
COMPREHENSIVE BIOCHEMISTRY I (5)
Molecular and metabolic aspects of biochemistry including: chemistry of metabolism of low molecular weight biochemical structures; biopolymers; enzymes; bioenergetics; molecular basis of organismic systems.

CHEM 60252/70252
COMPREHENSIVE BIOCHEMISTRY II (2)
Supramolecular and cellular aspects of biochemistry including: DNA structure and function; regulation of transcription and translation; principles of supramolecular structure and assembly; membranes; motile systems.

CHEM 60253/70253
COMPREHENSIVE BIOCHEMISTRY III (1)
Supramolecular structure and self-organization of proteins and nucleic acids in chromatin, viruses, ribosomes, motile processes muscle, flagella and axonal transport. Prerequisite: Permission.

CHEM 60254/70254
COMPREHENSIVE BIOCHEMISTRY IV (2)
Biological membranes; composition, structure, dynamics and biogenesis; membrane transport and energy transduction. Prerequisite: Permission.

CHEM 70251
COMPREHENSIVE BIOCHEMISTRY V (5)
Molecular and metabolic aspects of biochemistry including: chemistry of metabolism of low molecular weight biochemical structures; biopolymers; enzymes; bioenergetics; molecular basis of organismic systems.

CHEM 70252/70252
COMPREHENSIVE BIOCHEMISTRY VI (2)
Supramolecular and cellular aspects of biochemistry including: DNA structure and function; regulation of transcription and translation; principles of supramolecular structure and assembly; membranes; motile systems.

CHEM 70253/70253
COMPREHENSIVE BIOCHEMISTRY VII (1)
Supramolecular structure and self-organization of proteins and nucleic acids in chromatin, viruses, ribosomes, motile processes muscle, flagella and axonal transport. Prerequisite: Permission.

CHEM 70254/70254
COMPREHENSIVE BIOCHEMISTRY VIII (2)
Biological membranes; composition, structure, dynamics and biogenesis; membrane transport and energy transduction. Prerequisite: Permission.

CHEM 70255
ADVANCED TOPICS IN BIOCHEMISTRY (1-3)
Advanced topics in biochemistry. Repeat registration permitted. Prerequisite: Permission.

Inorganic Chemistry

CHEM 50302
INORGANIC CHEMISTRY II (2)
Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology. Prerequisite: CHEM 30301.

CHEM 50303
INORGANIC CHEMISTRY III (2)
Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedral complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry. Prerequisite: CHEM 50302.
Chemistry

CHEM 50352/70352
INORGANIC MATERIALS CHEMISTRY (3)
Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

CHEM 50365/70365
BIOLOGICAL INORGANIC CHEMISTRY (3)
Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyses, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine. Prerequisite: CHEM 30360.

CHEM 60327/70327
MODERN INORGANIC CHEMISTRY (3)
Synthesis, structure and reactivity of inorganic compounds, including transition metal and organometallic complexes. Prerequisite: CHEM 40362 or equivalent.

CHEM 60337/70337
INORGANIC MAGNETIC SPECTROSCOPY (3)
Applications of magnetic resonance spectroscopic techniques (NMR, EPR and Mossbauer) in inorganic and organometallic compounds.

CHEM 60347/70347
CHEMICAL CRYSTALLOGRAPHY (3)
Structure solution and refinement methods of X-ray diffraction data. Emphasis will be placed on single-crystal techniques.

CHEM 62391/72391
SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY (1)
Practical experience in solution of current problems of structure, synthesis and mechanism in organic chemistry. Participation extends throughout nine-month academic year. Repeat registration permitted. IP permissible.

CHEM 62491/72491
SEMINAR: ORGANIC CHEMISTRY (1)
Students register once each year. Participation extends throughout the academic year. IP permissible.

CHEM 70495
ADVANCED TOPICS, ORGANIC (1-3)
Advanced topics in organic chemistry. Repeat registration permitted. Prerequisite: Permission.

Chemistry

CHEM 50451/70451
ORGANIC MATERIALS CHEMISTRY (3)
Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.

CHEM 50476/70476
SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS (2)
Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR and mass spectrometric data through lectures and problem solving. Prerequisite: CHEM 30482.

CHEM 50478/70478
SYNTHESIS OF ORGANIC LIQUID CRYSTALS (3)
Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices. Prerequisite: CHEM 30482.

CHEM 60471/70471
ADVANCED ORGANIC CHEMISTRY — MECHANISTIC ASPECTS (3)
Discussion of organic reaction mechanisms. Chemistry of reactive intermediates, aromaticity, addition/elimination, nucleophilic/electrophilic substitution, bonding theories and other fundamental topics governing organic reactions. Prerequisite: CHEM 30482.

CHEM 60472/70472
ADVANCED ORGANIC CHEMISTRY - SYNTHETIC ASPECTS (3)

CHEM 60473/70473
STEREOSELECTIVE ORGANIC SYNTHESIS (3)
Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis. Prerequisite: CHEM 30482.

CHEM 61491/71491
SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY (1)
Practical experience in solution of current problems of structure, synthesis and mechanism in organic chemistry. Participation extends throughout nine-month academic year. Repeat registration permitted. IP permissible.

CHEM 62491/72491
SEMINAR: ORGANIC CHEMISTRY (1)
Students register once each year. Participation extends throughout the academic year. IP permissible.
CHEM 50555/70555
ELEMENTARY PHYSICAL CHEMISTRY (3)
Fundamental concepts of physical chemistry, with example problems chosen emphasizing application in chemistry and the biological science. Prerequisite: CHEM 10061 and MATH 22005 and PHY 23102. Pre- or corequisite: CHEM 30107.

CHEM 50556/70556
ELEMENTARY PHYSICAL CHEMISTRY (3)
A continuation of CHEM 50555. Areas covered are chemical kinetics, quantum chemistry and the solid state. Prerequisite: CHEM 50555 or PHY 45301.

CHEM 50557/70557
PHYSICAL CHEMISTRY LABORATORY (2)
Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data. Pre- or corequisite: CHEM 5/70555. Special course fee: $40 per credit hour (subject to change).

CHEM 50558/70558
PHYSICAL CHEMISTRY LABORATORY (2)
Experiments and interpretation, reporting, and correlation of data with theory. Emphasis on gases, liquids, solutions, surface properties, thermodynamic variables, rates of reaction, transport phenomena and spectral properties. Pre- or corequisite: CHEM 5/70556.

CHEM 50570/70570
INTERMEDIATE PHYSICAL CHEMISTRY (2)
Special topics of physical chemistry, with applications to problems of chemical interest that are not covered in the basic course. Prerequisite: CHEM 5/70556.

CHEM 50571/70571
SURFACE CHEMISTRY (2)
Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Prerequisite: CHEM 40555 or 40567.

CHEM 50575/70575
MOLECULAR SPECTROSCOPY (3)
Survey of the fundamental principles of the interaction of radiation with matter, with an emphasis on the interpretation of microwave, infrared and ultraviolet-visible spectra. Introduction to group theory and its application to spectroscopic interpretation. Description of modern experimental techniques. Prerequisite: CHEM 40556.

CHEM 50583/70583
PHYSICAL CHEMISTRY OF MACROMOLECULES (2)
A course designed to cover the basic principles of polymer science. Structure, properties and characterization of polymeric systems will be discussed. Prerequisite: CHEM 40555 or 40567.

CHEM 60541/70541
ADVANCED PHYSICAL CHEMISTRY (3)
Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics. Prerequisite: CHEM 50556 or equivalent.

CHEM 60542/70542
ADVANCED PHYSICAL CHEMISTRY (3)
Covers basic materials of modern physical chemistry in the area of application of wave mechanics to atomic structures, chemical bonding and reactivity. Prerequisite: CHEM 6/70541.

CHEM 60543/70543
STATISTICAL THERMODYNAMICS (3)
Theory and applications of statistical thermodynamics and mechanics on non-interacting and interacting particles of real and model systems; gases, solutions, crystals, polymers; dielectric and magnetic phenomena. Prerequisite: CHEM 6/70542.

CHEM 60563/70563
QUANTUM CHEMISTRY (3)
Basic principles of quantum mechanics. Those aspects of theory of special interest to chemistry emphasized. Lecture 3 hours weekly. Prerequisite: CHEM 6/70541.

CHEM 60591/70591
SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY (1)
Presentation and discussion of original papers from current literature. IP permissible.

CHEM 62591/72591
SEMINAR: PHYSICAL CHEMISTRY (1)
Students register once each year. Participation extends throughout the academic year. IP permissible.

CHEM 70595
ADVANCED TOPICS, PHYSICAL (1-3)
Advanced topics in physical chemistry. Repeat registration permitted. Prerequisite: Permission.

Research, Thesis and Dissertation

CHEM 60050/70050
CHEMISTRY RESEARCH PROPOSAL (3)
The student will prepare an independent and original research proposal that is completely distinct from the thesis project.
CHEM 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester, distributed over several semesters if desired. IP permissible.

CHEM 60299
THESIS II (2)
Thesis students must continue registration until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CHEM 60199.

CHEM 60898
MASTER'S RESEARCH (1-15)
Research for master's students. Credits earned may be applied toward degree if department approves. Repeat registration permitted. S/U grading; IP permissible.

CHEM 80199
DISSERTATION I (15)
Doctoral dissertation, for which registration in two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy.

CHEM 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CHEM 80199.

CHEM 80898
RESEARCH (1-15)
Research for doctoral students. Credits earned may be applied toward degree if department approves. Repeat registration permitted. S/U grading; IP permissible.
COMPUTER SCIENCE

Robert A. Walker, Chair
241D Mathematics and Computer Science Building
330-672-9055
walker@cs.kent.edu

Hassan Peyravi, Coordinator of Graduate Studies
262 Mathematics and Computer Science Building
330-672-9062
peyravi@cs.kent.edu

The Department of Computer Science offers graduate courses and research leading to the Master of Arts, Master of Science and Doctor of Philosophy degrees in computer science. For more information, visit the department Web site at http://www.cs.kent.edu.

Master of Arts/Master of Science

ADMISSION
A student entering the program must have the core components of an undergraduate computer science curriculum. In mathematics, students must have successfully completed coursework equivalent to Discrete Mathematics (CS/MATH 31011), Calculus I (MATH 12002), Calculus II (MATH 12003) and Linear Algebra (MATH 21001). In computer science, students are required to have successfully completed coursework equivalent to Data Structures (CS 33001), one additional introductory programming course (CS 23021), Computer Architecture (CS 35101), Operating Systems (CS 33211) and Design & Analysis of Algorithms (CS 46101).

PROGRAM REQUIREMENTS
The master’s program requires a total of 32 graduate-level credit hours in computer science (courses outside computer science must be approved by the advisor and graduate coordinator). Twenty-six of these credit hours must be in coursework at the 60000 level or above. Only a total of 3 credit hours of CS 69098 Research under the direction of a graduate faculty member and to develop a master’s project. The committee and project topic must be approved by the advisor and at least two other graduate faculty members. The final version of the thesis must be approved by the advisor, committee and graduate coordinator. Further details can be found on the department’s Web site.

Summary of the Master of Science requirements: 24 credits (i.e., typically eight courses, six of which are at the 60000 level or above); the Master’s Plan of Work; 2 credits CS 69191 Master’s Seminar and presentation; and 6 credits of CS 69199 Thesis I and thesis defense.

Master of Arts

Candidates for the Master of Arts degree are required to enroll for 3 credit hours in CS 69098 Research under the direction of a graduate faculty member and to develop a master’s project. A master’s project committee must be formed that includes the advisor and at least two other graduate faculty members. The committee and project topic must be approved by the graduate coordinator. The student must present and defend the project to the committee. Further details can be found on the department’s Web site.

Summary of the Master of Arts requirements: 27 credits (i.e., typically nine courses, seven of which are at the 60000 level or above); the Master’s Plan of Work; 2 credits CS 69191 Master’s Seminar and presentation; and 3 credits of CS 69098 Research and project defense.

Doctor of Philosophy

ADMISSION
A student entering the doctoral program should hold a master’s degree in computer science or closely related discipline. Students with a master’s degree in a closely related discipline must fulfill the admission requirements for a master’s degree in computer science. All students must pass the preliminary examination within 20 months of entrance into the doctoral program.

Students with a very strong undergraduate degree in computer science may be admitted directly into the doctoral program but must fulfill the requirements of both the master’s and doctoral degrees. The time limits for the preliminary examination and CS 89191 Doctoral Seminar are extended by 18 months for these students.
PROGRAM REQUIREMENTS
A doctoral student must complete 60 graduate credit hours beyond the master’s degree—30 credits of which are CS 89199 Dissertation I and 30 credits (excluding Dissertation I and II) are coursework at the 70000 level or above. Only 9 credits of CS 89098 Research or CS 89991 Research Seminar in Computer Science may count towards the degree (however, students can take more than 9 credit hours of these courses). The student will develop a Doctoral Plan of Work that is approved by the advisor and the graduate coordinator. Students are highly encouraged to select an advisor and develop a Plan of Work as early as possible (i.e., before the end of their second term in the program). The Plan of Work must be filled out and submitted to the graduate coordinator within 18 months of entrance to the program.

The doctoral Plan of Work will define the required coursework in the form of major and minor concentrations. The major concentration consists of three courses (9 credits) selected by the advisor that the student must successfully complete. This represents a depth of knowledge in the main research area of the student. The minor concentration consists of three additional courses the student (with advisor approval) selects and must successfully complete. This represents depth and/or breadth in related research area(s). The Plan of Work must be modified with approval of the advisor and graduate coordinator. Further details can be found on the department’s Web site.

All students must take 3 credit hours of CS 89191 Doctoral Seminar and make a public presentation of project and/or research work (excluding dissertation defense and candidacy examination) at least two times before graduation. The presentation must take place in the doctoral seminar at least one full term before graduation and not more than two years after entering the program. The doctoral seminar is offered for 1 or 2 credit hours; therefore the student must enroll in this course at least two times. This course can be taken multiple times but only 3 credit hours count toward the degree.

PRELIMINARY EXAMINATION
The preliminary examination is intended to assess a student’s understanding of the basic prerequisite concepts for entrance into the doctoral program in computer science. It also assures that all incoming students have the ability to effectively reason with and integrate the underlying knowledge and concepts in the broad field of computer science. This ability is necessary to continue the student’s studies in the doctoral program. Students must successfully complete the preliminary examination within 20 months of entrance into the program. Complete information about the content and format of this examination can be found on the department’s Web site.

CANDIDACY EXAMINATION
The candidacy examination is a comprehensive examination in the field of the major subject. The format of the candidacy examination will be determined by the student’s Candidacy Examination Committee, which is composed of the student’s advisor and two other graduate faculty members. The Candidacy Examination Committee must be approved by the graduate coordinator. The student must complete the candidacy examination at least one year before the dissertation defense. Further details can be found on the department’s Web site.

DISSERTATION
A dissertation describes original research performed by the student. The dissertation topic must be approved by the advisor and graduate coordinator. A dissertation committee, made up of graduate faculty, must be formed to assess the quality and value of the work. A public dissertation defense is made by the student. The final dissertation and defense must be approved by the advisor and dissertation committee. Further details can be found on the department’s Web site.

Summary of doctoral degree requirements: preliminary examination plus the Doctoral Plan of Work; 3 credits of CS 89191 Doctoral Seminar; 9 credits major concentration coursework; 9 credits minor concentration coursework; 9 credits elective coursework or research; the candidacy examination; and 30 credits of CS 89199 Dissertation I along with the dissertation and defense.

Courses (CS)

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

CS 51012
FINITE MATHEMATICS (3)
Cross-listed with MATH 51012. A continuation of discrete mathematics emphasizing combinatorial techniques, graph applications in algorithms, finite algebra, number theory and probability. Covers useful mathematics for CS majors. Prerequisite: CS 31011 or MATH 31011.

CS 51045
METALOGIC (3)
Consideration of various metatheorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus and incompleteness of the theory of arithmetic.
CS 52201
INTRODUCTION TO NUMERICAL COMPUTING I (3)
Cross-listed with MATH 52201. An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-square data fitting, nonlinear equations and systems, and optimization problems. Prerequisite: MATH 12003, 21001 and CS 23021 or permission. Special fee: $10 per semester.

CS 52202
INTRODUCTION TO NUMERICAL COMPUTING II (3)
Cross-listed with MATH 52202. A continuation of CS 52201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations. Prerequisite: MATH 32044 and CS 4/52201. Special fee: $10 per semester.

CS 53005
INTRODUCTION TO DATABASE SYSTEMS DESIGN (3)
An introduction to the basic theoretical aspects of database systems, file organization, search methodologies, language design and performance evaluation techniques, initial modeling concepts and their use in hierarchical, network, relational and object-oriented database designs. Prerequisite: CS46101.

CS 53006
THEORY OF OBJECT-ORIENTED PROGRAMMING (3)
In-depth course on the theory and principles of object-based and object-oriented programming using a language such as C++. The course covers advanced topics in inheritance and interface planning, generic (type-independent) programming, factors of polymorphism, structure and organization of class libraries, and object-oriented design principles. Prerequisite: CS 33001. Special fee: $20 per semester.

CS 53111
STRUCTURE OF COMPILERS (3)
Techniques used to write compilers including lexical analysis, syntax analysis, syntax-directed translation, type checking, run-time environments and intermediate code generation. Prerequisite: CS 35101 and 33101.

CS 53202
SYSTEMS ADMINISTRATION (3)
The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities. Prerequisite: CS 33211.

CS 53203
SYSTEMS PROGRAMMING (3)
Design, implementation and maintenance of system programs, system utilities; command interpreters, editors, file maintenance programs, text processors. Interrupt handling. Device drivers. Prerequisite: CS 33211. Special fee: $20 per semester.

CS 53401
SECURE PROGRAMMING (3)
Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators. Prerequisites: C (2.0) or better in CS 33001.

CS 53901
SOFTWARE ENGINEERING (3)
An introduction to software engineering concepts: life cycle models, modeling languages, requirements analysis, specification, design, testing, validation, project management and maintenance. Prerequisite: CS 33001. Special fee: $6.67 per credit hour (subject to change).

CS 54201
ARTIFICIAL INTELLIGENCE (3)
Examines goals, problems, concepts and methods of artificial intelligence, heuristic versus algorithmic methods, natural language comprehension, theorem proving. Prerequisite: CS 33001. Special fee: $10 per semester.

CS 55111
PRINCIPLES OF VLSI DESIGN (3)
Introduction to the design of VLSI chips, with emphasis on FPLD-based design. Students will design various chips using standard industry logic synthesis tools. Prerequisite: CS 35101. Special fee: $10 per credit hour (subject to change).

CS 55201
COMPUTER COMMUNICATIONS NETWORKS (3)
An introduction to netcentric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks, and the World Wide Web as an example of a client-server system. Prerequisite: CS 33211. Special fee: $3.33 per credit hour (subject to change).

CS 55231
INTERNET ENGINEERING (3)
Design fundamentals and working principles of Internet systems at the IP layer and above. DNS, Interdomain Routing, Internet Client Server programming, Application Level Protocols (HTTP, XML, etc.), Web Server Architecture, Browser, Internet Security and Multimedia Serving. Prerequisite: CS 33001, 53201 and 55201. Special fee: $20 per semester (subject to change).
Computer Science

CS 56101
DESIGN AND ANALYSIS OF ALGORITHMS (3)
Introduction to algorithmic concepts, practical techniques for the design and analysis of algorithms; searching, sorting, integer and floating point arithmetic; vector and matrix manipulation. Prerequisite: CS 33001 and MATH 12003.

CS 56201
INTRODUCTION TO THE THEORY OF AUTOMATA, FORMAL LANGUAGES AND COMPUTATION (3)
A study of alphabets, strings, languages; regular languages and expressions, deterministic and nondeterministic finite automata, context free-grammars and languages, pushdown automata, turing machines and complexity theory. Prerequisite: CS 23022 and MATH 12003.

CS 57101
COMPUTER GRAPHICS (3)
Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man/machine communications. Prerequisite: CS 33001. Special fee: $20 per semester.

CS 57105
WEB DESIGN AND PROGRAMMING I (3)
A joint computer science and visual communication design course on Web concepts and high-quality Web design: computer science, visual communication design principles, tools, architecture, presentation, design and creation of Web sites by teams. Web-based instruction is used. IP permissible. Special fee: $20 per semester.

CS 57106
WEB DESIGN AND PROGRAMMING II (3)
A joint computer science and visual communication design course on advanced Web techniques and multimedia Web design: Web servers, security, advanced design, Java servlets, applets, database connectivity, site maintenance, creation of actual Web sites by teams. IP permissible. Special fee: $20 per semester.

CS 57107
WEB DESIGN AND PROGRAMMING STUDIO (3-6)
A joint Computer Science (CS) and Visual Communication Design (VCD) project course. Comprehensive experience on aspects of Web site creation, hosting, maintenance and management. Creative combination and integration of art and programming are emphasized. IP permissible. Prerequisite: VCD 56001 or CS 57106. Special fee: $6.67 per credit hour (subject to change).

CS 57201
HUMAN COMPUTER INTERACTION (3)
Approaches the human-computer interaction as an activity of the human whose productivity is increased by the use of the computer as a tool. Examines physiology and psychology considers the structure and operation of the computer and models the interaction between the two. Prerequisite: CS 33001.

CS 57205
INFORMATION SECURITY (3)
An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA. Prerequisite: CS 33006.

CS 57221
INTRODUCTION TO CRYPTOLOGY (3)
Introduction to cryptography, classical cryptology, authentication, complexity issues, encryption standards, algebraic foundations, survey of existing cryptology protocols: AES/Rijndael, block chaining, asymmetric techniques. Prerequisite: C (2.0) or better in CS 33001.

CS 59893
VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE (1-6)
Studies in special topics in computer science. S/U grading. Prerequisite: Special approval.

CS 59995
SPECIAL TOPICS IN COMPUTER SCIENCE (1-3)
Various special courses will be announced in the Schedule of Classes under this title. Repeat registration permitted. Prerequisite: Special approval.

CS 60093
VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE (1-3)
Studies of special topics in computer science. Not acceptable for credit toward a graduate degree in computer science without approval of the student's advisor. S/U grading. Prerequisite: Special permission.

CS 60094/70094
COLLEGE TEACHING OF COMPUTER SCIENCE (1)
Techniques and problems of college teaching of computer science. Student presentation of computer science papers will be included. S/U grading.

CS 60220
BIOINFORMATICS (4)
Theory, methods and computational approaches used to interpret large volumes of Bio-Science information; reviews of major data repositories. An interdisciplinary research project is required. Prerequisite: Special permission.
CS 61001
STRUCTURE OF COMPUTER SCIENCE (3)
An integrated view of the structure of computer science; algorithms, architecture, operating systems, programming languages and networking. Special emphasis on the framework of computer science and its relation to other fields. No credit for CS majors. IP permissible.

CS 61002
ALGORITHMS AND PROGRAMMING I (4)
An introduction to the algorithms and tools used in computer science; includes programming in a high level language. No credit for CS majors. Prerequisite: CS 61001.

CS 61003
ALGORITHMS AND PROGRAMMING II (4)
Further exploration into the tools used in computer science. No credit for CS majors. Prerequisite: CS 61002.

CS 61092
PRACTICUM IN CS FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT (1-5)
This course is an alternative to IAKM 60199 for students interested in pursuing a CS thesis. Credit for IAKM 60199 or any other project course is not allowed. Not repeatable. S/U grading; IP permissible.

CS 61199
THESIS I FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT (2-6)
Thesis students must register for a minimum of 6 hours. No credit for CS students. S/U grading; IP permissible.

CS 61299
THESIS II FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT STUDENTS (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible.

CS 62201/72201
NUMERICAL COMPUTING I (3)
Cross-listed with MATH 6/72201. Numerical methods for scientific computing emphasizing modern mathematical software and environments. Computer arithmetic and errors, linear systems of equations, least squares data fitting, eigenvalues and singular values, nonlinear systems optimization. Prerequisite: MATH 21001 and MATH.

CS 62202/72202
NUMERICAL COMPUTING II (3)

CS 62251/72251
NUMERICAL ANALYSIS I (4)

CS 62252/72252
NUMERICAL ANALYSIS II (3)

CS 62261/72261
NUMERICAL SOLUTION OF ORDINARY DIFF EQS (3)

CS 62262/72262
NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS (3)
Cross-listed with MATH 6/72262. Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations. Prerequisite: MATH 4/52045 and CS 4/52202.

CS 62263/72263
NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS (3)

CS 62264/72264
NUMERICAL SOLUTION OF NONLINEAR SYSTEMS (3)

CS 63005/73005
ADVANCED DATABASE SYSTEMS DESIGN (3)
Introduction to a variety of advanced database topics and ongoing trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques. Prerequisite: CS 4/53005.
CS 63015/73015
DATA MINING TECHNIQUES (3)
The course presents the concepts and techniques of data mining. Data mining is a process of discovering information from a large set of databases. This course takes a database perspective on data mining. Prerequisites: CS 53005 and MATH 50011 or equivalent.

CS 63101/73101
ADVANCED PROGRAMMING LANGUAGES (3)
Topics such as programming language design problems, formal semantics, language definitions, functional programming, specialized or very high-level languages, correctness considerations, parallelism and concurrency. Prerequisite: CS 4/53101.

CS 63111/73111
ADVANCED COMPILER DESIGN (3)
Explores implementation issues such as optimization techniques, code generation, error handling, automatic compiler generation. May include compiler project parallelization. Prerequisite: CS 4/53111 and 4/55101. Special fee: $20.00 per semester.

CS 63201/73201
ADVANCED OPERATING SYSTEMS (3)
Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems. Prerequisite: CS 4/53201. Special fee: $10 per semester.

CS 63304/73304
CLUSTER COMPUTING (3)
This course will investigate clusters of computers as a computing platform, hardware and software tradeoffs for cluster and application performance, and programming of clusters. Prerequisite: CS 55201.

CS 63901/73901
SOFTWARE ENGINEERING METHODOLOGIES (3)
Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation; reuse; and metrics.

CS 63902/73902
SOFTWARE EVOLUTION (3)
Methods and techniques supporting later life-cycle activities, including software testing and maintenance, reuse and reverse engineering. Prerequisite: CS 6/73901.

CS 63903/73903
SOFTWARE VISUALIZATION (3)
Methods and techniques to support the visualization of software to support maintenance, re-engineering and reverse engineering of large scale systems using information visualization and program understanding techniques. Prerequisite: CS 63901.

CS 64101/74101
COMPUTER ALGEBRA I (3)
Algorithms for integer and polynomial arithmetic modular and padic algorithms, GCD computation, factorization and resultants. Prerequisite: CS 4/56101 or permission.

CS 64102/74102
COMPUTER ALGEBRA II (3)
Additional concepts basic to computer algebra including linear algebra algorithms, factoring, parallel algorithms, interface to numerical computing, graphics, algebraic and transcendental extensions, and pattern-matching. Prerequisite: CS 6/74101.

CS 64201/74201
ADVANCED ARTIFICIAL INTELLIGENCE (3)
Additional topics in AI such as logic programming, advanced problem-solving systems, understanding natural languages, vision, learning, plan-generating systems. Prerequisite: CS 4/54201.

CS 64301/74301
PATTERN RECOGNITION PRINCIPLES (3)
Introduction to mathematical pattern recognition, feature selection, distribution-free classification, statistical classification, unsupervised learning, sequential learning and application. Prerequisite: CS 4/57101.

CS 64401/74401
IMAGE PROCESSING (3)
This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis. Prerequisite: CS 4/56101. Special fee: $10 per semester.

CS 65101/75101
ADVANCED COMPUTER ARCHITECTURE (3)
System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors. Prerequisite: CS 4/55101.

CS 65201/75201
INTERCONNECTION NETWORKS (3)
This course provides a comprehensive coverage of interconnection networks in switching principles for high-performance computing and communications. It covers the theory, architecture, implementation and performance analysis of switching systems for multiprocessors, broadband networks and optical communications. Prerequisite: CS 4/55201 or CS 6/75101 or equivalent. Special fee: $10 per semester.
CS 65202/75202
ADVANCED COMMUNICATION NETWORKS (3)
This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and Internet routing. Prerequisite: CS 4/55201.

CS 65203/75203
WIRELESS AND MOBILE COMMUNICATION NETWORKS (3)
This course examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. It covers the architecture and the interactions among different functional units in wireless and mobile systems. Prerequisite: CS 55201.

CS 65207/75207
SYSTEM SIMULATION (3)
Course provides the principles behind simulation techniques for solving problems using computers. It covers the evaluation process of the potential performance of a system with alternative architectural design before it becomes operational. It also covers trade-off analysis techniques for various operating strategies in systems such as computers, networks and devices. Prerequisite: CS 33211 or 45201.

CS 65208/75208
DISTRIBUTED MULTIMEDIA AND LANGUAGE SYSTEMS (3)
MPEG standards, multimedia formats, 3-D object and movement representation, multimedia storage, QoS maintenance, transmission and buffering, multimedia clocks and synchronization, content based indexing, matching and retrieval of 2-D and 3-D objects, XML based distributed multimedia languages, synchronous and reactive languages. Prerequisite: CS 33001.

CS 65231/75231
INTERNET SYSTEMS AND APPLICATIONS (3)
Course initiates the research frontiers of the internet and web technology. It covers selected emergent systems and dominant applications of the internet. The recent offerings included infrastructure, measurements, and security and discussed systems such as caching infrastructure, content distribution network, inter-autonomous system trust management, etc. Prerequisite: CS 55201, 55231.

CS 65301/75301
SYSTEM MODELING AND PERFORMANCE EVALUATION (3)
Provides a detailed study of queuing, network models and their application to operating systems, computer time sharing, and multi-access systems. Prerequisite: MATH 4/50012 and CS 4/53201 or permission.

CS 66101/76101
ADVANCED TOPICS IN ALGORITHMS (3)
Advanced algorithms, fast Fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, gcd, factoring, numerical and symbolic computational algorithms, Risch integration algorithm, pattern matching. Prerequisite: CS 4/56101.

CS 66105/76105
PARALLEL AND DISTRIBUTED ALGORITHMS (3)
Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms. Prerequisite: CS 4/56101 or 63301 or permission.

66110/76110
COMPUTATIONAL GEOMETRY (3)
Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational Geometry studies algorithms for geometric problems. Prerequisite: CS 56101.

66120/76120
EVOLUTIONARY COMPUTATION (3)
An introduction to evolutionary computation techniques for optimization, learning and design. Example topics include natural and artificial evolution, chromosome representations, search operators, co-evolution, constraint handling techniques, niching and speciation, classifier systems and theoretical foundations. Prerequisite: CS 56101.

CS 66202/76202
THEORY OF COMPUTATION (3)
Representative problems and algorithms for various complexities, recursion theory basics, complexity such as time, space, nondeterminism; relationships between complexities and hard sets. Prerequisite: CS 4/56101 and 4/56201.

CS 67101/77101
ADVANCED COMPUTER GRAPHICS (3)
The course provides an in-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games. Prerequisite: CS 4/57101.

CS67301
SCIENTIFIC VISUALIZATION (3)
Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system. Prerequisite: CS 23021.
CS 69098
RESEARCH (1-5)
Research or individual investigation. Credits are applied toward degree requirements, with approval, if letter grade or “S” is given. Repeat registration permitted.

CS 69191
MASTER’S SEMINAR (1-2)
Seminar for master’s degree students to present and discuss computer science-related research and academics. Master’s degree students are required to take at least 2 credit hours for completion of degree and make at least one presentation of project work or research. The course may be taken multiple times but only 2 credits count towards the master’s degree. S/U grading. Prerequisite: Admission to the master’s program.

CS 69199
THESIS I (2-6)
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

CS 69299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CS 69199.

CS 69995/79995
SPECIAL TOPICS IN COMPUTER SCIENCE (1-3)
S/U grading.

CS 89098
RESEARCH (1-15)
Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. S/U grading. Repeat registration permitted.

CS 89191
DOCTORAL SEMINAR (1-2)
Seminar for doctoral students to present and discuss computer science-related research and academics. Doctoral students are required to take at least 3 credit hours for completion of degree and make at least two presentations of project work or research. This course may be taken multiple times but only 3 credits count toward the doctoral degree. S/U grading. Prerequisite: Admission to doctoral program.

CS 89199
DISSERTATION I (15)
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to doctoral program.

CS 89299
DISSERTATION II (1 OR 15)
Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CS 89199.

CS 89991
RESEARCH SEMINAR IN COMPUTER SCIENCE (1-3)
Research seminar on current research in computer science. S/U grading. Prerequisite: Permission.
ENGLISH

Ronald Corthell, Chair
113 Satterfield Hall
330-672-3211
corthel@kent.edu

Raymond A. Craig, Coordinator of Graduate Studies
113 Satterfield Hall
330-672-1741
rcraig2@kent.edu

The English Department offers four degrees with concentrations in a variety of areas: (1) Master of Arts in Literature and Writing; (2) Master of Arts in TESL; (3) Master of Fine Arts in Creative Writing; and (4) Doctor of Philosophy.

The Master of Arts in Literature and Writing offers four concentrations. For those who plan to proceed for a doctorate in literature or rhetoric or who plan to enter careers in writing, publishing, community college teaching or business, we offer concentrations in 1) Literary Traditions, 2) Critical Theory, and 3) Rhetoric and Composition; for those who seek enrichment of their teaching careers through advanced study in literature and composition, we offer 4) the Masters in English for Teachers.

The Master of Arts in TESL is designed for individuals preparing to work domestically and internationally with English as a second/additional language learners. An optional program, Master of Arts in TESL Teachers, is designed for those who are preparing for state licensure.

The Master of Fine Arts in Creative Writing is designed for individuals who specialize in creative writing and wish to teach creative writing or work in allied fields. Kent State University is part of the Northeast Ohio Master of Fine Arts in Creative Writing program. The NEO MFA is a multidisciplinary, interdepartmental and inter-institutional program.

The doctoral program is designed primarily for those who wish to teach and conduct research in literature and rhetoric and composition at the college or university level. The Ph.D. is offered in two areas of specialization: (1) literature, and (2) rhetoric and composition.

Visit http://www.kent.edu/english for more information.

Master of Arts

ADMISSION
In addition to general requirements for admission, applicants should have a 3.0 GPA (A=4.0). Applicants are required to submit scores on the Graduate Record Examination (general test only), three letters of recommendation, and a one- to two-page statement of purpose. Applicants are also required to submit an 8-15 page writing sample of scholarly work in the field to which they are applying.

PROGRAM REQUIREMENTS
All graduate students are required to complete 33-36 hours of graded coursework. Students pursuing the M.A. in Literature and Writing or the M.A. in English for Teachers must take ENG 61094. All graduate assistants must also take ENG 61094.

A full description of requirements for each of the two Master of Arts concentrations is available on request and on the department Web site at http://www.kent.edu/english/MAPrograms/.

Concentrations

MASTER OF ARTS ENGLISH LITERATURE AND WRITING
The concentration in literature and writing allows students to emphasize one of the following: rhetoric and composition, literary traditions or literary theory. The degree requires a reading knowledge of one foreign language. Students in Literature and Writing may present a thesis in lieu of 6 hours of required coursework. Students in Rhetoric and Composition will complete graduate coursework in Literacy, Rhetoric and Social Practice.

M.A. IN ENGLISH FOR TEACHERS
The concentration for teachers provides secondary school professionals with a structured but flexible approach to the analysis and teaching of literature and writing while permitting interdisciplinary work in related fields or areas particularly relevant to the candidate’s professional objectives. The program can be completed on a part-time basis.
M.A. IN TEACHING ENGLISH AS A SECOND LANGUAGE (TESL)

The MA in teaching English as a second language (TESL) trains students to teach effectively while drawing on a solid theoretical foundation. Students gain relevant experience through supervised practicums and have the opportunity to teach in a variety of ESL/EFL contexts. The degree requires demonstrated proficiency at the intermediate level or above of one foreign language. The MA TESL offers two concentrations: 1) TESL and 2) TESL Teachers. The MA TESL prepares students to teach in a variety of ESL/EFL contexts, from literacy and adult education programs in the US to international teaching positions.

The M.A. TESL degree requires 36 credits of coursework and students complete a capstone project with options of a 1) thesis, or 2) portfolio or exams. The M.A. TESL Teachers is a 48 hour program of study (including student teaching) preparing teachers for state licensure in Ohio and teaching in early childhood, primary, and secondary education. Students in the M.A. TESL Teachers program also complete a portfolio or exams. A description of the M.A. TESL can be found at http://www.kent.edu/english/MAPrograms/MAinTESL/.

ADMISSION TO THE M.A. TESL

In addition to general requirements for admission, applicants are required to submit scores on the Graduate Record Examination (general test only) or the TOEFL (for international applicants), three letters of recommendation, and a one- to two-page statement of purpose.

MASTER OF FINE ARTS IN CREATIVE WRITING

The Northeast Ohio Master of Fine Arts in Creative Writing (NEO MFA) provides opportunities for students to pursue the terminal degree in creative writing. The NEO MFA draws its faculty and resources from departments at Kent State University, Cleveland State University, Youngstown State University and The University of Akron. The program offers workshops in poetry writing, fiction writing, creative nonfiction writing, playwriting, and literary translation, as well as courses in literature. The M.F.A. prepares graduates to pursue careers in the arts as well as in teaching creative writing, literature and expository writing.

ADMISSION TO M.F.A.

Students pursuing the M.F.A. must choose a gateway school for admission to the graduate program and gain admission to a consortial graduate degree program in English. In addition to the minimum School of Graduate Studies and Research requirements, applicants must submit three letters of recommendation from individuals familiar with the applicant’s academic or professional background. The letters should include an assessment of the applicant’s current creative work and ability to successfully complete graduate training. Applicants should also submit a substantive portfolio of creative work which includes either 15-20 pages of poetry or literary translation of poetry, or 30 pages of fiction, creative nonfiction, playwriting or prose literary translation. All portfolios must include at least one finished work. All items in the portfolio should be double-spaced. Evaluation of student portfolios of creative writing will be conducted by a committee of the consortium and the degree is granted by the consortium. For further information on the application process for the NEOMFA visit the web site at http://www.ysu.edu/neomfa.

PROGRAM REQUIREMENTS OF M.F.A.

The program requires 48 semester hours of graduate-level coursework, including a three-hour internship in teaching, editing or arts administration. There are six areas of coursework in the M.F.A.: Writing Workshops (15 hours); Craft and Theory Courses (6 hours); Literature Courses (9 hours); Internship (3 hours); Electives (9 hours); and Thesis (6 hours). The thesis must be submitted according to the general requirements established by the School of Graduate Studies and Research. The student is required to defend the thesis in an oral presentation before a committee of graduate faculty from a minimum of two consortium schools.

Doctor of Philosophy

The doctoral program permits students to focus on literary traditions, literary theory, or rhetoric and composition. The focus on literary traditions or literary theory emphasizes the intersections of literature, cultural theory, and social practice. Graduate students identify, investigate, and theorize the social functions of texts in a variety of contexts both within and outside the academy. This program crosses the increasingly fluid boundaries of literary and cultural studies. A variety of cultural theories, including deconstruction, feminism, gender theory, historical materialism, post-colonialism, and psychoanalysis are employed to understand both literary and popular texts. Students fulfill distribution requirements in several areas of English studies.
The doctoral concentration in rhetoric and composition is focused on the study of literacy, rhetoric and social practice. Grounded in rhetoric and language study, coursework and research center on how advanced literacy is embedded within and constitutive of communities of work and citizenship in contemporary culture. Study is based on coursework distributed across five areas: introduction to the study of writing and rhetoric, theoretical foundations, language and linguistics, research methods and literate practices. Students are encouraged to conduct original research throughout their matriculation. Students will collaborate with faculty and other graduate students on research in academic and non-academic settings.

ADMISSION
Applicants to the concentration in literary traditions or literary theory are expected to adhere to the regular application requirements of the university and to have the Master of Arts degree in English with a grade point average of 3.25 or above. Applicants are required to submit a 500-word statement of purpose, a sample of their research writing, and scores on the general test of the Graduate Record Examination. Applicants are not required to submit scores on the literature subject test of the Graduate Record Examination but may do so if this enhances their application.

Applicants to the concentration in rhetoric and composition are expected to hold a master's degree in English, rhetoric or a related field (e.g., communication, education, sociology, business, philosophy) with a minimum grade point average of 3.0. Applicants must submit scores on the general test of the Graduate Record Examination. A concise but detailed statement of goals, motivations and preparations for pursuing a career compatible with the emphasis in literacy, rhetoric and social practice, and a sample of research writing is required. Generally, only applicants for full-time enrollment will be considered for admission; as a general rule, students admitted to the rhetoric and composition concentration are expected to accept research and/or teaching assistantships/fellowships during the period of their matriculation.

PROGRAM REQUIREMENTS
Students admitted to the Rhetoric and Composition doctoral major in Literacy, Rhetoric and Social Practice (LRSP) complete a minimum of 30 semester hours of doctoral-level coursework across the five areas noted above. Students, with guidance from faculty, complete a language requirement and a qualifying examination before writing a dissertation prospectus. The language requirement can be satisfied by either a second language or a representational system, if the latter is relevant to the student's course of study. Upon the successful completion of the qualifying examination, students form a dissertation committee whose members direct the student through the dissertation and the completion of the degree. A description of these requirements is available from the departmental Web site at http://www.kent.edu/english/PhDinRhetoricComposition/.

CANDIDACY
Doctoral students must pass three written examinations in three distinct areas of English studies before being admitted to candidacy. They must also defend a dissertation prospectus.

Courses (ENG)

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

ENG 51002
COMPUTERS IN SECOND LANGUAGE TEACHING (3)
Designed for teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with second language skills.

ENG 51009
STUDENT TEACHING (9)
Supervised practicum in the teaching of ESL, grades P-12. Prerequisite: Admission to student teaching.

ENG 56201/76201
NINETEENTH-CENTURY EUROPEAN LITERATURE (3)
Major European writers of the 19th century: Romanticism, Realism, Naturalism, Symbolism and related movements.

ENG 56203/76203
TWENTIETH-CENTURY EUROPEAN LITERATURE (3)
Major European writers of the 20th century: Modernism, Postmodernism and related movements.

ENG 61000
INTRODUCTION TO RESEARCH AND PEDAGOGY IN CRITICAL READING (3)
Introduction to contemporary methods of literary and cultural criticism and to the profession of teaching English in college.
ENG 61094
INTRODUCTION TO RESEARCH IN THE TEACHING OF COLLEGE WRITING (3)
Using the Kent State program as an example, the focus will be on teaching composition, literature and language, along with the needed planning and evaluation.

ENG 62291/72291
SEMINAR: BRITISH LITERATURE 1800 TO PRESENT (3)
In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.

ENG 63001/73001
METHODOLOGY OF TESL (TEACHING ENGLISH AS A SECOND LANGUAGE) (3)
The theory and methodology of teaching English as a second language.

ENG 63031/73031
SCHOOLS OF LINGUISTICS (3)
Discussion of major trends in linguistic analysis and theory. Course centers on examining central questions, goals and methods of major schools of linguistics.

ENG 63032/73032
FUNCTIONAL LINGUISTICS (3)
Examination of function as it occurs in the description of different levels of linguistic systems. Investigation of the theme dichotomy and method of functional analysis.

ENG 63033/73033
SECOND LANGUAGE ACQUISITION (3)
Cross-listed with MCLS 60661. This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second-language teaching approaches.

ENG 63034/73034
LITERATE PRACTICES AND SOCIOLUMINISCTICS (3)
Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms, and societal multilingualism. Survey of trends in sociolinguistic thought and method.

ENG 63037
PRAGMATICS OF CONVERSATION (3)
Theories of pragmatics, conversational structure and strategies with practical applications for teaching conversation strategies to foreign second-language learners.

ENG 63038
TEACHING LITERATURE AND CULTURE (3)
Cross-listed with MCLS 60622. Students will explore theories of literature and culture teaching, as well as strategies for teaching literature and culture.

ENG 63039
SECOND LANGUAGE CURRICULUM AND TESTING (3)
Cross-listed with MCLS 60663. Students will study second-language curriculum and testing design and current issues, including oral proficiency testing.

ENG 63040
LINGUISTICS FOR THE LANGUAGE PROFESSIONS (3)
Cross-listed with MCLS 60601. Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.

ENG 63041
DESCRIPTIVE GRAMMAR OF ENGLISH (3)
This course provides a description of English syntax and morphology. Presentation of material will be through rules and exposure to grammatical forms in meaningful contexts.

ENG 63098
RESEARCH IN SECOND LANGUAGE PEDAGOGY (3)
Cross-listed with MCLS 60698. Students will learn how second-language research influences their teaching practices by studying research texts and recent journal articles and conducting a research project. Prerequisite: Permission.

ENG 63391/73391
SEMINAR: LINGUISTICS (3)
In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.

ENG 64070/74070
WRITING POETRY (3)
Advanced workshop in creative writing.

ENG 64071/74071
WRITING FICTION (3)
Advanced workshop in the writing of fiction.

ENG 65011/75011
INTRODUCTION TO THE FIELD OF WRITING: THEORY RESEARCH/PRACTICE (3)
Survey introduces writing studies from various perspectives: rhetorical and composition theory, disciplinary and professionalization, several 20th-century theoretical influences and Soviet activity theory.

ENG 65012/75012
READING AND INTERPRETING RESEARCH ON WRITING (3)
Course focuses on how to read critically and interpret published research by examining the principle means through which “knowledge” is constructed in writing research.
ENG 65022/75022  
**RHETORICAL THEORY: GREEK AND ROMAN (3)**  
Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.

ENG 65023/75023  
**RHETORICAL THEORY: 18TH, 19TH AND 20TH CENTURIES (3)**  
Course surveys 18th-, 19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.

ENG 65026/75026  
**LANGUAGE AND HUMAN SCIENCES (3)**  
Course examines how language figures in the frameworks of scholars in various human sciences and the relevance of these approaches for studying language and writing.

ENG 65027/75027  
**ROLE OF COMPOSITION (3)**  
Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.

ENG 65035/75035  
**LINGUISTICS FOR RHETORICIANS (3)**  
Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.

ENG 65044/75044  
**RESEARCH DESIGN (3)**  
Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.

ENG 65050/75050  
**PHILOSOPHY OF LANGUAGE (3)**  
Critical examination of nature and function of language especially in relation to mental function and development.

ENG 65051/75051  
**LITERACY: FUNCTIONS, PRACTICES AND HISTORY (3)**  
Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors (“adaptation,”“power,”“grace”) those studies employ.

ENG 65052/75052  
**WRITING ACTIVITY AS SOCIAL PRACTICE (3)**  
Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.

ENG 65053/75053  
**WRITING TECHNOLOGIES (3)**  
Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.

ENG 65057/75057  
**SEMEIOTICS (3)**  
Cross-listed with MCLS 60020 and PHIL 61055. An introduction to contemporary theories of semiotics and to the application of those theories to linguistics, literature, translation and technology.

ENG 66001/76001  
**EARLY BRITISH LITERATURE THROUGH THE 18TH CENTURY (3)**  
A broad survey spanning many centuries. This course will identify key literary and cultural trends as represented in Beowulf to Blake.

ENG 66002/76002  
**BRITISH AND IRISH LITERATURE FROM THE EARLY ROMANTICS ONWARD (3)**  
Broad, synchronic study of the literature identified with a single period in literary history, embracing various genres and relating the literature to other cultural phenomena of the time.

ENG 66005/76005  
**OLD ENGLISH (3)**  
In-depth study of Old English grammar and vocabulary, accompanied by guided reading of select Old English texts, with further reading in the history and culture of Anglo-Saxon England.

ENG 66042/76042  
**TEACHING ENGLISH IN SECONDARY SCHOOLS (3)**  
A course for the experienced secondary English teacher who wants to explore current thinking in the teaching of literature, language and composition.

ENG 66051/76051  
**SHAKESPEARE (3)**  
Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.

ENG 66052/76052  
**SURVEY OF CHILDREN’S LITERATURE (3)**  
Cross-listed with C&I 6/77315. Wide reading in children's literature, with particular application to the school curriculum and the field of reading.

ENG 66053/76053  
**CRITICISM OF CHILDREN’S LITERATURE (3)**  
Cross-listed with C&I 6/77316. A critical study of outstanding children's literature from early times to the present. Prerequisite: ENG 31038, special approval.
ENG 66054/76054
BUSINESS AND TECHNICAL WRITING (3)
Development of skills for writing business and technical material in clear, effective and correct English.

ENG 66101/76101
LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR (3)
Broad, synchronic study of U.S. literature identified with a single period in literary history, embracing various genres and relating the literature to other cultural phenomena of the time.

ENG 66102/76102
LITERATURE OF THE UNITED STATES AFTER THE CIVIL WAR (3)
Intensive survey of the major movements and cultural/ethnic diversity of American poetry, drama, fiction and literary nonfiction from Realism to Postmodernism.

ENG 66103/76103
ETHNIC LITERATURE OF THE UNITED STATES (3)
An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.

ENG 66104/76104
AFRICAN-AMERICAN LITERATURE (3)
An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture, identity or history.

ENG 66301/76301
WORLD LITERATURE IN ENGLISH (3)
A survey of important works written in English by writers not native to Britain, Ireland or the United States.

ENG 66302/76302
POST-COLONIAL LITERATURE IN ENGLISH (3)
An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.

ENG 66401/76401
LITERARY MOVEMENTS (3)
An examination of one particular movement in literary history via its writers, artists, benefactors, thinkers, political demagogues and critics.

ENG 66501/76501
NARRATIVE LITERATURE (3)
Close readings of selected novels, short stories, biographies, autobiographies, life writing, journals and other forms of narrative and verse by British, American and other writers in English, from one or more periods in literary history.

ENG 66502/76502
DRAMATIC LITERATURE (3)
Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States from one or more periods in literary history.

ENG 66503/76503
POETRY AND/OR POETIC LITERATURE (3)
Close reading of selected poems and other poetic forms by writers of Britain, Ireland or the United States, from one or more periods in literary history.

ENG 66504/76504
WOMEN WRITERS (3)
Close readings of important works written in English by women from one or more periods in literary history.

ENG 66505/76505
LITERARY MODES (3)
Analysis of works, in various genres from various periods, which generate similar responses, with emphasis on defining the source of response. Content varies.

ENG 66592/76592
PRACTICUM IN TUTORING WRITING (1)
Practical training and experience in tutoring composition.

ENG 66595/76595
SPECIAL TOPICS: AUTHORS AND AUTHORSHIP (3)
Research-based study of problems in the theory or practice of authorship. Typical courses include “The Creative Process,” “Authors and Printers,” “Faulkner in Hollywood.”

ENG 66706/76706
METHODS IN THE STUDY OF LITERATURE (3)
Analytical reading and interpretation of published research and criticism, its assumptions, trends, controversies; course will identify and contextualize present opportunities for research in field. Required for Ph.D.s specializing in Division II.

ENG 66791/76791
SEMINAR: BRITISH AND IRISH LITERATURE (3)
In-depth treatment of various topics from Old English literature, Beowulf, Middle English literature and Chaucer.

ENG 66795/76795
SPECIAL TOPICS: COMPARATIVE LITERATURE (3)
Selected topics in comparative literary studies that range from issues in the European novel to the study of literary movements and the related arts.

ENG 66891/76891
SEMINAR: LITERATURE OF THE UNITED STATES (3)
This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.
ENG 66895/76895
SPECIAL TOPICS (3)
Study of selected special topics in literature.

ENG 66991/76991
SEMINAR: GENRE (3)
In-depth examination of one or more kinds of text focusing on how forms are defined historically and analytically, with special attention to current approaches.

ENG 67001/77001
HISTORY OF LITERARY THEORY (3)
A consideration of the major texts and issues that have shaped literary theory and criticism from the Classical period to 20th-century New Criticism.

ENG 67002/77002
CONTEMPORARY LITERARY THEORY (3)
A survey of the major works of literary theory written after 1950.

ENG 67101/77101
FEMINIST THEORY AND CRITICISM (3)
Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.

ENG 67102/77102
GENDER THEORY AND CRITICISM (3)
An overview of the current field of literature-related discourses on gender construction, with attention to crucial historical texts that have shaped the contemporary debate.

ENG 67103/77103
PSYCHOANALYTIC THEORY AND CRITICISM (3)
Study of important issues and concepts in psychoanalytic theory and criticism. Repeatable as content varies.

ENG 67104/77104
SOCIAL AND CULTURAL THEORY AND CRITICISM (3)
Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social/cultural theory and criticism. Repeatable as content varies.

ENG 67105/77105
STRUCTURALIST AND POSTSTRUCTURALIST THEORY AND CRITICISM (3)
Study of important issues and concepts in structuralist semiotics, narratology, rhetoric, genre theory and discourse theory. Repeatable as content varies.

ENG 67106/77106
HISTORICIST THEORY AND CRITICISM (3)
Study of current approaches to literary history and various historical approaches to the study of literature.
ENG 85024
DOMAIN RHETORICS AND THE CONSTRUCTION OF KNOWLEDGE (3)
Course examines disciplinarity and knowledge production as historically and socially situated practices and how they are realized through linguistic, rhetorical and material processes and systems.

ENG 85025
THEORIES AND SYSTEMS OF WRITING AND REPRESENTATION (3)
Course examines the history and use of scripts and other means of constructing shared meaning and the attendant contemporary issues concerning writing and representation.

ENG 85033
THE RHETORICAL NATURE AND FUNCTION OF EXTENDED DISCOURSE (3)
Examines rhetorical nature and function of written discourse from social, cultural and psychological perspectives and how discourse production and interpretation interact with relevant contexts. Prerequisite: ENG 63031 or ENG 73031; and 9 doctoral hours of ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057.

ENG 85041
FIELD RESEARCH METHODS IN WRITING (3)
Course focuses on qualitative methods for conducting field research in writing within communities of practice and particular contexts and for analyzing and interpreting data. Prerequisite: 9 doctoral hours of ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057.

ENG 85042
DISCOURSE ANALYSIS (3)
Course explores various approaches to discourse analysis (e.g., speech act theory, pragmatics, ethnography of communication, conversation analysis) and applies them to linguistic analyses of discourse. Prerequisite: ENG 63031 or ENG 73031; and 9 doctoral hours in ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057.

ENG 85043
HISTORICAL RESEARCH METHODS IN WRITING AND RHETORIC (3)
Course explores methods for the historical study of rhetoric and writing: archival research, ethnography, narrative theory and disciplinary and institutional historiography. Prerequisite: 9 doctoral hours of ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057.

ENG 85054
STUDIES IN LITERACY AND COMMUNITY (3)
Course expands on ENG 6/75052 by examining in more detail how literacy is embedded in the activities and practices of academic, civic and professional communities.

ENG 85055
THE NATURE AND RELATIONSHIP OF ACADEMIC AND NON-ACADEMIC LITERACY (3)
Course explores the relationship between academic and non-academic literacy, focusing on relationships pertaining to the school-to-work transitions that students make. Prerequisite: Permission.

ENG 85060
DIRECTED READINGS IN WRITING AND RHETORIC (3)
Topics covered will vary according to the needs of students demonstrating deficiency in qualifying exams and/or requiring additional work before undertaking a dissertation project.

ENG 88098
RESEARCH (1-15)
Research or individual investigation for doctoral students who have not yet passed candidacy examination. Credits earned may be applied toward degree if department approves. Repeat registration permitted. Prerequisite: Permission of the graduate chair.

ENG 89199
DISSERTATION I (15)
Doctoral dissertation, for which registration in two semesters is required, first of which will be the semester in which dissertation work is begun and continuing until completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy for doctoral degree.

ENG 89299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ENG 88199.
The Department of Geography offers graduate programs of study leading to the Master of Arts and Doctor of Philosophy degrees. The department offers specialties in urban/economic geography, Cartography, Geographic Information Science, climatology and social geography.

ADMISSION
In addition to regular application requirements of the university, all applicants must submit scores on the Graduate Record Examination and a statement of research interest. For more information, visit the departmental Web site at http://dept.kent.edu/geography.

Master of Arts

PROGRAM REQUIREMENTS
The curriculum for the Master of Arts degree is designed to meet the needs of students who expect to continue with a professional career in academic or applied fields such as business, environmental or social planning, geographical information systems or cartography in private or governmental agencies. Students must complete GEOG 60800, 69004 and 69701 as well as other courses suggested by their thesis advisory committees. Students may elect to write a thesis or two research papers.

Doctor of Philosophy

PROGRAM REQUIREMENTS
The program for the Doctor of Philosophy degree is designed to provide specialized training and inquiry into contemporary problems in geography. Students should take courses with the advice of the department and their dissertation advisory committees. At least 6 hours of coursework must be taken in a cognate field in a department other than geography.

CANDIDACY
Candidacy examinations are taken after the dissertation proposal is approved by the committee. This should be completed by the end of the second year of doctoral study.

Courses (GEOG)

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

- GEOG 50093/70093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY (1-5) S/U grading; IP permissible.
- GEOG 50195/70195 SPECIAL TOPICS IN GEOGRAPHY (1-3) Prerequisite: Special approval.
- GEOG 50292/70292 FIELD EXPERIENCE IN GEOGRAPHY (1-6) Examination of geographic landscapes in the field. Prerequisite: Special approval.
- GEOG 50392/70392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS (1-6) Examination of newly emerging geographic topics and techniques. Prerequisite: Special approval.
- GEOG 51050/71050 POLAR AND ALPINE ENVIRONMENTS (3) The geographic features of the Earth's cold, treeless regions are examined, including climate, soils, glaciers, permafrost, plant and animal life and human activities. Prerequisite: GEOG 21062 or permission.
- GEOG 51062/71062 ADVANCED PHYSICAL GEOGRAPHY (3) Advanced systematic analysis of the elements of physical geography. Specific methodologies and their application to physical geography are also discussed.
- GEOG 51066/71066 CLIMATE CHANGE AND ITS IMPACTS (3) Examination of the evidence and causes of climate change and how these data are assessed. Past, present, and future impacts of climate change and variability are discussed, along with policy implications.
- GEOG 51073/71073 CONSERVATION OF OUR NATURAL RESOURCES (3) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.
GEOG 51074/71074
RESOURCE GEOGRAPHY (3)
Cultural attitudes, conceptual approaches and techniques in resource geography; analysis of selected resource issues at various area scales.

GEOG 51082/71082
GEOGRAPHY OF SOILS (3)
Study and analysis of different soil types in their relation to geographic factors.

GEOG 52052/72052
MEDICAL GEOGRAPHY (3)
Examines the geographic patterns of morbidity and mortality, environmental correlates of major diseases and disease diffusion. Locational and accessibility issues of health care are discussed.

GEOG 52064/72064
HISTORICAL GEOGRAPHY OF THE UNITED STATES AND CANADA (3)
Study of regional origins, growth, evolution of spatial organization, changing evaluation of environments and selective geographies in United States and Canada from pre-colonial times to present.

GEOG 54010/74010
GEOGRAPHY OF THE GLOBAL ECONOMY (3)
Geographic analysis of the increasing inter-connectedness of economic activity. The social, technological, and political changes associated with globalization are also discussed.

GEOG 54070/74070
SPATIAL ANALYSIS AND LOCATION THEORY (3)
Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems, behavioral models in economic geography, and spatial allocation problems.

GEOG 55085/75085
URBAN TRANSPORTATION (3)
Spatial interaction patterns in urban environments. Travel behavior, commodity flows, traffic patterns and urban transportation systems. Urban transportation problems. Theoretical developments and techniques of analysis in urban transportation.

GEOG 56035/76035
MARKETING GEOGRAPHY (3)
Study of spatial arrangement and functions of market centers and the internal spatial patterns of retail/wholesale facilities in urban areas.

GEOG 56065/76065
ADVANCED URBAN GEOGRAPHY (3)
Investigation of advanced concepts pertaining to the spatial structure of urban areas.

GEOG 56070/76070
URBAN AND REGIONAL PLANNING (3)
Analysis of the geographical aspects of planning for cities and regions.

GEOG 56092
INTERNSHIP IN GEOGRAPHY AND PLANNING (3-6)
Preprofessional work experience in local, regional and environmental planning agencies and private business designed to utilize and develop academic skills. Prerequisite: Permission.

GEOG 59070/79070
GEOGRAPHIC INFORMATION SCIENCE (3)
Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management, and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real world applications.

GEOG 59076/79076
SPATIAL PROGRAMMING (3)
Examination of the design, development, and use of geographic information technologies with computer programming to model, process, and visualize geographic phenomena. Prerequisite: GEOG 4/5/79070.

GEOG 59080/79080
ADVANCED GEOGRAPHIC INFORMATION SCIENCE (3)
Advanced theories and techniques for handling geographic information systems, including 2D and 3D processing of geographic information, detection and analysis of geographic patterns, 2D and 3D mapping of geographic information, modeling of geographic processes, and an overview of GIS programming tools. Prerequisite: GEOG 4/5/79070

GEOG 59162/79162
ADVANCED CARTOGRAPHY (3)

GEOG 59163/79163
ADVANCED CARTOGRAPHY LABORATORY (1)
Practical experience in the techniques of the production and reproduction of maps.

GEOG 59165/79165
GEOMAPPING (3)
Information theory, data collection, automated mapping systems, representation of surfaces, lines and points, geographic data structures and applications. Mapping by line printer, plotters and interactive terminals.

GEOG 59210/79210
EARTH IMAGERY (3)
The student in this course will be introduced to the full variety of methods of imaging the earth for environmental analysis, including satellite methods. Prerequisite: GEOG 29160.
GEOG 59211/79211
EARTH IMAGERY LAB (1)
This course will support the lecture course, Earth Imagery, by giving the student exposure to the methods of manual measurement and interpretation of images. Corequisite: GEOG 5/79210.

GEOG 59230/79230
REMOTE SENSING (3)
Cross-listed with GEOL 5/72030 Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized.

GEOG 59480/79480
FIELD STUDY IN GEOGRAPHY (3)
Present methods of planning and structuring field studies, the techniques of mapping and data gathering in the analysis of local field problems. Prerequisite: Special approval.

GEOG 59482
FIELD STUDY OF SELECTED RURAL AND URBAN AREAS (5)
Field studies of rural and urban regional problems in the United States or Canada. One month or more in field; written report on findings. Limited to 15 students. Students pay for own board and laboratory fee. Prerequisite: Permission of instructor.

GEOG 59890/79890
APPLIED GEOGRAPHY (3)
Detailed investigation of application of geographic techniques and knowledge toward problem solving in the “real world.”

GEOG 60191/70191
SEMINAR IN TOPICAL GEOGRAPHY (3)
Seminars in one of the major topical fields in geography offered by title in given semester.

GEOG 60197/80197
INTRADEPARTMENTAL COLLOQUIUM (2)
One hour credit per semester. S/U grading; IP permissible.

GEOG 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester, distributed over several semesters if desired. S/U grading; IP permissible.

GEOG 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: GEOG 60199.

GEOG 60800/70800
SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT (3)
Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.

GEOG 60881/70881
CONTEMPORARY ISSUES IN GEOGRAPHY (3)
Review of some of the important philosophical, methodological and contextual research areas in geography. Designed to expose students to potential research areas.

GEOG 60996
RESEARCH IN GEOGRAPHY (1-3)
Individual research problems in geography. IP permissible. Prerequisite: Permission.

GEOG 60998
RESEARCH (1-15)
Research or individual investigation for master’s-level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves. Repeat registration permitted.

GEOG 62062/72062
BEHAVIORAL GEOGRAPHY (3)
Focuses on spatial perception, cognition and behavior. How we collect and process spatial information, behavior in space, locate space and interact in space.

GEOG 64040/74040
SEMINAR IN ECONOMIC GEOGRAPHY (3)
Survey of recent literature in economic geography, including industrial and technological change, services and the world economy.

GEOG 67091/77091
SEMINAR IN REGIONAL GEOGRAPHY (3)
Seminar on one of the major regions of the world offered by title in given semester.

GEOG 69004/79004
ANALYSIS OF SPATIAL DATA (3)
Application of distance measures and taxonomic techniques, analysis of association between different distributions, explanation and prediction of spatial and temporal trends—regression methods (linear and nonlinear), trend surface techniques, and spatial autocorrelation to the geographic analysis and spatial distributions. Prerequisite: GEOG 39002 or permission.

GEOG 69009/79009
SPATIAL ALGORITHMS (3)
This course explores the methodologies of how to conduct spatial analyses in a computer environment. Half the course will be in a structured teaching context and half will be project work. Prerequisite: GEOG 4/S/79006 or permission.

GEOG 69010/79010
URBAN INFORMATION AND SYSTEMS METHODOLOGY (2)
Urban information processing procedures for acquiring and using information; research design that emphasizes systems planning prior to research; quantitative methods and stress analysis of statistical results.
Geography

GEOG 69694/79694
COLLEGE TEACHING OF GEOGRAPHY (2-3)
Staff training and experience in college teaching. S/U grading. Repeat registration permitted up to 10 hours for doctoral students. Maximum of 3 hours applicable toward master’s degree requirements (with department’s approval).

GEOG 69701
RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA (3)
Critical discussion of techniques of geographic research and preparation and presentation of research papers.

GEOG 71060
SEMINAR IN PHYSICAL GEOGRAPHY (3)
Research and investigation concerning theories and concepts relevant to formation of physical elements of earth’s environment. Direct and indirect relationships of physical processes — human activity and physical environment.

GEOG 72061
SEMINAR IN CULTURAL GEOGRAPHY (3)
Investigation of theories, concepts and trends in cultural geography. Impact of beliefs, values and attitudes on rural and urban landscape.

GEOG 75065
SEMINAR IN THE GEOGRAPHY OF TRANSPORTATION (2)
Concepts and theories of distribution of modes of transportation as geographic factor in spatial analysis of integrated regional development.

GEOG 76081
SEMINAR IN URBAN GEOGRAPHY (3)
Theoretical explanations of urban spatial patterns. Application of contemporary theories, concepts and methods to selected urban geographic problems.

GEOG 79007
QUANTITATIVE METHODS IN GEOGRAPHY (3)
Quantitative methods in the geographic analysis of spatial phenomena. Statistical methods of regional analysis and synthesis.

GEOG 79808
ADVANCED SPATIAL MULTIVARIATE TECHNIQUES (2)
Geographic application of multivariate techniques such as: multidimensional scaling, spatial filtering, and linear programming to the spatial analysis of flows, surfaces and distributions. Prerequisite: GEOG 79007.

GEOG 80199
DISSERTATION I (15)
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy for doctoral degree.

GEOG 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: GEOG 80199.

GEOG 80998
RESEARCH (1-15)
Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves. Repeat registration permitted. IP permissible.

GEOG 81091
RESEARCH IN PHYSICAL RESOURCES (2-3)
Research on basic processes related to formation of physical environment. Investigation of significant variables in resource utilization relevant to regional planning and development. IP permissible.

GEOG 81098
RESEARCH IN URBAN CLIMATOLOGY (2-3)
Research on basic climatological processes both macro and micro by use of established instrument stations. Influence of expanding urbanization on climatic modification. IP permissible.

GEOG 82091
RESEARCH IN HUMAN RESOURCES (2-3)
Research on basic processes related to formation of cultural environment. Investigation of significant variables in human resource allocation and utilization, manpower, education, etc., as factors in growth and development of region. IP permissible.

GEOG 89082
FOREIGN FIELD RESEARCH (1-5)
Application of field, statistical and cartographic techniques to methodological or conceptual problems in foreign region. Emphasis on research design. IP permissible. Prerequisite: Knowledge of a language of the region.

GEOG 89092
GRADUATE FIELD CAMP (5)
Field research problems involving individual investigation of specific urban or rural region.

GEOG 89098
RESEARCH IN CARTOGRAPHY (1-3)
Investigations into function of map as medium of scientific expression; problem of map design in relation to human perception of graphically expressed spatial information.
GEOLOGY

Daniel Holm, Chair
221 McGilvrey Hall
330-672-2680
dholm@kent.edu

Joseph D. Ortiz, Coordinator of Graduate Studies
334/336 McGilvrey Hall
330-672-2225
jortiz@kent.edu

The Department of Geology provides qualified students the opportunity for advanced study in a wide variety of geologic fields leading to the Master of Science degree, and in specific applied geologic fields leading to the Doctor of Philosophy degree. Research and formal coursework are fundamental to both programs. Independence, imagination and innovation are given equal emphasis with mastery of established research methods. Coursework is tailored to each individual’s needs and desires provided these are consistent with sound geologic training. The general admission requirements for both programs are those of the university.

In addition to the general university requirements in all but the most exceptional circumstances, we require:

- A cumulative grade point average of 3.0 on a four-point grading scale.
- Three letters of recommendation written by persons qualified to assess the student’s capabilities for advanced studies in geology.
- A one-page description of the student’s research interests and career plans.
- An official report of scores for the verbal, quantitative and analytical writing tests of the Graduate Record Examination (GRE).

Procedural details, additional information about the department and application information are given on our website at http://www.dept.kent.edu/geology.

ADMISSION

All applicants must complete the university and departmental admission requirements as described above. The department accepts students with degrees in geology or from related science and engineering fields. As a means of ensuring that students are prepared for advanced coursework and independent research in geology, students enrolled in the graduate program are required to have a demonstrated knowledge of mineralogy, petrology, structural geology, stratigraphy, and a five-week or longer geological field camp. Students entering the program can meet these requirements either through formal undergraduate or graduate coursework completed prior to, or while enrolled in their graduate course of study. In certain instances, some of these requirements can be fulfilled through credit by exam or may be waived if the applicant can demonstrate that specific required courses are not relevant to their intended program of study. Please contact the graduate coordinator for additional information.

PROGRAM REQUIREMENTS

To be awarded the master’s degree, a student must complete 32 semester credits (including thesis and research credits); maintain a 3.0 or greater GPA; participate in required seminars, research orientation and colloquia; and incorporate the results of a program of original geologic research in an acceptable, publicly defended thesis. There is no foreign language requirement.

Doctor of Philosophy

The department offers an applied geology program leading to the Doctor of Philosophy degree. Students earning this degree must demonstrate mastery of geologic content knowledge and a contribution toward the advancement of knowledge in some significant aspect of applied geology. Doctoral study in the department entails work in applied geology in one (or in some cases more) of the following areas: Engineering Geology, Hydrology and the Environment, Invertebrate Paleontology, Quaternary Studies and Climate Change, or Structural Geology, Tectonics and Petrology. A major topic for the dissertation and candidacy examinations must be chosen from one of these program areas. Interdisciplinary research opportunities are available through the University’s Water Resources Research Institute, which gives students access to professors, specialized research laboratories, and equipment in the Departments of Geology, Biological Sciences, Chemistry and Geography.

ADMISSION

All applicants must complete the university and departmental admission requirements as described above. A student can gain admission to the doctoral program at any time after completion of the baccalaureate degree. It is expected, however, that most students who do not possess the master’s degree prior to admission will gain this degree in the department prior to proceeding with doctoral study.

The department accepts students with degrees in geology or from related science and engineering fields. As a means of ensuring that students are prepared for advanced coursework and independent research in geology, students enrolled in the graduate program are required to have a demonstrated knowledge of mineralogy, petrology, structural geology, stratigraphy, and a five-week or longer geological field camp. Students entering the program can meet these requirements either through formal undergraduate or graduate coursework completed prior to, or while enrolled in their graduate course of study. In certain instances, some of these requirements can be fulfilled through credit by exam or may be waived if the applicant can demonstrate that specific required courses are not relevant to their intended program of study. Please contact the graduate coordinator for additional information.
Geology

PROGRAM REQUIREMENTS
The courses taken by doctoral students are determined jointly with members of the graduate faculty of the department but in all cases must fulfill certain basic requirements. All students must maintain a 3.0 or greater GPA. Coursework shall be arranged so that it embraces one major area of concentration in applied geology and a minor area related to another aspect of geology.

RESIDENCY
All students admitted to the doctoral program must complete two successive semesters of full-time graduate study at Kent State University. During this time they must obtain a minimum of 22 semester credits.

ADDITIONAL BREADTH REQUIREMENT
All students working toward the doctoral degree must demonstrate either proficiency in a modern language other than their native language, or alternatively, knowledge sufficiently advanced to propose research in a field ancillary to the student’s major. To satisfy this requirement the student must either pass an appropriate foreign language test or prepare and defend orally a written research proposal in an ancillary field of study.

CANDIDACY
To be admitted to candidacy for the doctoral degree, a student must first fulfill the additional breadth requirement and must pass comprehensive written and oral examinations. Both of these requirements must be met prior to the start of the fifth semester after admission to the doctoral program. The comprehensive examinations focus on mastery of the student’s major area of concentration and one minor area, as well as the fundamentals of geology and its allied sciences as appropriate to the student’s proposed dissertation topic. Students who fail the comprehensive examinations may be allowed to repeat them once; this must be completed more than one month after the initial examination, but less than six months thereafter.

Courses (GEOL)

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

GEOL 50093/70093
VARIABLE TITLE WORKSHOP IN GEOLOGY (1-8)
Workshop or training program focused on a specific professional or disciplinary topic within geology. Repeat registration permitted. S/U grading. Prerequisite: Permission.

GEOL 50095
SELECTED TOPICS IN GEOLOGY (3)
Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

GEOL 51025
GENERAL GEOPHYSICS (3)
Physics of earth. Seismology; geomagnetism; heat flow, radioactivity, geochronology, gravity and isostasy, geotectonic models. Lecture 3 hours weekly. Required field trip. Prerequisite: GEOL 31070 and 31080, MATH 12002, PHY 13001 or PHY 23001.

GEOL 51073
GEOLOGY OF OHIO (3)
Minerals, rocks, fossils, structural geology, physiography, environmental geology, geologic resources. Required field trips. Does not satisfy requirements for major in geology.

GEOL 51075
GEOLOGY OF THE UNITED STATES (3)
Distribution of natural regions and geologic features of the United States. Geologic concepts illustrated by detailed examination of selected areas. Prerequisite: GEOL 31070 and 31080 or permission.

GEOL 51077
GEOLOGY OF THE NATIONAL PARKS (3)
Introduction to the geology of selected major national parks, emphasizing basic geologic principles and processes which have produced the spectacular scenery, rocks and fossils in each park. Does not satisfy requirements for major in geology.

GEOL 51079
ALL ABOUT DINOSAURS (3)
Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology, and evolutionary relationships. Does not satisfy requirements for major in geology.

GEOL 51080
TECTONICS AND OROGENY (3)
Introduces advanced concepts of plate tectonics and mountain building with emphasis on western United States and Appalachians. Required field trip. Prerequisite: GEOL 31080.
GEOL 51092
SUMMER FIELD CAMP (6)
Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in Black Hills, South Dakota. IP permissible. Prerequisite: GEOL 31070 and 31080 or permission. Special fee: On actual cost basis.

GEOL 52030/72030
REMOTE SENSING (3)
Cross-listed with GEOG 5/79030.
Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized.

GEOL 52035/72035
SCIENTIFIC METHOD IN GEOLOGY (3)
Applying scientific method in the field and lab; models and sampling procedures. Collecting and analyzing data. Formulating and testing hypotheses. Lecture two hours, lab two hours.

GEOL 52067
INTRODUCTORY HYDROGEOLOGY (3)
Occurrence of groundwater in geologic materials; emphasizing utilization, conservation and management of groundwater resources. Lecture 2 hours, laboratory 2 hours weekly. Prerequisite: GEOL 31070 and 32066, MATH 12002 or permission.

GEOL 52068
CONTAMINANT HYDROLOGY AND HYDROGEOLOGY (3)
An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems. Prerequisite: GEOL 4/52067, CHEM 10060, 10061, 10062, 10063.

GEOL 52069/72069
HYDROGEOCHEMISTRY (3)
Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to groundwater and pollution problems. Lecture 3 hours weekly. Prerequisite: 10 hours of chemistry.

GEOL 52074
ENVIRONMENTAL CORE AND WELL LOGGING (3)
Examination of subsurface processes and the distribution of stratigraphic layers using core and well logging techniques based on analysis of physical properties of sediment, rock and pore fluids. Applications to paleoclimate, hydrogeology, engineering geology, oil and gas exploration and environmental remediation. Prerequisite: GEOL 31070.

GEOL 52078
ENGINEERING GEOLOGY (4)
Engineering properties of soils and rocks. Site evaluation for building foundations, dams, tunnels and highways. Slope stability. Lecture 3 hours, laboratory 2 hours weekly.

GEOL 53040
PRINCIPLES OF GEOCHEMISTRY (3)
Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the earth and laws governing these distributions. Prerequisite: GEOL 31070, MATH 12002, and CHEM 10060 and CHEM 10061.

GEOL 53066
OPTICAL PETROGRAPHY (3)
Theory of optical crystallography and the microscopic examination and identification of igneous, sedimentary and metamorphic rocks in thin section. Lecture 2 hours, laboratory 2 hours weekly. Prerequisite: GEOL 31070.

GEOL 5/74052
GLACIERS AND GLACIATION (3)
Examination of how glacial ice masses change the shape of the Earth’s surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

GEOL 54070
PRINCIPLES OF STRATIGRAPHY (4)
Basic concepts of physical stratigraphy and stratigraphic practice. Required field trips. Prerequisite: GEOL 31070 and 34061 or permission.

GEOL 54074
PALEOECEANOGRAPHY (3)
A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy, is employed to interpret the history of Earth’s oceans.

GEOL 60080/70080
RESEARCH ORIENTATION (1)
Faculty research presentations; thesis/dissertation proposal preparation; discussion of professional organizations, preparation of manuscripts, and oral presentation of papers. S/U grading.

GEOL 60091/70091
SEMINAR (1 OR 2)
Specialized topics in geology. Precise title to be inserted in Schedule of Classes.

GEOL 60094/70094
COLLEGE TEACHING OF APPLIED GEOLOGY (1)
Training and experience in presentation of data and college teaching of applied geology, as well as a discussion forum on professional ethics and responsibilities.
GEOL 60095
SELECTED TOPICS IN GEOLOGY (3)
Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

GEOL 60098
RESEARCH (1-15)
Research for master’s-level students. Credits earned may be applied toward degree if department approves. Repeat registration permitted. S/U grading; IP permissible.

GEOL 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

GEOL 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: GEOL 60199.

GEOL 61020/71020
ADVANCED STRUCTURAL GEOLOGY (3)
Theoretical and applied studies in structural geology, including mechanical, mathematical, model and field investigations. Required field trip. Prerequisite: GEOL 31080 or permission.

GEOL 61050/71050
PRECAMBRIAN GEOLOGY (3)
Study of earth history and processes during the Precambrian, including role of plumes, meteorite bombardment, and tectonic processes on crustal evolution. Covers age of the Earth, formation and growth of crust, superplumes and supercontinents.

GEOL 61093/71093
WORKSHOP IN COLLEGE TEACHING (1-2)

GEOL 61094/71094
COLLEGE TEACHING (1-2)

GEOL 62011/72011
HYDROLOGY (3)
Introduction to hydrologic measurements, properties of water, precipitation, evapotranspiration, runoff computations, streamflow and flood routing. Prerequisite: GEOL 32066 or equivalent.

GEOL 62025/72025
EXPLORATION GEOPHYSICS (3)
Application of magnetic, gravity, seismic and electrical methods to the solution of geologic problems and in resource exploration involving practical study in selected areas. Prerequisite: GEOL 4/51025.

GEOL 62063/72063
COMPUTER SIMULATION IN GEOLOGY (3)
Spatial and temporal considerations in geoscience simulations. Use of geological data in modeling verification and validation of models. Display techniques. Sensitivity and Monte Carlo analyses.

GEOL 62065/72065
HYDROGEOLOGICAL SYSTEMS (3)
Advanced study, construction and application of a variety of modeling techniques to solve groundwater-related problems. Design, construction, programming and operation of analog and numerical models. Prerequisite: GEOL 4/52067 and 6/72068.

GEOL 62066/72066
QUANTITATIVE GEOMORPHOLOGY (3)
Interactions of land-forming systems. Slope processes, erosion, stream hydrology including runoff relations and discharge curves. Algebra of streams and topologic structure. Lecture 2 hours, laboratory 1 hour weekly. Prerequisite: GEOL 32066 and 4/5/72035 or permission.

GEOL 62067/72067
GEOPHYSICAL FLUID DYNAMICS (3)
Consideration of basic physical equations of fluid flow. Application to hydraulics, atmosphere, oceans and mechanics of ice motion. Numerical and computer implementation. Prerequisite: MATH 12002 and 12003 or equivalent.

GEOL 62068/72068
ADVANCED HYDROGEOLOGY (3)
Quantitative approach to occurrence of groundwater; methods of investigation, evaluation and development of groundwater resources, emphasizing optimization and maximal exploitation without environmental changes. Prerequisite: GEOL 4/52067; MATH 12001 or 12003 or permission.

GEOL 62070/72070
GEOLOGY AND THE LAW (3)
Legal aspects of the practice of geology as a profession. Emphasis is placed on the sources of the law that affect the practice both substantively and procedurally.

GEOL 62079/72079
ADVANCED ENGINEERING GEOLOGY (3)
Role of geology in site selection, design and construction relative to dams, tunnels, highways, slope stability and nuclear power plants. Selected case histories. Lecture 3 hours weekly. Field trip and term paper required. Prerequisite: GEOL 4/52078.

GEOL 62082/72082
INTRODUCTION TO SOIL MECHANICS (4)
Engineering properties and engineering behavior of soils including classification properties, compaction, permeability, strength and compressibility. Lecture 3 hours, laboratory 2 hours weekly. Prerequisite: GEOL 31080.
GEOL 62083/72083
ROCK SLOPE STABILITY (3)
Provide information used to recognize, avoid, design for, control and correct slope movements in rocks; determination of shear strength along rock discontinuities; stability analysis of rock slopes. Prerequisite: GEOL 4/52078.

GEOL 62084/72084
FOUNDATION ENGINEERING (3)

GEOL 63045/73045
ADVANCED GEOCHEMISTRY (3)
Advanced study of selected topics in low temperature and/or high temperature geochemistry, including principles of phase equilibria and applications to geochemical systems. Prerequisite: GEOL 4/53040.

GEOL 63046/73046
RADIOGENIC ISOTOPE GEOLOGY (3)
Distribution and production of radiogenic isotopes in the Earth's crust. Principles of isotopic geochronology in selected mineral-rock systems, including: Rb-Sr, U-Th-Pb, and K-Ar. Modern instrumental methods of isotopic analysis and in-situ geochronology of rocks and minerals. Prerequisite: GEOL 4/53040 or equivalent.

GEOL 63047/73047
SELECTED INSTRUMENTAL METHODS OF GEOCHEMICAL ANALYSIS (3)
Selected spectroscopic techniques commonly used in analysis of geological samples. Laboratory teaches geological sample preparation, analytical methods development, and operation of chemical instrumentation. Prerequisite: GEOL 4/53040 or permission.

GEOL 63052/73052
X-RAY CRYSTALLOGRAPHY (3)
Investigation of crystalline materials by their diffraction of X-radiation. Applications of the powder method in mineralogy are emphasized. Lecture 2 hours, laboratory 2 hours weekly. Prerequisite: Permission.

GEOL 63055/73055
ADVANCED IGNEOUS AND METAMORPHIC PETROLOGY (3)
Petrogenic processes relevant to evolution of selected rock groups. Petrologic techniques and methods of analysis. Microscopic study of selected rock suites. Required field trip. Prerequisite: GEOL 4/53066.

GEOL 63063/73063
SEDIMENTARY PETROLOGY (3)
Classification, texture, composition, provenance and diagenesis of sandstones and carbonates, following review of optical mineralogy. Petrographic microscopy and other laboratory techniques are emphasized. Prerequisite: GEOL 31070.

GEOL 63067/73067
CARBONATE ROCKS (3)
Basic principles of carbonate sedimentology including composition, classification origin and distribution of carbonate sediments, their diagenesis and lithification. Prerequisite: GEOL 4/53066.

GEOL 63069/73069
CLAY MINERALOGY (3)
Clay mineral classification, structures, identification. Formation, geochemical principles, chemical weathering, diagenesis, metamorphism, wallrock alteration. Industrial uses, engineering applications. Lecture 2 hours, laboratory 2 hours weekly.

GEOL 63085/73085
GEOCHEMICAL EXPLORATION (3)

GEOL 64028/74028
PALEEOECOLOGY (3)
Relationships between ancient organisms and their environments, as interpreted from fossils, enclosing rock strata and recent analogs. Field and laboratory studies. Saturday field trips. Prerequisite: GEOL 34061 or equivalent.

GEOL 64030/74030
SYSTEMATIC INVERTEBRATE PALEONTOLOGY I (3)
Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Protista, Porifera, Cnidaria and Bryozoa. Numerous oral reports, specimen examination. Prerequisite: GEOL 34061 or equivalent.

GEOL 64032/74032
SYSTEMATIC INVERTEBRATE PALEONTOLOGY II (3)
Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Brachiopoda, Mollusca, Arthropoda and Echinodermata. Numerous oral reports, specimen examination. Prerequisite: GEOL 34061 or equivalent.

GEOL 64034/74034
MICROPALEONTOLOGY (3)
Study of more important microfossil groups found in geologic record, emphasizing Foraminifera, Ostracoda and Conodonts. Techniques for collecting, preparing and studying microfossils. Prerequisite: GEOL 34061 or equivalent.
Geology

GEOL 64036/74036
CENOZOIC CLIMATE CHANGE (3)
An overview of the concepts and principles involved in interpreting global and hemispheric Cenozoic climate change (past 65 million years). Emphasis on particular temporal and spatial scales and cycles. Extensive reading in scientific journals.

GEOL 64038/74038
PALEOLIMNOLOGY (3)
An overview of significant topics and applications in paleolimnology of Holocene (last 10,000 years) and Pleistocene (last 2 million years) records, including current issues in environmental and climatic reconstruction. Extensive reading in scientific journals.

GEOL 64065/74065
SEDIMENTOLOGY (3)
Fluid dynamics, grain transport, sedimentary structures, granulometry, bedform and facies sequences, and facies architecture. Interpretation of continental and marine clastic depositional environments and processes.

GEOL 64067/74067
TECTONICS AND SEDIMENTATION (3)
The distribution and migration of depositional sedimentary environments as a function of tectonic regime, climate and time. Prerequisite: GEOL 6/74065.

GEOL 64071/74071
ADVANCED STRATIGRAPHY (3)
Advanced graduate consideration of stratigraphic problems, procedures and analyses. Prerequisite: GEOL 4/54070.

GEOL 80091
SEMINAR IN APPLIED GEOLOGY (1)
Specialized topics in applied geology. Precise title to be inserted in Schedule of Classes.

GEOL 80095
ADVANCED TOPICS IN GEOLOGY (3)
Advanced topics presented by visiting professors or one-time offerings presented by regular faculty. Prerequisite: Permission.

GEOL 80098
RESEARCH (1-15)
Research for doctoral students. Credits earned may be applied toward degree if department approves. Repeat registration permitted. S/U grading; IP permissible.

GEOL 80199
DISSERTATION I (15)
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy for doctoral degree.

GEOL 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: GEOL 80199.
HISTORY

Kenneth Bindas, Chair
305 Bowman Hall
330-672-2882
kbindas@kent.edu

Mary Ann Heiss, Coordinator of Graduate Studies
305 Bowman Hall
330-672-2882
mheiss@kent.edu

The Department of History offers both a Master of Arts degree program and a Doctor of Philosophy degree program in most fields of history. Detailed program outlines may be obtained from the graduate coordinator's office in the department.

Visit the department Web site at http://dept.kent.edu/history for more information.

### Master of Arts

Three concentrations are available for students who wish to earn the Master of Arts degree in history:

- Concentration I, for traditional work in history
- Concentration II, for work in American studies
- Concentration III, for work in public history

Each concentration offers thesis and non-thesis options. Thesis options are intended for students who expect to continue graduate study or plan to teach in secondary schools or community colleges.

### ADMISSION

Admission is limited to those applicants whose records show clear potential for success in graduate study. In addition to the regular university application requirements, applicants for the Master of Arts program must submit the general scores on the Graduate Record Examination, a letter describing their professional objectives and proposed field of study, and an example of a significant piece of written work (such as an M.A. thesis).

### PROGRAM REQUIREMENTS

All students must successfully complete History 61001 and 61002. Students selecting a thesis option must demonstrate a reading knowledge of one or more foreign languages if their advisers determine that it is necessary for research.

In addition to the requirements listed above, all students in Concentration I must complete successfully four seminars/colloquia (at least one seminar) and must distribute their coursework among various fields, which include ancient, medieval, European, United States, Latin American and African history. It is possible to introduce a minor in a department outside the Department of History. The non-thesis option allows for an individualized minor (8-9 hours).

Concentration II requires the successful completion of HIST 50197 as well as three seminars/colloquia in history and coursework in related fields.

Concentration III is intended to prepare students for careers in various types of agencies such as state and local historical societies, government agencies, museums, archives and the like. In addition to the coursework required of all master's students, those who elect this concentration are required to successfully complete HIST 51000, 60092, 62097, three additional courses in history (at least one seminar and one colloquium) and appropriate coursework in other departments.

HIST 69896 and 69898 are not generally available until students have earned 20 semester hours.

### Doctor of Philosophy

The program leading to the degree of Doctor of Philosophy aims to prepare college or university teachers, research scholars and others desiring a knowledge of historical scholarship and techniques. The student must receive a master's degree in history or its equivalent before beginning doctoral work.

### ADMISSION

Admission is limited to those applicants whose records show clear potential for success in graduate study. Applicants for the Doctor of Philosophy degree program must submit the general scores on the Graduate Record Examination, a letter describing their professional objectives and proposed field of study, and an example of a significant piece of written work (such as an M.A. thesis).

### PROGRAM REQUIREMENTS

The student will elect one general, one specialized, and one thematic field. General fields include Asia, Africa, Europe, Latin America, and United States. Specialized fields include topical and regional areas of Europe and the United States, public history, and gender/women. Either the general or the specialized field must be the field embracing the dissertation. The thematic field must combine two different continents, or the modern period and a chronological period before 1500, and revolve around a common theme. Thematic fields include political/intellectual, social/cultural, empire/foreign relations, and religion and society. (Current lists of all general, specialized, and thematic fields may be obtained from the department.) In addition to fulfilling university requirements, the student must meet those of the Department of History.

The student must complete successfully HIST 79894, and a combination of six 7/80000-level seminars and colloquia. The department requires that the student demonstrate reading knowledge of one foreign language by the end of the third semester after initial registration. The student’s adviser will determine if the student needs to demonstrate reading knowledge of a second or third foreign language. All students must elect additional courses in a discipline or research area related to history that will be useful in completing their dissertations.
CANDIDACY
After completing all of the above requirements, the student takes written and oral examinations in the three elected fields of history.

Courses (HIST)
The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

HIST 50093
WORKSHOP IN HISTORY (1-6)
Special workshop in history. Topic will vary according to professor. S/U grading.

HIST 50197/70197
AMERICA'S CULTURAL HERITAGE: THE ARTS AND SOCIETY (3)
An examination of selected American arts in their cultural context. American studies methodologies and concepts of history.

HIST 51000/71000
PUBLIC HISTORY (3)
A survey of public history including: archives; editing, museums and historical agency administration; historic preservation; and related skill areas (e.g., artifact analysis, oral history).

HIST 51003/71003
HISTORY OF ANCIENT GREECE (3)
The course is a survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.

HIST 51004/71004
HELLENIC CONTRIBUTIONS TO WESTERN CIVILIZATION (3)
An introduction to the major intellectual and cultural achievements of the Greeks-ca. 800-350 BC.

HIST 51006/71006
ROMAN HISTORY (3)
A survey of Roman history from its beginnings to the Fall of the Roman Empire.

HIST 51010/71010
THE EARLY MIDDLE AGES (3)
A survey of the major political, social and cultural developments of Europe from the fourth through the tenth century.

HIST 51011/71011
THE HIGH MIDDLE AGES (3)
A survey of political, social and cultural developments of Europe from the eleventh through the thirteenth century.

HIST 51014/71014
EUROPE IN THE RENAISSANCE (3)
An analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state.

HIST 51016/71016
THE PROTESTANT CATHOLIC REFORMATION (3)
A comprehensive course dealing with the religious, political, economic and social change accompanying the religious upheavals of the 16th-century.

HIST 51017/71017
17TH-CENTURY EUROPE (3)
This course will analyze those political, economic, social, religious and intellectual factors leading to economic crisis and civil wars in Europe.

HIST 51018/71018
18TH-CENTURY EUROPE (3)
This course will analyze the many different factors and unresolved crises of the 17th century that led to revolution throughout Europe.

HIST 51020/71020
19TH-CENTURY EUROPE (3)
Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism and foreign policy in Great Britain, France, Prussia and Austria.

HIST 51024/71024
MODERN EUROPEAN HISTORY, 1914-1945 (3)
Special attention paid to the two World Wars, Bolshevik Revolution, rise of Fascism and fate of European Jewry.

HIST 51025/71025
MODERN EUROPEAN HISTORY: 1945 TO PRESENT (3)
Survey of European political, economic, social and cultural developments since 1945.

HIST 51026/71026
TUDOR ENGLAND 1485-1603 (3)
Early Modern England with an emphasis on the Renaissance, Reformation, social change and the Tudor monarchs, Henry VIII and Elizabeth.

HIST 51040/71040
HISTORY OF GERMANY, 1648-1871 (3)
Focuses on the rise of Prussia, the cultural revival of the 18th century, the impact of the French Revolution and the process of unification.

HIST 51041/71041
HISTORY OF GERMANY, 1871-PRESENT (3)
Focuses on the impact of industrialization, the dilemma of the German left, the rise of Nazism, and the emergence of two German states after 1945.
HIST 51044/71044
IMPERIAL RUSSIA, 1689-1917 (3)
Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture.

HIST 51045/71045
MODERN RUSSIA, 1917-PRESENT (3)
Focus on 1917 revolutions, civil war, nationalities question, NEP, collectivization, Great Terror, World War II, Cold War, Soviet foreign policy and culture, Perestroika, and post-Soviet economic, political and ideological changes.

HIST 51049/71049
HISTORY OF THE BALKANS: 18TH CENTURY TO 1914 (3)
Survey of the Albanians, Bulgarians, Greeks, Romanians and South Slavs under Ottoman domination and their struggles for national independence.

HIST 51050/71050
HISTORY OF THE BALKANS: 1914 TO PRESENT (3)
The Balkans since 1914, including coverage of post-World War II period.

HIST 51051/71051
POLITICS, CULTURE AND SOCIETY OF TWENTIETH-CENTURY EUROPE (3)
Political, social and cultural change in Europe during the twentieth century. Topics include violence, war, revolution, economic crises and social and political changes.

HIST 51056/71056
HISTORY OF COLONIAL AMERICA, 1492-1714 (3)
Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

HIST 51057/71057
18TH-CENTURY AMERICA, 1714-1789 (3)
Cultural development of English Colonies; Great War for Empire; American Revolution and Constitution.

HIST 51058/71058
THE JEFFERSON-JACKSON ERA, 1789-1848 (3)
A study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

HIST 51060/71060
COMPARATIVE FASCISM (3)
Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

HIST 51062/71062
THE UNITED STATES: THE WESTWARD MOVEMENT (3)
The process of settlement from its beginning; consequences for American history.

HIST 51065/71065
SECTIONAL CONFLICT AND CIVIL WAR (3)
Differences within the United States, including the controversy over slavery; the Civil War in all its aspects.

HIST 51066/71066
RECONSTRUCTION AND THE LATER SOUTH (3)
Controversy during and after the Civil War as to racial and sectional relationships; the post-Reconstruction compromises and their undoing.

HIST 51070/71070
AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1790-1876 (3)
Major currents of the period: social background of the early republic; religious development; impact of the frontier; abolition.

HIST 51071/71071
AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876 TO PRESENT (3)
Continuation of HIST 41070, HIST 51070 and HIST 71070. Development of social Darwinism, racism, Pragmatism, popular arts.

HIST 51074/71074
AMERICAN ECONOMIC HISTORY (3)
Survey of growth and development of American economic and business life from colonial times to the present.

HIST 51075/71075
WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865 (3)
An examination of the impact of conflict and the military upon the society, culture, economy and diplomacy of the United States. Topics include colonial Indian wars, the Revolutionary War, the War of 1812, the Mexican-American War and the Civil War.

HIST 51076/71076
WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT (3)
An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the War on Terror.
HIST 51079/71079
HISTORY OF THE IMMIGRANT IN AMERICA (3)
Examines the coming together of people from five continents
to the United States and provides an overview of shifting
patterns of migration both coerced and free to the United
States. Starting in the colonial era, when slaves and servants
typified the migration to America, this course then follows
the migrations of pre-industrial, industrial, and post-industrial
immigrants, their reception by American institutions and
natives, and their efforts to construct communities in a new
country.

HIST 51082/71082
CONSTITUTIONAL HISTORY OF THE UNITED STATES (3)

HIST 51083/71083
U.S. FOREIGN RELATIONS THROUGH WORLD WAR I (3)
The evolution of U.S. foreign policy from its colonial origins
through the Paris Peace Conference of 1919 with special
emphasis on the domestic roots of foreign policy.

HIST 51084/71084
U.S. FOREIGN RELATIONS FROM 1920 (3)
The history of U.S. foreign policy from the 1920s on with
special emphasis on the evolving role of America as a world
power.

HIST 51087/71087
PROGRESSIVE AMERICA: THE UNITED STATES 1896-1919
(3)
Major political, economic, social, cultural and diplomatic events
from the crisis of the 18902 through the First World War.

HIST 51088/71088
NEW ERA THROUGH WORLD WAR: THE UNITED STATES,
1920-1945 (3)
Major political, economic, social, cultural and diplomatic events
from the New Era of the 1920s through the Second World War.

HIST 51089/71089
RECENT AMERICA: THE UNITED STATES, 1945-PRESENT (3)
Examines every day life and culture, assesses the degree to
which presidents and their administrations are the reflections
of their constituencies, and evaluates the significant events and
themes of U.S. history since 1945.

HIST 51097/71097
COLLOQUIUM: SAINTS, MONKS AND THE MEDIEVAL
COMMUNITY (3)
Investigates major religious institutions that shaped medieval
European society and the impact on popular piety.

HIST 51112/71112
HISTORY OF MODERN CHINA (3)
Disintegration of the Chinese empire amid Western challenge
and internal disorder and the subsequent rise of Communism.

HIST 51116/71116
HISTORY OF JAPAN (3)
A general survey of the development of Japan from a loose
confederation of clans to a modern industrial state.

HIST 51131/71131
HISTORY OF AFRICA TO 1880 (3)

HIST 51132/71132
HISTORY OF AFRICA, 1880-PRESENT (3)

HIST 51135/71135
HISTORY OF WEST AFRICA (3)

HIST 51789/71789
THE FRENCH REVOLUTION AND NAPOLEON (3)
Analysis of the causes of revolution in France, political,
ideological and social conflict in the construction of French
democracy, expansion of the revolution outside of France.

HIST 52140/72140
THE SIXTIES: A THIRD WORLD VIEW (3)
Examines the political, social, and cultural upheaval of the
1960s in Latin America, Africa, and Asia.

HIST 52141/72141
COMPARATIVE THIRD WORLD REVOLUTIONS (3)
Examines the twentieth-century revolutions in Latin America,
Africa and Asia, focusing on ideologies and political leadership.

HIST 52142/72142
AFRO-LATIN AMERICA (3)
Course focuses on the social, cultural and political life of
the African population of Latin America, from 19th century
slaves to shantytown dwellers of megacities such as Rio de
Janiero. Topics include black resistance to racism, race mixture
in multicultural societies, and how employment, political
participation and family organization empowered the lives of
Afro-Latin women.

HIST 52297/72297
COLLOQUIUM: CHINA AND JAPAN (3)
Study of important issues in the history of China and Japan
through reading and discussing major works pertinent to the
issues selected.

HIST 52397/72397
COLLOQUIUM: WOMEN IN EUROPE FROM ANTIQUITY TO
RENAISSANCE (3)
This course examines the social, cultural and economic
institutions that determined the position of women from
antiquity to the 16th century. Other issues considered are the
image and role of women, Christian perceptions of women and
their impact on women’s lives.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 52497/72497</td>
<td><strong>COLLOQUIUM: WOMEN IN MODERN EUROPE</strong> (3)</td>
<td></td>
<td>The colloquium addresses the experiences of European women from the Enlightenment to the present. Using primary sources and recent scholarship, students examine the relationship between women and state formation, industry, sexuality, empire, socialism, war, welfare, migration and feminism.</td>
</tr>
<tr>
<td>HIST 53097/73097</td>
<td><strong>COLLOQUIUM: MEDIEVAL RUSSIA</strong> (3)</td>
<td></td>
<td>Political, social, economic and cultural developments from the 9th-17th centuries, particularly the nature of political organization, the Mongol impact, the role of the church and religious life in pre-Petrine Russia.</td>
</tr>
<tr>
<td>HIST 53797/73797</td>
<td><strong>COLLOQUIUM ON VICTORIAN ENGLAND</strong> (3)</td>
<td></td>
<td>Consideration of distinctive features of Victorian England including class structure, ideas, manners, politics, foreign affairs, empire.</td>
</tr>
<tr>
<td>HIST 53800/73800</td>
<td><strong>RELIGION AND SOCIETY IN THE MODERN WEST</strong> (3)</td>
<td></td>
<td>Introduction to recent trends in the writing of European and comparative western religious history. Examines themes across societies with particular emphasis placed on gender, bourgeois culture, national identity, liberalism and democracy, the industrial working classes, race and racism, fascism and communism.</td>
</tr>
<tr>
<td>HIST 54297/74297</td>
<td><strong>COLLOQUIUM IN AFRICAN HISTORY</strong> (3)</td>
<td></td>
<td>This course will deal with some of the major themes of African history. Topics will vary from semester to semester.</td>
</tr>
<tr>
<td>HIST 55597/75597</td>
<td><strong>COLLOQUIUM IN RUSSIAN HISTORY</strong> (3)</td>
<td></td>
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<tr>
<td>HIST 55697/75697</td>
<td><strong>COLLOQUIUM: SOCIAL HISTORY OF LATIN AMERICA</strong> (3)</td>
<td></td>
<td>The formation of Latin American societies from the Iberian Conquest to the present.</td>
</tr>
<tr>
<td>HIST 55797/75797</td>
<td><strong>COLLOQUIUM: COMPARATIVE LATIN AMERICAN REVOLUTIONS</strong> (3)</td>
<td></td>
<td>Four major Latin American revolutions, the Mexican, Cuban, Chilean and Nicaraguan, are analyzed in a comparative framework.</td>
</tr>
<tr>
<td>HIST 56097/76097</td>
<td><strong>COLLOQUIUM: STALINISM</strong> (3)</td>
<td></td>
<td>Focus on Stalin’s rise to power and the historiographical debates about the origins, results and legacy of his domestic and foreign policies.</td>
</tr>
<tr>
<td>HIST 56597/76597</td>
<td><strong>COLLOQUIUM IN 20TH-CENTURY EUROPEAN DIPLOMACY</strong> (3)</td>
<td></td>
<td>Coverage of important works dealing with major diplomatic issues from origins of World War I to present.</td>
</tr>
<tr>
<td>HIST 56897/76897</td>
<td><strong>COLLOQUIUM ON THE AGE OF JEFFERSON</strong> (3)</td>
<td></td>
<td>An intensive examination of the problems of a critical period of American history through readings, reports and discussions.</td>
</tr>
<tr>
<td>HIST 57597/77597</td>
<td><strong>COLLOQUIUM ON NATO</strong> (3)</td>
<td></td>
<td>An examination of the historical significance of the Atlantic Alliance from its origins in the late 1940s to the present.</td>
</tr>
<tr>
<td>HIST 57697/77697</td>
<td><strong>COLLOQUIUM ON POST-1945 EUROPE</strong> (3)</td>
<td></td>
<td>Coverage of Europe’s major political, diplomatic, economic and social developments since 1945.</td>
</tr>
<tr>
<td>HIST 58097/78097</td>
<td><strong>COLLOQUIUM IN 20TH-CENTURY U.S. FOREIGN RELATIONS</strong> (3)</td>
<td></td>
<td>Covers U.S. diplomatic history from World War I to the present emphasizing bibliography and historiography.</td>
</tr>
<tr>
<td>HIST 58697/78697</td>
<td><strong>COLLOQUIUM ON U.S. MIDDLE PERIOD, 1820-1900</strong> (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 58797/78797</td>
<td><strong>COLLOQUIUM IN AFRICAN-AMERICAN HISTORY TO 1877</strong> (3)</td>
<td></td>
<td>This colloquium specializes in African-American history prior to 1877, with emphasis on historiographical literature of the period.</td>
</tr>
<tr>
<td>HIST 58897/78897</td>
<td><strong>COLLOQUIUM IN AFRICAN-AMERICAN HISTORY SINCE 1877</strong> (3)</td>
<td></td>
<td>This colloquium specializes in African-American history since 1877, with emphasis on historiographical literature of the period.</td>
</tr>
<tr>
<td>HIST 59195/79195</td>
<td><strong>SELECTED TOPICS IN HISTORY</strong> (3)</td>
<td></td>
<td>Special history course, varying in accordance with desire and competence of visiting faculty. Precise title to be inserted in Schedule of Classes.</td>
</tr>
<tr>
<td>HIST 60092/70092</td>
<td><strong>PUBLIC HISTORY INTERNSHIP</strong> (3-6)</td>
<td></td>
<td>Students serve an internship at an institution related to their emphasis in public history (e.g., historical society, museum, archives, historical preservation organization).</td>
</tr>
</tbody>
</table>
History

HIST 61001/81001
METHODS OF HISTORICAL RESEARCH (3)
An introduction to methods of historical research, with an emphasis on behavioral techniques.

HIST 61002/81002
HISTORIOGRAPHY (3)
Development of historical thinking. Students will read excerpts of famous historians and prepare papers.

HIST 61024/81024
SEMINAR IN 20TH-CENTURY EUROPEAN HISTORY (3)

HIST 61025/81025
SEMINAR: 20TH-CENTURY EUROPEAN DIPLOMATIC HISTORY (3)
Research and writing on selected problems in the international relations of European states during this century.

HIST 61026/81026
SEMINAR IN TUDOR ENGLAND (3)

HIST 61065/81065
SEMINAR IN AMERICAN HISTORY: THE CIVIL WAR PERIOD (3)
Research and writing on aspects of mid-19th century United States history.

HIST 61067/81067
AMERICA: REUNITED NATION TO WORLD POWER, 1877-1900 (3)
Background lectures, weekly discussions of assigned readings, research paper.

HIST 61069/81069
SEMINAR IN RECENT AMERICAN HISTORY (3)
Lectures, readings and class discussions aimed toward the production of a scholarly paper on a limited aspect of American history since 1900.

HIST 61074/81074
SEMINAR IN 19TH-CENTURY AMERICA (3)

HIST 61083/81083
SEMINAR IN AMERICAN DIPLOMATIC HISTORY (3)
Selected problems in American foreign policy and in American foreign relations from 1776 to the present.

HIST 61091/81091
SEMINAR IN AFRICAN-AMERICAN HISTORY (3)
Seminar is selected topics in African-American history from the 17th century through the 20th century.

HIST 62097/72097
PUBLIC HISTORY COLLOQUIUM (3)
Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.

HIST 62197/82197
COLLOQUIUM ON PROBLEMS IN MEDIEVAL HISTORY (3)

HIST 62997/82997
COLLOQUIUM IN EARLY MODERN EUROPE (3)
Systematic reading and research in the history of early modern Europe: 1598-1815.

HIST 69199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

HIST 69299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: HIST 69199.

HIST 69894/79894
COLLEGE TEACHING OF HISTORY (2-3)
S/U grading; IP permissible.

HIST 69896/89896
INDIVIDUAL INVESTIGATION (2-3)
IP permissible.

HIST 69898/89898
RESEARCH (1-15)
S/U grading; IP permissible.

HIST 89199
DISSERTATION I (15)
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible.

HIST 89299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: HIST 89199.
JUSTICE STUDIES

Marlene Dorsey, Chair
113 Bowman Hall
330-672-2775
mdorsey@kent.edu

Pamela Tontodonato, Coordinator of Graduate Studies
113 Bowman Hall
330-672-2775
ptontodo@kent.edu

The Master of Arts degree program in justice studies is designed to prepare students for staff and administrative careers in those fields related to prevention, treatment and control of crime and delinquency. It also offers opportunities for agency personnel to broaden their education and upgrade their skills. In addition, an important purpose of the program is to prepare students for advanced study at the doctoral level. Since many of the graduates will eventually hold administrative positions, this program places special emphasis on preparation for active roles in agency planning, management and evaluation.

Visit the departmental Web site at http://dept.kent.edu/cjs for more information.

OBJECTIVES OF THE PROGRAM

Although specializations per se are not defined, the selection of elective courses and internship possibilities are varied enough for the student to develop such an emphasis. Specifically, the objectives of the program are as follows:

• Build a firm theoretical and methodological foundation on the causation, treatment and control of crime and delinquency;
• Develop professional skills through experience in situations where knowledge gained in the classroom can be tested in applied settings; and
• Develop a behavioral and attitudinal orientation appropriate for the justice profession.

ADMISSION REQUIREMENTS

In addition to the regular application requirements of the university, admission to the Master of Arts program requires the following:

• Undergraduate GPA of 3.2 (A=4.0) or better is required for regular admission.
• Scores from the Graduate Record Examination (GRE) are required to complete the application.
• A one-page statement of career interests and goals, including motivation for pursuing the graduate degree.
• Recommendations from three persons (preferably academic) who can attest to the applicant’s potential for graduate study.

Although admissions are made on a rolling basis, students should familiarize themselves with college and university deadlines for assistantships and financial aid.

PROGRAM REQUIREMENTS

Requirements for the degree are 33 semester hours. These requirements include 15 hours of required core courses, 12 hours of electives, and 6 hours of thesis, internship and research paper, or an additional course and research. Requirements are as follows:

Core Courses               Hours
JUS 66762 .................................................................3
JUS 66763 .................................................................3
JUS 66767 .................................................................3
JUS 66768 .................................................................3
JUS 66775 .................................................................3

And one of the following research requirements:
JUS 66199 ........................................................................6
or
JUS 66798 ........................................................................2
and
JUS 66792 ........................................................................4
or
JUS 66798 ........................................................................3

and another 60000 elective course (3 hours) excluding JUS 66796.
ELECTIVES
Elective courses should be selected in consultation with the faculty advisor.

RESEARCH REQUIREMENTS
Students have three options for the final culminating research requirement. The first option is the thesis requirement. The second option is an internship and research paper. The third option is to complete one additional elective course and write a research paper.

If a student chooses the thesis option, the thesis topic must be approved by the student’s thesis committee. A completed thesis must show evidence of original research and meet the standards set by the university.

If a student chooses the internship and research option, the internship arrangements can be made with a wide variety of juvenile and adult federal, state and county agencies. Students must also write a monograph over the internship experience. In addition to the internship, the student must complete an original research paper and oral examination on the research paper.

If a student chooses the additional elective course and research paper, the student can select any 60000-level course, except JUS 66796 Individual Investigation. The student must also complete an original research paper and oral examination on the research paper.

Courses (JUS)

JUS 55093
VARIABLE TITLE WORKSHOP IN JUSTICE STUDIES (1-3)
Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop topic. S/U grading. Prerequisite: Special permission.

JUS 56701
CRIME, JUSTICE AND SUBSTANCE ABUSE (3)
Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.

JUS 56705
COMMUNITY CORRECTIONS (3)
This course is devoted to an examination of formal and informal approaches to correctional supervision and treatment through probation, parole and community residential treatment.

JUS 56708
TREATMENT METHODS (3)
Various methods of treatment are applied to the corrections field. Focus is on specific techniques in community and institutional correctional settings. Direct observation utilized when possible.

JUS 57095
SPECIAL TOPICS IN JUSTICE STUDIES (1-3)
Intensive analysis of issues significant and current in the field which are not covered in regular courses. Prerequisite: Special approval.

JUS 66199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: JUS 66199.

JUS 66299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: JUS 66199.

JUS 66761
LAW, JUSTICE AND SOCIETY (3)
Cross-listed with POL 70707. Course reviews the origins, structure and functioning of law in relation to social context and process. Topics to be covered include theories of law and society, law as a form of social control, and the use of law and legal institutions to address societal problems.

JUS 66762
PROSEMINAR IN ISSUES IN CONTEMPORARY JUSTICE (3)
Cross-listed with POL 60101 and POL 70701. An analysis of current issues in the legislative, policing, judicial and correctional components of the justice system.

JUS 66763
THEORIES OF CRIME AND DELINQUENCY (3)
Cross-listed with POL 70704. Examination of major theoretical concepts in criminology that have been utilized to explain criminal behavior and juvenile delinquency. Includes discussion of social/policy implications.

JUS 66764
JUVENILE JUSTICE (3)
An analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.

JUS 66765
CRIMINAL VIOLENCE (3)
Course explores the many dimensions of criminal violence. Topics to be covered include patterns and trends, types of violence, the prediction and netiology of violent behavior and response/solutions to violence. Emphasis will be placed on the U.S.
JUS 66766
INSTITUTIONAL CORRECTIONS (3)
Analysis of the correctional institution as a social system: formal structure and informal dynamics. Basic operational problems and special programs within the institutional setting are considered.

JUS 66767
JUSTICE ADMINISTRATION (3)
Focuses on theory and practice in justice administration. Current organizational theories are considered in relation to the administration and management of criminal justice agencies. Prerequisite: Permission.

JUS 66768
RESEARCH METHODS IN JUSTICE STUDIES (3)
Methodological research designs and techniques utilized in criminal justice. Focuses on specific skills needed to complete basic and evaluative research in criminal justice. Prerequisite: Permission.

JUS 66769
JUSTICE RESEARCH APPLICATIONS (3)
Application of research methods within various content areas of justice studies, individualized research assignments included. IP permissible. Prerequisite: JUS 66768.

JUS 66770
JUSTICE INSTITUTIONS (3)
Cross-listed with POL 70702. This course introduces students to various institutions related to the U.S. criminal justice system. Students examine techniques for conducting institutional analysis and apply these techniques to law enforcement, judicial and correctional institutions.

JUS 66771
LEGAL ASPECTS OF JUSTICE ADMINISTRATION (3)
An examination of the legal rights of the offenders and victims, and constraints of law and justice practices and administration.

JUS 66772
VICTIMOLOGY (3)
Cross-listed with POL 70706. Patterns of victim-offender relationship. Role of victims in the justice studies process. Problems of adjustment to victimization and compensating the victim.

JUS 66773
CONTEMPORARY POLICING (3)
The functions and dynamics of police work in contemporary society. Current and emerging functions are emphasized.

JUS 66774
COMPARATIVE JUSTICE INSTITUTIONS AND POLICY (3)
Cross-listed with POL 70705. Cross-cultural analysis of crime and the justice institutions/justice policies of various countries. The developmental backgrounds, structure and functioning of the systems are compared. Important issues in international justice are considered.

JUS 66775
RESEARCH METHODS IN JUSTICE STUDIES II (3)
Advanced topics in multivariate statistical analysis with applications in justice studies. IP permissible. Prerequisite: JUS 66768.

JUS 66776
QUALITATIVE METHODS IN JUSTICE STUDIES (3)
Examination of qualitative methods used in justice research, including ethnography, content analysis, historical analysis and focus groups. Use of computers in qualitative analysis also included. Prerequisite: JUS 66768.

JUS 66792
INTERNSHIP IN JUSTICE STUDIES (4)
Observation and work experience under direction of a faculty member in a justice institution. S/U grading; IP permissible. Prerequisite: Permission.

JUS 66795
SPECIAL TOPICS (1-3)
Offered irregularly, this course provides opportunity to study special issues, developments and programs in justice studies. Topics vary. Prerequisite: Permission.

JUS 66796
INDIVIDUAL INVESTIGATION (1-3)
Intensive study of a subject that the student cannot normally pursue in a regularly scheduled course. Individual investigation topic must be approved by instructor and graduate coordinator. Prerequisite: Permission.

JUS 66798
RESEARCH (1-6)
Pursuit of research interests. Repeat registration permitted. IP permissible. Prerequisite: Permission.
LIBERAL STUDIES

Alison J. Smith, Director
308 McGilvrey
330-672-9878
lbrlstu@kent.edu

The Liberal Studies program is an interdisciplinary degree program leading to a Master of Liberal Studies degree. Unlike most graduate programs that emphasize specialization, the L.S.M. encourages a broad educational perspective and interdisciplinary study. Liberal Studies students, under the guidance of the director of the Liberal Studies program and a graduate faculty advisor, select courses from regular graduate offerings to form their own integrated courses of study.

In addition to the general university requirements, a cumulative grade point average of 3.0 (A = 4.0) is required for consideration of admission into the Master of Liberal Studies Program.

Additional information may be obtained from the director of the Liberal Studies program or by going to http://dept.kent.edu/LSM

PROGRAM REQUIREMENTS

The degree consists of 32 hours of coursework, 12 to 15 hours in a single discipline and 12 to 15 hours divided among two or more related areas. Courses may be taken in the arts, business, education, humanities, social and natural sciences.

Students will complete a program of study document in which they will develop a theme (title) and choose coursework in the major and minor areas. In developing programs of study, Liberal Studies students must adhere to several fundamental principles:

- The program of study must be integrated
- Since the L.S.M. degree specifically focuses on the values of liberal arts education, the program of study must include at least 12 hours of coursework in the College of Arts and Sciences
- The program of study must emphasize interdisciplinary perspectives to learning

All students are required to take Introduction to Liberal Studies (61000) within the first year and Liberal Studies Essay (61098). Except for these, no other specific courses are required for the L.S.M. program. Candidates for the L.S.M. degree must complete the minimum 32 semester hours of graduate work, 16 hours of which must be at the 60000-level or higher. It should be understood that some available graduate courses may require prerequisites.

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

A&S 50095/70095
SPECIAL TOPICS (1-5)
Topic to be announced in the Schedule of Classes booklet. Repeat registration permitted when content varies. Prerequisite: Permission.

A&S 50096/70096
INDIVIDUAL INVESTIGATION (1-6)
Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.

A&S 60220
BIOINFORMATICS (4)
Theory, methods and computational approaches used to interpret large volumes of biosciences information reviews of major data repositories. An interdisciplinary research project is required.

A&S 61000
INTRODUCTION TO LIBERAL STUDIES (2)
Introduction to history, philosophy and curricular structure of graduate liberal studies.

A&S 61095
LIBERAL STUDIES SEMINAR (3)
An interdisciplinary seminar designed for candidates in the Liberal Studies program. Topics will vary.

A&S 61098
LIBERAL STUDIES ESSAY (3)
The preparation of an essay of approximately 50 pages on a topic related to the student's program of study for the Master of Liberal Studies degree. S/U grading; IP permissible.
MATHEMATICAL SCIENCES

Andrew Tonge, Chair
233D Mathematical Sciences
330-672-9046
atonge@kent.edu

Artem Zvavitch, Coordinator of Graduate Studies
364 Mathematical Sciences
330-672-3316
azvavitc@kent.edu

The Department of Mathematical Sciences offers graduate courses and research leading to the Master of Arts, Master of Science and Doctor of Philosophy degrees in mathematics. At the master’s level, programs in pure mathematics, applied mathematics and mathematics for secondary teachers (Master of Arts only) are available. In addition, a 12-month Master of Science in Financial Engineering program is offered in collaboration with the Department of Economics and Finance. At the doctoral level, programs in pure mathematics and applied mathematics are offered.

For more information, visit the department’s Web site at http://www.math.kent.edu. Information on the Master of Science in Financial Engineering can be found at http://business.kent.edu. This program is administered by the College of Business Administration.

Master of Science/Master of Arts

PROGRAM REQUIREMENTS

The Master of Arts and Master of Science programs require a total of 32 semester hours of graduate credit. Each student should submit a detailed plan of study for approval by the advisor by the time the first 16 semester hours of graduate credit have been completed.

There is no foreign language requirement for the Master of Arts or Master of Science degree programs.

Candidates for the Master of Science degree must write a suitable thesis. Candidates for the Master of Arts degree must pass the departmental qualifying examination at the master’s level. Students in the mathematics for teachers program are expected to pass a final examination in general mathematics.

Pure Mathematics

At least two of the following sequences must be completed, and at least one semester of one of the remaining sequences must be taken:

- MATH 6/71051 and 6/71052
- MATH 6/72051 and 6/72052
- MATH 6/72151 and 6/72152
- MATH 6/76051 and 6/76052

With prior permission from the graduate studies committee, up to 6 semester hours of mathematically related coursework from other departments can be applied to meet the 14-semester-hour elective requirement.

Candidates for the Master of Arts degree must pass the departmental qualifying examination at the master’s level in algebra and analysis.

Applied Mathematics Program

The following two sequences are required:

- MATH 6/70061 and 6/70062
- MATH 6/72251 and 6/72252

At least 20 semester hours must be in MATH or CS courses at the 60000 level or above. Only 3 of the 6 hours of thesis will be counted toward the 20 semester hours at the 60000 level. The remaining 12 semester hours can be taken from graduate-level coursework in MATH or CS.

With permission of the advisor, up to 12 semester hours of 50000-level MATH and/or CS courses may be applied toward the total required for the degree. Candidates who do not have an undergraduate degree in applied mathematics should include MATH 52031 and 52045 in their program.

Master of Arts degree candidates must pass the departmental qualifying examination at the master’s level in numerical analysis, probability or statistics, and one additional area chosen from among the areas listed for master’s programs.

While students entering the master’s program in applied mathematics are not required to have an undergraduate degree in applied mathematics, they are expected to have proficiency in numerical analysis and statistics at the level of MATH 40012—Introduction to Statistical Concepts and MATH 42202—Introduction to Numerical Computing II. They are also expected to have taken computer science coursework equivalent to CS 23021—Introduction to Object-Oriented Programming. Those who do not meet these specific requirements may be granted conditional admission by the Graduate Studies Committee.
Mathematics for Secondary Teachers Program
(Master of Arts only)

This highly individualized program has no rigid course requirements. The student's program is designed by an advisory committee, consisting of members of the Department of Mathematical Sciences. The committee tries to tailor the coursework to meet each individual's needs. Through an initial interview, the advisory committee helps the student clarify his or her educational objectives and formulate a graduate program that reflects a balance among professional needs, academic training and related outside interests.

The students are required to take at least 32 semester hours of graduate credit with at least 16 semester hours at the 60000 level and 22 semester hours in mathematics. In general, students will be expected to take two to three courses in each of the areas of modern algebra, geometry and analysis. Some additional exposure to applied mathematics and current trends in teaching will also be required.

Candidates in this program are expected to pass a final examination in general mathematics.

Doctor of Philosophy

PROGRAM REQUIREMENTS

Students who wish to pursue the Ph.D. must pass the qualifying examination at the Ph.D. level. A minor of up to 10 hours will be counted toward the completion of the degree subject to the approval of the student's advisor and the graduate studies committee.

LANGUAGE

A reading knowledge of French, German or Russian is required for those pursuing a Ph.D. in Mathematics.

CANDIDACY

This examination will be a comprehensive examination in the field of the major subject, and will be a substantially deeper test than the qualifying examination.

Courses (MATH)

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

MATH 50011
INTRODUCTION TO PROBABILITY THEORY AND APPLICATIONS (3)
Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems. Prerequisite: MATH 12003.

MATH 50012
INTRODUCTION TO STATISTICAL CONCEPTS (3)
Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods. Prerequisite: MATH 4/50011.

MATH 50022
LINEAR MODELS AND STATISTICAL ANALYSIS (3)

MATH 50031
BASIC NON-PARAMETRIC STATISTICS (3)
Rank tests for different kinds of hypotheses, large sample theory, efficiency comparisons, tests of Kolmogorov Smirnov type. Prerequisite: MATH 4/50011.

MATH 50022
LINEAR MODELS AND STATISTICAL ANALYSIS (3)

MATH 50031
BASIC NON-PARAMETRIC STATISTICS (3)
Rank tests for different kinds of hypotheses, large sample theory, efficiency comparisons, tests of Kolmogorov Smirnov type. Prerequisite: MATH 4/50012.

MATH 50042
SAMPLING THEORY (3)
This introductory course provides the methodology for the design and analysis of sampling and surveying studies. Simple random, stratified, cluster, PPS and two stage sampling techniques. Linear, ratio and regression estimators. Prerequisite: MATH 30011 or equivalent.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 50051</td>
<td>TOPICS IN PROBABILITY THEORY AND STOCHASTIC</td>
<td>3</td>
<td>Topics from conditional expectations, Markov chains, Markov processes, Brownian Motion and Martingales and their applications to stochastic calculus. Prerequisite: MATH 4/50011 or permission.</td>
</tr>
<tr>
<td>MATH 50055</td>
<td>ACTUARIAL MATHEMATICS I (4)</td>
<td></td>
<td>Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. Prerequisite: MATH 30055 and 50011.</td>
</tr>
<tr>
<td>MATH 50056</td>
<td>ACTUARIAL MATHEMATICS II (4)</td>
<td></td>
<td>Benefit premiums, benefit reserves and their analysis; decrement models, joint survivorship, risk models. Prerequisite: MATH 50055.</td>
</tr>
<tr>
<td>MATH 50091</td>
<td>SEMINAR IN ACTUARIAL MATHEMATICS (2)</td>
<td></td>
<td>Seminar course designed to prepare students for the society of actuaries examination on actuarial mathematics. Prerequisite: MATH 50056.</td>
</tr>
<tr>
<td>MATH 51001</td>
<td>INTRODUCTION TO MODERN ALGEBRA I (3)</td>
<td></td>
<td>Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms. Prerequisite: MATH 21001 and 22005.</td>
</tr>
<tr>
<td>MATH 51002</td>
<td>INTRODUCTION TO MODERN ALGEBRA II (3)</td>
<td></td>
<td>A continuation of MATH 51001, emphasizing properties of rings, ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructibility. Prerequisite: MATH 4/51001 or permission.</td>
</tr>
<tr>
<td>MATH 51012</td>
<td>FINITE MATHEMATICS (3)</td>
<td></td>
<td>Cross-listed with CS 51012. Mathematics: emphasizing combinatorial techniques, graph applications in algorithms, finite algebra, number theory and probability. Covers useful mathematics for CS majors. Prerequisite: CS 31011 or MATH 31011.</td>
</tr>
<tr>
<td>MATH 51021</td>
<td>THEORY OF MATRICES (3)</td>
<td></td>
<td>A rigorous study of the topics introduced in matrix algebra. Topics included are: canonical forms of matrices, diagonalizability criteria. Prerequisite: MATH 21001 and 22005 or permission.</td>
</tr>
<tr>
<td>MATH 51045</td>
<td>METALOGIC (3)</td>
<td></td>
<td>Consideration of various metatheorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus, and incompleteness of the theory of arithmetic. Cross-listed with CS 51045 and PHIL 51045. See PHIL 51045 for description.</td>
</tr>
<tr>
<td>MATH 52001</td>
<td>INTRODUCTION TO ANALYSIS I (3)</td>
<td></td>
<td>Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration. Prerequisite: MATH 21001 and 22005 or permission.</td>
</tr>
<tr>
<td>MATH 52002</td>
<td>INTRODUCTION TO ANALYSIS II (3)</td>
<td></td>
<td>Topics include further development of integration theory infinite series, uniform convergence, several variable calculus and metric spaces. Prerequisite: MATH 4/52001.</td>
</tr>
<tr>
<td>MATH 52011</td>
<td>MATHEMATICAL OPTIMIZATION (3)</td>
<td></td>
<td>Analytical and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered. Prerequisite: MATH 21001 and 22005 or permission.</td>
</tr>
<tr>
<td>MATH 52021</td>
<td>GRAPH THEORY AND COMBINATORICS (3)</td>
<td></td>
<td>Fundamentals and applications of combinatorial mathematics. Topics include transversability, colorability, networks, inclusion and exclusion, matching and designs. Prerequisite: MATH 12003 and 21001 or permission.</td>
</tr>
<tr>
<td>MATH 52024</td>
<td>NUMBERS AND GAMES (3)</td>
<td></td>
<td>The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory. Prerequisite: permission of instructor.</td>
</tr>
<tr>
<td>MATH 52031</td>
<td>MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS (3)</td>
<td></td>
<td>Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized. Prerequisite: MATH 32044.</td>
</tr>
<tr>
<td>MATH 52041</td>
<td>ADVANCED CALCULUS (3)</td>
<td></td>
<td>The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism, and fluid flow. Prerequisite: MATH 21001 and 22005.</td>
</tr>
</tbody>
</table>
**MATH 52045**  
**INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS (3)**  
Introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green’s functions and the Method of Characteristics for wave equations. Prerequisite: MATH 32044.

**MATH 52048**  
**INTRODUCTION TO COMPLEX VARIABLES (3)**  
Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications. Prerequisite: MATH 22005.

**MATH 52091**  
**SEMINAR: MODELING PROJECTS (3)**  
Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports required. IP permissible. S/U Grading permitted. Prerequisite: MATH 52031 or permission.

**MATH 52201**  
**INTRODUCTION TO NUMERICAL COMPUTING I (3)**  
Cross-listed with CS 52201. An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-square data fitting, nonlinear equations and systems and optimization problems. Prerequisite: MATH 12003, 21001 and CS 23021 or permission. Special fee: $10 per semester (subject to change).

**MATH 52202**  
**INTRODUCTION TO NUMERICAL COMPUTING II (3)**  
Cross-listed with CS 52202. A continuation of MATH 52201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations. Prerequisite: MATH 32044 and 52201. Special fee: $10 per semester (subject to change).

**MATH 55011**  
**DIFFERENTIAL GEOMETRY (3)**  
Analytic and metric differential geometry of curves and surfaces. Prerequisite: MATH 22005.

**MATH 55021**  
**EUCLIDEAN GEOMETRY (3)**  
Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles; crossratio, groups, constructions, geometric generalizations; inversion. Prerequisite: MATH 21001 or permission of instructor.

**MATH 55022**  
**LINEAR GEOMETRY (3)**  
Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry. Prerequisite: MATH 21001 or permission.

**MATH 56001**  
**ELEMENTARY TOPOLOGY (3)**  
Metric spaces, introduction to topological spaces, separation axioms. Prerequisite: MATH 22005.

**MATH 57001**  
**MATHEMATICAL LOGIC AND SET THEORY (3)**  
Axiomatic set theory, relations, development of real numbers, cardinal number, axiom of choice. Prerequisite: Permission.

**MATH 57011**  
**THEORY OF NUMBERS (3)**  
Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions, rational approximations. Prerequisite: MATH 12003 or permission.

**MATH 57021**  
**HISTORY OF MATHEMATICS (3)**  
Survey from Babylonian and Egyptian mathematics to 20th-century mathematics with emphasis on the development of algebra, geometry, calculus, number theory. Prerequisite: 3 hours of mathematics beyond 22005 or permission.

**MATH 57091**  
**SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS (1-3)**  
Various special courses will be announced in the Schedule of Classes under this course number with different section numbers. Repeat registration permitted. Prerequisite: Permission of instructor.

**MATH 59893**  
**VARIABLE TITLE WORKSHOP IN MATHEMATICS (1-6)**  
Studies in special topics in pure and applied mathematics. S/U grading. Prerequisite: Permission.

**MATH 60051/70051**  
**PROBABILITY I (4)**  
Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers. Prerequisite: MATH 4/50011 or 4/52002 or permission.

**MATH 60052/70052**  
**PROBABILITY II (3)**  
Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion. Prerequisite: MATH 6/70051.

**MATH 60061/70061**  
**MATHEMATICAL STATISTICS I (4)**  
MATH 60062/70062
MATHEMATICAL STATISTICS II (3)

MATH 60070/70070
FINANCIAL MATHEMATICS (3)
Topics from replication of trading strategies, arbitrage, completeness, martingale representation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing. Prerequisite: MATH 6/70061 or permission.

MATH 60091/70091
SEMINAR IN STATISTICS & PROBABILITY (1-3)

MATH 60093
VARIABLE TITLE WORKSHOP IN MATHEMATICS (1-3)
Studies of special topics in mathematics. Not acceptable for credit toward a graduate degree in mathematics without approval of the student's advisor. S/U grading. Prerequisite: permission.

MATH 60094/70094
COLLEGE TEACHING OF MATHEMATICS (1)
Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.

MATH 61051/71051
ABSTRACT ALGEBRA I (4)
Advanced topics in group theory including Sylow Theorems, finite Abelian groups, divisible groups and related concepts. Includes one-hour problem session each week. Prerequisite: Permission.

MATH 61052/71052
ABSTRACT ALGEBRA II (3)
Advanced topics, commutative ring theory, and field theory, including polynomial rings, unique factorization domains, matrix rings, Galois theory. Prerequisite: MATH 6/71051.

MATH 61091/71091
SEMINAR IN ALGEBRA (1-3)

MATH 62041/72041
METHODS OF APPLIED MATHEMATICS I (3)

MATH 62042/72042
METHODS OF APPLIED MATHEMATICS II (3)

MATH 62051/72051
FUNCTIONS OF A REAL VARIABLE I (4)
Introduction to modern concepts of real analysis including metric spaces, measure and integration theory. Prerequisite: MATH 4/52002 or permission.

MATH 62052/72052
FUNCTIONS OF A REAL VARIABLE II (3)
A continuation of MATH 6/72051. Included are basic topics in functional analysis and Hilbert space theory. Prerequisite: MATH 6/72051.

MATH 62091/72091
SEMINAR IN REAL ANALYSIS (1-3)
Seminar on current research in real analysis. Repeated registration permitted. S/U grading permissible. Prerequisite: permission.

MATH 62151/72151
FUNCTIONS OF A COMPLEX VARIABLE I (4)
Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces. Prerequisite: MATH 4/52002.

MATH 62152/72152
FUNCTIONS OF A COMPLEX VARIABLE II (3)
Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces. Prerequisite: MATH 62151.

MATH 62191/72191
SEMINAR IN COMPLEX ANALYSIS (1-3)
MATH 62201
NUMERICAL COMPUTING I (3)
Cross-listed with CS 6/72201.
Numerical methods for scientific computing emphasizing modern mathematical software and environments. Computer arithmetic and errors, linear systems of equations, least squares data fitting, eigenvalues and singular values, nonlinear systems, optimization. Computer programming experience (C or C++ or Fortran) required. Prerequisite: MATH 21001, 22005.

MATH 62222/72222
NUMERICAL COMPUTING II (3)

MATH 62203/72203
COMPUTATIONAL FINANCE (3)
Basic numerical methods (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods), numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs), probabilistic methods. Prerequisite: MATH 22005, 21001, 32044 and CS 10061.

MATH 62251/72251
NUMERICAL ANALYSIS I (4)
Cross-listed with CS 6/72251.
Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration. Prerequisite: MATH 4/52002.

MATH 62252/72252
NUMERICAL ANALYSIS II (3)
Cross-listed with CS 6/72252.

MATH 62261/72261
NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS (3)
Cross-listed with CS 6/72261.
Discretization methods for ordinary differential equations and systems. Initial-value and boundary value problems. Numerical implementation, software and analysis. Prerequisite: MATH 32044 and 4/52202 or equivalent.

MATH 62262/72262
NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS (3)
Cross-listed with CS 6/72262.
Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations. Prerequisite: MATH 4/52045 and 4/52202.

MATH 62263/72263
NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS (3)
Cross-listed with CS 6/72263.

MATH 62264/72264
NUMERICAL SOLUTION OF NONLINEAR SYSTEMS (3)
Cross-listed with CS 6/72264.
Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software. Prerequisite: MATH 4/52041 and 4/52202 or equivalent.

MATH 62291/72291
SEMINAR IN NUMERICAL ANALYSIS (1-3)
Seminar on current research in numerical analysis. Repeated registration permitted. S/U grading permissible. Prerequisite: permission.

MATH 62391/72391
SEMINAR IN MEASURE THEORY (1-3)
Seminar on current research in measure theory. Repeated registration permitted. S/U grading permissible. Prerequisite: permission.

MATH 62491/72491
SEMINAR IN NONLINEAR ANALYSIS (1-3)
Seminar on current research in nonlinear analysis. Repeated registration permitted. S/U grading permissible. Prerequisite: permission.

MATH 62591/72591
SEMINAR IN OPERATOR THEORY (1-3)
Seminar on current research in operator theory. Repeated registration permitted. S/U grading permissible. Prerequisite: permission.

MATH 62691/72691
SEMINAR IN HARMONIC ANALYSIS (1-3)
Seminar on current research in harmonic analysis. Repeated registration permitted. S/U grading permissible. Prerequisite: permission.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 63291</td>
<td>SEMINAR IN APPLIED MATHEMATICS (1-3)</td>
<td>Seminar on current research in applied mathematics. Repeated registration permitted. S/U grading permissible. Prerequisite: permission.</td>
</tr>
<tr>
<td>MATH 64091</td>
<td>SEMINAR IN MATHEMATICS EDUCATION (3)</td>
<td>Studies in geometry, algebra, mathematics for junior and senior high school. Mathematics content professionalized for teachers. Repeat registration permitted.</td>
</tr>
<tr>
<td>MATH 66051</td>
<td>INTRODUCTION TO TOPOLOGY I (4)</td>
<td>Set theory, topological spaces, continuity, product spaces, quotient spaces, separation axioms, compactness and metrizability. Prerequisite: Permission.</td>
</tr>
<tr>
<td>MATH 66052</td>
<td>INTRODUCTION TO TOPOLOGY II (3)</td>
<td>Geometric topology, including connectedness, continua, homotopy, the plane and 2 manifolds. Prerequisite: MATH 6/76051.</td>
</tr>
<tr>
<td>MATH 66091</td>
<td>SEMINAR IN TOPOLOGY (1-3)</td>
<td>Seminar on current research in topology. Repeated registration permitted. S/U grading permissible. Prerequisite: permission.</td>
</tr>
<tr>
<td>MATH 67098</td>
<td>RESEARCH (1-15)</td>
<td>Research or individual investigation. Credits are applied toward degree requirements, with approval, if letter grade of “S” is given. Repeat registration permitted.</td>
</tr>
<tr>
<td>MATH 67199</td>
<td>THESIS I (2-6)</td>
<td>Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.</td>
</tr>
<tr>
<td>MATH 67299</td>
<td>THESIS II (2)</td>
<td>Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: MATH 67199.</td>
</tr>
<tr>
<td>MATH 70095</td>
<td>SELECTED TOPICS IN STATISTICS AND PROBABILITY (1-3)</td>
<td>Contents will vary with each offering and will complement topics covered in MATH 6/70051, 6/70052, 6/70061 and 6/70062. Repeat registration permitted. Prerequisite: Permission.</td>
</tr>
<tr>
<td>MATH 71001</td>
<td>STRUCTURE OF RINGS AND ALGEBRAS I (3)</td>
<td>Advanced topics in ring theory, including Artinian rings, Noetherian rings, advanced commutative ring theory. Prerequisite: Permission.</td>
</tr>
<tr>
<td>MATH 71002</td>
<td>STRUCTURE OF RINGS AND ALGEBRAS II (3)</td>
<td>Advanced topics in ring theory including an introduction to homological algebra. Includes Dedekind domains, regular rings, torsion theory. Prerequisite: MATH 71001.</td>
</tr>
<tr>
<td>MATH 71011</td>
<td>ADVANCED GROUP THEORY (3)</td>
<td>Advanced topics in group theory. Topics include permutation arguments, coprime actions, transfer theorems, nonsimplicity criteria. Properties of families of groups: solvable, p solvable, nilpotent, p groups. Repeat registration permitted. Prerequisite: MATH 6/71051, 6/71052 or permission.</td>
</tr>
<tr>
<td>MATH 71012</td>
<td>CHARACTERS OF FINITE GROUPS (3)</td>
<td>Development of characters of finite groups, their properties, orthogonality relations, integrality conditions. Applications include Burnside’s p^aq theorem and existence of Frobenius kernels in Frobenius groups. Prerequisite: MATH 6/71051 and 6/71052 or permission.</td>
</tr>
<tr>
<td>MATH 71095</td>
<td>SELECTED TOPICS IN ALGEBRA (1-3)</td>
<td>Contents will vary with each offering and will complement topics covered in MATH 6/71051, 6/71052, 71001 and 71002. Repeat registration permitted. Prerequisite: Permission.</td>
</tr>
<tr>
<td>MATH 72001</td>
<td>FUNCTIONAL ANALYSIS I (3)</td>
<td>A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces. Prerequisite: MATH 6/72052 or special permission.</td>
</tr>
<tr>
<td>MATH 72002</td>
<td>FUNCTIONAL ANALYSIS II (3)</td>
<td>A continuation of MATH 72001. A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces. Prerequisite: MATH 6/72052 or special permission.</td>
</tr>
<tr>
<td>MATH 72011</td>
<td>ADVANCED DIFFERENTIAL EQUATIONS (3)</td>
<td>Advanced topics in ordinary differential equations in real and complex plane. Prerequisite: MATH 6/72051, 6/72151.</td>
</tr>
<tr>
<td>MATH 72021</td>
<td>SUMMABILITY THEORY (3)</td>
<td>Generalizations of concept of convergent sequence; properties of classical summability methods and of related sequence spaces. Prerequisite: Permission of instructor.</td>
</tr>
</tbody>
</table>
MATH 72095
SELECTED TOPICS IN REAL ANALYSIS  (1-3)
Contents will vary with each offering and will implement topics covered in MATH 6/72051, 6/72052 and 6/72002. Repeat registration permitted. Prerequisite: Permission.

MATH 72195
SELECTED TOPICS IN COMPLEX ANALYSIS  (1-3)
Contents will vary with each offering and will complement topics covered in MATH 6/72151, 6/72152 and 72021. Repeat registration permitted. Prerequisite: Permission.

MATH 72201
APPROXIMATION THEORY  (3)
Introduction to polynomial, trigonometric and spline approximations; direct and inverse theorems of constructive function theory; other topics chosen according to interest of students and instructors. Prerequisite: Permission.

MATH 72295
SELECTED TOPICS IN NUMERICAL ANALYSIS  (1-3)
Contents will vary with each offering and will complement topics covered in MATH 6/72251, 6/72252 and MATH 72201. Repeat registration permitted. Prerequisite: Permission.

MATH 76001
ALGEBRAIC TOPOLOGY I  (3)
Singular and simplicial homology and cohomology theory. Homotopy theory. Prerequisite: Permission.

MATH 76002
ALGEBRAIC TOPOLOGY II  (3)
A continuation of MATH 76001. Singular and simplicial homology and cohomology theory. Homotopy theory. Prerequisite: Permission.

MATH 76095
SELECTED TOPICS IN TOPOLOGY  (1-3)
Contents will vary with each offering and will complement topics covered in MATH 6/76051, 6/76052, 76001 and 76002. Repeat registration permitted. Prerequisite: Permission.

MATH 77011
ALGEBRAIC NUMBER THEORY  (3)
Number fields and Dedekind domains; conjugates, norm and trace, discriminant, integral bases; arithmetic of quadratic and cyclotomic number fields; theory of ideals and class group; Dirichlet’s theorem on units. Prerequisite: MATH 57011 and MATH 6/71052, or permission.

MATH 77012
ANALYTIC NUMBER THEORY  (3)
Multiplicative functions and summatory functions, Riemann’s Zeta Function and the Prime Number Theorem, L-functions and Dirichlet’s theorem on primes in arithmetic progressions, asymptotic formula for partitions. Prerequisite: MATH 57011 and MATH 6/72151, or permission.

MATH 77095
SELECTED TOPICS IN MATHEMATICS  (1-3)
Contents will vary with each offering. Repeat registration permitted. Prerequisite: Permission.

MATH 77098
RESEARCH  (1-15)
Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of “S” is given. Repeated registration permitted.

MATH 77195
SELECTED TOPICS IN NUMBER THEORY  (1-3)
Content varies with each offering and complements topics covered in MATH 77011 and MATH 77012. Repeat registration permitted. Prerequisite: Special approval.

MATH 87098
RESEARCH  (1-15)
Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Credits earned may be applied toward degree if department approves. Repeat registration permitted.

MATH 87199
DISSERTATION I  (15)
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy for doctoral degree.

MATH 87299
DISSERTATION II  (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: MATH 87199.
MODERN AND CLASSICAL LANGUAGE STUDIES

Jennifer Larson, Chair
1018 Satterfield Hall
330-672-1801
jlarson@kent.edu

Carol S. Maier, Coordinator of Graduate Studies
314 Satterfield Hall
330-672-1797
cmaier@kent.edu

The Department of Modern and Classical Language Studies offers programs in French, German, Latin and Spanish leading to the Master of Arts degree in those languages. The language programs offer a pedagogy and literature concentration for students planning careers in teaching (elementary, secondary and college levels), and research and scholarship in language and literature studies. The translation program offers a Master of Arts in Translation degree with concentrations in French, German, Japanese, Russian and Spanish and prepares students for careers in translation, software localization, translation informatics, international business and government. A Doctor of Philosophy degree in Translation Studies is also available for graduates of the Master of Arts program and other qualified applicants. The M.A. programs can normally be completed in two academic years of full-time study, and graduate assistantships are available. The doctoral program requires at least three years of full-time study beyond the Master’s degree.

A detailed outline of the requirements for the Master of Arts in Translation Studies is also available for graduates of the Master of Arts program and other qualified applicants. The M.A. programs can normally be completed in two academic years of full-time study, and graduate assistantships are available. The doctoral program requires at least three years of full-time study beyond the Master’s degree.

Early in their first semester of coursework, students are provided with detailed information on the content of comprehensive examinations for each degree, thesis and non-thesis options, and graduate reading lists in the respective language. Students seeking public pre-K-12 teacher licensure as part of their M.A. degree are especially encouraged to consult with the department upon enrolling in the graduate program. Students holding appointment as graduate teaching assistants in the modern languages must enroll in MCLS 60094 during the first fall semester of their assistantship. With prior departmental approval, graduate students may apply up to 6 credit hours of study-abroad graduate credit and 4 credit hours of specialized graduate workshops to their degree program.


Master of Arts in Modern Languages

MODERN LANGUAGES

Master of Arts degree programs in the modern languages — French, German and Spanish — are offered in these two areas of concentration.

• Literature is designed primarily for students who anticipate continuing their graduate studies beyond the M.A. level, who plan to teach language at the college or post-secondary level, and who wish to pursue scholarly research in modern language and literature studies.

• Pedagogy is designed primarily for students who wish to teach in elementary and secondary schools, and for those who wish to increase their language proficiency and effectiveness as teachers.

Students must successfully complete 33 credit hours of coursework and a comprehensive examination. Students who anticipate enrolling in a Ph.D. program elsewhere after completing the M.A. are urged to write a thesis. Students who write a thesis must successfully complete 27 hours of coursework and pass a modified comprehensive examination.

Specific course requirements amount to 12 semester hours and include MCLS 60000 for all candidates; FR 53213/GER 61001/SPAN 68215 for candidates in the modern languages; students must enroll in the latter of these in their first fall semester. Candidates in French and Spanish must successfully complete at least three additional courses, one in each of the three major literary genres (poetry, drama and prose). Candidates in German must successfully complete at least three additional courses, including GER 51212.

A maximum of 6 semester hours of individual investigation research may be applied toward the degree.
Students must successfully complete 36 semester hours of coursework and a final project, a portfolio, or a comprehensive examination. Additionally, students will complete an exit oral interview and an exit essay examination in the language in which they are earning their degree. Specific requirements include courses in the student’s second language (12 hours): FR 53213/GER 51212/SPAN 58215; FR 53216/GER 51216/SPAN 58216; and 6 hours of literature and culture/civilization courses.

In addition, students must successfully complete MCLS 50660,* 60601, 60661, and 60698 (12 hours), 9 hours of graduate courses in second language pedagogy, and 3 hours of graduate electives. Students are encouraged to enroll in study-abroad programs (limit 6 hours) and in specialized workshops in advanced language or pedagogy (limit 4 hours). Departmental permission must be obtained before enrolling in such programs.

*Students who are already licensed to teach language in Ohio may, with departmental approval, substitute a graduate second-language pedagogy elective for MCLS 50660.

### Master of Arts in Translation

The Master of Arts degree programs in translation are offered in five language concentrations: French, German, Japanese, Russian and Spanish. The translation program prepares students for careers in translation, language engineering, international business and government.

#### PROGRAM REQUIREMENTS

Students must successfully complete 36 semester hours of coursework, including a case study project. Specific course requirements include:

<table>
<thead>
<tr>
<th>Language</th>
<th>Hours</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>French</td>
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<td>TRST 60001 ............................................. 3</td>
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<td>TRST 60010 ............................................. 2</td>
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<td>TRST 60012 ............................................. 3</td>
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<td>FR 63010 ................................................... 2</td>
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<td>FR 63240 ................................................... 3</td>
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<td>FR 63979 ................................................... 3</td>
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<tr>
<td>German</td>
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<td>TRST 60001 ............................................. 3</td>
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<td>GER 61979 .............................................. 3</td>
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<td>Japanese</td>
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<td>Russian</td>
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<td>Spanish</td>
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<td>SPAN 68979 ............................................. 3</td>
</tr>
</tbody>
</table>

In addition to the 25 semester hours of required courses listed above, all candidates in translation must successfully complete 11 semester hours of electives from the following courses or other courses approved in advance by the graduate coordinator and advisor. These 11 hours must include 6 semester hours of courses in the student’s second language. If 6 hours of such courses are not available, the candidate may choose other elective hours with prior approval of the advisor and the graduate coordinator. Candidates with a concentration in German whose native language is not German must successfully complete GER 51212 as 3 of those 6 semester hours.
In addition to courses in Latin language and literature, the department offers a variety of English-language culture courses in classics at the graduate level (e.g., mythology, classical art and archaeology, classical literature in translation). These courses have no language prerequisite and are open to all graduate students.

### Literature

Students must successfully complete 33 semester hours of coursework plus a comprehensive final examination based on the Latin reading list or 27 semester hours of coursework plus a thesis. A minimum of 18 semester hours must be courses in Latin language and literature.

Students may combine a graduate major in Latin with a minor in another field with the approval of the adviser by completing 21 semester hours in Latin courses and 12 semester hours in another language or department. A graduate student majoring in another field may elect a minor in Latin by successfully completing 12 semester hours in Latin.

### Pedagogy

Students must successfully complete 36 semester hours of coursework and a final project, a portfolio, or a comprehensive examination. Additionally, students will complete an exit oral interview and an exit essay examination. Specific course requirements include LAT 66211 and CLAS 51006 or CLAS 51301 plus 6 hours of courses in Latin literature and Roman culture/civilization, of which 3 hours must be literature courses (12 hours).

In addition, students must successfully complete MCLS 50660,* 60601, 60661 and 60698 (12 hours), 9 hours of graduate courses in second-language pedagogy, and 3 hours of graduate electives.

Students are encouraged to enroll in study-abroad programs (limit 6 hours) and in specialized workshops in advanced language or pedagogy (limit 4 hours). Departmental permission must be obtained before enrolling in such programs.

*Students who are already licensed to teach language in Ohio may, with departmental approval, substitute a graduate second-language pedagogy elective for MCLS 50660.

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### Master of Arts in Latin

The Master of Arts degree programs in Latin with concentrations in literature and pedagogy are designed for students with varying career objectives. Students already certified to teach Latin and classics in elementary and secondary schools who wish to increase their language proficiency and effectiveness as teachers will pursue the concentration in pedagogy. The concentration in literature is designed for those who anticipate continuing their studies beyond the Master of Arts level, who plan to teach Latin and classics at the college or postsecondary level, and who wish to pursue scholarly research in classical studies.
Doctor of Philosophy in Translation Studies

Applications for admission to the doctoral program are accepted from students who have completed the M.A. in Translation, an M.A. in a Foreign Language, or an M.A. in any relevant discipline if it is combined with significant prior experience or training in languages or linguistics. All applicants must possess advanced knowledge of a foreign language. Limitations of staff and space require that admissions be restricted to the most promising applicants. In addition to regular admission procedures, departmental requirements include:

- A senior scholastic average of 3.0, and/or a grade point average of at least 3.5 during Master's studies.
- A score of 600 (250 computer-based) or better on the TOEFL examination (in the case of international students).
- Favorable recommendations from former professors or former employers and professional colleagues (for students with prior work experience).
- A statement of goals and motivations for pursuing a career in translation studies.
- Applicants should present proof of translation ability, including one or more of the following: a translation portfolio, official or certifiable record of professional work experience, or professional certification credential.

The Ph.D. program is normally open only to qualified individuals who can enroll as full-time students. Students meeting all other requirements for entry into the doctoral program may be permitted to enroll on a part-time basis as long as registration is limited to formal courses and seminars. Registration for “Research” and “Dissertation” is permitted only of full-time doctoral candidates.

PROGRAM REQUIREMENTS

The Ph.D. in Translation Studies requires a minimum of 60 semester hours (including research and dissertation) beyond the master's degree. Of these, at least 30 hours must be for graduate credit other than research and dissertation. 15 hours of core courses are required of all doctoral students (regardless of area of specialization). The core courses are:

- TRST 70001 Applied Linguistics and Translation Informatics
- TRST 70002 Language Industry
- TRST 70003 Terminology Studies
- TRST 70004 Translation Pedagogy
- TRST 70005 Current Trends in Translation Studies

Specific core requirements for the Doctorate in Translation include 15 hours of core courses:

TRST 70001 .................................................................3
TRST 70002 .................................................................3
TRST 70003 .................................................................3
TRST 70004 .................................................................3
TRST 70005 .................................................................3
TRST 80098 .................................................................1-15
TRST 80199 .................................................................15
TRST 80299 .................................................................1 or 15

Specialization in a doctoral student program is accomplished via specific combination of elective seminars in the translation studies and translation informatics areas. Students must complete 15 credit hours (5 courses) in an approved combination of seminars.

Elective Seminars:

TRST 80091 .................................................................3
TRST 80191 .................................................................3

Note: It is assumed that students have mastered the content of the following M.A. level courses before taking the above courses:

TRST 60009 .................................................................2
TRST 60010 .................................................................2
TRST 60011 .................................................................3
TRST 60012 .................................................................3
TRST 60013 .................................................................3
The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

**MCLS 50093**
**VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES (1-6)**
Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies. S/U grading. Prerequisite: Permission.

**MCLS 50095**
**SELECTED TOPICS (1-3)**
Topic to be announced in the Schedule of Classes. Repeat registration permitted when content varies.

**MCLS 50654**
**COMPUTERS IN SECOND LANGUAGE TEACHING (3)**
Cross-listed with ENG 51002. Designed for teachers of language and culture, this course explores the availability of technology, its implementation in the classroom, and its integration with foreign/second language skills.

**MCLS 50655**
**MULTIMEDIA, ONLINE INSTRUCTION AND SECOND LANGUAGE ACQUISITION (3)**
Cross-listed with ENG 53002. Theoretical bases and application of methods and techniques of second language instruction in an online environment. Design and development of multimedia materials and lessons in a project-based learning environment. Prerequisite: MCLS 50654 or permission.

**MCLS 50660**
**METHODS OF TEACHING FOREIGN LANGUAGES (3)**
Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer-teaching and 30 hours of field experience and curriculum guide required. Prerequisite: Foreign language proficiency level for teaching in public schools.

**MCLS 60000**
**LITERARY THEORY IN MODERN AND CLASSICAL LANGUAGES (3)**
An introduction to literary theory for students of French, German, Latin and Spanish.

**MCLS 60020**
**SEMEIOTICS (3)**
Cross-listed with ENG 6/75057 and PHIL 61055. An introduction to contemporary theories of semiotics and to the application of those theories to linguistics, literature, translation and technology.

**MCLS 60094**
**COLLEGE TEACHING OF FOREIGN LANGUAGES (1)**
An introduction to current principles and issues in the teaching of foreign languages at the college elementary and intermediate levels. Required of departmental teaching assistants.

**MCLS 60601**
**LINGUISTICS FOR THE LANGUAGE PROFESSIONS (3)**
Cross-listed with ENG 63040. Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.

**MCLS 60621**
**THE PRAGMATICS OF CONVERSATION (3)**
Cross-listed with ENG 63037. Theories of PRAGMATICS, conversational structure, and strategies with practical applications for teaching conversation strategies to foreign/second language learners.

**MCLS 60622**
**TEACHING LITERATURE AND CULTURE (3)**
Cross-listed with ENG 63038. Students will explore theories of literature and culture teaching, as well as strategies for teaching literature and culture.

**MCLS 60623**
**SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION (3)**
Cross-listed with ENG 63042. The foundations of sociocultural theory and its applications to the second and foreign language classroom.

**MCLS 60624**
**HERITAGE LANGUAGE SPEAKERS IN THE FOREIGN LANGUAGE CLASSROOM (3)**
Provides an understanding of the unique needs of heritage language speakers in the foreign language classroom and explores theoretical approaches and practical applications toward development of their literacy skills.

**MCLS 60661**
**SECOND LANGUAGE ACQUISITION (3)**
Cross-listed with ENG 6/73033. This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.
Modern and Classical Language Studies

MCLS 60663
SECOND LANGUAGE CURRICULUM AND TESTING (3)
Cross-listed with ENG 63039.
Students will study second language curriculum and testing design and current issues, including oral proficiency testing.

MCLS 60698
RESEARCH IN SECOND LANGUAGE PEDOGOGY (3)
Cross-listed with ENG 63098.
Students will learn how second language research influences their teaching practices by studying research texts and recent journal articles conducting a research project. Prerequisite: Special approval of instructor.

Classics (CLAS)

CLAS 50793
VARIABLE TITLE WORKSHOP IN CLASSICS (1-6)
Workshops individually designed to provide instruction and training in specific areas of classical studies. S/U grading. Prerequisite: Permission.

CLAS 51006
ROMAN HISTORY (3)
Cross-listed with HIST 51006.
A survey of Roman history from its beginnings to the fall of the Roman Empire.

CLAS 51095
SPECIAL TOPICS IN CLASSICS (3)
Topic announced in the schedule of classes. Repeatable for a total of 6 credit hours.

CLAS 51097
COLLOQUIUM IN CLASSICS (3)
Detailed study of an aspect of antiquity that engages issues of current interest, for example, Women in Antiquity, Ancient Christianity, Multiculturalism in Antiquity.

CLAS 51301
CLASSICAL MYTHOLOGY (3)
Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.

CLAS 51401
GREEK ARCHAEOLOGY AND ART (3)
Cross-listed with ART 52031.
Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

CLAS 51402
ROMAN ARCHAEOLOGY AND ART (3)
Cross-listed with ART 52032.
Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.

CLAS 51403
ROMAN CIVILIZATION (3)
Extensive reading and reporting on phases of Roman public and private life.

CLAS 51503
GREEK LITERATURE IN TRANSLATION (3)
Major works of Greek literature studied in their historical context and by genre; knowledge of Greek not required.

French (FR)

FR 53091
FRENCH SEMINAR (3)
Topic to be announced.

FR 53213
FRENCH COMPOSITION — ADVANCED (3)
French stylistics developed through analyses of literary extracts and practice in written expression.

FR 53216
CONTEMPORARY FRENCH CULTURE (3)
A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.

FR 53366
STUDIES IN 19TH-CENTURY FRENCH LITERATURE (3)
Study of selected topics in 19th-century French literature. Prerequisite: 6 hours from 33330 level.

FR 53368
20TH-CENTURY FRENCH NOVEL (3)
Study of selected 20th-century French novels, with emphasis on one or several major writers or movements. Prerequisite: 6 hours from 33330 level.

FR 53369
20TH-CENTURY FRENCH POETRY (3)
A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillecic, Jabes, Bonnefoy, Dupin, Alpiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.

FR 53370
20TH-CENTURY FRENCH THEATRE (3)
Studies in French drama since 1900. Prerequisite: 6 hours from 33330 level.

FR 53380
FRANCOPHONE LITERATURE (3)
A study of writers, movements or works representative of French-speaking national cultures outside of France. May be repeated for credit as course content changes.
FR 63001  
**GRADUATE RESEARCH AND WRITING IN FRENCH (3)**  
Individual instruction and assistance with problems encountered in academic research and writing in French. Required of all graduate students in their first fall semester of graduate work.

FR 63010  
**THE PRACTICE OF FRENCH TRANSLATION (2)**  
Students apply linguistic and communication science concepts to case studies of language mediation. Corequisite: TRST 60010.

FR 63093  
**VARIABLE TITLE WORKSHOP IN FRENCH (1-6)**  
Workshops individually designed to provide instruction and training in specific areas of French studies. S/U grading. Prerequisite: Permission.

FR 63098  
**RESEARCH (1-15)**  
Research or individual investigation for master’s-level graduate students. Credits earned applied toward degree requirements if department approves. Repeat registration permitted. IP permissible. Prerequisite: Permission.

FR 63199  
**THESIS I (2-6)**  
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Permission.

*FR 63201  
**READING FRENCH FOR GRADUATE STUDENTS (4)**  
Introduction to the fundamentals of French grammar for graduate students. Practice in reading and translation.

*FR 63202  
**READING FRENCH FOR GRADUATE STUDENTS (HUMANITIES/SOCIAL SCIENCES) (3)**  
Practice in the reading and translation of French texts in the student’s specialized field and in more general areas.

FR 63240  
**LITERARY AND CULTURAL TRANSLATION (3)**  
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into French will also be emphasized.

FR 63250  
**COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION (3)**  
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010.

FR 63251  
**SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION (3)**  
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010.

FR 63298  
**APPLIED TRANSLATION RESEARCH (1-3)**  
Work experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member. S/U grading; IP permissible. Prerequisite: TRST 60010 and permission of translation coordinator.

FR 63299  
**THESIS II (2)**  
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: FR 63199.

FR 63298  
**CASE STUDY IN TRANSLATION (3)**  
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process, and the strategies used to solve them. S/U grading. Prerequisite: Special approval.

*Credit hours earned in this language sequence are not applicable toward the completion of the hour requirement in a student's graduate program, and do not count toward the minimum 8-hour semester load required.

German (GER)

GER 51095  
**SPECIAL TOPICS (1-4)**  
*Topic announced in Schedule of Classes.* May be repeated when content varies.

GER 51096  
**INDIVIDUAL INVESTIGATION (1-3)**  
Independent investigation of problems in German language or literature. Permission of the department chair required. May be repeated. IP permissible.

GER 51212  
**STYLISTICS (3)**  
Development of written German style through selected readings, textual analysis and stylistic exercises.

GER 51216  
**CONTEMPORARY GERMAN CULTURE (3)**  
A study of selected sociological, political, cultural and economic issues in contemporary German-speaking countries, using readings, films and legal documents as the basis for discussion. Taught in German.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 51330</td>
<td>20TH-CENTURY GERMAN AUTHORS (3)</td>
<td></td>
<td>A survey of the major movements and authors of the 20th century.</td>
</tr>
<tr>
<td>GER 51331</td>
<td>HISTORY OF GERMAN LITERATURE (4)</td>
<td></td>
<td>History of the development of German literature from 750 to the present.</td>
</tr>
<tr>
<td>GER 51332</td>
<td>GERMAN LITERATURE BY WOMEN (3)</td>
<td></td>
<td>Readings of works by female German authors. Taught in German.</td>
</tr>
<tr>
<td>GER 51334</td>
<td>THE GERMAN NOVELLA (3)</td>
<td></td>
<td>Development of the German novella from the 18th century to the present. Readings of major works, lectures, analyses; taught in German.</td>
</tr>
<tr>
<td>GER 51365</td>
<td>CLASSICAL GERMAN LITERATURE (3)</td>
<td></td>
<td>Reading and critical analysis of major works of the Classical Age with emphasis on Goethe.</td>
</tr>
<tr>
<td>GER 51731</td>
<td>SURVEY OF GERMAN CINEMA (3)</td>
<td></td>
<td>A survey of major contributions to the German cinema from the beginnings to the present; taught in German.</td>
</tr>
<tr>
<td>GER 61001</td>
<td>GRADUATE RESEARCH AND WRITING IN GERMAN (3)</td>
<td></td>
<td>Individual instruction and assistance with problems encountered in academic research and writing in German. Required of all graduate students in their first semester of graduate work.</td>
</tr>
<tr>
<td>GER 61010</td>
<td>THE PRACTICE OF GERMAN TRANSLATION (2)</td>
<td></td>
<td>Students apply linguistic and communication science concepts to case studies of language mediation. Corequisite: TRST 60010.</td>
</tr>
<tr>
<td>GER 61091</td>
<td>VARIABLE TOPIC SEMINAR (3)</td>
<td></td>
<td>Topic announced in Schedule of Classes. May be repeated when content varies.</td>
</tr>
<tr>
<td>GER 61199</td>
<td>THESIS I (2-6)</td>
<td></td>
<td>Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>GER 61200</td>
<td>HISTORY OF THE GERMAN LANGUAGE (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 61240</td>
<td>LITERARY AND CULTURAL TRANSLATION (3)</td>
<td></td>
<td>Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into German will also be emphasized.</td>
</tr>
<tr>
<td>GER 61250</td>
<td>COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION (3)</td>
<td></td>
<td>An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010.</td>
</tr>
<tr>
<td>GER 61251</td>
<td>SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION (3)</td>
<td></td>
<td>An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010.</td>
</tr>
<tr>
<td>GER 61298</td>
<td>APPLIED TRANSLATION RESEARCH (1-3)</td>
<td></td>
<td>Work experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member. S/U grading; IP permissible. Prerequisite: TRST 60010 and permission of translation coordinator.</td>
</tr>
<tr>
<td>GER 61299</td>
<td>THESIS II (2)</td>
<td></td>
<td>Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: GER 61199.</td>
</tr>
<tr>
<td>GER 61350</td>
<td>SEMINAR ON THE LYRIC (3)</td>
<td></td>
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<tr>
<td>GER 61353</td>
<td>SEMINAR ON THE NOVEL (3)</td>
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<tr>
<td>GER 61354</td>
<td>SEMINAR ON GERMAN DRAMA (3)</td>
<td></td>
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<tr>
<td>GER 61361</td>
<td>SEMINAR ON THE BAROQUE (3)</td>
<td></td>
<td>Readings in German literature and poetics of the 17th century.</td>
</tr>
<tr>
<td>GER 61366</td>
<td>SEMINAR ON ROMANTICISM (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 61398</td>
<td>RESEARCH (1-15)</td>
<td></td>
<td>Research for master's-level graduate students. Credit toward degree requirements may be given with department approval. Repeat registration permitted. IP permissible. Prerequisite: Permission.</td>
</tr>
</tbody>
</table>
JAPN 65240  
LITERARY AND CULTURAL TRANSLATION (3)  
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Japanese will also be emphasized.

JAPN 65250  
COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION (3)  
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010.

JAPN 65251  
SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION (3)  
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010.

JAPN 65298  
APPLIED TRANSLATION RESEARCH (1-3)  
Work experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member. S/U grading; IP permissible. Prerequisite: TRST 60010 and special approval of translation coordinator.

JAPN 65979  
CASE STUDY IN TRANSLATION (3)  
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them. S/U grading. Prerequisite: special approval.

*GER 61901  
READING GERMAN FOR GRADUATE STUDENTS (4)  
Introduction to the fundamentals of German grammar for graduate students. Practice in reading and translation.

*GER 61902  
READING GERMAN FOR GRADUATE STUDENTS (3)  
Continued practice in reading and translation. Independent study of scholarly texts in the student’s own discipline. Prerequisite: GER 61901 or permission.

GER 61979  
CASE STUDY IN TRANSLATION (3)  
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them. S/U grading. Prerequisite: special approval.

*Credit hours earned in this language sequence are not applicable toward the completion of the hour requirement in a student's graduate program and do not count toward the minimum 8-hour semester load required.

Japanese (JAPN)

JAPN 55301  
BUSINESS JAPANESE (3)  
Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.

JAPN 65001  
GRADUATE RESEARCH AND WRITING IN JAPANESE (3)  
Individual instruction and assistance with problems encountered in academic research and writing in Japanese. Required of all graduate students in their first fall semester.

JAPN 65010  
THE PRACTICE OF JAPANESE TRANSLATION (2)  
Students apply linguistic and communication science concepts to case studies of language mediation. Corequisite: TRST 60010.

JAPN 65091  
SEMINAR (3)  
Topic announced in Schedule of Classes; may be repeated when content varies.

JAPN 65098  
RESEARCH (1-15)  
Research or individual investigation for master's-level graduate students. Credits earned applied toward degree requirements if department approves; repeat registration permitted. IP permissible. Prerequisite: Departmental approval.

Latin (LAT)

LAT 50393  
VARIABLE TITLE WORKSHOP IN LATIN (1-6)  
Workshops individually designed to provide instruction and training in Latin studies. S/U grading. Prerequisite: Special approval.

LAT 56095  
SELECTED TOPICS IN LATIN (3)  
Topic to be announced in semester Schedule of Classes. May be repeated to maximum of 15 hours. Prerequisite: LAT 36180 and 37171.

LAT 56352  
ELEGIAIC POETS (3)  
Selections from Tibullus, Propertius and Ovid.

LAT 56374  
JUVENAL’S SATIRES AND MARTIAL’S EPIGRAMS (3)  
General consideration of Roman satire.
Modern and Classical Language Studies

LAT 56375
LUcretius (3)
De Rerum Natura.

LAT 66199
Thesis I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester, distributed over several semesters if desired. S/U grading; IP permissible.

LAT 66211
Advanced Prose Composition (3)
More thorough training in composition where need is established.

LAT 66299
Thesis II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: LAT 66199.

LAT 66351
Latin Comedy (3)
Characteristics of Latin comedy; readings from Plautus and Terence.

LAT 66372
Lyric Poetry (3)
Readings from the poetry of Catullus and Horace, with considerations of the general genre of lyric; a comparison of style and content of the two poets. Study of Greek and Latin precedents in the genre.

LAT 66373
Advanced Prose Authors (3)
A consideration of selected major prose writers such as Pliny the Younger, Livy, Tacitus, Suetonius.

LAT 66391
Seminar in Classical Literature (2 or 3)
Topics to be announced. IP permissible.

LAT 66398
Research (1-15)
Research or individual investigation for master's-level graduate students. Credits earned applied toward degree requirements if department approves. Repeat registration permitted. IP permissible. Prerequisite: Departmental special approval.

RUSS 52211
Advanced Composition and Conversation (3)
Advanced practice in written and oral expression in Russian.

RUSS 52240
Business and Special Texts: Russian (3)
Survey of the typical text types of business in the Russian culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Russian.

RUSS 52351
Survey of Russian and Soviet Literature (3)
This course introduces students to the major movements and authors of Russian, Soviet, and post-Soviet literature, beginning with Karamzin and ending with Boris Akunin.

RUSS 62001
Graduate Research and Writing in Russian (3)
Individual instruction and assistance with problems encountered in academic research and writing in Russian. Required of all graduate students in their first fall semester of graduate work.

RUSS 62010
The Practice of Russian Translation (2)
Students apply linguistic and communication science concepts to case studies of language mediation. Corequisite: TRST 60010.

RUSS 62091
Seminar (3)
Topic announced in Schedule of Classes; may be repeated when content changes.

RUSS 62098
Research (1-15)
Research or individual investigation for master's-level graduate students. Credits earned applied toward degree requirements if department approves; repeat registration permitted. IP permissible. Prerequisite: Departmental special approval.

RUSS 62240
Literary and Cultural Translation (3)
Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Russian will also be emphasized.

RUSS 62250
Commercial, Legal and Diplomatic Translation (3)
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010.
RUSS 62251
SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION (3)
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010.

RUSS 62298
APPLIED TRANSLATION RESEARCH (1-3)
Work experience in translation of interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member. Prerequisites: TRST 60010; and special approval of translation coordinator.

RUSS 62979
CASE STUDY IN TRANSLATION (3)
Students will be responsible for a major translation and a terminology glossary, as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them. S/U grading. Prerequisite: Special approval.

Spanish (SPAN)

SPAN 58095
SELECTED TOPICS IN SPANISH (3)
Topic to be announced in semester Schedule of Classes. May be repeated to maximum of 15 hours.

SPAN 58216
CONTEMPORARY HISPANIC CULTURE (3)
A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.

SPAN 58340
MEDIEVAL SPANISH POETRY (3)
Spanish poetry from its origins to 1500.

SPAN 58350
DON QUIXOTE (3)
A detailed study of Cervantes' masterpiece.

SPAN 58351
MINOR WORKS OF CERVANTES (3)
La Numancia, Entremeses, La Galatea, Novelas ejemplares.

SPAN 58352
MEDIEVAL SPANISH PROSE (3)
The development of medieval Spanish prose, with special emphasis on La Celestina.

SPAN 58354
NEOCLASSICISM AND ROMANTICISM (3)
Survey of Neoclassicism and Romanticism in Spain.

SPAN 58356
GOLDEN AGE PROSE (3)
Study of the development of the various forms of prose fiction during the Spanish Golden Age.

SPAN 58358
19TH-CENTURY NOVEL (3)

SPAN 58360
20TH-CENTURY SPANISH DRAMA (3)
Representative works of leading Spanish dramatists of the 20th century.

SPAN 58364
THE GENERATION OF ’98 AND AFTER (3)
Intensive reading of representative works with an examination of the historical circumstances that led to the formation of the Generation of ’98.

SPAN 58366
THE NOVEL OF THE MEXICAN REVOLUTION (3)
A critical sociocultural and literary examination of selected Mexican novels that explore a variety of responses to the first major 20th-century mass upheaval in Latin America known as the Mexican Revolution.

SPAN 58370
MODERNISM IN SPANISH AMERICA (3)
Ruben Dario and other writers of the modernista movement; works include modernist poetry, short stories and essays.

SPAN 58372
SPANISH-AMERICAN NOVEL I (3)
A cultural and literary analysis of selected major Spanish-American novels written between 1900 and 1950.

SPAN 58373
SPANISH-AMERICAN NOVEL II (3)
A cultural and literary analysis of selected major Spanish-American novels written from 1950 to the present.

SPAN 58374
MODERN SPANISH-AMERICAN DRAMA (3)
Analysis of selected plays from various Spanish-American countries.

SPAN 58376
CONTEMPORARY SPANISH-AMERICAN SHORT STORY (3)
The development of the Spanish-American short story from 1917 to the present.

SPAN 58378
U.S. LATINA/O WRITERS (3)
The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers, developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.
SPAN 58422
EARLY SPANISH-AMERICAN DISCOURSE (3)
This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.

SPAN 58423
SPANISH-AMERICAN INDIAN DISCOURSE (3)
This course provides a critical analysis of cultural and literary issues in selected excerpts of the Spanish-American Indian expression from pre-Columbian to Colonial times.

SPAN 68001
SPANISH LITERARY RESEARCH AND WRITING (3)
Individual instruction with problems encountered in academic research and writing in Spanish. Required of all graduate students in their first semester of graduate work.

SPAN 68010
THE PRACTICE OF SPANISH TRANSLATION (2)
Students apply linguistic and communication science concepts to case studies of language mediation. Corequisite: TRST 60010.

SPAN 68093
VARIABLE TITLE WORKSHOP IN SPANISH (1-6)
Workshops individually designed to provide instruction and training in specific areas of Spanish studies. Prerequisite: Permission.

SPAN 68095
SELECTED TOPICS (3)
Selected topics on Spanish literature or linguistics.

SPAN 68098
RESEARCH (1-15)
Research or individual investigation for master's-level graduate students. Credits earned applied toward degree requirements if department approves. Repeat registration permitted. IP permissible. Prerequisite: Permission.

SPAN 68191
SEMINAR IN FICTION (3)
Intensive study of one or two major writers of a movement in the history of Spanish and Spanish-American fiction.

SPAN 68199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. IP permissible.

*SPAN 68201
READING SPANISH FOR GRADUATE STUDENTS (HUMANITIES/SOCIAL SCIENCES) (3)
Specialized graded readings in Spanish for students in the humanities and social sciences. Not open to Spanish majors.

SPAN 68215
ADVANCED SPANISH COMPOSITION AND CONVERSATION (3)
Intended to strengthen advanced-high or superior writing skills of description, summary, narration, exposition, and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.

SPAN 68240
LITERARY AND CULTURAL TRANSLATION (3)
Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Spanish will also be emphasized.

SPAN 68250
COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION (3)
An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010.

SPAN 68251
SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION (3)
An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010

SPAN 68298
APPLIED TRANSLATION RESEARCH (1-3)
Work experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member. S/U grading; IP permissible. Prerequisite: TRST 60010 and special approval of translation coordinator.

SPAN 68299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SPAN 68199.

SPAN 68391
SEMINAR IN THEATRE (3)
Intensive study of one or two major dramatists or movements in the history of Spanish and Spanish-American theatre.

SPAN 68591
SEMINAR IN POETRY (3)
Intensive study of one or two major poets or of a movement in the history of Spanish and Spanish-American poetry.
SPAN 68979
CASE STUDY IN TRANSLATION (3)
Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them. S/U grading. Prerequisite: Special approval.

*Credit hours earned in this language sequence are not applicable toward the completion of the hour requirement in a student’s graduate program and do not count toward the minimum 8-hour semester load required.

Translation Studies (TRST)

TRST 60001
GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES (3)
Individual instruction and assistance with problems encountered in academic research and writing in translation.

TRST 60009
DOCUMENTS IN MULTILINGUAL CONTEXTS (2)
An in-depth study of the role of documents in the multilingual information cycle as manifested in word-processing, desktop publishing and Web-based environments.

TRST 60010
THEORY OF TRANSLATION AND INTERPRETING (2)
Introduction to the theoretical bases and methods of language mediation.

TRST 60011
TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION (3)
Practice-oriented introduction to terminology management and translation tools, such as term extraction, translation memory, and machine translation. Prerequisite: TRST 60009.

TRST 60012
SOFTWARE LOCALIZATION (3)
Introduction to localization, the translation and adaptation of products, including software and Web pages, for sale or dissemination in specific target-language markets. Course introduces the basic concepts and techniques of localization and provides a hands-on introduction to relevant computer software. Prerequisite: TRST 60011 with minimum B (3.0) grade.

TRST 60013
LANGUAGE PROJECT MANAGEMENT (3)
Introduction to project management in the language industry. Course covers the body of knowledge and skills, including the use of project management software, required to perform the duties of a translation or localization project manager. Beginning with an overview of the language industry, the course examines the language industry project. Prerequisites: TRST 60011 with minimum B (3.0) grade.

TRST 60098
RESEARCH IN TRANSLATION STUDIES (1-15)
Research for M.A. translation students. Credits earned may be applied toward degree if department approves. Repeatable for a total of 15 credit hours.

TRST 70001
APPLIED LINGUISTICS AND TRANSLATION INFORMATICS (3)
Advanced topics in applied linguistics, including corpus and text linguistics as they apply to translation. Advanced topics in translation informatics in multilingual environments. Prerequisite: TRST 60011 or equivalent.

TRST 70002
THE LANGUAGE INDUSTRY (3)
Study of the socio-economic context of professional translation and the language services business sector. Includes in-depth study of the language industry drawing on industry analysis and business case studies.

TRST 70003
TERMINOLOGY STUDIES (3)
Advanced topics in terminology, lexicography, ontology and knowledge organization systems. Prerequisite: TRST 60011 or equivalent.

TRST 70004
TRANSLATION PEDAGOGY (3)
Teaching methods and curriculum design for translation programs.

TRST 70005
CURRENT TRENDS IN TRANSLATION STUDIES (3)
A critical examination of the main trends in translation theory and an exploration of emerging developments in translation studies. Prerequisite: TRST 60010 or equivalent.

TRST 80091
SEMINAR IN TRANSLATION STUDIES (3)
Seminar for doctoral students to present and discuss research related to specific areas of translation studies.

TRST 80098
RESEARCH (1-15)
Research for doctoral students. Credits earned may be applied toward degree if department approves. Repeat registration permitted.

TRST 80191
SEMINAR IN TRANSLATION INFORMATICS (3)
Seminar for doctoral students to present and discuss research related to specific areas of translation informatics.

TRST 80199
DISSERTATION I (15)
Doctoral dissertation. Registration in at least two semesters is required, the first of which will be the semester in which the dissertation work begins and continuing until 30 hours are completed. Prerequisite: Admission to candidacy.
TRST 80299
DISSERTATION II (1-15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.
PHILOSOPHY

David Odell-Scott, Chair
320 Bowman Hall
330-672-2315
dodellsc@kent.edu

Michael Byron, Coordinator of Graduate Studies
320 Bowman Hall
330-672-0273
mbyron@kent.edu

Master of Art

The Master of Arts degree program in philosophy is designed to provide opportunities to pursue intensive, in-depth study within the discipline of philosophy, with particular attention given to developing an appreciation for the varieties of philosophical methods, perspectives and modes of analysis, and their relation to the methodological concerns and interests of other disciplines. The M.A. program offers courses of study in three concentrations for persons interested in pursuing a terminal master's degree in philosophy, for persons pursuing doctoral work in philosophy, as well as for persons wishing to supplement and enhance their work in other disciplines and degree programs. The concentrations offered are in the areas of Culture/History, Ethics/Practice and Interpretation/Method. Each concentration offers thesis and nonthesis options. Visit http://philosophy.kent.edu for more information.

ADMISSION

In general, an undergraduate grade point average of 3.0 (A=4.0) is required for admission. All applicants must submit scores on the Graduate Record Examination and three letters of recommendation to the Department of Philosophy. It is recommended that applicants intending to pursue the M.A. in philosophy as preparation for doctoral study should possess the equivalent of two years of college-level preparation in a foreign language and at least the equivalent of an undergraduate minor in philosophy (18 semester hours). Those applicants intending to pursue the M.A. in philosophy as preparation for or as a supplement to work in another discipline, as well as persons planning to pursue a terminal M.A., in most cases should present evidence of at least the equivalent of an undergraduate minor in philosophy along with other material demonstrating preparation for admission. Students who do not have an undergraduate major or minor in philosophy should consult the graduate coordinator prior to submitting their application.

All applicants to the M.A. degree program must submit a brief statement of purpose for pursuing advanced work in philosophy. Applicants should indicate their preference for area of concentration and choice of culminating experience option, thesis or research project. Persons wishing to pursue a concentration within the program without completing the M.A. degree should consult the graduate coordinator and, where appropriate, an adviser in the home discipline.

ADVISING

On admission each student will be assigned a program advisory group of three faculty members. The program advisory group for each student will be selected on the basis of student and faculty interests and faculty availability. Each program advisory group will be designated by the graduate coordinator. Once a student submits a tentative thesis/ research project proposal, a thesis advisory group is formed. Upon the approval of a thesis proposal, the thesis advisory group functions as the program advisory group.

PROGRAM REQUIREMENTS

The M.A. degree in philosophy requires 35 hours beyond the baccalaureate degree including 6 hours of research directed toward the completion of the thesis or 9 hours of research directed toward the completion of a nonthesis research project option.

Students who lack background preparation in a specific area will be required to take an undergraduate course, and earn a letter grade of “B” (3.0) or better in that course, as a prerequisite for further graduate study in that area. The student’s program advisory group, in consultation with the graduate coordinator, will determine which course prerequisites are needed.

Beyond required and elected coursework of each concentration, candidates are required to participate in PHIL 69997, Colloquium, for each semester in residence. No more than two semester hours of colloquium can be counted toward degree requirements. The graduate coordinator will consider, in consultation with the graduate faculty, various options for satisfying the colloquium requirement where circumstances demand additional consideration.

There are five elements common to each concentration: a “core” of Graduate Seminars (6 hours); concentration electives (6 hours); general electives (15 hours for the thesis option and 12 hours for the nonthesis option); culminating experience (6 hours for thesis option and 9 hours for nonthesis option); and colloquium (2 hours).

Graduate students are required to take two sections of the Graduate Seminar, PHIL 60191: Students on a normal rotation will register for the Graduate Seminar in the Spring of their first year and in the Fall of their second year. Proposals for a culminating experience can be made only after a student has met at least the following requirements: one required concentration elective, and completion of or present good standing in one section of PHIL 60191 and a second required concentration elective.

ELECTIVES

In addition to the required concentration electives, all courses offered in the graduate philosophy program serve as general electives in any concentration. The selection of electives, and especially concentration electives, should be made with the advice and approval of the student’s program advisory group in consultation with the graduate coordinator. In no instance will the research project or thesis count toward satisfying
Courses (PHIL)

The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.

PHIL 50005
HEALTH CARE ETHICS (3)
Ethical problems in health care will be critically assessed. Student will consider how these specific ethical problems illuminate the ethical enterprise.

PHIL 50093
VARIABLE TITLE WORKSHOP IN PHILOSOPHY (1-6)
S/U grading.

PHIL 51010
PROBLEMS IN THE PHILOSOPHY OF RELIGION (3)
Philosophical examination of issues and problems presented by various writers in philosophy of religion.

PHIL 51015
PHILOSOPHICAL STUDY OF RELIGION (3)
A philosophical examination of pivotal issues, schools and theorists in the study of religion, and the future of comparative studies. This course pursues the academic study of religion at an advanced level.

PHIL 51020
SOCIAL PHILOSOPHY (3)
Philosophical examination of theories of society as proposed by various writers.

PHIL 51025
PHILOSOPHY OF LAW (3)
Critical examination of nature and function of law.

PHIL 51030
ETHICAL THEORIES AND PRACTICES (3)
Intensive and in-depth study of some dimensions of philosophic traditions in ethics.

PHIL 51035
PHILOSOPHY OF SCIENCE (3)
Analysis of methodological problems in scientific disciplines.

PHIL 51040
THEORIES OF KNOWLEDGE (3)
Study of various problems in philosophic theories of knowledge, with some emphasis on current philosophic challenges to such theories.

PHIL 51042
TOPICS IN METAPHYSICS (3)
A philosophical examination of at least three issues in metaphysics with an emphasis on the historical debates that give rise to them and on their contemporary contexts.

PHIL 51045
METALOGIC (3)
Consideration of various metatheorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus and incompleteness of the theory of arithmetic.

PHIL 51050
PHILOSOPHICAL ANALYSIS (3)
Study of major problems in analytic philosophy and subsequent philosophical analysis.

PHIL 51055
PHENOMENOLOGY (3)
Investigation of phenomenological movement, its methods, and the scope and course of its applications, in philosophy and other disciplines.

PHIL 51060
PRAGMATISM (3)
Detailed reading from classical American pragmatists along with some attention to later interpretations and exploration of current reappraisals and developments.

PHIL 51065
PLATO (3)
Detailed examination of selected Platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes.

PHIL 51070
ARISTOTLE (3)
Detailed examination of selected works of Aristotle, with some attention given to Aristotle's development and dismissal of certain pre-Socratic and Platonic themes.

PHIL 51076
CONTINENTAL PHILOSOPHY (3)
Investigation of some figure, issue or theme in continental philosophy from Descartes to present.

PHIL 51077
BRITISH AND AMERICAN PHILOSOPHY (3)
Detailed investigation of a figure or issue in British or American philosophy.
PHIL 51080
PHILOSOPHY AND ART IN THE MODERN AGE (3)
Exploring, with emphasis on the modern age, philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory. Prerequisite: Graduate standing in philosophy or art, or permission.

PHIL 51085
PHILOSOPHY AND CULTURAL THEORY (3)
A discussion of the philosophical bases of aspects of cultural theory such as postcolonialism and the negritude movement.

PHIL 51086
PHILOSOPHY OF EXPRESSION (3)
Concentrated study of expression through philosophy of literature, of music, of body, of language and of symbols.

PHIL 59995
SPECIAL TOPICS (3)
When content varies, may be repeated for credit.

PHIL 59996
INDIVIDUAL INVESTIGATION (1-3)
S/U grading; IP permissible. Repeat registration permitted with departmental approval. Prerequisite: Departmental permission before registration.

PHIL 60191
GRADUATE SEMINAR (3-6)
Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or concerning one or more philosophical issues.

PHIL 60201
SEMINAR: HISTORY OF PHILOSOPHY (3)
Intensive primary-source reading and critical appreciation of the significant works of one or more historical philosophers (other than Plato or Aristotle) or one or more historical philosophical issues.

PHIL 61050
PHILOSOPHY OF LANGUAGE (3)
Cross-listed with ENG 6/75050. Critical examination of nature and function of language, especially in relation to mental function and development.

PHIL 61055
SEMEIOTICS (3)
Cross-listed with ENG 6/75057 and MCLS 60020. An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology.

PHIL 61056
HERMENEUTICS (3)
Critical appreciation of the theories and practices of interpretation comprehended according to certain classical, current, and emergent philosophic styles and traditions.

PHIL 61075
LOGICAL THEORY (3)
Intensive study of issues concerning conceptual framework or presuppositions of logic; or challenges or alternatives to classical logic or to logic itself.

PHIL 61084
RESEARCH ETHICS (3)
Exploration of methodologies, the treatment of human and animal research subjects, responsible authorship practices and the role of the scientist in the moral community.

PHIL 61085
METAETHICS (3)
Examination of the conceptions, presuppositions and value judgments of ethical theories.

PHIL 69194
COLLEGE TEACHING OF PHILOSOPHY (1)
Discussion, critique and development of concepts to guide the teaching of philosophy including concepts of procedures and tactics for planning, pacing, presenting, representing and reviewing philosopic texts, figures and issues. S/U grading; IP permissible.

PHIL 69199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Departmental permission before registration.

PHIL 69299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PHIL 69199.

PHIL 69995
SPECIAL TOPICS (3)
Selected topics in philosophy. Repeat registration permitted. Prerequisite: Permission.

PHIL 69997
COLLOQUIUM (1)
Student, faculty and invited guests participate in conference-like contexts to present and discuss issues of current philosophic interest. Repeat registration permitted. S/U grading; IP permissible.

PHIL 69998
RESEARCH (1-15)
Research or individual investigation for master’s-level graduate students. Credits earned may be applied toward meeting degree requirements. Repeat registration permitted with departmental approval. S/U grading; IP permissible. Prerequisite: Departmental permission before registration.
Bryon Anderson, Chair
105 Smith Hall
330-672-2246
bdanders@kent.edu

Declan Keane, Coordinator of Graduate Studies
221 Smith Hall
330-672-0089
keane@kent.edu

The Department of Physics offers graduate courses and research opportunities leading to the degrees of Doctor of Philosophy, Master of Science and Master of Arts. Additional requirements and information can be found in the Departmental Information and Policy Guide, which can be obtained from the Department of Physics upon request. Information on current research activities can be found in the brochure entitled Graduate Studies and Research in Physics at Kent State University, which is also available on request. Visit http://phys.kent.edu for more information.

Master of Science

PROGRAM REQUIREMENTS
A total of 32 semester hours of credits is required, which includes 6 hours of thesis and the following physics courses or their equivalents: 55201, 55202, 6/75101 and 6/76161. The remaining hours may be divided among course, seminar and research credits according to the interests of the student with the consent of the advisor. A thesis presenting and interpreting results of original research is required. The research areas are outlined in the dissertation section under the doctoral program.

Master of Arts

PROGRAM REQUIREMENTS
A total of 32 semester hours of graduate credit is required, with no more than one half at the 50000 level. The distribution of these hours will be planned by the student together with the faculty advisor to best fulfill the needs of the student.

Doctor of Philosophy

Each student is required to take a set of basic courses as outlined in the Departmental Information and Policy Guide. Students may petition to have specific course requirements waived if a grade of “B” 3.0 or higher was obtained for an equivalent course at another school. The basic physics courses will prepare the student for the candidacy examination. Students present at least one seminar during their graduate career.

Dissertation
The dissertation presents results of original research. Topics available for dissertation research are primarily in the areas of condensed matter physics and high-energy nuclear physics. Condensed matter research emphasizes liquid crystal/soft condensed matter physics and systems exhibiting highly correlated electrons/superconductors. It includes problems involving theory and computation, critical phenomena, X-ray scattering, nuclear magnetic resonance, light scattering, magnetic and electric phenomena, ultrasounds, and thermal and optical properties. Small angle neutron scattering and synchrotron X-ray experiments are carried out at national facilities such as the National Institute for Standard and Technology and Argonne National Laboratory. High-energy nuclear research probes the subatomic structure of matter via the subatomic particles and their strong interaction processes. Experiments are carried out at national accelerator facilities such as the Thomas Jefferson National Laboratory and the Brookhaven Relativistic Heavy Ion Collider. Research in subatomic theory concentrates on modeling hadrons in terms of quarks and gluons using relativistic quantum field theory and describing high energy collision processes of hot, dense nuclear matter in terms of basic quark-gluon interactions.

Courses (PHY)

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

PHY 50020
ADVANCED PHYSICS LAB (2)
Advanced experiments in classical and modern physics are selected to accompany and to supplement graduate-level physics courses. Repeat registration permitted.

PHY 50093
VARIABLE TITLE WORKSHOP IN PHYSICS (1-6)
Workshops individually designed to provide instruction and training in specific areas of physics. S/U grading. Prerequisite: Permission.

PHY 50095/70095
SPECIAL TOPICS (1-3)
Topic announced when scheduled. Prerequisite: Permission.

PHY 50096
INDIVIDUAL INVESTIGATION (1-3)
Individual projects for physics graduate students. IP permissible.

PHY 50195/70195
SPECIAL TOPICS (1-3)
Topic announced when scheduled. Prerequisite: Permission.
PHY 52500
PHYSICS OF LABORATORY DEVICES AND TECHNIQUES (3)
Physics of semiconducting devices such as diodes, transistors; laboratory techniques using temperature control, vacuum pumps; X-ray, neutron, light and electron scattering.

PHY 52512
GENERAL ELECTRONIC INSTRUMENTATION (4)
Laboratory-based course in digital and analog electronics. Computer interfacing and computer-based technique all within context of applications in measurements, signal-to-noise enhancement and control instrumentation. Lecture 2 hours, laboratory 4 hours weekly.

PHY 52513
COMPUTER SYSTEMS DESIGN (3)
Hands-on experience in selecting and using a microcomputer-based data acquisition and control system in the science laboratory. Lecture 1 hour, laboratory 4 hours weekly. IP permissible. Prerequisite: CS 10061.)

PHY 54291
PLANETARIUM OPERATION AND PROGRAMMING (1)
Planetarium operation, advantages and limitations. Slides, technamation, special effects and programs for K-12 grades, public and special groups. Prerequisite: Permission.

PHY 54600
INTRODUCTION TO BIOLOGICAL PHYSICS (3)
Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics. Prerequisite: permission.

PHY 54802
ASTROPHYSICS (3)
Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies and a description of various cosmological theories. Prerequisite: MATH 12003 and a major or minor in the physical sciences or technology, or consent of instructor.

PHY 55201
ELECTROMAGNETIC THEORY (4)
Properties of electric and magnetic fields developed by vector methods. Treatment of static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields. Prerequisite: MATH 32052 or equivalent and 16 hours of physics, or permission.

PHY 55301
THERMAL PHYSICS (3)
An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering. Prerequisites: PHY 36001 or equivalent, or permission.

PHY 55401
MATHEMATICAL METHODS IN PHYSICS (4)
Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations. Prerequisite: MATH 32052 or equivalent, or permission.

PHY 55403
DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES (3)
Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques. Prerequisites: MATH 12003 and PHY 23102, or equivalent or permission of instructor.

PHY 55501
ELECTROMAGNETIC WAVES AND MODERN OPTICS (3)
Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light; devices and spectroscopic techniques based on modern optics. Prerequisites: PHY 55201 or equivalent.

PHY 55612
MICROPROCESSOR-BASED DESIGN (3)
Design, construction, programming and interfacing of microcontrollers based on a 16-bit microprocessor. Prerequisites: PHY 35611 or permission. IP permissible.

PHY 56101
QUANTUM AND ATOMIC PHYSICS (4)
Bohr theory, wave mechanics, wave packets. Application to barriers, oscillators, hydrogen atoms, multielectron atoms, X-rays, molecular spectra. At level of Eisberg-Resnick’s Quantum Physics. Prerequisite: Permission.

PHY 56301
INTRODUCTION TO NUCLEAR PHYSICS (3)
Introduction to the concepts of nuclear physics including basic properties of the atomic nucleus, experimental techniques, nuclear models and reactions, nuclear fission and fusion, and elementary particles. Prerequisite: PHY 36001 and MATH 22005.

PHY 56401
INTRODUCTION TO SOLID STATE PHYSICS (3)
Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research. Prerequisite: PHY 36002 or equivalent.
PHY 60091/80091  
PHYSICS SEMINAR (1)  
Discussion of current literature or of original research in physics. Participation by students, faculty and guests. S/U grading; IP permissible.

PHY 60093/70093  
VARIABLE TITLE WORKSHOP IN PHYSICS (1-6)  
Workshops individually designed to provide instruction and training in specific areas of physics. S/U grading.

PHY 60094/70094  
COLLEGE TEACHING OF PHYSICS (1-3)  
Methodology of teaching in a university, college or junior college. Includes observation of kinds of teaching and practice teaching. S/U grading; IP permissible.

PHY 60098  
RESEARCH (1-15)  
Research or individual investigation. Credits earned may be applied toward meeting degree requirements if department approves. Repeat registration permitted. IP permissible.

PHY 60199  
THESIS I (2-6)  
Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Approval of advisor.

PHY 60295/70295  
ADVANCED TOPICS (1-3)  
Selected special topics of current research interest. IP permissible. Prerequisite: Permission.

PHY 60299  
THESIS II (2)  
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PHY 60199.

PHY 60395/70395  
ADVANCED TOPICS (1-3)  
Selected special topics of current research interest. Prerequisite: Permission.

PHY 64101/74101  
ADVANCED PROBLEM SOLVING IN PHYSICS (3)  
This course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized. Graduate letters grades and S/U grading. Prerequisite: PHY 6/75101, 6/75203, 6/76161, 6/75301 or departmental/instructor approval.

PHY 65101/75101  
CLASSICAL MECHANICS (3)  
Lagrange's equations, variational principles, two-body central force problems, rigid body motion, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, small oscillations. Prerequisite: Permission.

PHY 65203/75203  
CLASSICAL ELECTRODYNAMICS I (3)  
Introduction to electrostatics, boundary value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws. Prerequisite: Permission.

PHY 65204/75204  
CLASSICAL ELECTRODYNAMICS II (3)  
Plane electromagnetic waves, simple radiating systems, scattering, special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung. Prerequisite: PHY 6/75203.

PHY 65301/75301  
STATISTICAL MECHANICS I (4)  
An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.

PHY 66161/76161  
QUANTUM MECHANICS I (3)  

PHY 66162/76162  
QUANTUM MECHANICS II (3)  

PHY 66201/76201  
PARTICLE PHYSICS (3)  
Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of field theory, the Standard Model and selected topics of current interest. Prerequisite:PHY 6/76162.

PHY 66302/76302  
NUCLEAR PHYSICS (3)  
Theory of nuclear processes including properties of nuclear quantum states, two body forces, nuclear structure and models, nuclear reactions and nuclear radiation physics. Prerequisite: PHY 56101.
PHYSICS

PHY 66401/76401
SOLID STATE PHYSICS I (3)
Crystalline state, with emphasis on wave propagation, zone and band theory, phonons. Applications to electrical and thermal conductivities, specific heats, optical, dielectric and magnetic properties. Prerequisite: PHY 56101 or 6/76161.

PHY 66402/76402
SOLID STATE PHYSICS II (3)
Covers several topics, including conduction in metals, dielectric and ferroelectric properties, the origin of magnetism, phenomenological and BCS descriptions of superconductivity, elastic theory and semiconductor physics. Prerequisite: PHY 6/76401 and 6/76161.

PHY 68401/78401
LIQUID CRYSTAL PHYSICS (3)
The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications. Prerequisite: Graduate standing in physics or chemical physics.

PHY 75403
COMPUTER ANALYSIS AND EXPERIMENTAL MEASUREMENTS (2)
Applications of the minicomputer to the reduction and analysis of data. Error analysis; root finding; curve-fitting; smoothing of data. Prerequisite: MATH 22005 and PHY 35402 or equivalent.

PHY 75302
STATISTICAL MECHANICS II (3)
Classical and quantum statistics with emphasis on Fermi and Bose systems. Introduction to approximate methods including cluster expansions and virial coefficients. Applications to critical phenomena. Prerequisite: PHY 6/75301.

PHY 76163
QUANTUM MECHANICS III (3)
Second quantization and field theory formalism are developed for the many-particle system. Topics include the electron gas and nuclear matter. Prerequisite: PHY 6/76162.

PHY 76303
ADVANCED NUCLEAR PHYSICS (3)
Advanced concepts and theories of nuclear interactions. Topics include the nucleon-nucleon interaction, nuclear structure, reactions, nuclear matter and strong interactions of elementary particles. Prerequisite: PHY 6/76302 and 76163.

PHY 76403
ADVANCED CONDENSED MATTER PHYSICS (3)
Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems and the experimental methods that probe them. Prerequisite: PHY 6/76402.

PHY 80097
PHYSICS COLLOQUIUM (1)
Presentation by invited speakers of research and other topics on graduate level followed by discussion period. Regular attendance of all physics majors expected. Three or more meetings each semester as arranged. S/U grading; IP permissible.

PHY 80098
RESEARCH (1-15)
Research or individual investigation for doctoral students who have not yet passed their candidacy exams. Credit earned may be applied toward the degree if the department approves. IP permissible. Prerequisite: Admission to doctoral study.

PHY 80199
DISSERTATION I (15)
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy for doctoral degree and permission.

PHY 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PHY 80199.

PHY 88191
CHEMICAL PHYSICS SEMINAR (1)
Discussions of current literature or of original research in chemical physics. Participation by students, faculty and guests. S/U grading; IP permissible.
POLITICAL SCIENCE

Steven W. Hook
302 Bowman Hall
330-672-2060
shook@kent.edu

Christopher Banks, Coordinator of Graduate Studies
302 Bowman Hall
330-672-0908
cbanks6@kent.edu

The Department of Political Science offers work leading to the degrees of Master of Arts, Master of Public Administration and Doctor of Philosophy. The Master of Arts and Doctor of Philosophy programs emphasize the field of public policy. For more information, visit the departmental Web site at http://dept.kent.edu/polisci.

ADMISSION
In addition to regular application requirements of the university, admission to the Master of Arts and Doctor of Philosophy programs requires a grade point average of at least 3.0 on a 4.0 scale. Applications of students with a grade point average under 3.0 should include additional evidence of ability to do graduate work in political science. Admission to the Master of Public Administration program requires a grade point average of at least 2.75. All applicants must submit scores on the Graduate Record Examination and three letters of recommendation.

Students applying for the Doctor of Philosophy and Master of Arts programs must also furnish a writing sample demonstrating their research and writing ability.

Master of Public Administration

PROGRAM REQUIREMENTS
The Master of Public Administration (MPA) program is a graduate degree for students wishing to pursue a career in either the public or not-for-profit sectors. The MPA program offers both a public management and a public policy concentration, and is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA). The management concentration features an entire online degree option, as well as a traditional classroom-based delivery option. Features such as online audio conferencing from each student's home or office promotes class interaction. More information on these various options is available on the department Web site at http://www.kent.edu/mpa.

Both the management and policy concentrations require a minimum of 42 credit hours of coursework, including the completion of a 3 credit-hour Capstone Seminar. The Capstone Seminar involves the completion of a written, analytical project. Students who lack public or nonprofit sector experience, or who wish to change fields and gain additional practical experience, will have a field placement as part of a 3 credit-hour Internship, in addition to the Capstone Seminar. The requirements for each of the concentrations are described below:

Master of Arts

PROGRAM REQUIREMENTS
The Master of Arts program is designed for students who do not anticipate continuing their education beyond the master’s degree, or who do not plan to continue their education at Kent State.

The normal program for M.A. students is as follows:

• Year 1—Students complete four core seminars plus two proseminars. The proseminars correspond to two areas in which the students develop a concentration.

• Year 2—Students take two elective courses in the areas of concentration, and one additional course to be approved by the student’s advisor. Full-time M.A. students satisfy these requirements in three semesters, leaving a fourth semester to prepare an M.A. thesis or two papers of distinction.

Students may elect to complete a minor in a related discipline, which involves the successful completion of 9 credit hours of coursework in that discipline. Students not electing a minor in a related discipline are permitted to submit as many as 6 credits from related departments. Note that taking courses outside of political science will probably require additional coursework above the minimum hours required for an M.A. All credits from outside the department must be approved by the student’s M.A. committee.
Political Science

PROGRAM REQUIREMENTS
The Doctor of Philosophy prepares students for research and teaching careers in higher education and for research-based careers in other fields. The program’s primary focus is on public policy. In addition to coursework, the program requires that students pass a qualifying exam after their first year, pass two field exams in their two areas of concentration, complete a research skill requirement, and write and defend a dissertation. The normal program for full-time students is as follows:

- **Year 1**—Students complete four core seminars, two proseminars and pass a qualifying exam. The qualifying exam is based on the material from the core courses.

- **Years 2-3**—Students complete a proseminar, seven electives and fulfill the research-tool requirement in consultation with their Ph.D. advisory committee. After completing the necessary coursework, students must pass two field exams. Field examinations are completed before the second semester of a student’s third year. After passing the examinations, the students must defend a prospectus, create a dissertation committee and begin preparatory work on the dissertation. Students are expected to defend a prospectus by the end of their third year.

- **Years 4-5**—Students write dissertation and present a public, oral defense.

Students in the M.A. program may request admission to the Ph.D. program in their second year by petitioning the graduate studies committee and providing a transcript of their graduate coursework at Kent State University, three letters of recommendation from Kent State faculty, and a paper demonstrating their research and writing skills.

To meet the residency requirement, all Ph.D. students must spend two consecutive semesters pursuing doctoral studies.

PREPARATION FOR COLLEGE TEACHING
All Ph.D. students are encouraged to participate in the department’s teaching program. Second-year students enroll in POL 71094, College Teaching in Political Science, during the spring semester. Third-year students work closely with faculty mentors, serving as teaching assistants in the fall semester and team teaching in the spring semester. Students then become teaching fellows with full responsibility for the design and delivery of their own courses.

**American Government and Politics**

**POL 51191**
**SEMINAR: PROBLEMS IN AMERICAN GOVERNMENT** (3)
For graduate students outside of Political Science who wish to take 40000-level American government courses for graduate credit. Students must meet all of the requirements of the 40000 level plus do additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 hours in any one semester. Instructor and course content may vary from semester to semester. IP permissible.

**Courses (POL)**

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.
International Relations Comparative Politics

POL 51591
SEMINAR: PROBLEMS IN INTERNATIONAL RELATIONS/COMPARATIVE GOVERNMENT (3)
For graduate students outside of Political Science who wish to take 40000-level international/comparative government courses for graduate credit. Students must meet all of the requirements of the 40000 level plus do additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 hours in any one semester. Instructor and course content may vary from semester to semester. IP permissible.

American Politics and Policy

POL 60101/70101
PROSEMINAR IN AMERICAN POLITICS AND POLICY (3)
This course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as informal networks of private groups that seek to influence public policy at the national level.

POL 60102/70102
AMERICAN POLICY PROCESS (3)
This course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation, implementation and evaluation. Prerequisite: POL 60101 or 60301.

Public Policy

POL 51391
SEMINAR: PROBLEMS IN PUBLIC POLICY (3)
For graduate students outside of Political Science who wish to take 40000-level public policy courses for graduate credit. Students must meet all of the requirements of the 40000 level plus do additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 hours in any one semester. Instructor and course content may vary from semester to semester. IP permissible.

Core Seminars

POL 60002/70002
APPROACHES TO PUBLIC POLICY (3)
This course introduces students to the philosophy of science and scientific inquiry within the context of the social sciences and presents a broad survey of leading paradigms and debates within the field of public policy.

POL 60003/70003
POLICY METHODS I (3)
This course provides a selective introduction to basic quantitative methods for the analysis of public policy dealing with basic descriptive and inferential statistics and an introduction to qualitative techniques.

POL 60004/70004
PUBLIC POLICY METHODS II (3)
This course introduces students to multivariate quantitative techniques appropriate for the analysis of public policy and incorporates a broad array of advanced qualitative analysis.

POL 60006/70006
FOUNDATIONS OF PUBLIC POLICY (3)
This course covers the development of policy studies as a field. As a broad survey, this course introduces general concepts and debates with applications within each field of specialization.
The primary purpose of this course is to apply the conceptual tools of public policy analysis to current issues facing the U.S. government. Students are introduced to the major policy debates regarding these issues with reference to the historical, political-economic and cultural context in which they occur. Prerequisite: POL 60301.

60391/70391 SEMINAR IN POLICY ANALYSIS AND ADMINISTRATION (3)
Seminar on current and important topics in Policy Analysis and Administration. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

POL 60191/70191 SEMINAR IN AMERICAN POLITICS AND POLICY (3)
Seminar on current and important topics in American Politics and Policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**Policy Analysis and Administration**

POL 60301/70301 PROSEMINAR IN POLICY ANALYSIS AND ADMINISTRATION (3)
This course covers the systematic procedures for analysis of policy problems. Special attention is paid to economic concepts such as cost-benefit analysis and the role of multiple values in the policy process.

POL 60302/70302 BUREAUCRACY AND THE POLICY MAKING PROCESS (3)
This course provides students with a theoretical and practical understanding of the bureaucracy as a unit of analysis in policy studies. Of particular interest is the interaction of the bureaucracy with other policy-making institutions and nonstate actors. Prerequisite: POL 60301.

POL 60303/70303 REGULATORY POLICY (3)
This course examines the politics of regulatory policy from a variety of theoretical perspectives. These theories are applied to several domains of regulation, primarily those relating to public finance. Prerequisite: POL 60301.

POL 60304/70304 ANALYTIC TECHNIQUES OF POLICY-MAKING (3)
This course covers the concepts, techniques and conventions for assessing economic efficiency when this is one of the social and political goals relevant to public policy-makers. Students are introduced to theories of cost-benefit analysis as they pertain to public policy. Prerequisite: POL 60301.

POL 60305/70305 STATE AND LOCAL GOVERNMENT FINANCIAL ANALYSIS (3)
This course provides an overview of the state and local sectors of government. Primary attention is paid to the financial role of the sub-national governments with regard to taxing and spending policies. Prerequisite: POL 60301.

POL 60306/70306 LEADERSHIP AND PUBLIC POLICY (3)
This course exposes students to the role of leadership issues in shaping contemporary public policy. Students are introduced to contending theories of policy leadership in specific domains such as health care, the environment and neighborhood governance. Prerequisite: POL 60301.

**Transnational and Comparative Politics and Policy**

POL 60501/70501 PROSEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY (3)
This course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.

POL 60502/70502 GLOBAL GOVERNANCE (3)
This course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations. Prerequisite: POL 60501.

POL 60503/70503 FOREIGN POLICY ANALYSIS (3)
This course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains. Prerequisite: POL 60501.

POL 60504/70504 U.S. FOREIGN POLICY (3)
This course examines the dilemmas facing the U.S. government as it confronts a rapidly changing international system. Historical patterns are considered along with current issues regarding the formulation and conduct of U.S. foreign policy. Prerequisite: POL 60501 or 60101.

POL 60505/70505 COMPARATIVE PUBLIC POLICY AND ADMINISTRATION (3)
This course examines theoretical and substantive issues in comparative public policy and public administration. The various frameworks, approaches and schools of thought are reviewed in each area of study. Prerequisite: POL 60501 or 60301.
POL 60506/70506
INTERNATIONAL POLITICAL ECONOMY AND DEVELOPMENT POLICY (3)
This course is designed to provide a variety of perspectives with which to make sense of the structure of the international economy and the policy options available to governments seeking to encourage domestic economic development. Prerequisite: POL 60501.

POL 60507/70507
CONFLICT TRANSFORMATION AND RECONCILIATION (3)
Cross-cultural analysis of transition from mass violence to justice and from protracted conflict to democracy. Subjects of study include truth and reconciliation commissions, criminal tribunals, apologies, reparations and other aids to conflict transformation. Prerequisite: POL 60501 or 60701.

POL 60591/75091
SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY (3)
Seminar on current and important topics in Transnational and Comparative Politics and Policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

POL 60701/70701
PROSEMINAR IN ISSUES IN CONTEMPORARY JUSTICE (3)
A policy analysis of current issues in the legislative, policing, judicial and correctional components of the justice system.

POL 60703/70703
COMMUNITY AND DOMESTIC VIOLENCE (3)
This course explores the causes and implications of violence in our homes and communities. Conflict management strategies and techniques are reviewed to see how they have served as policy solutions, as agents of change or in maintaining the status quo. Prerequisite: POL 60701.

POL 60704/70704
THEORIES OF CRIME AND DELINQUENCY (3)
Examination of major theoretical concepts in criminology that have been utilized to explain criminal behavior and juvenile delinquency. Includes discussion of social/policy implications.

POL 70702
JUSTICE INSTITUTIONS (3)
Cross-listed with JUS 66770.
This course introduces students to various institutions related to the U.S. criminal justice system. Students examine techniques for conducting institutional analysis and apply these techniques to law enforcement, judicial and correctional institutions.

POL 70705
COMPARATIVE JUSTICE INSTITUTIONS AND POLICY (3)
Cross-listed with JUS 66774.
Cross-cultural analysis of crime and the justice institutions/justice policies of various countries. The developmental backgrounds, structure and functioning of the systems are compared. Important issues in international justice are considered.

POL 70706
VICTIMOLOGY (3)
Cross-listed with JUS 66772.
Patterns of victim-offender relationship. Role of victims in the justice studies process. Problems of adjustment to victimization and compensating the victim.

POL 70707
LAW, JUSTICE AND SOCIETY (3)
Cross-listed with JUS 66761.
Course reviews the origins, structure and functioning of law in relation to social context and process. Topics to be covered include theories of law and society, law as a form of social control and the use of law and legal institutions to address societal problems.

POL 60791/70791
SEMINAR IN JUSTICE POLITICS AND POLICY (3)
Seminar on current and important topics in Justice Politics and Policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

Electives

POL 69091/79091
SEMINAR: PUBLIC POLICY METHODS (3)
This course focuses on select topics in public policy methods, particularly qualitative methods, Q-methodology or advanced applied policy analysis. More than one seminar may be offered. Repeat registration permitted.

Public Administration (PADM)

PADM 60038/POL 70038
MANAGERIAL ACCOUNTING FOR PUBLIC ADMINISTRATION (3)
Managerial uses of accounting information for planning and control. Emphasis on decision-making in public sector and role of information in making rational choices.

PADM 60198/POL 70198
RESEARCH (2-15)
Research or individual investigation for master’s-level graduate students. Credits earned may be applied toward meeting requirements if department approves. Prerequisite: Permission.
**Political Science**

### PADM 60199
**THESIS I (2-6)**
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Permission of advisor.

### PADM 60299
**THESIS II (2)**
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PADM 60199.

### PADM 60370/POL 70370
**PUBLIC MANAGEMENT CONCEPTS AND PRACTICES (3)**
Introductory course for all M.P.A. students. Focus is on “macro-level” understanding of government agencies: institutional context, agency-environment linkages, internal dynamics, role in public policy.

### PADM 60372/POL 70372
**ADMINISTRATIVE THEORY AND BEHAVIOR (3)**
Behavioral, bureaucratic, neoclassical and contemporary theories of organization and management are reviewed in an examination of the environment of public agency managers. Prerequisite: PADM 60370 or POL 70370.

### PADM 60373/POL 70373
**PUBLIC BUDGETING (3)**
Study of politics, theories, practices and techniques of public budgeting and financing. Budgeting includes process of preparation, adoption and execution of operating, and capital budgets.

### PADM 60374/POL 70374
**PUBLIC FINANCIAL MANAGEMENT (3)**
Advanced study of the functions of the local government financial management agency and how these functions enhance the productivity and decision-making capacity of the organization.

### PADM 60375/POL 70375
**PUBLIC PERSONNEL ADMINISTRATION (3)**
Study of public personnel systems, including underlying system values and current problems, with emphasis on skill development and understanding of techniques for public personnel managers.

### PADM 60376/POL 70376
**LABOR MANAGEMENT RELATIONS IN THE PUBLIC SECTOR (3)**
This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes. Prerequisite: PADM 60375.

### PADM 60378/POL 70378
**MUNICIPAL MANAGEMENT AND ADMINISTRATION (3)**
Detailed analysis of metropolitan complex. Emphasis given to administrative, political, fiscal and legal problems in governing cities.

### PADM 60379/POL 70379
**PROGRAM EVALUATION I (3)**
Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and, specifically, the techniques utilized under different evaluation formats.

### PADM 60381/POL 70381
**METHODS IN PUBLIC ADMINISTRATION (3)**
This course is a graduate-level introduction to statistical methods and their use in public administration.

### PADM 60382/POL 70382
**SEMINAR IN PUBLIC ADMINISTRATION (3)**
Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution, and literature bearing on the problems. Prerequisite: Advanced graduate status.

### PADM 60384/POL 70384
**PUBLIC AGENCY MANAGEMENT (3)**
This course is designed to acquaint advanced master’s and doctoral candidates majoring in public administration with the operation and management of bureaucratic organizations.

### PADM 60385/POL 70385
**ADVANCED STUDIES SEMINAR IN PUBLIC ADMINISTRATION(3)**
This seminar is designed at each offering to meet the individualized needs of advanced doctoral candidates majoring in public administration. Prerequisite: Advanced standing in a doctoral program and permission.

### PADM 60392/POL 70392
**INTERNSHIP — PUBLIC ADMINISTRATION (2-6)**
Provides an opportunity for students to gain practical experience and be exposed to processes of public decision-making and policy development. Prerequisite: Permission.

### PADM 60470/POL 70470
**CRITICAL ISSUES IN PUBLIC ADMINISTRATION (3)**
Course deals with basic questions of value and ethics associated with public service roles in a democratic society and with major contemporary issues in the field. Prerequisite: PADM 6/70370 and 6/70372 or equivalent.

### PADM 60471/POL 70471
**NONPROFIT LAW (3)**
Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax-exempt status; basic requirements for establishing/operating nonprofit organizations specifically in Ohio.
PADM 60472/POL 70472  
**NONPROFIT BOARD-EXECUTIVE RELATIONS (3)**
Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities, and governance structures.

PADM 60473/POL 70473  
**GOVERNMENTAL FINANCIAL ANALYSIS (3)**
A laboratory in techniques of governmental financial analysis. Course focuses on how to analyze current financial position to develop financial plans for upcoming years.

PADM 60474/POL 70474  
**HEALTH CARE REIMBURSEMENT (3)**
This is an introductory course to familiarize students with private and public sector reimbursement operations and regulations in the United States health care industry.

PADM 60477/POL 70477  
**NONPROFIT FINANCE RESOURCE DEVELOPMENT (3)**
Successful strategies for fundraising and resource development for nonprofit organizations. Students will be exposed to fundraising in practice and will write a resource development plan.

PADM 60492/POL 70492  
**CAPSTONE SEMINAR (3)**
Capstone course required for all MPA students. Students will complete an approved, written project that is analytical and research-based. Prerequisite: Special permission. PADM 60574/ POL 70574

**STRATEGIC PLANNING (3)**
Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.

**Research, Thesis, Dissertation**

POL 61098  
**RESEARCH (1-15)**
Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements if department approves and a letter grade is given. Repeat registration permitted. IP permissible.

POL 61199  
**THESIS I (2-6)**
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

POL 61299  
**THESIS II (2)**
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: POL 61199.

POL 81098  
**RESEARCH (1-15)**
Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if department approves and if letter grade given. Repeat registration permitted.

POL 81199  
**DISSERTATION I (15)**
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. IP permissible. Prerequisite: Admission to candidacy for doctoral degree. S/U grading; IP permissible.

POL 81299  
**DISSERTATION II (1 OR 15)**
Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: POL 81199.

**General**

POL 61094/71094  
**COLLEGE TEACHING IN POLITICAL SCIENCE (1)**
Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum of 4 hours applicable toward Ph.D. requirements (with Graduate Studies Committee approval).
Psychology

PSYCHOLOGY

Douglas Delahanty, Interim Chair
118 Kent Hall
330-672-2395
ddelahan@kent.edu

TBD, Coordinator of Graduate Studies
Kent Hall

The Department of Psychology offers programs leading to the Master of Arts and Doctor of Philosophy degrees. The Master of Arts is an intermediate degree required of students in the doctoral program. Doctoral training is provided within the general experimental and clinical areas of psychology. Specialization is available through course selection, doctoral dissertation topic and faculty supervision. Most students in the general experimental program specialize in biological, child, cognitive, health or social psychology. Students in the clinical program may specialize in assessment child/family, health or psychopathology. The clinical training program is fully accredited by the American Psychological Association’s Committee on Accreditation (CoA). The committee can be contacted at apaaccred@apa.org.

For more information, visit the departmental Web site at http://dept.kent.edu/psychology.

PROGRAM REQUIREMENTS

Requirements for the M.A. degree are at least 32 semester hours, which include a basic core of required courses and a thesis. Additional courses are selected with the aid of an advisor. A limited number of courses outside the department may be credited toward the degree. No 50000-level psychology courses may be applied toward degree requirements for psychology majors.

Students must complete at least 18 semester hours of course credits within an academic year.

Concentration in Gerontology

Although the Department of Psychology does not offer a terminal master’s degree, a student may develop a specialty in gerontological studies through the interdisciplinary program in gerontology as part of her or his course of study leading to the Master of Arts degree in psychology in preparation for doctoral work. In addition to departmental requirements for the degree in psychology, a student may complete the core courses in gerontological studies as elective hours.

Core Requirements Hours

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<tr>
<th>Course</th>
<th>Hours</th>
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<tr>
<td>GCOL 60120</td>
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<tr>
<td>BSCI 50020</td>
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<td>ELS 60610</td>
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<tr>
<td>PSYC 60610</td>
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<tr>
<td>SOC 62877</td>
<td>3</td>
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</tbody>
</table>

Students must complete two quantitative methods courses appropriate to their areas of specialization within psychology. Students must also complete five departmental core courses selected from four areas (biological bases of behavior, cognitive and affective bases of behavior, social bases of behavior, individual behavior). Specific courses vary according to students’ areas of specialization within psychology.

The master’s thesis must be empirical in nature. It will be presented and defended before a committee of graduate faculty members, at least two of whom will be members of the faculty in gerontological studies.

One member of the thesis committee must be from another department participating in the gerontological studies program. The thesis and its defense must meet the requirements of the Department of Psychology.

ADMISSION

Applications for admission to the graduate program are encouraged from promising undergraduates who aspire to the Ph.D. in psychology. Students interested in a terminal M.A. degree are not admitted. Limitations of staff and space require that admissions be restricted to the most promising applicants. In addition to regular application requirements of the university, departmental requirements include:

- A broad undergraduate preparation.
- A junior-senior scholastic average of 3.0.
- 18 semester hours in psychology that include a course in statistics and a broad background in psychology.
- Submission of satisfactory scores on the Graduate Record Examination general test.
- Favorable recommendations from former professors.
- A statement of goals and motivations for pursuing a career in psychology.
- Research experience.

Applications for admission are accepted only from holders of the baccalaureate degree who aspire to the doctorate. In exceptional cases, applicants with fewer than 18 semester hours in psychology may be admitted.

Only applications for full-time enrollment will be considered. Applicants are accepted for admission only for the fall semester, and the deadline for all application materials is January 1.
The doctoral program in psychology is strongly research-oriented. Students are encouraged to become engaged in a variety of research projects before they begin dissertation work. The program requires full-time continuous enrollment including summers. Doctoral program aspirants who do not hold the M.A. must complete all the requirements for the master’s degree.

**Courses (PSYC)**

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

**PSYC 50974**  
**HISTORY OF PSYCHOLOGY (3)**  
Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems theories and fundamental issues with which psychologists have concerned themselves in past and contemporary states of the science.

**PSYC 60110/70110**  
**INTRODUCTION TO PSYCHOPATHOLOGY: CHILD (3)**  
Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**PSYC 60171/70171**  
**FAMILY INTERACTION AND PSYCHOPATHOLOGY (3)**  
Introduction to the study of family interaction as it relates to the etiology and maintenance of psychopathology. Theory, methodology and research relevant to specific behavioral disorders will be covered. Prerequisite: PSYC 6/70170 and graduate/doctoral standing in psychology (PSYC).
PSYC 60192/70192
INTEGRATION PRACTICUM (1-3)
Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general, and from differing theoretical perspectives. IP permissible. Prerequisite: PSYC 6/70292 and 6/70792 and graduate/doctoral standing in psychology (PSYC).

PSYC 60272/70272
INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT (3)
Introduction to psychological assessment as a process for solving important clinical problems. Theoretical, methodological and research issues are emphasized. Students will also become familiar with major psychological tests. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

PSYC 60273/70273
ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT (3)
Examines psychodiagnosis within a context of “personality-as-a-coherent-whole.” Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations. Prerequisite: PSYC 6/70272 Prerequisite: Graduate/doctoral standing in psychology (PSYC).

PSYC 60274/70274
ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD (3)
Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments, and assessment of special child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation. Prerequisite: PSYC 6/70272 and 6/70292 Prerequisite: Graduate/doctoral standing in psychology (PSYC).

PSYC 60275/70275
BEHAVIORAL ASSESSMENT (3)
Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues. Prerequisite: PSYC 6/70272 and 6/70292 and graduate/doctoral standing in psychology (PSYC).

PSYC 60276/70276
NEUROPSYCHOLOGICAL ASSESSMENT (3)
Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis. Prerequisite: PSYC 6/70272 and 6/70292 and graduate/doctoral standing in psychology (PSYC).

PSYC 60292/70292
PSYCHOLOGICAL ASSESSMENT PRACTICUM (1-3)

PSYC 60313/70313
COMMUNITY PSYCHOLOGY (3)
Introduction to conceptualizations and findings in community psychology. Special emphasis on the application of community approaches in various settings. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

PSYC 60324/70324
PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY (3)
Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions, and professional organization and policy. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

PSYC 60325/70325
FORENSIC PSYCHOLOGY (3)
Consideration of the interface of psychology and the law with focus on activities in which clinical psychologists are likely to participate in relation to the legal system. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

PSYC 60326/70326
CLINICAL ASPECTS OF HEALTH PSYCHOLOGY (3)
Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention, treatment and public policy. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

PSYC 60371/70371
INTRODUCTION TO PSYCHOLOGICAL THERAPY (3)
Introduction to psychotherapy with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered. Prerequisite: PSYC 6/70170 and 6/71260 and graduate/doctoral standing in psychology (PSYC).

PSYC 60372/70372
PSYCHOTHERAPY FOR SPECIFIC DISORDERS (3)
Review of conceptual and empirical literature relating to psychotherapeutic treatment of various behavior disorders. A variety of theoretical orientations will be included. Prerequisite: PSYC 6/70371 and 6/70792 and graduate/doctoral standing in psychology (PSYC).

PSYC 60373/70373
FAMILY THERAPY (3)
Consideration of major theories, approaches and research in family therapy. Practical experience in conducting family therapy through supervision and discussion of ongoing cases. Prerequisite: PSYC 6/70371 and 6/70792 and graduate/doctoral standing in psychology (PSYC).
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>PSYC 60374/70374</td>
<td>GROUP PSYCHOTHERAPY (3)</td>
<td>Introduction to group psychotherapy with emphasis on theories, techniques and research findings. Prerequisite: PSYC 6/70371 and 6/70792 and graduate/doctoral standing in psychology (PSYC).</td>
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<tr>
<td>PSYC 60375/70375</td>
<td>COGNITIVE BEHAVIOR THERAPY (3)</td>
<td>Empirical and clinical aspects of cognitive behavioral interventions. Intended for students familiar with basic psychotherapy, assessment and psychopathology issues. Prerequisite: PSYC 6/70371 and 6/70292 and graduate/doctoral standing in psychology (PSYC).</td>
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<tr>
<td>PSYC 60376/70376</td>
<td>CHILD PSYCHOTHERAPY (3)</td>
<td>Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive-behavior therapies, and child therapy research. Emphasis on integration of theory, technique and research. Prerequisite: PSYC 6/70371 and 6/70792 and graduate/doctoral standing in psychology (PSYC).</td>
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<tr>
<td>PSYC 60395/70395</td>
<td>ADVANCED TOPICS — CLINICAL PSYCHOLOGY (1-6)*</td>
<td>Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: Permission and graduate/doctoral standing.</td>
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<tr>
<td>PSYC 60453/70453</td>
<td>INTRODUCTION TO COGNITIVE PSYCHOLOGY (3)</td>
<td>Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate and retrieve sensory input. Topics include attention, pattern recognition, memory and language. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
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<tr>
<td>PSYC 60610/70610</td>
<td>PSYCHOLOGY OF ADULTHOOD AND AGING (3)</td>
<td>Examines psychological theory and research related to the psychology of adulthood through old age. Surveys current cognitive, social, developmental and clinical work on later life. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
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<tr>
<td>PSYC 60792/70792</td>
<td>PSYCHOTHERAPY PRACTICUM (1-3)</td>
<td>Basic training in applied aspects of psychotherapy. Through didactic and experiential methods students learn basic listening and communication skills that are then applied to specific techniques, situations and issues. IP permissible. Prerequisite: PSYC 6/70292, concurrent enrollment in PSYC 6/70371 and graduate/doctoral standing in psychology (PSYC).</td>
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<tr>
<td>PSYC 60895/70895</td>
<td>ADVANCED TOPICS — EXPERIMENTAL PSYCHOLOGY (1-6)*</td>
<td>Advanced-level consideration of selected content areas in experimental psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: Special Approval and graduate/doctoral standing.</td>
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<tr>
<td>PSYC 60950/70950</td>
<td>HISTORY AND CONTEMPORARY SYSTEMS (3)</td>
<td>Relationships between historical antecedents and the major contemporary systems and theories of psychology. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
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<tr>
<td>PSYC 61054/71054</td>
<td>LEARNING AND CONDITIONING (3)</td>
<td>Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
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<tr>
<td>PSYC 61133/71133</td>
<td>SENSATION AND PERCEPTION (3)</td>
<td>Introduction to basic sensory and perceptual processes of vision and audition. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
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<tr>
<td>PSYC 61199</td>
<td>THESIS I (2-6)</td>
<td>Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Special approval.</td>
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<tr>
<td>PSYC 61260/71260</td>
<td>THEORIES OF PERSONALITY (3)</td>
<td>Consideration of major theoretical orientations including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
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<tr>
<td>PSYC 61299</td>
<td>THESIS II (2)</td>
<td>Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PSYC 61199.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>PSYC 61350/71350</td>
<td>PHYSIOLOGICAL PSYCHOLOGY (3)</td>
<td></td>
<td>Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes, motivation and behavior. Emphasis is on the broad coverage of major topics in the field. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
</tr>
<tr>
<td>PSYC 61496</td>
<td>INDIVIDUAL INVESTIGATION (3)</td>
<td></td>
<td>Intensive pursuit of a subject matter beyond normal course coverage with possibility of associated research. IP permissible. Prerequisite: Special approval</td>
</tr>
<tr>
<td>PSYC 61498</td>
<td>RESEARCH (1-15)*</td>
<td></td>
<td>Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements if department approves and if letter grade or &quot;S&quot; is given. IP permissible. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>PSYC 61548/71548</td>
<td>PSYCHOLOGY OF GENDER AND MINORITIES (3)</td>
<td></td>
<td>This course will be an in-depth study of the methodology and current research and theory on gender and minorities. The course will be concerned with gender differences and inter-and intra cultural differences and similarities. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
</tr>
<tr>
<td>PSYC 61580/71580</td>
<td>SOCIAL PSYCHOLOGY (3)</td>
<td></td>
<td>Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior. Prerequisite: Graduate standing in psychology (PSYC).</td>
</tr>
<tr>
<td>PSYC 61651/71651</td>
<td>QUANTITATIVE STATISTICAL ANALYSIS I (3)</td>
<td></td>
<td>Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two semester sequence on statistical analysis. Prerequisite: Graduate standing in psychology (PSYC) and special approval.</td>
</tr>
<tr>
<td>PSYC 61654/71654</td>
<td>QUANTITATIVE STATISTICAL ANALYSIS II (3)</td>
<td></td>
<td>Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis. Prerequisite: PSYC 61651 or 71651 and graduate standing in psychology (PSYC).</td>
</tr>
<tr>
<td>PSYC 61684/71684</td>
<td>EXPERIMENTAL DESIGN AND METHOD (3)</td>
<td></td>
<td>Critical analysis of research design in psychology. Advanced topics in univariate and multivariate data analyses. Prerequisite: PSYC 6/71651 and graduate standing in psychology (PSYC).</td>
</tr>
<tr>
<td>PSYC 61685/71685</td>
<td>CLINICAL RESEARCH METHODS (3)</td>
<td></td>
<td>Consideration of research methodologies relevant to clinical psychology with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
</tr>
<tr>
<td>PSYC 61894/71894</td>
<td>COLLEGE TEACHING OF PSYCHOLOGY (3)</td>
<td></td>
<td>Training and experience in college teaching. May be repeated to total of 6 hours. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
</tr>
<tr>
<td>PSYC 61993/71993</td>
<td>VARIABLE TITLE WORKSHOP IN PSYCHOLOGY (1-6)</td>
<td></td>
<td>Training and experience in college teaching. May be repeated to total of 6 hours. Prerequisite: Graduate/doctoral standing in psychology (PSYC).</td>
</tr>
<tr>
<td>PSYC 62392/72392</td>
<td>CLINICAL PRACTICUM (1-3)*</td>
<td></td>
<td>Beginning practicum in Psychological Clinic involving selection, administration and evaluation of tests of ability and personality. IP permissible. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>PSYC 62492/72492</td>
<td>ADVANCED PRACTICUM (1-3)</td>
<td></td>
<td>Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model. IP permissible. Prerequisite: PSYC 6/70192, 6/70292 and 6/70792 and graduate/doctoral standing in psychology (PSYC).</td>
</tr>
<tr>
<td>PSYC 70392</td>
<td>SUPERVISED CLINICAL EXPERIENCE (1-3)*</td>
<td></td>
<td>Post-practicum, psychological service provision and/or research activities in institution or agency under supervision of licensed psychologist and by arrangement of Department of Psychology. S/U grading; IP permissible. Prerequisite: PSYC 6/72392 and special approval.</td>
</tr>
<tr>
<td>PSYC 70413</td>
<td>COGNITIVE NEUROPSYCHOLOGY (3)</td>
<td></td>
<td>The effect of brain injury and anomalous neurological development on cognitive skills such as language, perception and memory are explored. Prerequisite: Doctoral standing in psychology (PSYC).</td>
</tr>
<tr>
<td>PSYC 70436</td>
<td>PSYCHOLINGUISTICS (3)</td>
<td></td>
<td>Study of relation between language and its speaker/listeners. Special emphasis placed on sentence and prose comprehension and language acquisition. Prerequisite: Doctoral standing in psychology (PSYC).</td>
</tr>
</tbody>
</table>
PSYC 70468
MEMORY AND COGNITION (3)
Critical review of contemporary research and theory in memory and cognition. Prerequisite: PSYC 6/70453 and doctoral standing in psychology (PSYC).

PSYC 70485
READING PROCESSES (3)
Analysis of basic psychological processes involved in reading with emphasis on models of the skilled reader and of learning to read. Current research is surveyed. Prerequisite: Doctoral standing in psychology (PSYC).

PSYC 70604
COGNITIVE DEVELOPMENT (3)
Examination of theories and research concerning changes in memory, perception, thought and language over the life span. Prerequisite: Doctoral standing in psychology (PSYC).

PSYC 70615
SOCIAL DEVELOPMENT (3)
Examination of theories and research in social development, with a focus on how personal relationships influence personality development. Prerequisite: Doctoral standing in psychology (PSYC).

PSYC 71004
ANIMAL MEMORY PROCESSES (3)
Examination of basic phenomena and principles of memory, as exemplified by research with animals and humans. Consideration of behavioral and biological processes in memory functioning. Prerequisite: Doctoral standing in psychology (PSYC).

PSYC 71013
DRUGS AND BEHAVIOR (3)
General principles of drug action with special attention to drugs used in the treatment of psychopathologies. Focus will be on neural mechanisms of action, addiction and tolerance, and drug interactions with learning and cognitive processes. Prerequisite: PSYC 6/71350.

PSYC 71046
CONNECTIONISM AND NEURAL NETWORKS (3)
General principles of connectionist modeling of memory, cognition and other psychological processes. Focus will be on the logic of connectionist models, plausibility of models and strategies for implementation of models. Prerequisite: PSYC 6/71350, 6/70453 or 6/71054, 6/71651 and special approval.

PSYC 71307
PSYCHOBIOLOGICAL ASPECTS OF HEALTH PSYCHOLOGY (3)
An introduction to non-neural aspects of psychobiology, with emphasis on psychoendocrinology, psychoimmunology and the psychobiologic aspects of disease. Prerequisite: Doctoral standing in psychology (PSYC).

PSYC 71498
SELECTED LITERATURE REVIEW (3)
Comprehensive literature survey and review prepared by graduate student in area of interest. May be repeated to total of 6 hours. Prerequisite: Doctoral standing in psychology (PSYC).

PSYC 71506
SOCIAL COGNITION (3)
Explores both historical and current developments in cognitive social psychology including theory and research, social attention and memory, judgment and decision-making, cognitive views of the self, and current debates regarding the relationship. Prerequisite: Doctoral standing in psychology (PSYC).

PSYC 71507
PSYCHOSOCIAL ASPECTS OF HEALTH PSYCHOLOGY (3)
Examines concepts of disease and their implications for health. Emphasizes psychosocial stress in disease, etiology and psychological factors influencing illness recovery. Prerequisite: Doctoral standing in psychology (PSYC).

PSYC 71513
PSYCHOLOGY OF ALCOHOL ABUSE (3)
Critical review of theories and empirical research on the use and abuse of alcohol. Prerequisite: Doctoral standing in psychology (PSYC).

PSYC 71656
FACTOR ANALYSIS (3)
Survey of major types of factor analytic methods employed in psychology. Prerequisite: PSYC 6/71654 and doctoral standing in psychology (PSYC).

PSYC 71657
FIELD RESEARCH METHODS AND PROGRAM EVALUATION (3)
Focus is on research designs used in field research and on threats to valid causal inference. Measurement and analytical issues are also examined. Prerequisite: Doctoral standing in psychology (PSYC).
Psychology

PSYC 71688
COMPUTER APPLICATIONS IN PSYCHOLOGY (3)
Programming applications in psychology. Prerequisite: PSYC 6/71651 and 6/71654 and doctoral standing in psychology (PSYC).

PSYC 80391
SEMINAR IN CLINICAL PSYCHOLOGY (3)*
Seminar devoted to detailed study of various topics in field of clinical psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: Special approval.

PSYC 80491
SEMINAR IN COGNITIVE PSYCHOLOGY (3)*
Seminar on current research in cognitive psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: Special approval.

PSYC 80691
SEMINAR IN CHILD AND DEVELOPMENTAL PSYCHOLOGY (3)*
Seminar on current research in child and developmental psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: Special approval.

PSYC 81091
SEMINAR IN LEARNING AND BIOPSYCHOLOGY (3)*
Seminar on current research in learning and biopsychology. Specific topics will be announced in the Schedule of Classes. Prerequisite: Special approval.

PSYC 81199
DISSERTATION I (15)
Doctoral dissertation, for which registration in at least two semesters is required, the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Special approval.

PSYC 81299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PSYC 81199.

PSYC 81498
RESEARCH (1-15)*
Research or individual investigation for doctoral students. Credits may be applied toward degree if department approves and letter grade or “S” is given. IP permissible. Prerequisite: Special approval.

PSYC 81591
SEMINAR IN PERSONALITY AND SOCIAL PSYCHOLOGY (3)*
Seminar on current research in areas of social psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: Doctoral standing in psychology (PSYC).

PSYC 81691
SEMINAR IN QUANTITATIVE METHODS (3)*
Seminar on applications of quantitative methods within various content areas of psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: Special approval.

*Repeat registration permitted.
The Department of Sociology offers graduate programs leading to the Master of Arts and Doctor of Philosophy degrees. The Master of Arts degree program in sociology provides a foundation for a variety of career lines or for further graduate study. The general objective of the Ph.D. program at Kent State University is to develop sociologists with specialized backgrounds in sociology that permit a variety of teaching and research opportunities. Specialty areas include:

- Sociology of health and health care (mental health)
- Social inequality (race, class, gender)
- Social psychology

The elective courses allow for specialization in several areas. Among these are sociology of health and health care (mental health), social inequality (race, class, gender), and social psychology. The project may be an empirical research study, theoretical project or student-contracted field internship in an agency.

Two 50000-level courses may be applied toward the M.A. degree. No more than 12 hours may be taken in any outside department for credit toward the M.A. degree.

**Concentration in Gerontology**

The Master of Arts program in sociology with a concentration in gerontology provides a foundation for a variety of career lines for further graduate study. In the case of this particular program the student uses elective hours to specialize in the substantive area of gerontology, which is interdisciplinary in nature. Requirements for this degree include 25 hours of required courses, 6 hours of thesis and 3 hours of elective courses.

**Requirements for the M.A. Degree in Sociology**

- **Core Requirements**
  - Research Methodology
  - Sociology

- **Research Methodology**
  - Core Course: GCOL 60210

- **Elective Courses**
  - Among these are sociology of health and health care (mental health), social inequality (race, class, gender), and social psychology.

A master’s thesis encompassing original research will be presented and defended before a committee of graduate faculty members, at least two of whom will be members of the faculty in gerontological studies. There is no non thesis option. The thesis and its defense must also meet the requirements of the department.

**Doctor of Philosophy**

**AKRON/KENT JOINT PROGRAM IN SOCIOLOGY**

The Departments of Sociology of Kent State University and The University of Akron offer a joint program leading to the Ph.D. degree. Faculty and students engaged in the joint Ph.D. program are for all intents and purposes regarded as one single graduate department. Faculty and students from the joint program interact freely as courses are offered at both campuses.
ADMISSION
In addition to regular application procedures of the university, admission to the Doctor of Philosophy program requires the following:

- Applying with a completed master’s degree or equivalent, or
- Applying to the Ph.D. program after at least one year of full-time coursework or equivalent (18 hours) in a sociology M.A. program. The coursework must include the M.A. core sequence. This type of admission is limited to students whose records clearly indicate both scholarly and research potential to do doctoral-level work. If the M.A. is not complete upon admission, students must complete it before the start of the second semester after they begin the Ph.D. program.

- Submission of scores on the Graduate Record Examination
- Submission of three letters of recommendation from current/former professors who can adequately evaluate the applicant’s graduate work and potential. (Recommendation forms available on Web site.)
- Submission of a one- or two-page statement of career interests and goals.

PROGRAM REQUIREMENTS
In addition to meeting the general requirements of the university, students working toward the Doctor of Philosophy degree program in sociology must meet these requirements:

- One doctoral-level course in theory: SOC 72105.
- One doctoral-level course in methods/statistics: SOC 72218.
- Complete courses in the student’s specialty areas.
- Take the following doctoral-level courses: SOC 72002 and 72894.
- Complete a minimum total of 34 semester hours of coursework.
- Pass the doctoral comprehensive examination. This examination will include an evaluation of theory, methodology, analysis, and other topics relevant to the student’s specialty areas.
- Register for 30 credit hours of Dissertation I (SOC 82199).
- Complete a dissertation and successfully defend it in an oral examination.

SOC 52010
DEATH AND DYING (3)
Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death environments, ethics and suicide. Prerequisite: Graduate standing in Sociology or permission.

SOC 52126
SOCIOLOGICAL THEORIES (3)
An examination of classical, modern and post modern approaches to social theory. Prerequisite: Graduate standing in Sociology or permission.

SOC 52315
SOCIOLOGY OF CHANGING GENDER ROLES (3)
An examination of the institutions, institutional linkages and social processes that contribute to change and stability of traditional gender roles and the consequences of changes. Prerequisite: Graduate standing in Sociology or permission.

SOC 52359
SOCIAL MOVEMENTS (3)
Examination of various types and natures of social movements. Will treat with origins, developmental characteristics, and purposes of classic and contemporary movements. Prerequisite: Graduate standing in Sociology or permission.

SOC 52421
CHILDHOOD IN SOCIETY (3)
Societal definitions of childhood, socialization of children: child-centered, child-oriented and child-dominated systems, relationships with other siblings and social categories. Prerequisite: Graduate standing in Sociology or permission.

SOC 52478
ADOLESCENCE IN SOCIETY (3)
Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence, the significance of youth movements with an emphasis on music as a dominant expression of youth culture. Prerequisite: Graduate standing in Sociology or permission.

SOC 52558
WEALTH, POVERTY AND POWER (3)
Sociological examination of economic stratification in the United States; focuses on the translation of class into power via politics, education and collective struggle. Prerequisite: Graduate standing in Sociology or permission.

SOC 52561
SOCIOLOGY OF RELIGION (3)
Social context of religions and their ideologies and structures with special reference to religion in America. Prerequisite: Graduate standing in Sociology or permission.

Courses (SOC)
The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.
SOC 52563
SOCIOMETRY OF HEALTH AND HEALTH CARE (3)
Sociological analysis of health and illness behavior, utilization of health care, professions, and the organizational, community and societal systems that deal with health and illness. Prerequisite: Graduate standing in Sociology or permission.

SOC 52564
BUREAUCRATIC ORGANIZATIONS (3)
Analysis of structure and functioning of complex organizations in their cultural context. Prerequisite: Graduate standing in Sociology or permission.

SOC 52568
RACE AND ETHNIC STUDIES (3)
Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups. Prerequisite: Graduate standing in Sociology or permission.

SOC 52577
SOCIOLOGY OF FAMILY VIOLENCE (3)
Sociological analysis of theories, research and social policy concerning family violence: child abuse and neglect, spouse abuse, elderly abuse, marital rape, sexual abuse of children. Prerequisite: Graduate standing in Sociology or permission.

SOC 52870
INTERDISCIPLINARY SEMINAR IN SOCIAL GERONTOLOGY (3)
Examines the particular role of the practitioner unique to gerontology using case study, cross-cultural comparisons and research analysis. Prerequisite: Graduate standing in Sociology or permission.

SOC 52879
AGING IN SOCIETY (3)
Analysis of demographic, sociological and sociopsychological dimensions of aging. Prerequisite: Graduate standing in Sociology or permission.

SOC 62002/72002
PRO-SEMINAR IN SOCIOLOGY (1)
Designed to introduce the entering graduate student to the major areas of study and research in sociology and other important facets of the professional dimension of sociology. Prerequisite: Graduate standing in Sociology or permission.

SOC 62093/72093
VARIABLE TITLE WORKSHOP IN SOCIOLOGY (1-6)
Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups. S/U grading. Prerequisite: Graduate standing in Sociology or permission.

SOC 62100/72100
EARLY SOCIOLOGICAL THOUGHT (3)
An examination of the contributions by Pre-1930 social thinkers to contemporary sociological theory. Prerequisite: SOC 4/52126 and graduate standing in Sociology, or permission. Akron 3850:722.

SOC 62105/72105
CONTEMPORARY SOCIOLOGICAL THOUGHT (3)
Covers major contemporary theories. Emphasis on functionalism, conflict, exchange, interactionism, and systems theory. Neofuctionalism, Neo-Marxism, structuration theory and other recent trends are treated. Prerequisite: SOC 6/72100 and graduate standing in Sociology, or permission. Akron 3850:723.

SOC 62199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Graduate standing in Sociology or permission.

SOC 62211/72211
RESEARCH DESIGN AND METHODS (3)
Study of methods for quantitative and qualitative research: role of theory, research designs, sampling, measurement and instrumentation, data collection, data analysis and interpretation, ethical issues. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:603, 604.

SOC 62216/72216
ADVANCED TECHNIQUES IN RESEARCH (1-3)
Seminar on innovations in research methods. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:708.

SOC 62217/72217
MULTIVARIATE TECHNIQUES IN SOCIOLOGY (3)
Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non experimental causal analysis and path analysis. Prerequisite: SOC 32220 or equivalent and graduate standing in Sociology or permission. Akron 3850:706.

SOC 62218/72218
ADVANCED DATA ANALYSIS (3)
Critical examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multivariate inferential statistics. Prerequisite: SOC 6/72217 and graduate standing in Sociology or permission. Akron 3850:709.
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<tr>
<th>Course Code</th>
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<th>Description</th>
<th>Prerequisites/Requirements</th>
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<tbody>
<tr>
<td>SOC 62219/72219</td>
<td>QUALITATIVE METHODOLOGY (3)</td>
<td>Study of qualitative methods including interviewing, observation, use of personal documents, archival data, and special problems of recording and analyzing qualitative data. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:714.</td>
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</tr>
<tr>
<td>SOC 62220/72220</td>
<td>SURVEY RESEARCH METHODS (3)</td>
<td>An in-depth study of the design and administration of social surveys. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:711.</td>
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</tr>
<tr>
<td>SOC 62299</td>
<td>THESIS II (2)</td>
<td>Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SOC 62199, graduate standing in Sociology or permission.</td>
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</tr>
<tr>
<td>SOC 62323/72323</td>
<td>SOCIOLOGY OF HEALTH CARE (3)</td>
<td>A general study of the field of medical sociology with special emphasis on analysis of health and health in the contemporary urban United States. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:656.</td>
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<tr>
<td>SOC 62324/72324</td>
<td>SOCIAL EPIDEMIOLOGY (3)</td>
<td>An introduction to the methods, theories, and topics of social epidemiology, examining how macro and micro social environmental variables have an impact on disease and its distribution in society. Prerequisite: SOC 62211 and SOC 62217 and special approval. Akron 3850:615</td>
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<tr>
<td>SOC 62326/72326</td>
<td>SOCIOLOGY OF MENTAL HEALTH AND MENTAL DISORDERS (3)</td>
<td>Sociological examination of the social processes that affect mental health, that frame cultural ideas of normality and illness, and that define clinical pathology. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:728.</td>
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<tr>
<td>SOC 62328/72328</td>
<td>STRATIFICATION AND HEALTH (3)</td>
<td>Race, social class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Prerequisite: Graduate standing or permission. Akron 3850:726.</td>
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</tr>
<tr>
<td>SOC 62430/72430</td>
<td>SOCIAL PSYCHOLOGY (3)</td>
<td>Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:631.</td>
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</tr>
<tr>
<td>SOC 62433/72433</td>
<td>PERSONALITY AND SOCIAL SYSTEMS (3)</td>
<td>Examination of contemporary theory and research on linkages between personality and society. Emphasis will be on the dynamics of those linkages and their effects on both individuals and social structures. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:634.</td>
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<tr>
<td>SOC 62434/72434</td>
<td>SOCIOLOGY OF COMMUNICATION (3)</td>
<td>This course provides a general survey of the micro aspects of social communication. The concentration is on the sociolinguistic orientation to analysis of human communication. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:635.</td>
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<tr>
<td>SOC 62435/72435</td>
<td>SOCIOLOGY OF SENTIMENTS AND EMOTIONS (3)</td>
<td>A sociological perspective is employed to analyze and understand the production, distribution and utilization of socially created sentiments and emotions. Prerequisite: Graduate standing in Sociology or permission.</td>
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<tr>
<td>SOC 62542/72542</td>
<td>SOCIOLOGY OF WORK (3)</td>
<td>Examination of work as behavioral phenomenon in human societies; contrasts with non-work and leisure; significance of occupations, professions and work types in organization of work. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:649.</td>
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<tr>
<td>SOC 62543/72543</td>
<td>FAMILY ANALYSIS (3)</td>
<td>Analysis of actual and theoretical patterns of family systems; current research in family in relation to theories of family and theories of social systems. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:677.</td>
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</tr>
<tr>
<td>SOC 62546/72546</td>
<td>SOCIAL INEQUALITIES (3)</td>
<td>An overview of social inequalities – definitions, causes, identities, structures, and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Graduate standing in Sociology or permission. Akron 3850:646.</td>
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<tr>
<td>SOC 62566/72566</td>
<td>SOCIOLOGY OF GENDER (3)</td>
<td>Examination of theories and research on gender origins, characteristics, and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:639.</td>
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<tr>
<td>SOC 62760/72760</td>
<td>DEVIANCE (3)</td>
<td>Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self-labeling, case studies, social consequences and problems. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:663.</td>
<td></td>
</tr>
<tr>
<td>SOC 62870/72870</td>
<td>SOCIOLOGY OF RACE AND ETHNICITY (3)</td>
<td>An in-depth study of the theories, models, research approaches, and substantive areas that constitute the sociology of race and ethnicity. Graduate standing in Sociology or permission. Akron 3850:651.</td>
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</tr>
<tr>
<td>SOC 62877/72877</td>
<td>SOCIAL GERONTOLOGY (3)</td>
<td>Impact of aging upon individuals and society. Reactions of individuals and society to aging. Prerequisite: Graduate standing in Sociology or permission. Akron 3850:678.</td>
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</tr>
<tr>
<td>SOC 62885/72885</td>
<td>INTERNSHIP IN APPLIED SOCIOLOGY (3-8)</td>
<td>Student-negotiated project in specific human-service setting for practitioner; program designing; research; in-service training; writing a grant proposal. IP permissible. Prerequisite: Graduate standing in Sociology or permission.</td>
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<tr>
<td>SOC 62894/72894</td>
<td>COLLEGE TEACHING OF SOCIOLOGY (3)</td>
<td>Preparation for college teaching. Maximum of 3 hours applicable toward master's degree requirements (with departmental approval). Hours do not count toward the doctoral degree. Akron 3850:700. Prerequisite: Graduate standing in Sociology or permission.</td>
<td></td>
</tr>
<tr>
<td>SOC 62895/72895</td>
<td>SPECIAL TOPICS (3)</td>
<td>Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled. Prerequisite: Graduate standing in Sociology or permission.</td>
<td></td>
</tr>
<tr>
<td>SOC 62896/72896</td>
<td>INDIVIDUAL INVESTIGATION (1-3)</td>
<td>Readings and/or research supervised by graduate faculty. Prerequisite: Special approval Akron 3850:797,798.</td>
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<tr>
<td>SOC 62898/72898</td>
<td>RESEARCH (1-15)</td>
<td>Research or individual investigation. Credits may be applied toward meeting degree requirements if department approves. Repeat registration permitted. Prerequisite: Graduate standing in Sociology or permission.</td>
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<tr>
<td>SOC 82199</td>
<td>DISSERTATION I (15)</td>
<td>Doctoral dissertation, for which registration in at least two semesters is required. First of which will be semester in which dissertation is begun, and continuing until 30 hours are completed. S/U grading; IP permissible. Prerequisite: Admission to candidacy for doctoral degree, and permission. Akron 3850:899.</td>
<td></td>
</tr>
<tr>
<td>SOC 82299</td>
<td>DISSERTATION II (1 OR 15)</td>
<td>Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: Special approval and doctoral standing.</td>
<td></td>
</tr>
</tbody>
</table>
College of Business Administration and Graduate School of Management

Robert B. Heisler, Dean
306 Business Administration Building
330-672-2772
yheisler@kent.edu

Frederick W. Schroath, Associate Dean
306 Business Administration Building
330-672-2772
fschroat@kent.edu

Richard H. Kolbe, Associate Dean
306 Business Administration Building
330-672-2772
rkolbe@kent.edu

The programs in the Graduate School of Management at Kent State University prepare students for management and staff positions in regional, national and international organizations. Curricular and cocurricular emphases are on ethical leadership, teamwork, creative problem-solving, global perspectives and skillful applications of information technology.

The following programs are offered in the Graduate School of Management:

Master’s degree programs
- Master of Business Administration (M.B.A.)
- Executive M.B.A.
- Master of Science in Financial Engineering
- Master of Science in Accounting
- Master of Arts in Economics

Doctoral degree program
- Doctor of Philosophy (Ph.D.) in Business Administration

Dual-degree programs are available in the following areas:
- Master of Business Administration/Master of Science in Nursing
- Master of Business Administration/Master of Library and Information Science
- Master of Business Administration/Master of Architecture
- Master of Business Administration/Master of Arts in Translation

All graduate programs of the school are accredited by AACSB International—The Association to Advance Collegiate Schools of Business. With the exception of the Ph.D. and M.S.F.E. programs, most of the degree programs may be completed on a part-time or full-time basis.

All doctoral and master’s students in management should obtain a current copy of the relevant Graduate Student Handbook. This guide contains the most up-to-date information concerning degree requirements and is available in the Graduate Office, Room A310, Business Administration Building.

For information on graduate non-degree status consult the Graduate School of Management, Room 310A, Business Administration Building, 330-672-2282, or visit http://business.kent.edu/grad.

Master of Business Administration

The Master of Business Administration seeks to prepare students for responsible leadership positions in public, private and nonprofit organizations. Regardless of undergraduate education, the candidates will find a challenging program designed to meet their specific backgrounds and needs. The Graduate School of Management offers three M.B.A. options:
- Full-time day program
- Professional (part-time) evening program (PMBA)
- Executive program (EMBA)

Students that hold undergraduate business degrees are eligible for the accelerated M.B.A. program on either a full-time or a part-time basis.

Concentrations

The student has the option of selecting a field of concentration, which must be a minimum of 12 hours, or taking a general M.B.A. with electives from a number of areas. With approval, some electives may be taken outside the Graduate School of Management.

The following concentrations are currently offered:
- Accounting
- Finance
- Human Resources Management
- Information Systems
- International Business
- Marketing

Students who are graduates of undergraduate business programs accredited by the AACSB may be able to reduce the required coursework hours for their M.B.A. programs from 54 hours to as low as 39 hours. Students from undergraduate business programs that are not AACSB accredited also may be eligible for reduced programs. In all instances, waiver of
coursework is determined on a case-by-case basis. The student must have received a grade of "B (3.0)" or better in courses considered for waiver. Courses taken as "Pass-Fail" are not eligible for waiver.

ADMISSION

Admission to the M.B.A. program requires a baccalaureate degree from an accredited college or university with a minimum undergraduate grade point average of 2.75 (A=4.0), plus a better than average score on the general aptitude test known as the Graduate Management Admission Test (GMAT).

In rare instances, a student who does not meet the minimum grade point average requirement but has other indices of the ability to handle graduate-level work may be considered for admission. In such cases, a strong performance on the Graduate Management Admission Test, a student’s junior- or senior-grade point average in his or her major, and significant, relevant experience subsequent to receiving a bachelor’s degree are weighed.

Arrangements for taking the GMAT should be made concurrently with application for the M.B.A. program.

The GMAT is a computer-adaptive test in North America and selected international locations. Testing content includes quantitative and verbal questions and an essay-style writing assessment.

The GMAT is offered on a continuous basis by appointment at approximately 400 computer-based testing centers. Test-takers may schedule appointments by calling a toll-free number or by directly contacting a local test center.

For complete information on the computer-adaptive GMAT, registration, fees and testing sites, please contact:

Pearson VUE
Attention: GMAT Program
5601 Green Valley Drive, Suite 220
Bloomington, MN  55437

Phone: 1-800-717- GMAT (4628)
Phone: 1-952-681-3680
Fax: 1-952-681-3681
Email: GMATCandidateServicesAmericas@pearson.com
Web site: www.mba.com

This test must be taken by all applicants and the scores received prior to admission to the graduate program.

In addition to the above admissions requirements, applicants will be expected to demonstrate an acceptable level of preparation in two areas:

• basic computer skills
• quantitative analysis

Such preparation may be demonstrated in a number of ways.

Students lacking preparation may still be admitted into the M.B.A. program but are encouraged to take remedial college coursework prior to, or concurrently when entering the program.

PROGRAM REQUIREMENTS

The courses in the management core present advanced material in business using a variety of teaching approaches. Areas covered include: accounting, economics, finance, human resources management, information systems, marketing, operations and statistics.

Core Courses Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<td>ECON 62022</td>
<td>ECON 6201</td>
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</table>

Executive Modules, Integrative Management Courses and Electives 24
Program Total 54

Full-Time Day M.B.A. Program

This program is for the individual who can concentrate all efforts toward earning the degree. Students in this program take three to five courses per semester and complete the degree in two years or less. Admission is only for Fall semester.

Professional Evening M.B.A. Program

The PMBA program is designed for the individual who maintains full-time employment during the day and can only attend courses at night. Students in this program take one to two courses in a semester and can take between three to five years to complete the degree. Courses are available weeknights, Monday through Thursday, and meet one night per week. The PMBA program offers flexibility and begins each semester (fall, spring, summer).

Executive M.B.A. Program

The Executive M.B.A. program provides a unique and exciting approach to the study of business management for executives. The program is structured so that students take all their classes together, study in teams and interact with senior business faculty. The result is an educational experience unlike the more traditional M.B.A. programs. Upgrades in technology allow students access to the Internet, state-of-the-art computer facilities and the Vaughn Hoover Electronic Classroom as well as other executive classrooms equipped to facilitate multimedia presentations.

The EMBA program is offered on the weekends in a concentrated 19-month format. Classes are held all day on Saturdays. One class of each eight-week term is conducted online allowing the class members to participate from home,
their office or wherever they are traveling throughout the world. The program begins each year in mid-August.

The curriculum emphasizes leadership and management in a global environment using state-of-the-art technology. A ten-day International Business Experience is included midway through the program, providing participants with an applied learning experience abroad.

The Kent State University EMBA program is a highly personalized, adult-oriented and interactive educational experience. The program is academically enriching, comprehensive and challenging. Since its introduction in 1978, the EMBA program has proudly graduated more than 1000 students.

One competitively priced program fee includes all course materials, tuition, textbooks, international business trip, residencies, food service and parking for the entire duration of the program. To accommodate the schedules of busy professionals, all administrative functions such as disseminating textbooks and instructional material, scheduling and registering for classes and securing parking permits are arranged for the students.

ADMISSION
Admission to this program requires a minimum of five years of professional experience in a responsible position. In addition, applicants must have an acceptable undergraduate record from an accredited college, a satisfactory score on the Graduate Management Admission Test (GMAT) and a personal interview with the director of the EMBA program. The applicant and employer must make a firm commitment to the program for 19 months. This program has a fee structure and class schedule that is different from that of the university. For additional information and brochure, please contact: Graduate School of Management, Kent State University, P.O. Box 5190, Kent, OH 44242-0001, phone (330) 672-3622.

The EMBA courses are reserved exclusively for students admitted to the Executive M.B.A. program.

Master of Science in Accounting
The Master of Science in Accounting program is designed for students interested in specializing in accounting and auditing. Students are prepared for responsible leadership positions in public, private, nonprofit and government accounting. The combination of coursework with the option of an internship provides students with a strong theoretical foundation in accounting, as well as an understanding of the practical applications of the discipline.

Upon completion of the program, students will meet the educational qualifications for the CPA, CMA and other professional examinations, including the 150-semester-hour requirement for the CPA in Ohio.

The program is designed to meet the needs of students with a variety of undergraduate backgrounds, ranging from liberal arts majors to business majors to accounting majors. As described below, the degree requirements for the program differ somewhat depending upon each student’s background. Nonetheless, the focus of the program is the same: to provide students with a high-quality master's program in accounting. Students in the M.S. in Accounting program take courses in the various business disciplines along with the core accounting courses, allowing them to become well-rounded professionals. The M.S.A. program calls for students to select between two accounting concentrations: Assurance Services (including external and internal auditing) and Taxation. The program also emphasizes the development of communication, interpersonal and analytical problem-solving skills through the use of case studies, team and individual projects, and computers for accounting applications and auditing.

ADMISSION
Admission requirements are the same for all students, regardless of educational background. Admission to the program requires acceptable scores on the Graduate Management Admission Test (GMAT), an above-average overall grade point average, and an above-average accounting grade point average (if applicable). An interview may also be required. An admissions committee also evaluates each applicant’s communication skills, work experience and recommendations provided by instructors, colleagues and supervisors. Proficiency in algebra and calculus is required. The admissions committee must receive GMAT test scores before it can make any final admissions decisions.

PROGRAM REQUIREMENTS
There are two tracks of study leading to the M.S. in Accounting, depending on the student’s prior preparation. The first track, described below, is for those students who hold undergraduate degrees in accounting. A program of study of 33 hours is required. Students may elect an internship option during one term. All accounting courses are 3 credit hours.
M.S. in Accounting Program for Undergraduate Accounting Majors

A total of seven graduate accounting courses are needed, including five required accounting courses. International accounting undergraduate students may have a few deficiencies to make-up.

GRADUATE ACCOUNTING COURSES (21 HOURS)

Required Courses     Hours
ACCT 53014 ...................................................... 3
ACCT 53020 ........................................................ 3
ACCT 53033 ........................................................ 3
ACCT 53034 ........................................................ 3
B AD 63022 ......................................................... 3

Select one of the two accounting concentrations*

Assurance Services

Required Courses     Hours
B AD 63031 ......................................................... 3
B AD 63024 ......................................................... 3

Taxation

Required Courses     Hours
B AD 63042 ......................................................... 3
B AD 63043 ......................................................... 3

*With the approval of the M.S.A. coordinator, the student may also structure a concentration tailored to the needs of the student by blending the two concentrations and the free elective.

NOTE: If an M.S.A. student took ACCT 43014, 43020, 43033, or 43034 as a Kent State accounting undergraduate (or took comparable classes in another accounting undergraduate program), the normally required comparable graduate course (ACCT 53014, 53020, 53033 and 53034) will not be required in the M.S. program. Rather, the student will substitute an additional accounting elective for each such course.

GRADUATE BUSINESS COURSES (9 HOURS)

Required Courses     Hours
B AD 64005 ......................................................... 3
ECON 62021 ......................................................... 3
B AD 66061 ......................................................... 3

NOTE: During the admission evaluation, some or all of the above courses might be waived by the M.S.A. coordinator depending on the related undergraduate courses the student has previously taken. The student would then choose other non-accounting graduate business courses to make up the required 9 hours of non-accounting graduate business courses.

GRADUATE ELECTIVE COURSE (3 HOURS)

Students are encouraged, but not required, to select a course from the following. Graduate courses outside of the College of Business must be approved by the M.S.A. coordinator.

Graduate Accounting Elective Courses:

Course     Hours
ACCT 53013 ......................................................... 3
B AD 63024 ......................................................... 3
B AD 63025 ......................................................... 3
B AD 63030 ......................................................... 3
B AD 63031 ......................................................... 3
B AD 63032 ......................................................... 3
B AD 63042 ......................................................... 3
B AD 63043 ......................................................... 3
B AD 63045 ......................................................... 3
B AD 63092 ......................................................... 3
B AD 63098 ......................................................... 3

Graduate Business (Non-Accounting) Elective Courses:

Course     Hours
B AD 66062 ......................................................... 3
B AD 66063 ......................................................... 3
B AD 66064 ......................................................... 3
ECON 62022 ......................................................... 3
ECON 62061 ......................................................... 3
ECON 62076 ......................................................... 3

Total hours required for M.S. in Accounting ........... 33

M.S. in Accounting Program for Non–Undergraduate Accounting Majors

This track of study is a program for students with either a liberal arts undergraduate degree or with a business (but not accounting) major. These full-time or part-time students must complete an undergraduate accounting core. The core courses are required regardless of any work experience within the accounting profession. Students in the M.S.A. program but pursuing the undergraduate core must maintain a 3.0 overall average and are held to all other qualitative requirements for graduate students. After completing the undergraduate core courses, students generally complete the same 33-hour program described above to obtain the M.S.A. degree.

Undergraduate Accounting Core Courses ........... 21 Hours
ACCT 33001 ......................................................... 3
ACCT 33004 ......................................................... 3
ACCT 33010 ......................................................... 3
ACCT 33012 ......................................................... 3
ACCT 43010 ......................................................... 3
ACCT 43031 ......................................................... 3
FIN 36072 ......................................................... 3

Following completion of the undergraduate core accounting courses, depending on the student’s background, he/she will then pursue the M.S.A. degree with the following requirements, which are very similar to those for the student with an undergraduate accounting major.

Graduate accounting hours ...................... 21
Business Administration and Management

Graduate non-accounting business hours.................. 9-15
Graduate elective ...................................................... 0-3
Total hours beyond undergraduate accounting
Core courses: ......................................................... 33-36

Students without an undergraduate business degree must complete both B AD 64271 and B AD 65051. One of these courses may be counted as the graduate elective course.

Master of Science in Financial Engineering

The interdisciplinary Master of Science in Financial Engineering Degree (MSFE) is designed for students with strong quantitative backgrounds who have goals of becoming risk management officers, derivatives analysts or traders. The degree is jointly awarded by the College of Business Administration and Graduate School of Management and the College of Arts and Sciences.

The program is a demanding one, and requires the completion of 36 credit hours of coursework, including an industry-based internship. It combines strong quantitative skills from mathematics, including probability theory and numerical computing, with risk management and dynamic valuation skills from finance. The program emphasizes applied skills in the area of financial engineering, while still providing the necessary theoretical background. The coursework was designed by an industry advisory board of leading investment banks and financial firms. The program is designed to provide students with the necessary skills and knowledge to succeed in the financial engineering field.

The on-campus electronic Olga A. Mural Financial Engineering Trading Floor allows students to receive hands-on experience in derivatives trading and risk management. Kent State has the only derivatives-oriented trading floor in an academic institution with direct connections to the futures exchanges. The trading floor is equipped with the same software used by major investment banking firms. Live exchange data feeds and real-time market information allow students to simulate real trading. The software includes Trading Technologies X Trader, PatSolutions, and SunGard’s MicroHedge options analytical product. Data feeds from CQG and Reuters provide continuous news and pricing information. At the front of the trading floor is a data board that provides real-time pricing information on derivatives. Students use this information to assess market conditions for trading tendencies. Live satellite feeds are shown on plasma displays.

This unique trading floor is an integral part of the MSFE program at Kent State University. Since students use the same data feeds and trading software that are used by major investment banking firms, the trading floor allows them to replicate dynamic trading strategies and derivative security analyses.

An industry-based internship is assigned. The project will involve direct interaction with a contributing firm. The student will undertake a ten-week internship to complete the required project with a firm from the financial community. The project will be presented to the program faculty for final evaluation. Prior participating firms include the Chicago Board of Trade, Eurex, Prebon Yamane, State Street Research, KeyBank, SunGard, FirstEnergy, Goldman Sachs, and ICAP. Students are given opportunities to network with top industry officials. The class visits both the Chicago and New York financial districts to interact with professionals in the derivatives field.

ADMISSION

Students apply to the Graduate School of Management. The MSFE program committee will make an assessment of the candidate’s background and skills. A joint committee with faculty from the Department of Mathematics, the Department of Finance and the Department of Economics will consider highly ranked applicants for admission. Applicants will need to submit GRE or GMAT scores along with three letters of recommendation and official transcripts. The primary tools used to evaluate candidates are:

- GRE or GMAT
- GPA at the undergraduate and, if available, graduate level
- TOEFL score of at least 525 (for foreign students)
- Transcripts for all prior degrees
- Letters of reference
- Statement of purpose
- Resume

All guidelines regarding nondiscrimination policies are adhered to in the selection process.
Master of Arts in Economics

The Master of Arts program in economics provides excellent preparation for a career as an analyst in government or the private sector, and for doctoral study. One distinct advantage of the M.A. in Economics program at Kent State is its focus on the development of strong analytical and quantitative skills. Students are well-trained in the application of economic theory and methods of statistical analysis. Two tracks are offered in the program. The first, Economic Analysis, is the general track intended for students who wish to pursue careers with government agencies, in the private sector, and/or pursue a doctoral degree in economics. The second, Financial Economics, is primarily designed for students who wish to pursue careers in the financial services industry, including commercial banking, investment banking, insurance, real estate and financial advising.

ADMISSION

Each student must submit a complete application to the Graduate School of Management including the following information:

- an essay describing goals and objectives
- a resume showing work experience
- results of the Graduate Record Examination or Graduate Management Admission Test.
- Three letters of recommendation.

PROGRAM REQUIREMENTS

The M.A. program requires the completion of 30 semester hours of coursework, or a minimum of 24 hours of coursework and a thesis.

Students entering the program will be expected to have completed undergraduate courses in intermediate microeconomic and macroeconomic theory, differential calculus and statistics. Any deficiencies must be made up before the start of the program. These background courses do not count toward the 30 hours required for the degree.

Both the Financial Economics and Economic Analysis tracks are built upon a set of core courses in economic theory and econometrics. The student then takes elective courses in areas such as international economics, economic development, monetary economics, labor economics, public sector economics or several courses in the Department of Finance, depending on the track chosen.
Business Administration and Management

Economic Analysis Track

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<thead>
<tr>
<th>Core Courses</th>
<th>Hours</th>
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<td>ECON 62054</td>
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<tr>
<td>ECON 64004</td>
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</table>

Electives: 18
Program Total: 30

For elective courses, students may select any M.A.- or Ph.D.-level economics courses subject to these restrictions:

- All choices must have the approval of the graduate coordinator.
- No more than 6 hours may be at the 50000 level.
- The student must complete at least 15 hours of economics courses other than those in independent study and research (62096, 62098, etc.)

A student may also select, with departmental approval, a limited number of courses outside the Department of Economics.

Financial Economics Track

<table>
<thead>
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<th>Core</th>
<th>Hours</th>
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</thead>
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<td>ECON 62054</td>
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<td>ECON 62061</td>
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<td>B AD 66061</td>
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<td>18</td>
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</table>

Electives: 12
Program Total: 30

Students take two electives in economics and two electives in finance. The finance electives are chosen from a list of approved finance electives, with the approval of the graduate coordinator. For economics elective courses, students may select any M.A.- or Ph.D.-level economics courses subject to the following restrictions: all choices must have the approval of the graduate coordinator; no more than 3 hours may be at the 50000 level; and the student must complete at least 15 hours of economics courses other than those in independent study and research (62096, 62098, etc.).

A student may also select, with departmental approval, a limited number of courses outside the Department of Economics.

Master of Science in Nursing/Master of Business Administration

The Master of Science in Nursing and Master of Business Administration (M.S.N./M.B.A.) dual-degree program is designed for experienced nurses whose career goals include assuming middle or executive management positions in health services agencies or in health-related companies, or who are interested in starting their own business. It combines the strengths of advanced nursing preparation with the practical management knowledge needed to develop significant leadership capabilities.

The M.S.N.-M.B.A. dual degree is a demanding program requiring the fulfillment of 63 credit hours of coursework. Practicum experiences, an integral part of the program, provide a combined management and nursing focus. A management internship near the end of the program enables students to practice new leadership skills within a challenging health-care setting. Coursework in nursing and management is integrated and concurrent, thereby providing synergistic learning between the two disciplines.

ADMISSION

Students apply to both the College of Nursing and to the Graduate School of Management with one set of application materials. Each program makes an independent admission decision. Admission is determined based upon undergraduate grade point average, Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT) scores, three letters of reference, an essay addressing the applicant’s career direction, and prior nursing experience (a minimum of two years clinical practice is strongly preferred).

PROGRAM REQUIREMENTS

At 63 credit hours for the dual degree, students save 33 credit hours from master’s requirements by not pursuing the two degrees independently. There are 18-34 credit hours in the M.S.N. (normally 36-40) and 39-45 credit hours in the M.B.A. (normally 54). This program includes 34 credit hours of core courses, 6-10 hours of practicum experience, 5-11 hours of theory and research, 9 hours of executive and international courses, and 9 hours of integration and capstone courses. By taking three courses per semester, the dual-degree program can be completed within two years full-time, or at two courses per semester, within three and one-half years on a part-time basis. Student learning needs and previous coursework may create individual variation in the dual-degree curriculum.
Master of Library and Information Science/Master of Business Administration

The Master of Library and Information Science and Master of Business Administration (M.L.I.S.-M.B.A.) dual-degree program is designed for managers of large libraries and information centers. Individuals in these positions need knowledge pertaining to planning, organizing, staffing, directing and controlling. Advanced education to obtain knowledge and learn skills related to these management functions enables students to take advantage of career opportunities both in library settings and other information settings, both in the profit and nonprofit sectors.

ADMISSION

Students apply to both the School of Library and Information Science and to the Graduate School of Management. Each program makes an independent admission decision. Admission is determined based upon undergraduate grade point average, strong performance on the Graduate Record Examination or GMAT, three letters of reference, and an essay regarding the applicant's career direction.

PROGRAM REQUIREMENTS

At 69 credit hours for the dual degree, students save 26-27 credit hours by not taking the two master's degrees independently.

The M.L.I.S.-M.B.A. dual-degree curriculum includes 30 hours of M.B.A. coursework, 27 hours of Library Science courses and 12 hours from either business or library science.

Master of Architecture/Master of Business Administration

Graduate students interested in advanced preparation in architecture and in business administration may apply for admission to the M.Arch. and M.B.A. dual-degree program, offered jointly by The College of Architecture and Environmental Design (CAED) and the Graduate School of Management (GSM). This program is designed for architects or undergraduate architectural students whose career goals include assuming middle or executive management positions in architectural practices, or who are interested in starting their own businesses.

ADMISSION

The program is available to those holding a preprofessional degree in architecture (B.S. or B.Arch.) with undergraduate coursework equivalent to the Kent State University Bachelor of Science degree (see the Kent State University Undergraduate Catalog or visit the CAED Web site). Conditional admission may be granted with specific additional coursework, including a Comprehensive Building Design and Technology Studio. Applicants must also hold an undergraduate minimum GPA of 2.75 (A=4.0).

Students need to apply to both CAED and the Graduate School of Management (GSM) following the respective application guidelines.

For CAED, in addition to Kent State University regular application requirements, admission to the program is administered through the Graduate Studies Committee and requires:

- letters of reference (at least three, one of which is from a nonacademic source)
- statement of purpose
- portfolio of design work, clearly indicating applicant's role in group projects.
- GRE scores.

Each school will make an independent decision and the student will be notified in one letter of the decisions made in both programs.

PROGRAM REQUIREMENTS

Students in the M.Arch./M.B.A. dual degree program must earn at least a total of 74 credit hours, 35 from the M.Arch. program and 39 from the M.B.A. program.

The required core courses are:

<table>
<thead>
<tr>
<th>MArch Courses</th>
<th>Hours</th>
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* ST course in Professional Practice

Actual offerings and schedules vary from year to year and CAED and GSM will jointly provide a pre-approved recommended course of study. Students who wish to take a different course of study need to obtain separate approvals.
Business Administration and Management

from CAED and GSM graduate coordinators. Contact the CAED graduate secretary for details on coursework registration.

**Dual Degree: Master of Arts in Translation and Master of Business Administration**

Graduate students interested in advanced preparation in foreign language translation and in business administration may apply for admission to the M.A. Translation and M.B.A dual degree program, offered jointly by the Department of Modern and Classical Languages and the Graduate School of Management. This program is designed for students with significant foreign language skills who wish to integrate graduate business education with advanced foreign language translation. This dual degree might be suitable for those whose career goals including assuming middle or executive management positions in international business or language industry enterprises or who are interested in starting their own businesses in the language services industry.

**ADMISSION**

Applicants interested in pursuing the dual degree must apply separately for admission to the College of Arts and Sciences and the College of Business. Applicants are encouraged to apply to the two programs at the same time, although students pursuing the M.A. in Translation can apply for the dual degree up to but no later than the end of their first year of study, provided their first-year elective was taken in the College of Business. For students pursuing the dual degree full-time, the M.A. in Translation is conferred at the end of their second year of study and the M.B.A. at the end of their third year.

**PROGRAM REQUIREMENTS**

Students in the M.A. Translation and M.B.A dual degree program must earn a total of 70-73 credit hours. There is a minimum requirement of 33 credit hours from the M.B.A. program and the M.A. in Translation requires from 25-28 credit hours. An additional 12 hours may be chosen from Business Administration or Translation. A minimum GPA of 3.0 must be maintained. The required courses are:

**M.A. Translation**

- TRST 60010 ............................................................. 2
- FR, GER, JAPN, RUSS, SPAN 6x010 ..................... 2
- TRST 60011 ............................................................. 3
- TRST 60012 ............................................................. 3
- TRST 60001 ............................................................. 3
- FR, GER, JAPN, RUSS, SPAN 6x250 ..................... 3
- FR, GER, JAPN, RUSS, SPAN 6x251 ..................... 3
- FR, GER, JAPN, RUSS, SPAN 6x979 ..................... 3
- Second Language, Culture or other approved courses ........................................ 6

**M.B.A.**

- B AD 63037 ............................................................. 3
- B AD 63038 ............................................................. 3
- B AD 64005 ............................................................. 3
- B AD 64041 ............................................................. 3
- B AD 64042 ............................................................. 3
- B AD 64043 ............................................................. 3
- B AD 64185 ............................................................. 3
- B AD 64158 ............................................................. 3
- B AD 63050 ............................................................. 3
- B AD 63051 ............................................................. 3
- B AD 66061 ............................................................. 3
- ECON 62021 ............................................................. 3
- ECON 62022 ............................................................. 3

**M.B.A. or M.A. in Translation**

- M.B.A. or M.A. in Translation Hours
  - B AD 64042 or TRST 60012 ..................................... 3
  - B AD 64271 or TRST 60013 ..................................... 3
  - International Elective (either unit) ........................ 3

1. or approved substitute including study abroad
2. minimum 3 credits must be taken from MCLS

The M.B.A. program should be initiated before 12 hours in the M.A. Translation program have been completed. The M.A. in Translation is awarded upon completion of the requirements of that degree. The M.B.A. is awarded upon completion of the joint M.B.A./M.A. Translation degree program. Actual offerings and schedules vary from year to year and MCLS and GSM jointly provide a pre-approved recommended course of study. Students who wish to take a different course of study need to obtain separate approvals from the MCLS and GSM graduate coordinators.

**Master of Business Administration Programs at International Universities**

M.B.A. students who wish to study abroad may apply for the M.B.A. exchange program with Groupe Ecole Superieure Commerce de Rennes (Groupe ESC Rennes) in France. If students are able to spend a full year abroad, they may be able to satisfy the master’s requirements at both institutions and thereby earn dual master’s degrees.

Kent State M.B.A. students who are able to take and pass their final examinations in French will receive the M.B.A. from Rennes in addition to an M.B.A. from Kent State. If they instead take their examinations in English, they can receive the M.A. in International Business. Students who elect to spend a single semester at Ecole Superieure Commerce de Rennes will receive the certificate in International Business upon successful completion of requirements, along with the Kent State M.B.A.
DUAL-DEGREE CAUTIONARY NOTE
Students will be cautioned that those admitted to any dual-degree program must satisfy all program requirements as specified. Should a student decide to leave one of the programs and pursue a single degree, he or she will be informed that program requirements will then be the same as those normally needed for a single degree.

Doctor of Philosophy

Doctoral study in business administration prepares highly qualified candidates for positions of professional responsibility in university teaching, research, and administration or research careers in governmental and private agencies. The Ph.D. is a scholarly degree. Its purpose is to develop the intellectual potential of the student through emphasis on specific areas within the framework of the major business disciplines.

ADMISSION

Admission to the Ph.D. program is limited to persons who show outstanding potential for doctoral study and for later professional achievement. The Ph.D. program is designed for full-time study only. By definition, a full-time graduate student is one registered for 8 to 16 hours in any one semester, with 16 hours being the maximum number that may be carried per semester.

Applicants for admission to the Ph.D. program must meet the standards of the College of Business Administration. Among the factors considered for admission are the applicant’s previous academic record, scores on the Graduate Management Admission Test and professional experience and recommendations. Most students have earned master’s degrees in business or related fields, and many have prior teaching and/or business experience. Applicants whose native language is not English must take the Test of English as a Foreign Language (TOEFL) and have the official test results submitted directly to Kent State University. All applicants are encouraged to visit the school to learn more about the preparation of the major business disciplines.

Concentrations are available in the following areas:

• Accounting
• Finance
• Marketing
• Human Resources
• Information Systems
• Operations Management
• Strategic Management

In addition to the above areas, minor fields may also be chosen from the following areas:

• Applied Statistics
• Economics
• Information Systems

• International Business

PROGRAM REQUIREMENTS

The Ph.D. program consists of five phases: proficiency requirements, supportive coursework, concentration and minor coursework, comprehensive examinations and dissertation. The course requirements in the proficiency phase are roughly equivalent to an AACSB-accredited M.B.A. degree, and certain courses may be waived based upon completed graduate and undergraduate coursework.

The Ph.D. program calls upon the student to complete a minimum of six courses in quantitative analysis, economic theory and other analytical courses supportive of the student’s area of concentration; five courses in his or her major area; and a four-course minor.

After completion of the coursework, each student must pass comprehensive examinations in his or her major area. No universal language requirement for the Ph.D. degree in business administration is necessary.

Successful completion of the comprehensive examinations and approval of a dissertation topic shall constitute admission to candidacy for the Ph.D. degree. The final phase of the Ph.D. program is the preparation of the Ph.D. dissertation. Upon completion, the dissertation is defended before a committee of the graduate faculty.

Course Numbering System

Courses offered primarily for students in the Master of Business Administration, Master of Science in Accounting and Doctor of Philosophy programs have the Business Administration (B AD) prefix.

Graduate courses offered by the Department of Economics leading to the Master of Arts degree are listed under ECON.

Courses offered by the Department of Finance, leading to the M.S. in Financial Engineering, are listed under FIN.

Accounting (ACCT) courses in the 50000 series may be offered jointly with the respective 40000 level course. Graduate students enrolled in the 50000 level courses will be required to complete additional coursework and perform at higher levels than expected of undergraduates who may be enrolled in the 40000 level course. Business administration courses in the 50000 series are intended primarily for nonbusiness graduate students. Those B AD courses in the 60000 series are intended primarily for students in the M.B.A. and M.S. in Accounting programs. Courses numbered B AD 60000 are open to master’s students who have completed less than 34 hours of graduate coursework. Courses numbered B AD 70000 are open to master’s students with more than 34 hours of graduate coursework, to students who already possess a master’s degree and to doctoral students. Courses numbered B AD 63021 through 63036 and 63039 through 63098 are offered for the Master of Science in Accounting program; these courses are open to M.B.A. students with permission. Courses numbered B
AD 80000 are open to doctoral students only.

Graduate courses in other departments of the university may be taken by graduate students in business administration with the consent of the instructor and approval by the associate dean of the Graduate School of Management.

Occasionally, graduate students in nonbusiness programs are interested in taking coursework in the Graduate School of Management as electives. The school limits this to M.B.A. courses for which the student meets all prerequisites. Courses classified as executive module or integrative management are limited to students admitted to the Graduate School of Management.

### Accounting (B AD & ACCT)

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

**ACCT 53013**

**ADVANCED MANAGEMENT ACCOUNTING (3)**

Advanced techniques and issues in costing and accounting measurement for management planning, decision-making and control. Professional accounting research and teamwork skills emphasized. This course may be offered jointly with ACCT 43013. Students enrolled in ACCT 53013 will be required to complete additional coursework and perform at higher levels than expected of students enrolled in ACCT 43013. Prerequisite: ACCT 33010 and 33012 or permission of instructor.

**ACCT 53014**

**ADVANCED ACCOUNTING SYSTEMS (3)**

Emphasizes the analysis, design and implementation of accounting information systems and internal controls. Written communication, ethical decision making, and computer application skills emphasized. This course may be offered jointly with ACCT 43014. Students enrolled in ACCT 53014 will be required to complete additional coursework and perform at higher levels than expected of students enrolled in ACCT 43014. Prerequisite: ACCT 33004 or permission of instructor.

**ACCT 53020**

**CORPORATE ACCOUNTING III (3)**

Business combinations; consolidated financial statements; specialized disclosures; foreign currency impacts; intercorporate investments. Professional accounting research and interpersonal skills emphasized. This course may be offered jointly with ACCT 43020. Students enrolled in ACCT 53020 will be required to complete additional coursework and perform at higher levels than expected of students enrolled in ACCT 43020. Prerequisite: ACCT 33012 and ACCT 43031, or equivalents.

**ACCT 53033**

**INCOME TAXATION II (3)**

Advanced partnership and corporate tax problems; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized. This course may be offered jointly with ACCT 43033. Students enrolled in ACCT 53033 will be required to complete additional coursework and perform at higher levels than expected of students enrolled in ACCT 43033. Prerequisite: ACCT 43031.

**ACCT 53034**

**NONPROFIT ACCOUNTING AUDITING (3)**

Unique nonprofit, financial reporting, managerial accounting, and financial and operating audits for government and non-profit entities. Professional accounting research, written communication, and ethical decision making emphasized. This course may be offered jointly with ACCT 43034. Students enrolled in ACCT 53034 will be required to complete additional coursework and perform at higher levels than expected of students enrolled in ACCT 43034. Prerequisite: ACCT 33012.

**ACCT 53095**

**SPECIAL TOPICS ACCOUNTING (1-3)**

Special topics course that will be offered periodically with different topics and different faculty involved each time the course is offered. Prerequisite: Special approval.

**B AD 63022/73022**

**PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING (3)**

A capstone course for the M.S.A. program. Investigates issues confronting the accounting profession today by reviewing the past, examining the present, and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud, and the future of the profession. Professional accounting research, verbal and written communication emphasized. Prerequisite: Special approval.
B AD 63024/73024
IT AUDIT AND CONTROL (3)
Examines the control and security of accounting information systems with an auditing perspective. Includes the role of IS audit function, IS auditing standards, system risks, application controls, and current issues facing IS auditors. Research, writing, and ethics will be emphasized. Prerequisite: ACCT 43010 and ACCT 4/53014, or equivalents.

B AD 63025/73025
ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS (3)
Uses financial statements to analyze business strategy, accounting issues, finances, and future prospects. Uses case studies to apply business valuation framework to security analysis, credit, corporate financing policies, and management communications. Research and writing will be emphasized. Prerequisite: ACCT 33001 or B AD 63037 or equivalents, or permission of instructor.

B AD 63030/73030
INTERNATIONAL ACCOUNTING (3)
Study of reporting in United States capital markets for domestic and foreign firms; evaluation of differences in accounting, auditing and financial reporting between nations; impact of international operations on accounting for decision-making. Interpersonal skills emphasized. Prerequisite: ACCT 33012 or permission of instructor.

B AD 63031/73031
ADVANCED AUDITING THEORY AND PRACTICE (3)
Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards, on ethical considerations, and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision-making emphasized. Prerequisite: ACCT 43010 or equivalent.

B AD 63032/73032
ACCOUNTING THEORY, HISTORY, AND INSTITUTIONS (3)
Survey of history of accounting and development of principles, followed by intensive study of theoretical problems related to determination of income and presentation of financial position. International and current issues also discussed. Written communication and ethical decision-making emphasized. Prerequisite: ACCT 33012 or permission of instructor.

B AD 63037/73037
FINANCIAL ACCOUNTING—MANAGERIAL ACTION (3)
In-depth study of financial accounting concepts and basic financial statements. Examination of significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making. Open only to M.B.A. and M.A. students. Cannot count toward M.S.A. degree. Prerequisite for 73037.

B AD 63038/73038
ACCOUNTING FOR MANAGERIAL ACTION AND EVALUATION (3)
Review of cost accounting concepts and cost behavior. In-depth study of analyzing costs for pricing and product mix decisions; activity-based cost systems; budgeting; planning and control issues; methods of remaining competitive in a global environment; compensation issues. Open only to M.B.A. and M.A. students. Cannot count toward M.S.A. degree. Prerequisite: Special approval.

B AD 63042
TAXATION OF CORPORATIONS AND SHAREHOLDERS (3)
An in-depth study of tax law that pertains to corporations and shareholders; corporate organization; liquidation; reorganization; and subchapter S Tax research and verbal communication emphasized. Prerequisite: ACCT 43031.

B AD 63043
TAXATION OF PARTNERSHIPS AND PARTNERS (3)
An in-depth study of formation, operation, termination and liquidation and other special problems of partnerships. Tax research and verbal communication emphasized. Prerequisite: ACCT 43033/53033.

B AD 63045
TAX RESEARCH AND PLANNING (3)
Tax planning; tax accounting practice; administrative procedure; research methodology and problems. Tax research and verbal communications emphasized. Prerequisite: ACCT 43033/53033.

B AD 63046
ADVANCED TAX ISSUES (3)
Advanced tax coverage of C and S corporations and partnerships. The Internal Revenue Code, Treasury Regulations and case law will be utilized in problem-solving. Ethics, verbal communications, and negotiating skills will be stressed. Prerequisite: ACCT 43033/53033.

B AD 63092
INTERNSHIP (3)
Supervised practical experience with public accounting firm or industrial firm. Periodic reports required. S/U grading. Prerequisite: Enrollment in the M.S. in Accounting program; ACCT 33010 and 33012.

B AD 63093/73093
VARIABLE TITLE WORKSHOP IN ACCOUNTING (1-3)
To be determined when a specific course is proposed for a particular term. S/U grading. Prerequisite: Special approval.

B AD 63098/73098
RESEARCH IN ACCOUNTING (1-3)
Individually selected topic is investigated and reported in formal paper. May extend beyond one semester. IP grade permissible. Prerequisite: Major in accounting or equivalent.
Business Administration and Management

B AD 83031
AUDITING ISSUES (3)
A seminar designed to provide doctoral students with the opportunity to broaden their understanding of financial and operational auditing theory and research. Prerequisite: ACCT 43010.

B AD 83033
MANAGERIAL ACCOUNTING ISSUES (3)
Library research and discussion will cover basic areas in cost/managerial accounting. Coverage will include a thorough understanding of the areas, the role of mathematical models, and emerging issues/problems. Emphasis will be placed on integrating the topical areas.

B AD 83037
FINANCIAL ACCOUNTING ISSUES (3)
Capstone theory course in which accounting conventions, principles and concepts of a currently controversial nature are explored and debated. Emerging issues in financial accounting, reporting and research are examined.

B AD 83038
BASIC ACCOUNTING RESEARCH METHODOLOGY (3)
Examination of basic research methodology and how the methodology is applied in accounting research. Introduction to statistical packages and databases. Research paper required; IP permissible.

B AD 83091
SEMINAR — SELECTED ACCOUNTING TOPICS (3-6)
Topics vary with each offering, usually from the following: auditing, taxation, fund accounting, accounting systems, and accounting education issues. Repeat enrollment for different topics permitted. Prerequisite: Special approval.

B AD 64005/74005
STATISTICS FOR MANAGEMENT (3)
This course uses computer capabilities to use and understand a variety of statistical techniques and applies these techniques to business problems. Prerequisite: Admission to M.B.A. program.

B AD 64007/74007
INFORMATION TECHNOLOGY (3)
Overview of database and advanced information processing technologies and their integration. Emphasis is placed on the use of the application to the manufacturing and service industries. Prerequisite: Permission of instructor.

B AD 64011/74011
SYSTEMS SIMULATION (3)
Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis of interpretation and of results. Prerequisite: Permission of instructor.

B AD 64012/74012
SCHEDULING AND PLANNING (3)
An introduction to production planning and scheduling models used to solve real-world problems. Included are aggregate planning; nonlinear cost; production and workforce smoothing; adaptive, multistage models and pull systems (JIT, OPT). Prerequisite: B AD 6/74003.

B AD 64013/74013
NONPARAMETRIC STATISTICS (3)
This course is a presentation of statistically sound techniques for analysts who want to adopt nonparametric procedures to their specific analytic needs. Prerequisite: B AD 6/74005.

B AD 64015/74015
STOCHASTIC MODELS (3)
Mathematical modeling of systems involving one or more random variables. Probabilistic concepts in mathematical modeling; Poisson process, Markov chains and processes with applications to production, inventory, reliability and queues. Prerequisite: Permission of instructor.

B AD 64017/74017
MULTIVARIATE STATISTICS (3)
This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis, cluster analysis and factor analysis. Prerequisite: B AD 6/74023.

B AD 64018/74018
MATHEMATICAL PROGRAMMING (3)
Advanced techniques including interior-point methods in linear programming; branch-and-bound and cutting-plane methods; traveling salesman and knapsack models in integer programming. Prerequisite: B AD 6/74003.

B AD 64019/74019
QUANTITATIVE MANAGEMENT MODELING (3)
The purpose of this course is to introduce the student to the principles and the approaches of problem formulation and solving by quantitative management methods. Prerequisite: B AD 6/74015.

B AD 64020/74020
ADVANCED STATISTICAL MODELS (3)
This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity, and reliability issues. Prerequisite: B AD 6/74023.

B AD 64023/74023
LINEAR STATISTICAL MODELS AND APPLICATIONS (3)
Models and applications of simple and multiple regression, correlation and analysis of variance. Prerequisite: B AD 6/74005.
B AD 64031/74031
QUALITY AND RELIABILITY SYSTEMS (3)
Modern quality and reliability assurance that combines statistical and behavioral aspects; sampling plan, statistical process control, tolerancing, reliability assurance, product and product optimization, economical allocation and scheduling of inspection. Prerequisite: Permission of instructor.

B AD 64033/74033
MODERN MANUFACTURING MANAGEMENT (3)
Major areas of study: Importance of manufacturing and competitive position of U.S. manufacturing; strategic and organizational responses to gain competitive advantage; developments in manufacturing systems and management techniques. Prerequisite: Permission of instructor.

B AD 64041/74041
OPERATIONS MANAGEMENT (3)
Develops a framework for analysis of operating problems. Uses computer, quantitative and behavioral models to develop operating plans consistent with organizations’ competitive (or service) strategy. Prerequisite: B AD 64005.

BAD 64042/74042
MANAGEMENT INFORMATION SYSTEMS (3)
Theory, development, application and management of information systems and their impact on people and organizations; emphasis on strategy, ethics and competitive advantage of modern technology.

B AD 64045/74045
SYSTEM DEVELOPMENT METHODOLOGIES (3)
Critical comparative analysis of various technological and organizational methods for design, construction and maintenance of information systems. Survey of contemporary technologies and extrapolation to possible futures. Prerequisite: Permission of instructor.

B AD 64046/74046
SEMINAR IN COMPUTER-SUPPORTED COLLABORATIVE WORK (3)
Technical and management considerations of collaborative work technology, including networking; topics such as groupware, group decision support systems, telework, local area networking, Internet and network references. Prerequisite: Permission of instructor.

B AD 64047/74047
MANUFACTURING TECHNOLOGY AND STRATEGY (3)
This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included. Prerequisite: Permission of instructor.

B AD 64080/74080
EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES (3)
Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory. Prerequisite: Permission of instructor.

B AD 64081/74081
DATA COMMUNICATIONS AND NETWORKING IN BUSINESS (3)
An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services, communication standards and protocols, local area networks and network management. Prerequisite: Permission of instructor.

B AD 64082/74082
DATABASE MANAGEMENT SYSTEMS (3)
In-depth investigation of intelligent database management systems in support of business decision-making. An understanding of relational databases is assumed. Object-oriented and semantic database will be explored. Prerequisite: Permission.

B AD 64083
INFORMATION SECURITY: A MANAGERIAL PERSPECTIVE (3)
Introduction to the information security areas that managers must understand in order to deal with today’s security threat-laden environment. The emphasis is on the important principles and concepts that managers utilize to develop effective security risk management programs. Prerequisite: Admission to the M.B.A. program or admission to the M.S. program in Information Architecture and Knowledge Management.

B AD 64108/74108
ADVANCED TOPICS IN HUMAN RESOURCES MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (3)
Intensive investigation of selected topics in human resources management and/or organizational behavior. Students will be expected to undertake a research project on a topic jointly determined by the student and the instructor. Prerequisite: Permission of instructor.

B AD 64158
LEADERSHIP AND MANAGERIAL ASSESSMENT (3)
Develop understanding and skills in self-management and team leadership using assessment instruments, role playing and organizational incidents. IP permissible.

B AD 64160/74160
LEADERSHIP AND ORGANIZATIONAL CHANGE (3)
Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies.
**Business Administration and Management**

**B AD 64165/74165**  
HIGH PERFORMANCE ORGANIZATIONS (3)  
Considers the traits of organizational leaders and the processes they use to implement changes in organizations.

**B AD 64185/74185**  
BUSINESS STRATEGY (3)  
Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed; case analysis of actual business situations helps student further develop analytical and communication skills. Prerequisite: Completion of 24 credit hours of business administration (B AD) courses and 74185: special approval.

**B AD 64261/74261**  
STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT (3)  
Provides a graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making. Prerequisite: Permission of instructor.

**B AD 64263/74263**  
EMPLOYEE SELECTION AND APPRAISAL (3)  
This course will focus primarily on issues associated with the person-/job-matching process in modern organizations related to the selection and appraisal of employees. Prerequisite: B AD 64271.

**B AD 64270/74270**  
ORGANIZATIONAL ANALYSIS (3)  
Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze, design and solve organizational problems within the work environment. Prerequisite for 6/74270 special approval.

**B AD 64271**  
HUMAN RESOURCES MANAGEMENT (3)  
Explores the management of a firm's human resources from practical and theoretical perspectives of managing people at work. Prerequisite: Admission to M.B.A. program.

**B AD 64275/74275**  
STRATEGIC GLOBAL MANAGEMENT (3)  
Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager. Prerequisite for 6/74275: completion of 24 credit hours of business administration (B AD) courses and special approval.

**B AD 64277/74277**  
MICRO-ORGANIZATIONAL ANALYSIS: INDIVIDUAL BEHAVIOR (3)  
An examination of theory and research on individual behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design and feedback systems.

**B AD 64285/74285**  
MANAGING HIGH TECHNOLOGY (3)  
This course will cover tools and processes for anticipating and implementing high technologies to assure maximum return on investment for long-term competitive advantage. Prerequisite: B AD 6/74007 and 6/74049.

**B AD 74262**  
COMPETITIVE STRATEGIC ANALYSIS (3)  
Develops an understanding of the critical factors involved in formulating industry-analytic, competitive strategy and evaluating its effectiveness. Prerequisite: Permission of instructor.

**B AD 84007**  
INFORMATION TECHNOLOGY (3)  
Overview of information technologies and their management. Emphasis is placed on current issues in each of the IS technology types and business issues on their acquisition, management and value.

**B AD 84012**  
SCHEDULING AND PLANNING (3)  
An introduction to production planning and scheduling models used to solve real-world problems. Included are aggregate planning, nonlinear cost, production and workforce smoothing, adaptive, multistage models and pull systems (JIT, OPT).

**B AD 84015**  
STOCHASTIC MODELS (3)  
Mathematical modeling of systems involving one or more random variables: basic probability theory, Poisson process, Markov chain and Markov process, with applications to production, inventory, reliability and queuing systems. Prerequisite: Permission.

**B AD 84020**  
ADVANCED STATISTICAL MODELS (3)  
This is a special-focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, other advanced statistical models, internal, external validity and reliability issues, and time series analysis.

**B AD 84031**  
QUALITY AND RELIABILITY SYSTEMS (3)  

**B AD 84045**  
SYSTEM DEVELOPMENT METHODOLOGIES (3)  
Critical comparative analysis of various technological and organizational methods for design, construction and maintenance of information systems. Survey of contemporary technologies and extrapolation to possible futures.
B AD 84047
MANUFACTURING TECHNOLOGY AND STRATEGY (3)
This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included. Prerequisite: Permission.

B AD 84080
EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES (3)
Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operations systems, artificial intelligence, neural networks and chaos theory.

B AD 84081
DATA COMMUNICATIONS AND NETWORKING IN BUSINESS (3)
An introduction to telecommunications networks, services and regulations. Topics include transmission media, communications standards and protocols, local and wide area networks, and network management and security.

B AD 84082
DATABASE MANAGEMENT SYSTEMS (3)
In-depth investigation of intelligent database management systems in support of business decision-making. An understanding of relational databases is assumed. Object-orientation and other advanced database concepts will be explored.

B AD 84083
INFORMATION INFRASTRUCTURE SECURITY (3)
A course in infrastructure security. In-depth examination of current issues in this field including network vulnerability, privacy and legal issues and government agencies. Pre- or corequisite: B AD 84112.

B AD 84108
ADVANCED TOPICS IN HUMAN RESOURCE MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (3)
Intensive investigation of selected topics in human resources management and/or organizational behavior. Students will be expected to undertake a research project on a topic jointly determined by the student and the instructor.

B AD 84112
RESEARCH METHODOLOGY (3)
The objectives of this course are to formulate a research problem and develop testable research hypotheses; develop research skills by learning the different research methods and techniques; explain information contained in research statistical outputs such as SAS and SPSS; enable students to conduct meaningful and high-quality research in their specific field of interest.

B AD 84261
STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT (3)
Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making. Prerequisite: Permission.

B AD 84262
COMPETITIVE STRATEGIC ANALYSIS (3)
Develops an understanding of the critical factors involved in formulating industry-analytic competitive strategy and evaluating its effectiveness.

B AD 84263
EMPLOYEE SELECTION AND APPRAISAL (3)
This course will focus primarily on issues associated with the person/job-matching process in modern organizations related to the selection and appraisal of employees.

B AD 84266
READINGS IN MANAGEMENT SYSTEMS (3)
Survey of the leading writers and research studies in the area of management systems. The course addresses methodologies, major theoretical developments and practical applications.

B AD 84275
STRATEGIC GLOBAL MANAGEMENT (3)
Explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today’s manager.

B AD 84277
ORGANIZATIONAL BEHAVIOR AND THEORY (3)
An examination of theory and research on individual and group behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design, feedback systems, group dynamics, power and teams.

B AD 84285
MANAGING HIGH TECHNOLOGY (3)
This course will cover tools and processes for anticipating and implementing high technologies to assure optimal return on investment for long-term competitive advantage.

B AD 84291
SEMINAR IN MANAGEMENT SYSTEMS (3)
Intensive investigation of selected topics in organization and strategic management. Student will be expected to undertake research on a topic determined in joint consultation with the instructor. Prerequisite: Permission of instructor.
ECON 52040
INTRODUCTION TO ECONOMETRICS (3)
Application of economic models, probability distributions, estimation, estimators, and regression and correlation as tools in economic analysis.

ECON 52045
MATHEMATICAL ECONOMICS (3)
Systematic exposition of mathematical techniques and their application to economic analysis. Among topics that may be covered are: sets, relations/functions, matrix algebra, differential and integral calculus and optimization techniques.

ECON 52065
PROBLEMS OF MONETARY AND FISCAL POLICY (3)
Analysis of objectives, techniques and economic effects of monetary and fiscal policies.

ECON 52068
INDUSTRIAL ORGANIZATION AND PUBLIC POLICY (3)
Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.

ECON 52076
ECONOMIC DEVELOPMENT (3)
Analysis of nature and significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.

ECON 52078
ECONOMIC HISTORY OF TECHNOLOGICAL AND INDUSTRIAL DEVELOPMENT (3)
Historical survey of major economic and technological developments in Western countries from the Middle Ages to the 20th century.

ECON 52080
REGIONAL ECONOMICS (3)
Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.

ECON 52081
URBAN ECONOMICS (3)
Application of economic principles to urban spatial patterns, economic development, and public policy in housing, transportation, pollution, welfare, etc.

ECON 52083
HISTORY OF ECONOMIC THOUGHT (3)
Economic thought from Mercantilist Period to early 20th century, especially emphasizing theories of Classical school, Marginalists, Marx and Neoclassicists.

ECON 52085
PUBLIC FINANCE (3)
Examination of public expenditure and taxation policies including the theory of public goods, collective decision making, cost-benefit analysis, equity and efficiency aspects of taxation and current government policy issues. Prerequisite: ECON 22060.

ECON 52086
ECONOMICS OF HEALTH CARE (3)
Overall objective is to use economic analysis to understand and evaluate what has and is happening to the health care profession and current health care policies under consideration. Topics include issues such as Medicare, health care reform, HMOs and increasing costs in health care. Prerequisite: ECON 62022 or equivalent.

ECON 52087
LAW AND ECONOMICS (3)
A study of the economic foundations of the legal system and the impact of legal systems on market behavior. Prerequisite: Permission.

ECON 52291
VARIABLE CONTENT SEMINAR IN ECONOMICS (1-4)
Various special seminars will be announced in the Schedule of Classes under this course number. Repeatable for a total of 12 hours. Prerequisite: Permission.

ECON 52293
VARIABLE TOPIC WORKSHOP IN ECONOMICS (1-6)
Various special workshops will be announced in the Schedule of Classes under this course number. Repeatable for a total of 18 hours. S/U grading. Prerequisite: Permission.

ECON 52295
SPECIAL TOPICS IN ECONOMICS (3)
Various special topics will be announced in the Schedule of Classes under this course number. Repeatable for a total of 9 hours. Prerequisite: Permission.

ECON 52297
VARIABLE TOPIC COLLOQUIUM IN ECONOMICS (1-3)
Various special colloquia will be announced in the Schedule of Classes under this number. Repeatable for a total of 9 hours. Prerequisite: Permission.

ECON 62010
SURVEY OF ECONOMICS (3)
Survey of basic economic concepts and methods of analysis of both micro- and macroeconomics. Emphasis is placed on the use and relevance of economic concepts and tools in business decision-making.
ECON 62015  
ECONOMICS OF INFORMATION (3)  
Introduction to micro-economic theory and decision-making and its applications to the information economy. Overview of the economics of information. Consumer behavior and production theory; the demand for information; information as a factor of production; information cost and pricing. Case studies in the information industry.

ECON 62021/B AD 72021  
BUSINESS CONDITIONS ANALYSIS AND PUBLIC POLICY (3)  
Analysis of forces determining economic growth, employment, inflation and international competitiveness, with emphasis on understanding the business cycle and government stabilization policies. Prerequisite: B AD 64005 (may be taken concurrently).

ECON 62022/B AD 72022  
MANAGERIAL ECONOMICS (3)  
Uses economic theory and quantitative methodologies to develop decision-making skills that enable managers of local, national and multinational companies to evaluate problems and allocate resources efficiently. Prerequisite: B AD 64005, and MATH 11012, MATH 12002 or ECON 62010.

ECON 62050/B AD 72050  
MICRO-ECONOMIC THEORY I (3)  
Comprehensive analysis of methodology of economics, consumer behavior, production and costs, the firm, markets and welfare economics. Prerequisite: ECON 62022 or equivalent. (It would be useful if the student had some facility in integral and differential calculus.)

ECON 62051/B AD 72051  
MACROECONOMIC THEORY I (3)  
Analysis of the determination of the level of income, employment, inflation, economic growth, consumption, investment, money demand and supply, the international sector, and economic policy are discussed. Prerequisite: ECON 62021 or equivalent; ECON 62022 or equivalent.

ECON 62054/B AD 72054  
ECONOMETRICS I (3)  
Introduction to problems and methods of the empirical estimation of economic relationships.

ECON 62055/B AD 72055  
ECONOMETRICS II (3)  
Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation. Prerequisite: ECON 62054.

ECON 62056/B AD 72056  
TIME SERIES ANALYSIS (3)  
Covers various linear and non-linear time series models, market risk and value at risk (VAR). Students will gain hands-on experience with all models learned in the course. This course uses advanced analytical software and hardware on the financial engineering trading floor. Prerequisite: Special approval of instructor.

ECON 62061/B AD 72061  
MONETARY THEORY AND POLICY (3)  
A study of the nature and definition of money, its relationship to prices, output, employment and interest rates, and problems related to the conduct of monetary policy. Prerequisite: ECON 62021 or equivalent.

ECON 62071/B AD 72071  
LABOR ECONOMICS (3)  
Theoretical and applied analyses of wage determination, the supply of skills, labor market discrimination, and the effects of trade unions and government policies. Prerequisite: ECON 62022 or equivalent.

ECON 62075/B AD 72075  
INTERNATIONAL TRADE (3)  
Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade, and the effects of international trade on domestic policy. Prerequisite: ECON 62021 or equivalent; and ECON 62022 or equivalent.

ECON 62076/B AD 72076  
INTERNATIONAL FINANCE (3)  
Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas and international capital flows. Prerequisite: ECON 62021 or equivalent.

ECON 62077/B AD 72077  
ECONOMIC PROBLEMS OF DEVELOPING AREAS (3)  
In-depth analysis of selected topics and issues in development economics. Prerequisite: ECON 52076 or permission.

ECON 62078/B AD 72078  
SEMINAR IN INTERNATIONAL ECONOMICS (3)  
Analysis of recent contributions and current problems in international trade and finance. Prerequisite: ECON 62075 and 62076 or permission.

ECON 62092  
INTERNSHIP IN ECONOMICS (3)  
Supervised practical experience in economics. Eligibility requirements available from the internship coordinator. S/U grading. Prerequisite: Admission to the M.A. in Economics program and permission.
ECON 62096
INDEPENDENT STUDY (1-3)
Independent study on a particular project or sequence of subjects. Maximum of 6 semester hours of work may be earned in independent study, although no more than 3 hours in any one semester. IP permissible. Prerequisite: Special approval.

ECON 62098
RESEARCH (1-15)
Research for master’s students. May apply toward degree requirements if approved in advance by department. Repeat registration permitted.

ECON 62180/B AD 72180
REGIONAL ECONOMICS (3)
Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.

ECON 62182/B AD 72182
PUBLIC EXPENDITURE AND COST BENEFIT ANALYSIS (3)
Theoretical and applied aspects of public expenditure and cost benefit analysis. Uses economic theory to appraise public expenditure alternatives in advanced and developing countries. Prerequisite: ECON 62022 or equivalent.

ECON 62199
THESIS I (2-6)
Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Permission of adviser.

ECON 62299
THESIS II (2-6)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ECON 62199.

ECON 64004/B AD 74004
QUANTITATIVE METHODS IN BUSINESS ADMINISTRATION I (3)
Introduction to fundamentals of matrix algebra, differential calculus and linear programming. Both algebraic and transcendental functions are included in discussion.

B AD 67024
SEMINAR IN APPLIED ECONOMIC ANALYSIS (3)
Discussion and analysis of selected current economic problems confronting the economy and the business sector. Emphasis will be on applied analysis.

Executive M.B.A. Program (B AD)

B AD 67007/77007
COMPUTER SYSTEMS — EMBA (2)
An introduction to the use of computers in business decision-making. Prerequisite for 67007: EMBA admission. Prerequisite for 77007: special approval.

B AD 67010/77010
EXECUTIVE COMMUNICATIONS — EMBA (2)
Analysis and practice of written, verbal and nonverbal communication skills as they apply to managerial and workgroup productivity and quality of work life.

B AD 77021/ECON 67021
BUSINESS CONDITIONS ANALYSIS AND FORECASTING — EMBA (2)
Presentation and analysis of the factors that determine real Gross National Product, employment and unemployment, and inflation, with emphasis on application and forecasting.

B AD 77022/ECON 67022
MANAGERIAL ECONOMICS — EMBA (2)
Analysis of managerial decision-making within the economic environment with emphasis on the firm’s economic decisions under different market and business conditions.

B AD 77031/77031
FINANCIAL REPORTING FOR EXECUTIVES — EMBA (2)
Study of basic principles, concepts and financial reporting for external users and the impact this will have on executive decisions.

B AD 77032/77032
ACCOUNTING INFORMATION FOR EXECUTIVE ACTION — EMBA (2)
Study of managerial decision-making through planning and control techniques. Major emphasis will be on profit planning, responsibility accounting, cost behavior patterns, and application of accounting data to basic planning and control decisions.

B AD 67040/77040
OPERATIONS MANAGEMENT — EMBA (2)
This course is designed for executives who have minimal experience with the production or operations phase of business. In this course, they will develop skill in defining operating problems, in identifying alternative solutions and selecting the most viable solution.

B AD 67041/77041
APPLIED STATISTICAL ANALYSIS — EMBA (2)
An analysis of univariate and multivariate statistical models and the use of these models to solve practical problems. A comparison of classical and neoclassical statistical approaches is also conducted.
B AD 67042/77042
MANAGEMENT INFORMATION SYSTEMS — EMBA (2)
Synthesis of computer/information technology organization behavior and functional aspects of business to enhance decision-making and strategic planning skills of the manager.

B AD 67043/77043
DYNAMICS OF LEADERSHIP FOR EXECUTIVES — EMBA (2)
Leadership skills including: team development, conflict resolution, negotiation, communications and project development. These skills along with ethical considerations are developed to enhance business decision-making. Prerequisite for 6/77043.

B AD 67051/77051
MARKETING MANAGEMENT — EMBA (2)
The various elements comprising marketing strategy are studied as components of integrated programs directed toward industrial and consumer markets.

B AD 67058/77058
MARKETING STRATEGY AND PLANNING — EMBA (2)
Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations.

B AD 67061/77061
FINANCIAL PLANNING AND STRATEGY — EMBA (2)
Problems and approaches to financial decision-making in business enterprises: controlling the allocation of funds among both current and fixed assets, assessing financial needs, and planning the mix and methods of financing.

B AD 67062/77062
MONEY AND CAPITAL MARKETS — EMBA (2)
Analysis and evaluation of the structure, functions and characteristics of domestic and international money and capital markets as the financing mechanism for business and non-business systems.

B AD 67070/77070
ORGANIZATIONAL ANALYSIS AND DESIGN — EMBA (2)
The course is concerned with the development of both theoretical and practical concepts related to complex work organizations.

B AD 67071/77071
HUMAN RESOURCE MANAGEMENT — EMBA (2)
The course will deal with some of the major areas of interest to the management of human resources. Special emphasis will be placed on areas of staff planning, such as job analysis and selection.

B AD 67082/77082
LEGAL AND SOCIAL IMPACT ON MANAGERIAL DECISION-MAKING — EMBA (2)
Managerial decision-making is examined in terms of the real and potential impacts of the legal, political and social environment of business.

B AD 67084/77084
MULTINATIONAL BUSINESS MANAGEMENT — EMBA (2)
The course covers the management of multinational corporations, including environmental and cultural aspects and the financial, marketing, production and personnel functions of international operations.

B AD 67085/77085
EXECUTIVE POLICIES AND PLANNING — EMBA (2)
The course concentrates on the determination of corporate strategy in the business firm and its implementation through appropriate organizational arrangements and procedures.

B AD 67090/77090
APPLIED RESEARCH DESIGN — EMBA (1)
Introduction to research design in management. The course deals with the applications of the scientific method to solving organizational problems with a decision-making context.

B AD 67091/77091
SEMINAR IN EXECUTIVE SKILLS DEVELOPMENT — EMBA (1-2)
A series of seminars developing managerial skills such as communications, leadership, teamwork, project and time management, etc. Offered primarily in first year of program.

B AD 67096/77096
APPLIED RESEARCH PROJECT — EMBA (3)
A research project based on an applied business or economic problem will be conducted under the direct supervision of a participating faculty member in the EMBA program.

B AD 67191/77191
SEMINAR IN CURRENT ISSUES FOR EXECUTIVE DEVELOPMENT — EMBA (1-2)
A series of seminars on current managerial, technological or economic problems facing the executive in today's society. Emphasis on global issues.

B AD 67291/77291
EMBA RESIDENCY SEMINAR (1-2)
A two- to three-day intensive introduction to basic concepts and integration of EMBA program content. Emphasis on group analysis and/or simulation.
B AD 66050
THE LEGAL AND ETHICAL ENVIRONMENT OF MANAGEMENT DECISIONS (3)
This course examines the impact that various laws and regulations as well as ethical considerations in society exert on the business managerial decision-making process.

B AD 66061/76061
FINANCIAL MANAGEMENT I (3)
Study of financial decision-making processes within a firm. Emphasis on applications and strategic planning in investment, financing, dividend and working capital decisions. Prerequisite: B AD 63037 and 63038; ECON 62021.

B AD 66062/76062
FINANCIAL MANAGEMENT II (3)
Advanced treatment of financial topics with focus on current issues of strategic importance. Case and project intensive. Prerequisite: B AD 6/76061.

B AD 66063/76063
FINANCIAL MARKETS AND INSTITUTIONS (3)
Study of money and capital markets and institutions and their managerial and environmental problems, including regulation and supervision by government. Prerequisite: B AD 6/76061.

B AD 66064/76064
INTERNATIONAL FINANCIAL MANAGEMENT (3)
Problems facing financial management of multinational firms including environmental problems, organizing for optimal results, sources and uses of funds, accounting, tax and control problems. Prerequisite: B AD 6/76061.

B AD 66065
COMMERCIAL BANK MANAGEMENT (3)
Application of financial concepts to management of commercial banks. Emphasizes decision-making and problem-solving techniques. Prerequisite: B AD 6/76063.

B AD 66066/76066
ADVANCED SECURITY AND INVESTMENT THEORY (3)
Integrated investment analysis with portfolio analysis and management. Coverage of the leading portfolio and capital asset models. Prerequisite: B AD 66061.

B AD 66067
RISK MANAGEMENT AND DERIVATIVES (3)

B AD 66069
REAL ESTATE (3)
A study of real estate valuation, financing, investment and brokerage. Emphasis is in both theoretical and pragmatic terms with regard to land use and development.

FIN 66075
LEGAL ASPECTS OF FINANCIAL ENGINEERING (3)
Coverage of the legal, regulatory and compliance aspects of derivative use and the current legal standing of derivatives and regulatory issues associated with derivatives. Issues of risk measurement and risk transparency of derivatives markets and disclosure issues are covered. Prerequisite: FIN 66080.

FIN 66080
DERIVATIVES I (3)

FIN 66081/76081
DERIVATIVES II (3)
Coverage of exotic options, discrete and continuous pricing models and pricing techniques. Develops the economic foundations of the theory of derivatives and a mathematical tool kit to analyze standard instruments and “dissect” exotic ones. Prerequisite: FIN 66080, B AD 66061.

FIN 66084/76084
FINANCIAL ENGINEERING (3)
Coverage of VaR, hedging techniques, synthetic assets and volatility trading. Risk management and risk control models are covered. Surveys, standard approaches to measuring and modeling financial risk from the risk manager perspective. Prerequisite: FIN 66080, B AD 66061.

FIN 66085/76085
FIXED INCOME MARKETS (3)
Provides a quantitative approach to fixed income instrument use. Covers the mathematics of bond pricing, term structure analysis and pricing of credit risk. Trees and Monte Carlo methods of evaluation are presented. Prerequisite: FIN 66080, B AD 66061.

B AD 86061
THEORIES OF FINANCIAL DECISION-MAKING (3)
Object is to discuss how individuals and firms allocate resources through time. Basic emphasis on optimal investment decisions under conditions of certainty and uncertainty.

B AD 86062
THEORY OF CORPORATE FINANCE (3)
A study of the theory and empirical evidence from a global perspective regarding corporate financial management. IP permissible.
B AD 86064
INTERNATIONAL FINANCIAL MARKETS, INSTITUTIONS AND MANAGEMENT (3)
This course presents an intense examination of the major global issues and underlying theories concerning the financial management of international business firms and the financial markets and institutions that facilitate such operations. Reading assignments will consist of the leading journal articles in this area. IP permissible.

B AD 86066
INVESTMENT THEORY (3)
A study of the theory and empirical evidence from a global perspective regarding investment analysis, valuation and portfolio selection. IP permissible.

B AD 86097
SEMINAR IN FINANCE (3)
An examination of selected current developments in the literature of finance.

B AD 86098
RESEARCH IN FINANCE (3)
Research area of current interest. This structured course is designed to enable the doctoral candidate to complete an acceptable dissertation proposal in the field of finance.

Marketing (B AD)

B AD 65050/75050
MODERN ENTREPRENEURIAL MANAGEMENT (3)
Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies. Prerequisite for 6/75050: Completion of 24 credit hours of business administration (B AD) courses and special approval.

B AD 65051/75051
MARKETING MANAGEMENT (3)
Analysis of marketing management at a level appropriate to students with limited background in the subject. Course encompasses lecture discussion, problems, and cases.

B AD 65053/75053
 PROMOTION MANAGEMENT (3)
All elements of the promotional mix — advertising, sales, promotion, publicity, public relations and personal selling — will be considered as part of an integrated communications strategy. Primary emphasis will be placed on advertising. A comprehensive set of analytical frameworks will be developed covering a range of topics from the firm’s marketing strategy to the message strategy embodied in a single advertisement. These analytic frameworks will be applied to a series of case studies throughout the course. Prerequisite: B AD 65051.

B AD 65054/75054
INTERNATIONAL MARKETING
This course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm. Prerequisite: BAD 6/75051.

B AD 65057/75057
MARKETING RESEARCH (3)
Examination of the research process as applied to decision-making. Course focuses on steps in problem formulation, the research process, application of techniques, and basic data analysis using SPSS-PC. Prerequisite: B AD 65051.

B AD 65060/75060
MARKETING STRATEGY AND PLANNING (3)
Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations. Prerequisite: B AD 65051.

B AD 65063/75063
ANALYTICAL METHODS IN MARKETING RESEARCH (3)
Application of statistical techniques in marketing research. Prerequisite: B AD 6/74003 and 6/75051.

B AD 65064/75064
BUYER BEHAVIOR (3)
An analysis of the concepts of buyer/consumer behavior, focusing on the behavioral sciences theories underlying marketing models and their application to marketing strategies. Prerequisite: B AD 6/75051.
B AD 65066/75066
MARKETING THEORY (3)
Examination of the evolution of marketing thought and philosophy of science concepts as the foundations for evaluating theoretical constructs in marketing. Prerequisite: 6/75051.

B AD 65068/75068
MARKETING STRATEGY AND PLANNING FOR NONPROFIT ORGANIZATIONS (3)
Focuses on the development and implementation of marketing plans in the private and public nonprofit organizations. Prerequisite: B AD 6/75051.

B AD 65184/75184
INTERNATIONAL BUSINESS (3)

B AD 85057
MARKETING RESEARCH (3)
Focuses on the construction of a conceptual framework; the design of an experiment/sampling plan; data collection methods and the application of statistical techniques. IP permissible.

B AD 85063
ANALYTICAL METHODS IN MARKETING RESEARCH (3)
Application of multi-variant statistical techniques in marketing research. IP permissible.

B AD 85064
BUYER BEHAVIOR (3)
An analysis of extant and emerging theories, models and concepts of buyer/consumer behavior and their development and testing. IP permissible.

B AD 85066
MARKETING THEORY (3)
The central objective of the course is to develop the doctoral student’s background in marketing theory, theory construction and the creation of marketing knowledge. IP permissible.

B AD 85091
ADVANCED INTERNATIONAL MARKETING SEMINAR (3)
This course covers the theoretical research development of the field of international marketing. IP permissible.

B AD 85097
SEMINAR IN MARKETING (3)
Investigation of selected topics in marketing.

B AD 85098
RESEARCH IN MARKETING (3)
Designed to assist students in developing dissertation topics or to provide an opportunity to study material or topics not covered elsewhere in the program.

Advanced Independent Coursework (B AD)

B AD 60092/70092
INTERNERSHIP (3)
Practical experience with a commercial or nonprofit organization under the guidance of a professor who is a member of the graduate faculty. Periodic progress reports are required with a graduate-level-quality paper and possible presentation at the end of the course. Prerequisite: Special approval.

B AD 60093/70093
VARIABLE TITLE WORKSHOP (1-6)
Workshops on selected business administration subjects designed to meet needs of special groups. S/U grading.

B AD 60095
SPECIAL TOPICS IN BUSINESS ADMINISTRATION (1-3)
In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest. Repeat enrollment for different topics permitted.

B AD 60096
INDIVIDUAL INVESTIGATION (2-3)
For M.B.A., M.S. or M.A. candidates who have completed a minimum 12 hours of work of superior quality, with permission of the director, Graduate School of Management. Prerequisite: Special approval.

B AD 60098
RESEARCH (1-15)
Research or individual investigation for master’s-level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

B AD 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

B AD 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: B AD 60199.

B AD 61093/71093
WORKSHOP IN COLLEGE TEACHING (1-2)
A series of seminars devoted to enhancing doctoral students’ teaching abilities. This course is open to all doctoral students but is intended for students newly enrolled in the program. S/U grading.
B AD 61094/71094
COLLEGE TEACHING (1-2)
Training, supervision and evaluation in college-level
instruction. Maximum of 2 hours applicable toward degree.
S/U grading. Repeat registration permitted.

B AD 70198
RESEARCH (1-15)
Research or individual investigation for doctoral-level students,
or master's students with at least 34 hours of graduate
coursework.

B AD 80091
DOCTORAL SEMINAR (1)
A continuing seminar for all students in the Ph.D. program that
cuts across all areas of functional specialization. Prerequisite:
Admission to Ph.D. program.

B AD 80098
RESEARCH (1-3)
Research or individual investigation for doctoral students who
have not yet passed their candidacy examination. Usually
research applied toward dissertation. Prerequisite: Ph.D.
standing, permission.

B AD 80199
DISSERTATION I (10-15)
Doctoral dissertation for which registration in at least
two semesters is required, first of which will be semester
in which dissertation work is begun and continuing until
the completion of 30 hours. S/U grading; IP permissible.
Prerequisite: Special permission.

B AD 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who
have completed the initial 30 hours of dissertation and
continuing until all degree requirements are met. S/U grading;
IP permissible. Prerequisite: B AD 80199.
The College of Communication and Information consists of four schools whose missions share complementary concerns and emphasize different aspects of communication and information theory, research, use and practice. They all focus on scholarly investigations regarding the elements and means of creating, managing, using and evaluating messages, and on information components and processes that underpin communication interaction.

The college includes graduate programs in each of the four schools as well as housing the interdisciplinary M.A. program in Information Architecture and Knowledge Management and the Ph.D. program in Communication and Information.

Master Degree Programs

Master's degree programs are available in each of the following disciplines:

- Communication Studies (M.A.)
- Information Architecture and Knowledge Management (M.S.)
- Journalism and Mass Communication (M.A.)
- Library and Information Science (M.L.I.S.)
- Visual Communication Design (M.A., M.F.A.)

Information regarding individual graduate programs is provided on the following pages. Prospective students may obtain more information by visiting http://www.kent.edu/cci or by contacting the individual schools.

Application for admission is made to the College of Communication and Information. In addition to regular application requirements of the university, admission to the Doctor of Philosophy program requires the following:

- A minimum 3.3 (A=4.0) graduate (GPA above 3.5 recommended) and 3.0 undergraduate grade point average.
- Completion of the academic requirements of a master's degree in communication.
- Satisfactory scores on the Graduate Record Examination.
- Superior letters of recommendation from those in the position to evaluate graduate academic performance and potential.
- Academic goals that are compatible with the focus of the school's graduate program.

International students must also achieve a minimum score of 600 on the TOEFL examination. Applicants for the Ph.D. program are normally expected to have completed a thesis in their master's program.

PROGRAM REQUIREMENTS

A typical Ph.D. program contains 45 semester hours of graduate credit beyond the master's degree. Core courses include COMM 75000 for those who have not completed a master's thesis, COMM 75020, 75060, 75652 and 75794 for those with graduate assistantships.

The doctoral program is flexibly structured. It is designed to provide both a broad core of knowledge about communication theory and research and individualized concentrations in communication. In consultation with their advisor and the Graduate Studies Committee, students develop an approved program of study to match their interests once they have completed 8 credits in the doctoral program.

Doctoral students are expected to have satisfactorily completed a master's-level course in social and behavioral research methods. As part of their doctoral coursework, they are also expected to complete research and statistics courses appropriate to their programs of study. There is no universal foreign language requirement for the doctoral degree in communication studies.

CANDIDACY

To achieve candidacy, doctoral students must write a satisfactory preliminary paper, complete a 10-hour written and two-hour oral comprehensive examination, and meet a two-semester residency requirement.

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.
CCI 50095
SPECIAL TOPICS IN COMMUNICATION AND INFORMATION
(1 TO 3)
Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

CCI 60095/80095
SPECIAL TOPICS IN COMMUNICATION AND INFORMATION
(1 TO 3)
Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.
The School of Communication Studies offers programs of graduate study leading to the Master of Arts degree. The M.A. degree program is intended to provide a broad spectrum of knowledge about human communication. It is intended for those who wish to continue graduate study in communication beyond the master's level, to teach at the secondary, community college or small-college level, to continue preparation for professional careers, or to prepare for nonacademic careers in which a broad understanding of communication theory and research is desirable.

The M.A. program focuses on the social and behavioral study of communication theory and research. Students may pursue work in health, instructional, interpersonal, mediated, organizational, mass and public communication, and new technologies/social informatics.

For more information, visit the school's Web site at http://www.kent.edu/comm.

For additional studies beyond the M.A. degree, refer to the CCI PhD program description under the general CCI graduate studies information.

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**Courses (COMM)**

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

**COMM 55007**

FREEDOM OF SPEECH (3)

Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and sociolegal-rhetorical issues.

**COMM 55095/75095**

SPECIAL TOPICS (1-4)

Offered when resources permit a topic different from existing courses. Topic will be announced when scheduled.

**COMM 55459**

COMMUNICATION AND CONFLICT (3)

Examination of issues related to managing conflict in communication. Critique and synthesis of conceptual approaches and research pertaining to conflict in interpersonal, organizational and public communication settings.

**COMM 55960**

HEALTH COMMUNICATION (3)

Examines communication processes and research related to health and health care from the perspectives of public, professional and primary.

**COMM 65000/75000**

FOUNDATIONS OF COMMUNICATION INQUIRY (3)

Philosophy of science, epistemological and theory construction principles, which are the foundation of inquiry into the process of communication.
COMM 65020/75020
QUANTITATIVE RESEARCH METHODS IN COMMUNICATION (3)
An examination of basic quantitative social scientific research methods and procedures for the study of communication.

COMM 65040/75040
QUALITATIVE RESEARCH METHODS IN COMMUNICATION (3)
Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data, participant-observation and archival strategies of data collection, and interpretive and interactionist approaches to data analysis.

COMM 65060/75060
COMMUNICATION MEASUREMENT AND ANALYSIS (3)
A survey of self-report, observational and psychological instruments used in communication research. Uses of the computer in analyzing data obtained in communication research.

COMM 65091/75091
SEMINAR IN PERSUASION (3 OR 4)
Examination of selected areas of persuasion research. Emphasis on synthesizing research results and formulating explanatory models of persuasive behavior. Prerequisite: Permission.

COMM 65093/75093
VARIABLE TITLE WORKSHOP IN COMMUNICATION (1-6)
Variable topic workshop in communication studies.

COMM 65096/75096
INDIVIDUAL INVESTIGATION (1-6)
Independent study of area or problem to be selected in consultation with graduate staff. May be repeated for maximum of 6 credit hours. S/U grading; IP permissible.

COMM 65591/75591
SEMINAR IN SMALL GROUP COMMUNICATION (3 OR 4)
Research theories and findings in small group communication. Prerequisite: COMM 35550 or permission.

COMM 65652/75652
THEORIES OF COMMUNICATION (3)
Introduction to approaches in the study of human communication. Focuses on differing views of interaction, from theory-building and research-generation perspective.

COMM 65655/75655
NONVERBAL COMMUNICATION (3)
Examination of a range of nonverbal functions including: relationship development, immediacy and deception. Emphasis on research and theory.
Communication Studies

COMM 65791/75791
SEMINAR IN INSTRUCTIONAL COMMUNICATION (3 OR 4)
Intensive study of selected problems in instructional communication.

COMM 65794/75794
TEACHING OF COLLEGE COMMUNICATION (2-4)
Training and experience in college teaching. Maximum of 3 hours applicable toward master’s degree requirements. Letter grade or S/U grading is given at department’s option.

COMM 65851/75851
ORGANIZATIONAL COMMUNICATION (3)
Structure, methodology and application of communication theory in industrial and organizational settings.

COMM 65891/75891
SEMINAR IN ORGANIZATIONAL COMMUNICATION (3 or 4)
Theories and problems of human communication within, between and/or among formal organizations.
Prerequisite: Permission.

Research, Thesis, and Dissertation

COMM 55093/75093
VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES (1-6)
S/U grading.

COMM 60199
THESIS I (2-6)
Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

COMM 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: COMM 60199.

COMM 65098
RESEARCH (1-15)
Research or individual investigation for master’s-level graduate students. Credits may be applied toward degree requirements if school approves. Repeat registration permitted. S/U grading; IP permissible.

COMM 80199
DISSERTATION I (15)
Doctoral dissertation for which registration in at least two semesters is required, first of which will be the semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible.

COMM 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: COMM 80199.

COMM 85098
RESEARCH (1-15)
Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if school approves. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: Admission to doctoral study.
INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Thomas J. Froehlich, Program Director
316 Library
330-672-5840
tfroehli@kent.edu
http://iakm.kent.edu

Master of Science

The Master of Science degree in Information Architecture and Knowledge Management (IAKM) is an interdisciplinary degree that provides opportunities for students interested in graduate studies and research in the broad range of information-related disciplines and professions. The program rests on a set of core courses that provide a broad and solid foundation for specialized work in these three concentrations.

- Health Information Management
- Knowledge Management
- User Experience Design

Through these concentrations the program offers focus and flexibility for students to fashion a course of study that suits their interests and career objectives. This flexibility is essential to the nature of the program because of the transdisciplinary character of information, the emerging and evolving roles for information professionals, and the rapid and dynamic growth of information technologies, products, systems, services and networks. The major faculties contributing to the degree are the:

- School of Communication Studies
- Department of Computer Science
- School of Journalism and Mass Communication
- School of Library and Information Science
- Graduate School of Management
- School of Visual Communication Design

While information architecture and knowledge management have emerged as fields of study and career concentrations, their use in the degree title is intended to designate significant points on a spectrum of current and emerging information and knowledge professions and to draw upon and balance the strengths of the participating disciplines.

As a new career path surfaces, IAKM works to develop curriculum to meet its demands. The current options for study in IAKM reflect the current needs in the professional landscape with concentrations in Health Information Management (HIM), Knowledge Management (KM), and User Experience Design (UXD). Health information management sets standards for electronic health records, facilitates the rapid evolution from paper-based to electronic records and the integration of hospital, patient, and physician systems. Knowledge management is a discipline that turns an organization’s intellectual assets, including its recorded information, its memory, and the expertise of its employees into greater productivity and increased competitiveness. User Experience Design involves the use of information architecture and interaction design to create a user experience that helps information seekers solve their information needs efficiently and effectively, primarily in web-based environments, but also through emerging technologies. For more detailed information on health information management, knowledge management, and user experience design in IAKM, visit the Web site at http://iakm.kent.edu.

All students are required to take a two course, 6-credit hour core that will provide students with an overview of the information-related professions, their challenges and competencies and of intellectual technologies, such as knowledge organization systems and services. It will also highlight the collaboration of intellectual technologies with information technologies, the importance of the user perspective and professional standards.

The Master of Science degree is offered in these three concentrations.

- Health Information Management
- Knowledge Management
- User Experience Design

Health Information Management

Health Information Management (HIM) is a strategically important profession. It has evolved from data management to information and knowledge management. HIM professionals are valued as individuals who support clinical decision-making as well as research and administration. The roles of HIM professionals are considerable: standards setting for electronic records; educators for patients, providers and administrators about health records issues; consumer advocates for patients; systems and data experts; advocates for records quality and standards compliance; information specialists who provide health information for those who need it; and data analysts for research, auditing, quality assessment, risk and costs assessment. They are concerned with the: collection, storage, coding, processing, analysis, interpretation, application, privacy and sharing of health information as well as the transformation of health records from paper to electronic forms, and the integration of administration, patient and physician systems so as to conform to professional standards and federal and state
Information Architecture and Knowledge Management

regulations, such as HIPPA.

Knowledge Management

The concentration in Knowledge Management (KM) is intended for students with interest in knowledge management activities in organizations. Knowledge management is a discipline that takes a comprehensive, systematic approach to the information assets of an organization by identifying, capturing, collecting, organizing, indexing, storing, integrating, retrieving, and sharing them. Such assets include intellectual capital, employee expertise, business and competitive intelligence, and organizational memory. It strives to make the collective knowledge, information and experiences of the organization available to individual employees or organizational groups for their use and to motivate them to contribute their knowledge to the collective assets. It seeks to create or identify communities of practice or interest, especially to identify lessons learned and best practices.

User Experience Design

User Experience Design (UXD) embraces a variety of components: information architecture, interaction design, visual design and usability studies. Information architecture provides insight on such issues as the organization of information, navigation and labeling systems and project management for web sites. Interaction design focuses on the facilitation of the dialog and engagement of the user with an information of communication technology system or interface. Visual design provides expertise on the organization and deployment of graphics and other visual components for efficient and effective communication. Usability studies analyzes users and their needs and assesses the actual effectiveness of specific systems and interfaces. UXD orchestrates these components for a cohesive, coherent user experience in an information environment that has become increasingly richer and more sophisticated, with new forms of technologies (e.g. mobile devices) and with new interaction capabilities (e.g. multi-touch interfaces).

The degree is administered by the School of Library and Information Science. Students can apply through the Office of the Master of Science Program in Information Architecture and Knowledge Management or online at www.kent.edu/admissions/graduate/index.cfm

ADMISSION

In addition to the regular application requirements of the university, admission to the Master of Science degree program in IAKM requires the following:

- a minimum undergraduate grade point average of 3.0 (A=4.0).
- three letters of recommendation from those in a position to evaluate academic performance and graduate potential.
- a resume.
- a statement of purpose about how the program will realize the applicant's career and/or research goals.

An applicant's record and experience will be assessed with respect to computer literacy. If the level of literacy does not appear adequate to the demands of the core course of study, the applicant's advisor will suggest workshops, courses or other appropriate methods to remedy significant deficiencies. Credits for workshops or courses for satisfying such background requirements will not apply to the degree.

PROGRAM REQUIREMENTS

A minimum of 42 credit hours in accordance with the program plan is required for the degree. A five-course, 15-credit core is required of all students.

Core Courses: Hours
IAKM 60001 ......................................................3
IAKM 60002 ......................................................3

Students are expected to take five required courses in the area of their concentration and six elective courses whether in their own area of concentration or from any of the other concentrations (assuming the prerequisites are satisfied for specific elective course) or from other appropriate courses in the university, for a total of 33 credits. These elective courses may include courses from related disciplines, but they should be chosen so as to form a coherent course of study and must be approved by the Program Director. Students are encouraged to complete the core as much as and as soon as possible before working on their concentration. To complete the Master of Science, students must submit one of these:

- A Thesis (6 credits)
- Master’s Project (3 credits)
- Capstone Experience (3 credits)

Students expecting to pursue doctoral study or research should choose the Thesis option. Students seeking professional employment should take the Master’s Project or Capstone Experience. Students are expected to develop a course of study in conjunction with their advisor that will realize their career objectives.
### Information Architecture and Knowledge Management

**CONCENTRATION IN HEALTH INFORMATION MANAGEMENT**

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**Elective Courses**

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Courses from other concentrations or approved courses from participating disciplines: BAD, COMM, CS, JMC, VCD.

**CONCENTRATION IN KNOWLEDGE MANAGEMENT**

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**CONCENTRATION IN USER EXPERIENCE DESIGN**

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Courses from other concentrations or approved courses from participating disciplines: BAD, COMM, CS, JMC, LIS, VCD.

Based on the student’s education and/or experience, and with appropriate and adequate evidence, he/she may petition to substitute one or more of the core courses with electives. Courses equivalent to the core may be submitted with the approval of the Program Director and the student’s advisor. Cognate and elective courses in related departments must be selected and approved by the Program Director and the student’s advisor.

### Multiple Degrees Option

Students can concurrently pursue the Master of Arts in Journalism and Mass Communication and Master of Science in Information Architecture and Knowledge Management or a Master of Library and Information Science and a Master of Science in Information Architecture and Knowledge Management. Students apply to both the master’s program in Information Architecture and Knowledge Management and to the School of Journalism and Mass Communication or to the School of Library and Information Science. Each program or school makes an independent admission decision. If approved for admission by both the program and the school, students may doubly count up to 28 credits for each degree, although, based on the combination of the concentrations taken in each degree, the actual number will range from 12 to 28.

Many job opportunities in Library and Information Science require a Master of Library and Information Science degree from an accredited school of library and information science. The Master of Library and Information Science enjoys such accreditation from the American Library Association (ALA). However, students may find that their IAKM skills could be applied in a library or information center. For them to secure jobs more easily in such settings, an ALA-accredited degree is almost always demanded. In addition, courses in the IAKM program will provide enhanced employment options and a more diverse education that will allow them to pursue jobs beyond the traditional settings for students in Library and Information Science.

Similarly, students working on a master’s degree in Journalism and Mass Communication may also wish to seek traditional careers for majors in Journalism and Mass Communication, such as newspaper reporters, editors or media managers. Having a master’s degree in this area would provide clear credentials for these jobs. Having the multiple degrees will provide additional and enhanced skills and additional employment opportunities.
Certificate in Knowledge Management

The certificate in Knowledge Management provides essential knowledge and skills about knowledge management to interested information professionals, delivered primarily in online mode. It is designed for information professionals who, whether by time or distance or job commitments, cannot come to the Kent campus for on-site instruction. Admission requirements are the same as for the full degree. Students must complete 18 credits for the certificate program, typically six 3-credit courses, three of which are required including IAKM 61096 Individual Investigation or IAKM 61081 Capstone experience.

Required Courses: (9 hours)

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Certificate in User Experience Design

The certificate in User Experience Design provides competencies and knowledge in information architecture, interaction design, usability, and other areas relevant to designing information-rich user experiences. Admission requirements are the same as for the full degree. Students must complete 18 credits for the certificate program, typically six 3-credit courses, three of which are required including IAKM 61096 Individual Investigation or IAKM 61081 Capstone Experience.

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Students working on either certificate are permitted to enroll in the full program and can use the courses taken to apply to the Master’s degree. Students electing to enter the full degree program should use the Master’s Project, Thesis, or Capstone Experience options to fulfill the third requirement rather than the Individual Investigation which may be useful for those students earning the certificate only.

Courses (IAKM)

The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.

IAKM 60001
INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT IN CONTEXT (3)
Overview of the Information Architecture and Knowledge Management (IAKM) program and its concentrations. Basic skills and understandings in information literacy, organization of knowledge, information sources and searching. Information sciences, systems, and professionals in the information society.

IAKM 60002
KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES (3)
Introduction to various types of knowledge organization systems/services/structures (KOS) used in the networked environment. Understanding of the functional, philosophical, logical and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the thesaurus, taxonomy and ontology construction.

IAKM 60101
INFORMATION ARCHITECTURE (3)
Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and designing information architectures. Major topics include organization, navigation, labeling, search and other core IA concepts. Students learn to create blueprints, wireframes, process flows and other documents used to communicate an information architecture design.

IAKM 60102
INFORMATION AND VISUAL DESIGN (3)
This course provides a cultural and technological context for understanding the information design process. Topics include: basic design and typographic principles, aesthetics and information design, functional integration of visual and verbal elements, creation and use of information graphics, visualization of quantitative information, and visual navigation systems.

IAKM 60103
RESEARCHING THE USER EXPERIENCE (3)
Design research seeks to understand user needs, goals and tasks. Deals with research methods for human-centered design of information-rich artifacts and experiences. Covers interviews, surveys, diary studies and other methods applicable to the formative stages of the design process. Students learn to distill research findings into audience segments, user profiles, personas, scenarios and other documents that model user behavior.
IAKM 60104
USABILITY I (3)
Provides a conceptual and practical overview of the processes and methods of usability testing, such as Think Aloud protocols, performance measurements and eye-tracking analysis. Actual usability testing is performed, using quantitative and qualitative methods and employing current and emerging software tools to facilitate data collection and analysis.

IAKM 60105
INFORMATION TECHNOLOGIES
This course covers four aspects of information technology: essential technology concepts, the making of software, the social consequences of information technology and the role of non-programmers in technology design. Topics include operating systems, networks, search engines, markup languages, social software, dynamic languages, cloud computing, open source software, technology trends and the history of computing.

IAKM 60110
CONTENT MANAGEMENT SYSTEMS (3)
This course provides an overview of the concepts and practices of Content Management (CM) and Content Management Systems (CMS), including understanding the parts and branches of a CMS, criteria for selecting a CMS, CMS configuration, and evaluating and implementing CMS software. Prerequisite: IAKM 60105.

IAKM 60111
ONLINE BRANDING (3)
This course will focus on the strategies needed to advance brands through effective online experiences including Web sites, intranets, extranets and emerging web technologies. Students will also learn how to extend the brand through personalization, localization and other segmentation techniques.

IAKM 60112
ADVANCED INFORMATION ARCHITECTURE (3)
Web site design from emerging directions, such as the separation of content from presentation, with e.g., the use of Cascading Style Sheets (CSS) for formatting web-based documents. The course includes considerations of making web sites compliant with federal regulations or other standards and validation for various markup guidelines. Prerequisites: IAKM 60101.

IAKM 60113
USER AND TASK ANALYSIS (3)
In order to design and develop effective user interfaces, task analysis process and theory are explored and applied via principles drawn from anthropology, ethnography, cognitive psychology, document and instruction systems design and market research. Practical techniques and methodologies are presented to improve interface design through all phases of the design process. Prerequisites: IAKM 60101 and 60103.

IAKM 60114
USABILITY II (3)
Provides students with an understanding of qualitative and quantitative research methods appropriate for conducting advanced studies of human interaction with computers. In addition, students learn how to evaluate, purchase, implement and operate equipment for usability labs in a manner consistent with research methods. Prerequisites: IAKM 60104.

IAKM 60301
FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT (3)
This course covers an introduction to: historical roots for knowledge and knowledge management; theories/definitions of knowledge; theories, applications, tools, and practices of KM; Knowledge Management Life-Cycle Framework and Models; significant issues in KM – best practices, culture, economics, strategy, intellectual capital, sustainable innovation.

IAKM 60302
DOCUMENT AND RECORDS MANAGEMENT (3)
This course provides principles, projects, and practices for organizational memory management that includes document, records, media, e-mail and enterprise content management with concerns for strategy, compliance, policy, security and workflow.

IAKM 60303
KNOWLEDGE MANAGEMENT IN ORGANIZATIONS (3)
Implementation strategies for human resources, organizational processes and technology are explored. The organizational knowledge management activities of knowledge acquisition, generation, formalization, deployment, utilization, measurement and evaluation are presented.

IAKM 60304
RESEARCH METHODS FOR KNOWLEDGE MANAGEMENT (3)
This course provides a broad overview of the use of qualitative methods in knowledge management, including an examination of the process of conducting qualitative research from conceptualization, design, data collection, articulation, and preliminary implementation. Critical thinking, analysis, and writing skills are emphasized.

IAKM 60310
INTELLECTUAL CAPITAL MANAGEMENT (3)
This course encompasses the new knowledge-intensive economic units: human capital and social capital intellectual assets, intellectual property, brands, and trademarks. A “lifecycle” approach for intellectual assets is described—creation, codification, valuation, protection, and leveraging of intellectual assets for competitive advantage. Prerequisites: IAKM 60301, IAKM 60302.
Information Architecture and Knowledge Management

IAKM 60311
BUSINESS PROCESS MANAGEMENT (3)
Introduction to Business Process Management and Workflow Management. BPM will describe how organizational business processes, (internal, external, manual and automated), can be transformed and managed to increase efficiency, effectiveness and positively affect performance. Topics include the discovery, analysis, modeling and automation of workflow processes. Prerequisites: IAKM 60301, IAKM 60302.

IAKM 60312
BUSINESS INTELLIGENCE - COMPETITIVE INTELLIGENCE (3)
An introduction to strategic intelligence consisting of competitive and business Intelligence. Strategic intelligence is an art, science, and craft. Businesses and governments require effective intelligence programs, processes, and tools to track businesses, competitors, markets and trends by acquiring, creating, managing, packaging, and disseminating intelligence knowledge. Prerequisites: IAKM 60301, IAKM 60302.

IAKM 60313
STRATEGIC KNOWLEDGE MANAGEMENT - VIRTUAL COMMUNITIES (3)
Strategic Knowledge Management as it manifests in Virtual Communities: Communities-of-Practice (COPs) and Communities-of-Interest (COIs). Areas covered include: trust, facilitation of virtual communities, leadership and emotional intelligence in a virtual environment, social network analysis, and supporting learning communities with collaborative tools. Prerequisites: IAKM 60301, IAKM 60302.

IAKM 60401
HEALTH INFORMATION MANAGEMENT (3)
Covers the areas encompassing Health information management including the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (HIT).

IAKM 60402
LEGAL ISSUES IN HEALTH INFORMATION MANAGEMENT (3)
Introduction to the fundamentals of law for Health Informatics and Information Management. Elements of the course include general legal principles and healthcare; legal electronic medical records (EMR); Health Insurance Portability and Accountability Act (HIPAA) privacy rules and security rules; access, requests and disclosure of health information; required reporting and mandatory disclosure laws; risk management and quality improvement; compliance; workforce overview; related ethics and social issues.

IAKM 60403
HEALTH INFORMATION SYSTEMS (3)
Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.

IAKM 60410
HEALTH RECORDS MANAGEMENT (3)
Conceptual foundations and practicum for health records management, including the planning, implementation and operation of electronic medical records (EMR); the management of EMR in management and enterprise systems; identifying, selecting and evaluating EMR and health information systems, applications, and repositories; and issues of data quality, integrity, migration, and interoperability.

IAKM 60691
SEMINAR IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT (1-3)
Advanced research by small groups of students who are qualified to examine problems of certain special areas in information architecture, information usability or knowledge management.

IAKM 60692
PRACTICUM IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT (2-3)
Supervised work experience in information architecture, information use or knowledge management of a professional nature of not less than 100 clock hours with directed readings and preparation of a paper. Not repeatable. IP permissible. Prerequisite: Special approval.

IAKM 60693
VARIABLE TITLE WORKSHOP INFORMATION ARCHITECTURE, INFORMATION USE OR KNOWLEDGE MANAGEMENT (1-3)
Intensive examination of special topics of interest to those involved in information architecture, information use or knowledge management. Maximum number of workshop credits for the MS-IAKM degree is 4 semester hours. S/U grading.

IAKM 60792
INTERNSHIP IN INFORMATION ARCHITECTURE, INFORMATION USE OR KNOWLEDGE MANAGEMENT (1-3)
Supervised work experience of an advanced professional nature that concentrates on developing skills in Information Architecture, Information Use or Knowledge Management. IP permissible. Prerequisite: Director’s approval.
Information Architecture and Knowledge Management

IAKM 61081
CAPSTONE EXPERIENCE (3)
Provides students the opportunity to integrate their knowledge from all IAKM courses and experiences, interact with other IAKM students who may have different perspectives, and make connections with real-world problems through a guided, project-based, collaborative culminating experience. Prerequisite: IAKM 60001, IAKM 60002 and special approval.

IAKM 61095
SELECTED TOPICS IN INFORMATION ARCHITECTURE, INFORMATION USE OR KNOWLEDGE MANAGEMENT (1-3)
Offered irregularly as resources and/or opportunities permit. Topics could include current or emerging issues in information architecture, information usability or knowledge management. Specific topics will be announced in the Schedule of Classes.

IAKM 61096
INDIVIDUAL INVESTIGATION IN INFORMATION ARCHITECTURE, INFORMATION USE OR KNOWLEDGE MANAGEMENT (1-3)
Research or individual investigation for master’s-level students. Maximum credit per registration: 3 hours. Maximum credit towards master’s degree: 6 hours. IP permissible. Prerequisite: Special approval.

IAKM 61098
MASTER’S PROJECT (3)
Provides a means for the application of the knowledge, research and competencies learned through study in the Information Architecture and Knowledge Management Program to the development of an information system, product, setting or service. Not repeatable. S/U grading; IP permissible. Prerequisite: IAKM 60001, 60002, and special approval.

IAKM 61199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: IAKM 60001, IAKM 60002.

IAKM 61299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: IAKM 60001, IAKM 60002, IAKM 61199.
The Official Seal of Kent State University designates that this catalog is an official University document of record for academic information and policy.

Journalism and Mass Communication

JOURNALISM AND MASS COMMUNICATION

Jeffrey W. Fruit, Director
201 Franklin Hall
330-672-2572
jfruit@kent.edu

Evonne Whitmore, Coordinator of Graduate Studies
201 Franklin Hall
330-672-8304
ewhitmor@kent.edu

The School of Journalism and Mass Communication offers professionally oriented graduate study in Journalism and Mass Communication and public relations leading to the Master of Arts degree. This program prepares students for careers in a multi-platform media marketplace characterized by free enterprise and freedom of expression.

The Reporting/Editing concentration allows students to select from these options:

- Convergence
- Journalism Education
- Broadcast
- Magazine
- Newspaper

The public relations and media management concentrations are designed primarily for students with professional media experience who desire to move into PR or management positions. For those with strong professional backgrounds, an individualized program of study is also available.

The degree program is designed to provide professional preparation and enhancement both for students who have undergraduate degrees and/or professional experience in journalism and mass communication and those without such background and experience. While the emphasis of the program is professional, students who wish to structure their M.A. program to provide a foundation for future study of journalism and mass communication at the doctoral level may do so by completing a thesis as the capstone requirement.

Information on the program and on application procedures is available from the Coordinator of Graduate Studies, School of Journalism and Mass Communication or by visiting the School’s Web site at http://www.jmc.kent.edu.

Master of Arts

ADMISSION

In addition to regular application requirements of the university, admission to the Master of Arts program requires:

- a minimum 3.0 (A=4.0) undergraduate grade point average.
- three recommendations.
- submission of scores on the Graduate Record Examination (GRE).
- submission of a statement of purpose.
- resume.

GRE scores may be waived for significant professional experience as determined by the graduate studies committee.

PROGRAM REQUIREMENTS

Students must successfully complete a minimum of 36 semester hours of graduate credit. All students complete a common core of conceptual courses in addition to required professional courses for each concentration. Approved electives include theoretical, conceptual and professional courses in journalism and mass communication. Electives from other academic units of the university may be approved through consultation with the student’s academic adviser.

Students choose among master’s professional project, thesis and comprehensive exam options in meeting their capstone requirement.

Public relations students have the option of completing a 450-hour internship/practicum in lieu of the master’s project. Students without journalism and mass communication backgrounds and/or professional experience will be required to complete basic skill-building prerequisite coursework before beginning their graduate programs.

Multiple Degrees Option

Students can concurrently pursue the Master of Arts in Journalism and Mass Communication and the Master of Science in Information Architecture and Knowledge Management. Each program makes an independent admission decision. If approved for admission by both the program and the school, students may doubly count up to 28 credits for each degree. For further information about the master’s program in Information Architecture and Knowledge
**Courses (JMC)**

The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.

**JMC 50001**  
**FUNDAMENTALS OF MEDIA MESSAGES (3)**  
Working with messages for print, broadcast, electronic and new media outlets. Course may not be taken for credit nor applied toward any requirements by a JMC major. Prerequisite: Special approval.

**JMC 50002**  
**REPORTING FOR MASS MEDIA (3)**  
Theory and practice in news writing and reporting; news values and news judgment; lead and story development; techniques of gathering information and dealing with sources of news; writing for deadline. Hours do not count toward degree. Prerequisite: Special approval. Special course fee: $30 per semester (subject to change).

**JMC 50003**  
**EDITING FOR MASS MEDIA (3)**  
Theory and practice in copy editing, headline writing, picture selection and online editing, newspaper design and layout, special sections and management problems. Hours do not count toward degree. Prerequisite: JMC 50002. Special course fee: $30 per semester (subject to change).

**JMC 50006**  
**LAW OF MASS COMMUNICATION (3)**  
Libel and slander; privacy, copyright, obscenity; regulation of advertising and broadcasting; antitrust law and mass media; legal problems reporting courts, legislatures; taxation, licensing.

**JMC 50007**  
**REVIEWING THE ARTS (2)**  
Reviewing and criticism of performing, visual and literary arts. Emphasis on books, film, TV and theatre. Prerequisite: Special approval.

**JMC 50013**  
**TELEVISION SPORTS PRODUCTION (3)**  
A comprehensive study of the production of live action television sports coverage. Prerequisite: Journalism and Mass Communication (JMC) major.

**JMC 50020**  
**AUDIO AND STILL PHOTO PRODUCTION (3)**  
Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio. Prerequisite: Journalism and Mass Communication (JMC) major.

**JMC 50023**  
**NON-TRADITIONAL JOURNALISM (3)**  
The study of journalistic writing that goes beyond the inverted pyramid and traditional feature story and has topics traditionally not defined as news. Students will also work as part of a team on multi-part stories. Prerequisite: Journalism and Mass Communication (JMC) major.

**JMC 50027**  
**MANAGING MEDIA DIVERSITY**  
Aspects of diversity and how it changes our environment with emphasis on the field of mass communication.

**JMC 50030**  
**COLLABORATIVE ONLINE PRODUCING (3)**  
The use of multimedia and interactive storytelling tools such as video, audio and graphics. Students work in teams to produce packages for online news sites and organizational videos. Prerequisite: Journalism and Mass Communication (JMC) major.

**JMC 50035**  
**TELEVISION GRAPHICS (3)**  
Basic design, theory and technique in creating and preparing TV and video graphics.

**JMC 50036**  
**NON-LINEAR VIDEO EDITING (3)**  
Introduction to planning and creating short computer video programs integrating multi-layered digital effects and transitions for application by end users in a variety of current video file formats. Prerequisite: Journalism and Mass Communication (JMC) major.

**JMC 50193**  
**VARIABLE TITLE WORKSHOP IN JOURNALISM AND MASS COMMUNICATION (1-3)**  
Intensive study of professional issues and problems in various areas of mass communication, utilizing the expertise of faculty and professionals in the field. S/U grading. Prerequisite: Special approval.

**JMC 51003**  
**ADVERTISING ACCOUNTING MANAGEMENT (3)**  
An introduction to advertising account management, its functions and the skills needed for this profession. Prerequisite: JMC 60007.
JMC 53035
ADVANCED TELEVISION NEWS PRODUCING (3)
Advanced understanding of how to produce news content for broadcast and the web. Prerequisite: Special approval.

JMC 53036
RECORD PROMOTION (3)
Class operates as an independent record label to critique, select, promote, publicize and sell original recorded music. Prerequisite: Journalism and Mass Communication (JMC) major.

JMC 54045
PROMOTIONS FOR ELECTRONIC MEDIA (3)
Fundamental and latest trends in broadcast and cable promotion. Prerequisite: Journalism and Mass Communication (JMC) major.

JMC 54050
AUDIO FOR VIDEO (3)
Understanding of the sonic aspects of visual productions including video studio, video field and online applications. Prerequisite: Journalism and Mass Communication (JMC) major.

JMC 57003
TEACHING HIGH SCHOOL JOURNALISM (3)
Methods and materials for teaching journalism in high school. Prerequisite: Special approval. Special course fee: $30 per semester (subject to change).

JMC 57004
DESKTOP PUBLISHING FOR HIGH SCHOOL JOURNALISM TEACHERS (1)
Basics of InDesign desktop publishing program as it relates to high school newspapers and magazines.

JMC 60000
INTRODUCTION TO GRADUATE STUDIES IN JOURNALISM AND MASS COMMUNICATION (1)
An introductory survey of the various areas of professional and scholarly concentrations in the fields of journalism and mass communication. Consideration of the relationship between professional practice and scholarly activity in those fields. S/U grading; IP permissible.

JMC 60001
THEORY OF MASS COMMUNICATION (3)
Introduction to theory of mass communication, with emphasis on the process and effects of mass communication.

JMC 60002
LEGAL PROBLEMS IN MASS COMMUNICATIONS (3)
Case studies related to the First Amendment, libel, invasion of privacy, regulation of broadcasting and new media, copyright and access to information. Course focus will be the theories underlying these issues, as well as practical application of the legal concepts. Prerequisite: Special approval.

JMC 60003
ETHICS OF MASS COMMUNICATIONS (3)
Study of ethical problems of mass media in society; analysis of media policies; performance evaluation. Prerequisite: Journalism and Mass Communication (JMC) major.

JMC 60007
RESEARCH METHODS IN MASS COMMUNICATION (3)
Introduction to methods of social science research that are applicable to study of mass communication. Prerequisite: Special approval.

JMC 60009
SOCIAL ROLE OF THE MASS MEDIA (3)
Application of professional, theoretical, historical, economic and political perspectives to examine the role of mass media in society both in terms of structure and function. Prerequisite: Journalism and Mass Communication (JMC) major. Special fee: $18 per semester.

JMC 60096
INDIVIDUAL INVESTIGATION IN MASS COMMUNICATION (1-3)
Individual investigation of selected area or problem approved by graduate faculty. Repeatable for maximum of 6 hours. IP permissible. Prerequisite: Special approval.

JMC 60098
RESEARCH (1-15)
Research or individual investigation for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Repeat registration permitted. Maximum of 3 hours may be applied to degree if school approves. Prerequisite: Special approval.

JMC 60195
SPECIAL TOPICS IN COMPUTER LAB (1-3)
Selected topics of special interest not covered in depth in existing courses; offered as resources permit. Prerequisite: Special approval. Special fee: $10 per semester hour.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JMC 60296</td>
<td>ADVANCED READINGS IN JOURNALISM AND MASS COMMUNICATION</td>
<td>3</td>
<td>Consolidation and synthesis of learning experiences in the graduate program. Application of graduate study to future professional careers. Updates on latest developments in the fields of JMC and their impact on the future of academic study and professional practice in the discipline. S/U grading; IP permissible. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>JMC 60299</td>
<td>THESIS II</td>
<td>2</td>
<td>Thesis student must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: JMC 60199.</td>
</tr>
<tr>
<td>JMC 60396</td>
<td>MASTER’S PROFESSIONAL PROJECT</td>
<td>3</td>
<td>Completion and defense of a substantial professional project in one of the fields of journalism and mass communication. S/U grading; IP permissible. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>JMC 65660</td>
<td>POLITICAL COMMUNICATION</td>
<td>3</td>
<td>An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages. Cross-listed with COMM 65660.</td>
</tr>
<tr>
<td>JMC 66092</td>
<td>INTERNSHIP IN JOURNALISM AND MASS COMMUNICATION</td>
<td>1-3</td>
<td>Experience in a department or company involving supervised professional responsibilities in journalism and mass communication. Minimum of 150 hours of work for each hour of credit. S/U grading; IP permissible. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>JMC 67094</td>
<td>COLLEGE TEACHING OF JOURNALISM</td>
<td>1-3</td>
<td>Staff training and experience in college teaching. Only 3 hours may be applied toward master’s degree. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>JMC 50004</td>
<td>COMPUTER-ASSISTED REPORTING</td>
<td>3</td>
<td>Computer analysis of large data sets focusing on government, court, police records, for preparation of news stories; basics of online searching; software and databases. Prerequisite: JMC 50002. Special course fee: $30 per semester (subject to change).</td>
</tr>
<tr>
<td>JMC 50005</td>
<td>FEATURE WRITING</td>
<td>3</td>
<td>Researching, writing and placement of feature stories in publications. Prerequisite: JMC 50002. Special course fee: $30 per semester (subject to change).</td>
</tr>
<tr>
<td>JMC 50012</td>
<td>ONLINE JOURNALISM</td>
<td>3</td>
<td>Study and evaluation of online news and news sites; reporting and writing for online news media; design, production and maintenance of an online news site; ethical, legal and economic issues related to online news. Prerequisite: JMC 50002. Special course fee: $30 per semester (subject to change).</td>
</tr>
<tr>
<td>JMC 55051</td>
<td>REPORTING BROADCAST NEWS</td>
<td>3</td>
<td>Gathering and preparing broadcast news, with emphasis on unique style and presentation methods of broadcast media. Use of both audio and video recorders and editing equipment. Prerequisite: JMC 50002. Special fee: $10 per semester.</td>
</tr>
<tr>
<td>JMC 56000</td>
<td>NEWSPAPER DESIGN</td>
<td>3</td>
<td>Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing. Prerequisite: JMC 50003. Special course fee: $30 per semester (subject to change).</td>
</tr>
<tr>
<td>JMC 56001</td>
<td>INFORMATION GRAPHICS</td>
<td>3</td>
<td>Cross-listed with VCD 53007. Introduction to shapes, color, type and combinations of these for computer-designed news graphics: maps, charts, graphs and diagrams. Prerequisite: Special approval.</td>
</tr>
<tr>
<td>JMC 56003</td>
<td>PRODUCING TELEVISION NEWS</td>
<td>3</td>
<td>Knowledge of the theory and practice of producing content for TV news and public affairs programs. Emphasis is placed on understanding news philosophies, storytelling, story selection and rundown placement. Prerequisite: JMC 55051 and Journalism and Mass Communication (JMC) major.</td>
</tr>
<tr>
<td>JMC 56006</td>
<td>EDITORIAL WRITING</td>
<td>3</td>
<td>Structure and purpose of editorial and column writing; study of editorial page; practice in writing editorials. Prerequisite: JMC 50002.</td>
</tr>
</tbody>
</table>
JMC 56007
REPORTING IN DEPTH (3)
Techniques involved in researching, interviewing and writing in-depth news articles and analyses. Prerequisite: JMC 50002.

JMC 56009
REPORTING PUBLIC AFFAIRS (4)
Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques. Prerequisite: JMC 50002. Special course fee: $40 per semester (subject to change).

JMC 56016
MAGAZINE PUBLISHING (3)
Overview of magazine publishing, editorial, advertising, circulation and production. Analysis of magazines. Prerequisite: Special approval. Special course fee: $30 per semester (subject to change).

JMC 56020
MAGAZINE DESIGN (3)
Marriage of words and visuals for designing magazine layouts and covers in desktop publishing. Prerequisite: JMC 50002, 50003 and 56016. Special course fee: $30 per semester (subject to change).

JMC 56021
MAGAZINE WRITING AND EDITING (3)
Research, interviewing, writing and marketing of major magazine articles. Also editing techniques for magazines. Prerequisite: JMC 50002 and 50003. Special course fee: $30 per semester (subject to change).

JMC 56052
ADVANCED BROADCAST NEWS PRACTICES (3)
Study of investigative news stories, newsroom operations, editing and producing broadcast news programs. Advanced projects in broadcast news. Prerequisite: JMC 55051 or 56054. Special course fee: $45 per semester (subject to change).

JMC 60021
ADVANCED MAGAZINE WRITING (3)
Course builds on content presented in JMC 56016 and JMC 50005. Purpose is to refine and hone writing skills for non-fiction magazine stories in print and online. Prerequisite: JMC 56016 and JMC 50005.

JMC 66005
PROFESSIONAL NEWS EDITING (3)
Professionally oriented work at the advanced level in selecting, editing and displaying stories and photographs in print journalism; role and responsibility of editors. Prerequisite: JMC 50003.

JMC 66010
SPECIALIZED REPORTING (3)
News gathering techniques in specialty areas such as politics, labor, medicine, business and technology; techniques of team reporting. Prerequisite: JMC 56009; JMC 55015.
JMC 68001
PUBLIC RELATIONS MANAGEMENT (3)
Perspectives, skills needed to manage an organization’s PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with public. Prerequisite: JMC 68000.

Public Relations

JMC 50016
LAW FOR ADVERTISING AND PUBLIC RELATIONS (3)
Regulation of advertising and public relations; first amendment; libel and privacy; legal problems of new media; research in persuasive media. Prerequisite: Special approval.

JMC 58001
MEDIA RELATIONS & PUBLICITY (3)
Planning and preparation of materials for use by the news media, both on paper and online. The course explores the media relations function and media relations strategies along with the uses and limitations of mass media in public relations practice. Special course fee of $30 (subject to change). Prerequisite: Special approval.

JMC 58002
PUBLIC RELATIONS TACTICS (3)
Planning and preparation of face-to-face public relations tactics, including spokesperson training for on- and off-camera appearances, special-event planning, speeches and presentations with visual support and other applications of writing “for the ear.” Special course fee of $30 (subject to change). Prerequisite: Permission.

JMC 58003
PUBLIC RELATIONS: ONLINE TACTICS (3)
Explores fundamentals of Web site planning and design and provides hands-on skills development using the full range of cybermedia techniques. Includes emphasis on writing for online audiences. Special course fee of $30 (subject to change). Prerequisite: Special approval.

JMC 58006
PUBLIC RELATIONS PUBLICATIONS (3)
Planning, writing and design of organizational publications, including newsletters, brochures, fliers, and promotionnal mailers. Course emphasizes basic graphic design principles, use of professional desktop publishing software along with basic printing and production processes. Special course fee of $30 (subject to change). Prerequisite: Special approval.

JMC 68000
PUBLIC RELATIONS THEORY AND PROCESS (3)
Introduces students to the profession of public relations by exploring both the theories and the processes employed by PR practitioners. Course also explores the history and social role of public relations as well as ethics and social responsibility. Prerequisite: Special approval.

JMC 68001
PUBLIC RELATIONS MANAGEMENT (3)
Perspectives, skills needed to manage an organization’s PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with public. Prerequisite: JMC 68000.

Professional Elective Courses

JMC 50037
SCRIPTWRITING FOR VIDEO AND FILM (3)
The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs. Prerequisite: Special approval.

JMC 56054
BROADCAST DOCUMENTARY (3)
Development of the documentary form for radio/TV; analysis, production of radio/TV documentary; utilization of audio/video recording/editing. Prerequisite: JMC 55051. Special course fee: $45 per semester (subject to change).

JMC 59021
CORPORATE VIDEO (3)
The use of video in the legal, medical and corporate environments. Emphasis is placed on the structure and function of the medium within each environment. Prerequisite: Special approval. Special course fee: $60 per semester (subject to change).
Library and Information Science

LIBRARY AND INFORMATION SCIENCE

Richard E. Rubin, Director
314 Library
330-672-2782
rrubin1@kent.edu

Carolyn Brodie, Coordinator of Graduate Studies
314 Library
330-672-2782
cbrodie@kent.edu

The school offers a graduate program, accredited by the American Library Association, which leads to a Master of Library and Information Science (M.L.I.S.) degree. An American Library Association-accredited master’s degree is the basic requirement for professional employment in most libraries and information centers.

The School of Library and Information Science (S.L.I.S) prepares students for positions of leadership in librarianship and the information professions. The master’s and advanced certificate programs emphasize the preparation of students for professional service in academic, public, special and school libraries and other types of information agencies.

For more information about the School of Library and Information Science, prospective students may request an information packet by contacting the School of Library and Information Science or by visiting the school’s web site at http://www.slis.kent.edu

Master of Library and Information Science

ADMISSION

In addition to regular application requirements of the university, admission to the Master of Library and Information Science program requires the following:

- An undergraduate degree with a cumulative 3.00 GPA to be considered for regular admission. All undergraduate coursework completed at all institutions is used to calculate cumulative GPA.

- Scores from the GRE General Test – required only if student has less than a 3.0 cumulative GPA in the highest completed degree where A=4.0. These students will be considered for conditional admission.

- Biographical Sketch form. This form is available on the department’s web site, www.slis.kent.edu.

- Statement of Career Goals. A one-page statement should include why you chose Kent State, why you chose the M.L.I.S degree and your areas of interest in library and information science.

- Three letters of recommendation from those in a position to evaluate academic performance and graduate potential.

- A resume is optional.

- TOEFL scores when required for international applicants. The minimum score for regular admission is 600 for the paper-based test and 100 on the internet-based test.

Prospective students should complete the application process no later than September 15 for Spring admission, January 15 for summer admission and March 15 for the fall semester. For further details on admission procedures and deadlines, prospective students should consult the school’s web site at http://www.slis.kent.edu.

PROGRAM REQUIREMENTS

The Master of Library and Information Science degree requires a minimum of 36 credits. All M.L.I.S. students must take these five core courses:

- LIS 60001
- LIS 60002
- LIS 60003
- LIS 60600
- LIS 60610

However, students earning the M.L.I.S. with K-12 school library media licensure are not required to complete:

- LIS 60003
- LIS 60610

All students are encouraged to complete the core requirements during their first 18 hours of enrollment. In addition, students must choose between a 3-hour culminating experience (LIS 60670) or a 6-hour master's thesis to meet degree requirements.

Students are also encouraged to select at least one elective from each of these areas:

- Access to Information
- Organization and Representation of Knowledge
- Administration and Management

Access to Information electives include:
LIS 60601, LIS 60611, LIS 60612, LIS 60620, LIS 60621, LIS 60622, LIS 60623, LIS 60625, LIS 60626, LIS 60628, LIS 60629, LIS 60630, and LIS 60643.

Organization and Representation of Knowledge electives include:
LIS 60602, LIS 60603, LIS 60611, LIS 60624, LIS 60631, LIS 60632, LIS 60637, LIS 60639, LIS 60641, LIS 60642, LIS 60645, LIS 60646, LIS 60648, LIS 60649 and LIS 60651.

Administration and Management electives include:
LIS 60607, LIS 60608, LIS 60609, LIS 60610, LIS 60613, LIS 60615, LIS 60616, LIS 60633, LIS 60638, LIS 60640, LIS 60644, LIS 60652, LIS 60654 and LIS 60661.
The General Program Statement Form, available at http://www.slis.kent.edu, provides the complete list of electives, including LIS 60691 seminars and LIS 61095 selected topics courses, which have been approved for each of the three areas. In addition, the K-12 School Library Media Licensure Program Statement Form (http://www.slis.kent.edu) provides the complete list of courses for this area of study.

### Multiple Degrees Option

A master’s degree in a subject area in addition to the master’s degree in library and information science is a desirable credential for some kinds of professional employment, especially in large research institutions. Students may apply to a second master’s degree program offered by Kent State University and work simultaneously or sequentially on the two degrees. The two degrees must overlap by one semester. Admission requirements for the M.L.I.S portion of a multiple degree are the same as the admission requirements for the M.L.I.S. degree alone.

Courses may be shared between the two degrees, as determined by the graduate department(s), but in no case may they exceed 12 credit hours. Two exceptions to this limit within the school are the Master of Library and Information Science/Master of Business Administration dual-degree option and the Master of Library and Information Science/Master of Science in Information Architecture and Knowledge Management multiple degrees option.

### Master of Library and Information Science and Master of Business Administration

The Master of Library and Information Science and Master of Business Administration dual-degree program is designed for managers of large libraries and information centers. Individuals in these positions need knowledge pertaining to planning, organizing, staffing, directing and controlling. Advanced education to obtain knowledge and learn skills related to these management functions enables students to take advantage of career opportunities in both library settings and other information settings, in both the profit and nonprofit sector.

Students apply to both the School of Library and Information Science and to the Graduate School of Management. Each program makes an independent admission decision. Admission is determined based upon:

- Undergraduate grade point average
- Strong performance on the Graduate Record Examination (GRE) and/or the Graduate Management Admission Test (GMAT)
- Three letters of reference
- An essay regarding the applicant’s career direction

The M.L.I.S.-M.B.A. dual-degree curriculum includes 30 hours of M.B.A. course work, 27 hours of Library and Information Sciences courses and 12 hours from either Business or Library Science.

### Master of Library and Information Science and Master of Science in Information Architecture and Knowledge Management

Prospective students interested in a multidisciplinary approach to graduate studies in the information-related disciplines and professions may also consider pursuing the Master of Library and Information Science and Master of Science in Information Architecture and Knowledge Management multiple degrees option. Administered by the School of Library and Information Science, the Master of Science degree in Information Architecture and Knowledge Management is a flexible degree program that combines graduate courses from these major contributing faculties: the Graduate School of Management, the Department of Computer Science, the School of Communication Studies, the School of Journalism and Mass Communication, the School of Library and Information Science and the School of Visual Communication and Design.

Students interested in this multiple-degrees option must apply to both the Master’s Program in Information Architecture and Knowledge Management and to the School of Library and Information Science. Each program makes an independent admission decision. If approved for admission by both the program and the school, students may doubly count up to 28 credits for each degree. The actual number of shared hours typically ranges from 21 to 28, depending on the area of concentration selected for each degree.

For further information about the Master of Science degree in Information Architecture and Knowledge Management or the multiple degrees option, please see the Information Architecture and Knowledge Management section of the graduate schools catalog or consult the program Web site at http://iakm.kent.edu.

### Master of Library and Information Science plus K-12 School Library Media Specialist Licensure

A course of study leading to the Master of Library and Information Science degree and multi-age licensure in school library media is offered in cooperation with the instructional technology program in the College of Education, Health and Human Services, School of Lifespan Development and Educational Science. The licensure program requires completion of at least 36 hours including 9 hours in instructional technology (ITEC) and LIS 60670, the culminating practicum. Conferral of a school library media specialist license also requires successful completion of the Praxis examination in library media. Candidates must also hold or be eligible for an Ohio teacher’s license.

For additional details on the courses required for the M.L.I.S. with K-12 School Library Media Specialist Licensure program, please refer to the K-12 School Library Media Licensure Program Statement Form at http://www.slis.kent.edu.
Certificates of Advanced Study

The School of Library and Information Science offers five Certificates of Advanced Study:

- Certificate of Advanced Study in Library and Information Science
- Certificate of Advanced Study in K-12 School Library Media
- Certificate of Advanced Study in Library Management
- Certificate of Advanced Study in Digital Libraries
- Certificate of Advanced Study in Digital Preservation

Prospective students earning any of the school's certificates must hold a master's degree in Library and Information Science from an institution accredited by the American Library Association (or equivalent degree from schools in other countries, in the case of international students). Ideally, advanced certificate students have had at least two years of professional experience since earning their master's degree. Each certificate requires 18 graduate credit hours of coursework to be completed within four years.

Admission requirements and procedures for each of the certificate programs are the same as those for the M.L.I.S. degree program.

Certificate of Advanced Study in Library and Information Science

The school offers a post-master's certificate program as an opportunity for librarians and information specialists already in the field to update and upgrade professional skills. The program offers a multidisciplinary approach tailored to those who hold master's degrees in library and information science and are interested in expanding their professional skills in various areas of library and information science. A minimum of 18 graduate hours is required for the Certificate of Advanced Study in Library and Information Science, to be completed within four years.

Certificate of Advanced Study in K-12 School Library Media

The school offers an advanced certificate program as an opportunity for school library media specialists already in the field to update and upgrade their professional skills. This program is tailored to those school library media specialists who hold an M.L.S./M.L.I.S. degree (or another approved graduate degree in education), school library media licensure and standard teaching credentials. The certificate is aimed at those who are interested in expanding their administrative and technology skills. Each program is individually designed and leads to a certificate in the advanced study of school librarianship. Students will be awarded the "Certificate of Advanced Study in K-12 School Library Media" upon successful completion of 18 semester hours of coursework.

Certificate of Advanced Study in Library Management

The Certificate of Advanced Study in Library Management will allow those who hold the master's in Library and Information Science and who have current professional experience in libraries and other information agencies to expand and upgrade their professional skills in technology, administration, and information services. A minimum of 18 graduate hours of coursework is required for the Certificate of Advanced Study in Library Management.

Certificate of Advanced Study in Digital Libraries

The Certificate of Advanced Study in Digital Libraries is designed to meet the growing demand for digital librarians and digital libraries. The program is intended for those who already hold an M.L.S. or M.L.I.S. degree. The certificate requires successful completion of 18 semester hours of coursework. Curriculum focuses on the technical and human aspects of the Web and digital libraries, including technical infrastructure of the digital library; theoretical and historical foundations; knowledge organization in digital libraries; collection development and maintenance; information access and utilization of digital libraries; and social, economic, policy, and professional issues.

Certificate of Advanced Study in Digital Preservation

The Certificate of Advanced Study in Digital Preservation was designed to meet the growing demand for digital preservation specialists in digital libraries and archives. The program is intended for those who already hold an M.L.S. or M.L.I.S. degree. The certificate requires successful completion of 18 semester hours of coursework. Curriculum focuses on the following areas: foundations of preservation theory and practice in library, archival, and other information environments; creation and maintenance of digital surrogates of analog material; knowledge organization and management for digital repositories, technical infrastructure for digital preservation; curatorial functions, including development of policy and procedure to manage digital objects; and social, economic, policy, and professional issues.
Courses (LIS)

The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.

LIS 50693
VARIABLE TITLE WORKSHOP — LIBRARY AND INFORMATION SCIENCE (1-3)
Maximum workshop credit accepted for M.L.I.S degree is 4 semester hours. Intensive examination of special topics of interest to practicing librarians. May be repeated. S/U grading.

LIS 60001
ACCESS TO INFORMATION (3)
Examination of information access issues. Topics include discussion of information needs, use of information sources, and information access services. This course is not open to students in non-degree programs.

LIS 60002
ORGANIZATION OF INFORMATION (3)
Introduction to the theory and practice of organizing information in various information environments. Familiarity with principles, standards, tools and current systems relating to organization of information. This course is not open to students in non-degree programs.

LIS 60003
INFORMATION TECHNOLOGY FOR LIBRARY AND INFORMATION PROFESSIONALS (3)
Provides basic information technology concepts and skills necessary for library and information professionals. Topics include computer hardware and software basics; operating systems; file management; software installation and configuration; basic PC applications; information systems concepts, development, and evaluation; search skills; Internet and web concepts, tools, and applications; emerging technologies and tools. This course is not open to students in non-degree programs.

LIS 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

LIS 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: LIS 60199.

LIS 60600
FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE (3)
Social, philosophical and historical foundations; information technology and the library; types of libraries and services, national and internationally; professional issues, research, literature, associations, and education. This course is not open to students in non-degree programs.

LIS 60601
INFORMATION SOURCES AND REFERENCE SERVICES (3)
Introduction to use and evaluation of basic sources of reference information, computerized and non-computerized; reference interview and question-negotiation techniques; administration of reference and information services. Prerequisite: LIS 60001. Special fee: $20 (Subject to change).

LIS 60602
CATALOGING AND CLASSIFICATION I (3)
Principles of cataloging with emphasis on Dewey Decimal and Library of Congress Classification systems, Library of Congress subject headings, online cataloging and administration. Prerequisite: LIS 60002. Special fee: $20 per semester (subject to change).

LIS 60603
CATALOGING AND CLASSIFICATION II (3)
Theory and practice of providing description and access to library materials. Examples and assignments will be taken from all types of library materials, print and nonprint. Prerequisite: LIS 60002 and 60602. Special fee: $20 per semester (subject to change).

LIS 60604
RESEARCH METHODS FOR LIBRARIES AND INFORMATION CENTERS (3)
Focuses on survey and qualitative research methods applicable to libraries and information centers. Explores research techniques, data analysis, proposal development, and ethical issues.

LIS 60607
SCHOOL LIBRARY MEDIA CENTER (3)
Management of school library media centers K-12. Prerequisite: special approval.

LIS 60608
THE PUBLIC LIBRARY (3)
Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship. Prerequisite: LIS 60600.
LIS 60609
MARKETING THE LIBRARY (3)
Introduction to the theory and practice of marketing the
library. Topics include the evaluation of customer needs, the
marketing mix, merchandising, public relations, relationship
marketing, and the design and development of a marketing
plan for libraries.

LIS 60610
MANAGEMENT OF LIBRARIES AND INFORMATION CENTERS
(3)
Identifies and discusses management functions of libraries and
related organizations; includes planning and decision-making,
human resource management, measurement and evaluation,
fiscal and project management. This course is not open to
students in non-degree programs.

LIS 60611
GOVERNMENT INFORMATION SOURCES AND SERVICES (3)
Library treatment of U.S. government publications, with brief
attention to municipal and state publications, and major
Will not include materials covered in LIS 60601. Prerequisite:
LIS 60001.

LIS 60612
LIBRARY MATERIALS AND SERVICES FOR ADULTS (3)
Recent investigations of group and individual reading habits;
advisory services in various types of libraries; library programs
for adult education; projection of library materials toward
community.

LIS 60613
INFORMATION USES AND SERVICES (3)
Analysis of information and communication theory as it
relates to adults’ information needs and use; interface issues,
electronic information resources and information use;
technological methods for designing and using information
systems, telecommunications and networks, and consideration
of planned communication strategies. Prerequisite: LIS 60001.

LIS 60614
SELECTION AND ACQUISITION OF LIBRARY MATERIALS (3)
Factors affecting selection in public, academic, school and
special libraries (reading habits, censorship, publishing trends);
community analysis, selection policies and process; selection
sources; acquisitions.

LIS 60615
THE ACADEMIC LIBRARY (3)
Governance, administration and services of libraries in
institutions of postsecondary education. Prerequisite: LIS
60600.

LIS 60616
THE SPECIAL LIBRARY (3)
The formation of special libraries. Libraries in special subject
fields and in organizations: corporations, government agencies,
hospitals, etc. Internal organization and administration,
collection development and services. Prerequisite: LIS 60600.

LIS 60620
HEALTH INFORMATION RESOURCES (3)
Identifies print and electronic sources of health information
with emphasis on electronic sources. Medical patient and
consumer health information is presented. This course is
designed for the health educator, librarian, nurse or other
health care professional.

LIS 60621
SOCIAL SCIENCES INFORMATION SOURCES AND SERVICES
(3)
Content, bibliographic structure and communication patterns
in the social sciences with emphasis on information sources
and services in sociology, history, education, political science,
anthropology, related disciplines. Prerequisite: LIS 60001.

LIS 60622
SCIENCE/TECHNOLOGY INFORMATION SOURCES AND
SERVICES (3)
Content, bibliographic structure and communication patterns
in the sciences with emphasis on pure and applied fields, e.g.,
mathematics, biology, physics. Prerequisite: LIS 60001.

LIS 60623
BUSINESS/FINANCE INFORMATION SOURCES AND
SERVICES (3)
Historical development; applications to current business, labor,
governmental, educational and sociological information needs;
interpretation to executives and others; printed sources and
databases. Prerequisite: LIS 60001.

LIS 60624
CATALOGING FOR SCHOOL LIBRARY MEDIA CENTERS (3)
Organization and administration of print and nonprint
materials in school library media centers. Application of
appropriate descriptive cataloging rules, subject headings
and classification policies for children’s, young adult and
educational materials K-12. Prerequisite: special approval.

LIS 60625
LIBRARY MATERIALS AND SERVICES FOR VERY YOUNG
CHILDREN (3)
Selection and utilization of materials in relation to needs,
abilities and interests of the very young child.

LIS 60626
LIBRARY SERVICES TO YOUNG ADULTS (3)
Selection and utilization of books and materials in relation to
needs, abilities and interests of young adults.
LIS 60628  
HUMANITIES INFORMATION SOURCES AND SERVICES (3)  
Philosophy, literature, fine and performing arts. Prerequisite: LIS 60001.

LIS 60629  
LIBRARY MATERIALS AND SERVICES FOR SCHOOL-AGE CHILDREN (3)  
Selection and utilization of materials in relation to needs, abilities and interests of school-age children.

LIS 60630  
REFERENCE SOURCES AND SERVICES FOR YOUTH (3)  
Organization and administration of information sources and information services for children and young adults (K-12). Evaluation, selection and utilization of print and electronic sources.

LIS 60631  
INTRODUCTION TO DIGITAL PRESERVATION (3)  
Approaches for preserving and maintaining access to digitized and born-digital text, images, data and audiovisual information. Topics include longevity of digital media, selection for preservation, formats and strategies for preservation, preservation metadata, integrity and authenticity of digital materials, establishment and certification of trustworthy digital repositories, risk management, and policy development. Prerequisite: LIS 60002.

LIS 60632  
TECHNOLOGIES FOR DIGITAL PRESERVATION AND WEB ARCHIVING (3)  
Essential technologies for building and maintaining robust, trusted digital repositories. Emphasis is on providing orientation to technologies sufficient to allow students to work with network administrators, programmers, and other personnel involved in providing technical support to develop digital repositories for preservation and archiving functions. Prerequisites: LIS 60631 or 60638.

LIS 60633  
DIGITAL CURATION (3)  
Management and preservation of digital objects and records throughout their life cycle. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work. Prerequisites: LIS 60631 or 60638.

LIS 60637  
METADATA ARCHITECTURES AND IMPLEMENTATION (3)  
Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach. Prerequisite: LIS 60002.

LIS 60638  
DIGITAL LIBRARIES (3)  
Issues related to the development and maintenance of digital libraries, including technology, collection development and management, project management, digital preservation, user-centered design, public service, rights management, and funding.

LIS 60639  
IMPLEMENTATION OF DIGITAL LIBRARIES (3)  
Explores issues related to implementation of digital libraries and provides hands-on experience for students to build digital library prototypes (small-scale) with open source software. The major emphasis is on design and implementation of key DL functions, including building digital collections, defining and creating metadata, indexing, browsing and retrieval, customizing interface, implementing services, encoding and transforming for data exchange, and testing the usability and effectiveness. Prerequisite: LIS 60003.

LIS 60640  
LIBRARY AUTOMATION (3)  
Analysis, design and selection of automated library systems. Considers system analysis and requirements, networking technologies, database management systems, multimedia and hypermedia, and client-serving computing. Also, proposals to vendors, contract negotiation, implementation, staffing, training, system maintenance and evaluation. Prerequisite: LIS 60002. Special fee: $20 (Subject to change).

LIS 60641  
INFORMATION STORAGE AND RETRIEVAL SYSTEMS (3)  
Fundamentals of information storage and retrieval systems: components, models, file structure, information representation, human-computer interaction, standards, protocols and evaluation of system performance. Design and evaluation of information storage and retrieval including contributions from artificial intelligence and cognitive research. Prerequisite: LIS 60002. Special fee: $20 (Subject to change).

LIS 60642  
IMPLEMENTATION OF INFORMATION STORAGE AND RETRIEVAL SYSTEMS (3)  
Course has dual tracks: conceptual frameworks and basic technical skills. Covers all major aspects and latest advancements of an information retrieval system and their applications. Technical skills include Unix/Linux, PERL and CGI programming. Prerequisite: LIS 60002.

LIS 60643  
ONLINE INFORMATION SYSTEMS (3)  
Use of information technologies to search for and retrieve electronic information, primarily through the Internet. Analysis of database structures and electronic records; search principles and heuristics; database system producers; system interfaces; and evaluation of results. Prerequisite: LIS 60001. Special fee: $30 (Subject to change).
Library and Information Science

LIS 60644
INFORMATION SCIENCE (3)
Focal areas of information science: information retrieval systems, bibliometrics, citation analysis, systems analysis and evaluation, information technologies, information theory, information architecture, knowledge management and user experience.

LIS 60645
DATABASE SYSTEMS (3)
Characteristics and concepts of database systems; types of database models; conceptual database design and implementation; the relational database model and its application: key issues, principles and techniques; current database technologies.

LIS 60646
USER INTERFACES FOR INFORMATION RETRIEVAL SYSTEMS (3)
Hardware considerations and programming for the implementation of user interfaces of computerized information retrieval systems, primarily for Web interfaces but also for online public access catalogs and other networked, client-server systems. Interface analysis, evaluation and design; project design and implementation. Special fee: $30 (Subject to change).

LIS 60647
NETWORK AND SOFTWARE RESOURCES FOR INFORMATION SYSTEMS (3)
Study, use and evaluation of current and emerging information technologies; network and software resources for libraries and information centers, including network analysis and management, standards, protocols and client-server technologies; and techniques for accessing and evaluating such technologies and resources. Special fee: $20 (Subject to change).

LIS 60648
ELECTRONIC PUBLISHING ON THE WEB (3)
Students gain the knowledge and skills to participate professionally in current electronic publishing activities, especially Web publishing, and to contribute to future developments in an innovative, socially responsible way.

LIS 60649
INDEXING AND ABSTRACTING (3)

LIS 60650
INFORMATION POLICY (3)
Political, economic, cultural and legal issues regarding the production, distribution and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web. Prerequisite: LIS 60600.

LIS 60651
DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT (3)
This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives, and special collections in libraries. Students will acquire knowledge and skills necessary to design, create, and manage digital images of text, graphics, slides, and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital-image archives via image databases and the Web environment. Prerequisite: LIS 60002. Special fee: $30 (Subject to change).

LIS 60652
FOUNDATIONS AND ADMINISTRATION OF ARCHIVES (3)
Theoretical and historical foundations, organizational patterns of archives, form of archival material, and development of the archival profession in the United States. Basic administration in archival repositories and overview of special problems in archives. Includes field trips where practicable. Prerequisite: LIS 60001.

LIS 60654
PRESERVATION MANAGEMENT (3)
Types and causes of deterioration of various kinds of materials, storage and preventive maintenance, preservation through photographic reproduction and microforms, restoration of rare materials.

LIS 60661
TECHNICAL SERVICES (3)
Principles, problems and current issues of acquiring, processing and preserving/conserving materials in libraries and information centers. Prerequisite: LIS 60002.

LIS 60665
RARE BOOK LIBRARIANSHIP (3)
Study of the theory and practice of rare book librarianship through lectures, readings, discussion and practical exercises.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>LIS 60666</td>
<td>ETHICAL CONCERNS OF LIBRARY AND INFORMATION PROFESSIONALS (3)</td>
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<tr>
<td></td>
<td>Analysis of ethical concerns of information professionals: codes of ethics,</td>
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<td>intellectual freedom, free access, privacy, confidentiality, computer issues</td>
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<td>and relations with management, clients and colleagues. Prerequisite: LIS 60600.</td>
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<tr>
<td>LIS 60670</td>
<td>CULMINATING EXPERIENCE (3)</td>
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<td>Under advisement of a faculty member, students will complete a project that</td>
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<td>serves as a culminating experience for the M.L.I.S. degree. The project may</td>
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<td>be a research paper, individual project or culminating practicum. S/U grading;</td>
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<td></td>
<td>IP permissible. Prerequisite: LIS 60001, 60002, 60003, 60600, 60610, special</td>
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<td>approval. This course is not open to students in non-degree programs.</td>
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<tr>
<td>LIS 60691</td>
<td>SEMINAR IN LIBRARY SCIENCE (1-3)</td>
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<td>Advanced research by small groups of students who are qualified to examine</td>
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<td>problems of certain special areas.</td>
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<td>LIS 60692</td>
<td>PRACTICUM — LIBRARIES AND INFORMATION CENTERS (2-3)</td>
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<td>Supervised library or information center work experience of a professional</td>
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<td>nature of not less than 100 clock hours, directed readings and preparation of</td>
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<td>paper. May not be repeated. IP permissible. Prerequisite: special approval.</td>
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<tr>
<td>LIS 60693</td>
<td>VARIABLE TITLE WORKSHOP — LIBRARY AND INFORMATION SCIENCE (1-3)</td>
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<td></td>
<td>Intensive examination of special topics of interest to practicing librarians.</td>
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<td>May be repeated. Maximum workshop credit accepted for M.L.I.S. degree is 4</td>
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<td>semester hours. S/U grading.</td>
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<tr>
<td>LIS 60694</td>
<td>COLLEGE TEACHING OF LIBRARY SCIENCE (2-3)</td>
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<td></td>
<td>Staff training and experience in college teaching. Repeat registration permitted</td>
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<td>up to 10 hours. Maximum of 2 hours applicable toward master’s degree</td>
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<td>requirements (with dean’s approval). S/U grading; IP permissible. Prerequisite:</td>
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<td>special approval.</td>
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<tr>
<td>LIS 60695</td>
<td>SPECIAL PROBLEMS IN LIBRARY SCIENCE (1-10)</td>
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<td>Individual research at high levels of specialization. Intended for persons in</td>
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<td>sixth-year program. Repeat registration permitted. IP permissible. Prerequisite:</td>
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<td>special approval.</td>
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**LIS 60792**
INTERNERNSHIP IN LIBRARY SUPERVISION AND MANAGEMENT (2-10)
Supervised library work experience of an advanced professional nature that concentrates on developing skills in supervision and management. Intended for persons in the sixth-year program. IP permissible. Prerequisite: special approval.

**LIS 61095**
SELECTED TOPICS IN LIBRARY SCIENCE (1-3)
Offered irregularly as resources and/or opportunities permit. Topics will be announced in the Schedule of Classes.

**LIS 61096**
INDIVIDUAL INVESTIGATION (1-2)
Research or individual investigation for master’s-level graduate students. Maximum credit per registration: 2 hours. Maximum credit toward master’s degree: 4 hours. IP permissible. Prerequisite: special approval.
SCHOOL OF VISUAL COMMUNICATION DESIGN

AnnMarie LeBlanc, Director
231 Art Building
330-672-7856

Sanda S. Katila, Coordinator of Graduate Studies
227 Art Building
330-672-9729
skatila@kent.edu

The School of Visual Communication Design offers graduate study leading to the Master of Arts and Master of Fine Arts degrees. The programs are 32 semester hours and 60 semester hours respectively. The School of Visual Communication Design is accredited by the National Association of Schools of Art and Design.

Master of Arts and Master of Fine Arts

ADMISSION

In addition to regular application requirements of the university, admission to Master of Arts or Master of Fine Arts programs requires the following:

• An undergraduate degree in graphic design or illustration (3.0 major GPA) (A=4.0).
• Three letters of recommendation from persons who are themselves in the applicant's proposed field of study or a closely related area.
• A portfolio that shows an emphasis in the proposed area of studio interest. The portfolio is typically 15-20 samples of personal professional work, clearly identified with appropriate background information, presented in a Macintosh compatible digital format.
• A 250-word autobiographical statement.

Visits to the School of Visual Communication Design preceding the application are recommended.

Review of applications will begin February 15. Special consideration will be given to applicants who successfully submit all application materials by March 1.

PROGRAM REQUIREMENTS

The Master of Arts degree program requires the successful completion of 32 semester hours of graduate credit including a thesis. Students may choose the option of 25 studio hours and an M.A. project instead of the thesis.

The Master of Fine Arts program requires the successful completion of 60 semester hours of graduate credit and requires a thesis.

ADVISING

After a person is admitted to the program and notifies the graduate coordinator of his or her intention to enroll, a graduate advisor is assigned to help plan a course of study and to familiarize the student with the procedures of the school. To help in the planning of the student's program of study, the newly admitted student should share examples of his or her work with the graduate advisor.

CANDIDACY REVIEW EXAMINATION

Successful completion of the Candidacy Review Examination VCD 65009 is a requirement in every School of Visual Communication Design graduate program for both M.A. and M.F.A. students after the first semester or 12 hours of course completion.

Successful completion of the examination designates the student as a candidate for the degree.

THESIS

The thesis is a significant project or body of work done independently of other coursework. Students are expected to demonstrate the ability to conduct research or produce an original project in a discriminating and disciplined manner. The thesis topic should be one that will further the student's knowledge and ability in the specialty by demonstrating skill as a researcher or professional designer/illustrator. The outcome should be an effort that serves as a foundation for the pursuit of independent work when the graduate program is completed. At this stage, students are expected to work in close consultation with their thesis advisor.

The thesis is mandatory for M.F.A. candidates. M.A. candidates may choose to complete either a 6-credit-hour M.A. thesis or a 4-credit-hour M.A. project with an additional 2 credit hours of coursework in the major.

FINAL EXAMINATION

The final examination is at the completion of the studio or research thesis. The final examination is the presentation and defense of the thesis and is also an examination of the graduate student's general comprehension of visual communication design. Graduate students are expected to follow the university schedule of deadlines for taking the final examination and presenting thesis materials.

LABORATORY FEES

Laboratory fees are assessed for some courses. The graduate student should seek updated information from the School of Visual Communication Design office on course fees.

STUDIO FACILITIES

Limited studio space is available on campus for graduate students.
SPECIAL PROGRAMS
Each year, the School of Visual Communication Design conducts special summer programs that are available for graduate credit. The VCD Summer program is designed specifically for working professionals and/or students at the graduate level. The variable length, variable credit workshops provide studio experiences, lectures and seminars on the Kent State University campus during summers, and off campus at sites throughout the United States during other times of the year. Accredited and taught by Kent State University faculty, in concert with nationally and internationally noted experts as guest faculty, the credits may be applied toward the M.A. or the M.F.A. degree programs if accepted into the graduate program in the Kent State University School of Visual Communication Design. Previous guest faculty includes: Kenneth Hiebert, Rudolph de Harak, Michael Bierut, McRay Magleby, Bruno Monguzzi, Michael Patrick Cronan, Mervyn Kurlansky, Clement Mok, Alan Cober, Michael Manwaring, Michael Vanderbyl, Gary Kelley, Woody Pirtle, Christopher Pullman, April Greiman, Ken Carbone, Lance Hidy, Craig Frazier and Rudi Ruegg. Interested persons should write or call the School of Visual Communication Design or visit the web site at http://vcd.kent.edu.

Courses (VCD)

The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.

VCD 50000
BASIC COMPUTER GRAPHIC DESIGN/ILLUSTRATION (2)
An introduction to the use of the computer as a tool in graphic design and illustration. Exploration of the relationship and integration of various hardware configurations and software solutions to meet the demands of today’s designers/illustrators. IP permissible.

VCD 50003
INTERMEDIATE COMPUTER DESIGN — GD & I VARIOUS SOFTWARE (3)
Addresses the issues of page layout and design, digital manipulation and vector graphic illustration for graphic design professionals. Prerequisites: visual communication design (VCD) majors. Special fee: $36 per semester.

VCD 50025
PROFESSIONAL PORTFOLIO IN GRAPHIC DESIGN & ILLUSTRATION (1)
Development of a professional portfolio in graphic design and/or illustration through selection and refinement of previously completed classroom work and/or development of projects in areas of deficiency with emphasis on organization and presentation. Special fee: $12 per semester.

VCD 50052
GRAPHIC DESIGN — TRAVEL AND FIELD EXPERIENCE (1-6)
Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience. Repeatable for a total of 16 credit hours.

VCD 50053
GRAPHIC DESIGN STUDIO — GLYPHIX (1-6)
Professional experience through an internal design studio. Involves responsibilities and procedures for the production of communication materials for off-campus clients including nonprofit organizations, charities, arts groups and selected on-campus groups and departments. Repeatable for a total of 12 credit hours. IP permissible. Special fee: $12 per semester hour.

VCD 50092
INTERNSHIP — GRAPHIC DESIGN AND ILLUSTRATION (1-6)
Experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through part-time employment. S/U grading; IP permissible.

VCD 50095
SPECIAL TOPICS GRAPHIC DESIGN/ILLUSTRATION (1-4)
To broaden the course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. S/U grading; IP permissible. Primarily used to fulfill electives in graphic design or illustration. Repeatable for a total of 16 credit hours. Special fee: $12 per semester hour.

VCD 50193
VARIABLE TITLE WORKSHOP IN VCD (1-3)
Workshop setting dealing with intensive examination of special topics in VCD. May be repeated.

VCD 50195
SELECTED TOPICS: GRAPHIC DESIGN/ILLUSTRATION (1-4)
(Repeatable). Variable topics related to GD&I.

VCD 52000
ADVANCED ILLUSTRATION/MEDIA (3)
Discussions and practice of media and grounds as they pertain to the illustration field. Discussion will also center around the problems in developing work of reproduction. Prerequisite: visual communication design (VCD) major.

VCD 52002
EDITORIAL ILLUSTRATION (3)
Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience. Prerequisite: visual communication design (VCD) major.
### Visual Communication Design

**VCD 52003**  
**ADVERTISING ILLUSTRATION (3)**  
Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience. Prerequisite: visual communication design (VCD) major.

**VCD 52004**  
**COMPUTER ILLUSTRATION (2)**  
An introductory course on the use of the computer as an illustration tool. The class will cover the necessary computer applications for advertising, editorial and book illustration.

**VCD 52051**  
**CALLIGRAPHY AND LAYOUT (2)**  
Development of creative techniques and technical proficiency in calligraphy as applied to illustration and graphic design.

**VCD 53000**  
**ADVANCED STUDIO SKILLS/GD& I — ELECTRONIC PREPRESS PRODUCTION (2)**  
A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. This material is presented through a series of lectures, demos, written tests and field trips. Prerequisite: VCD 50003.

**VCD 53001**  
**ADVANCED KINETIC AND SEQUENTIAL GRAPHIC DESIGN (3)**  
The exploration of the use of the computer in kinetic and sequential graphic design, 3-D modeling and sound. Special fee: $28 per semester. Prerequisite: visual communication design (VCD) major.

**VCD 53002**  
**TYPOGRAPHIC/PHOTOGRAPHIC GRAPHIC DESIGN (3)**  
The use of typography (rather than visual imagery) as the primary design form in solving graphic communication problems. Special fee: $32 per semester. Prerequisite: visual communication design (VCD) major.

**VCD 53003**  
**CORPORATE IDENTITY/GRAPHIC DESIGN (3)**  
Use of graphic design forms (typography, photography and illustration) in the development of corporate identification for total advertising programs. Special fee: $28 per semester. Prerequisite: visual communication design (VCD) major.

**VCD 53004**  
**ISSUES FOR GRAPHIC DESIGN BUSINESSES (3)**  
Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry. Prerequisite: visual communication design (VCD) major.

**VCD 53005**  
**3-D GRAPHIC DESIGN — DIRECT MAIL/PACKAGING/POINT OF PURCHASE (3)**  
Use of typography and visual images, photography and illustrations, in the structure of information for communication on three-dimensional surfaces: direct mail, packaging and point-of-purchase display. Special fee: $28 per semester. Prerequisite: visual communication design (VCD) major.

**VCD 53006**  
**ENVIRONMENTAL GRAPHIC DESIGN (3)**  
Aims at coordinating architectural planning, interior design, systems analysis and graphic communications. Special Fee: $3.33/Cr. Hr. - Subject to change. Includes an independent research-based component.

**VCD 53007**  
**INFORMATION GRAPHICS (2)**  
Introduction to shapes, color, type and combinations of these for computer-designed news graphics; maps, charts, graphs and diagrams. Crosslisted with JMC 56001.

**VCD 53051**  
**EXPERIMENTAL TYPOGRAPHY (3)**  
Investigation of form, pattern and texture in typographic usage. Emphasis on linking traditional letterform technology and computer-generated forms. Special fee: $24 per semester. Prerequisite: visual communication design (VCD) major.

**VCD 55000**  
**GRAPHIC DESIGN PERSPECTIVES (3)**  
Comprehensive exploration of design through history. Topics include the early alphabet, print processes, illustration, photography, corporate design, modern design, and digital processes. Prerequisite: visual communication design (VCD) major.

**VCD 56000**  
**WEB DESIGN AND PROGRAMMING I (3)**  
Course focus is on Web concepts and high-quality Web design: computer science and visual communication design principles, tools, architecture, presentation, design and creation of Web sites through teamwork. Course is jointly taught by computer science and visual communication design. Special fee: $10 per credit hour (subject to change). Prerequisites: visual communication design (VCD) major.

**VCD 56001**  
**WEB DESIGN AND PROGRAMMING II (3)**  
Advanced course in Web technologies and multimedia Web design: Web servers, security, advanced design, Java servlets, applets, database connectivity, site maintenance, relation of actual Web sites by teamwork. Course jointly taught by computer science and visual communication design. Special fee: $10 per credit hour (subject to change). Prerequisites: visual communication design (VCD) major.
VCD 56003  
DIGITAL TYPOGRAPHY (2)  
Applying typographic rules in digital environments.  
Organizing large amounts of text in complex architectures.

VCD 56005  
VISUAL FORM AND KINETICS GRAPHICS (2)  
Visual communication design course on intermediate to advanced layout techniques focusing on kinetic graphics and video.  
Emphasis on creating specific messages with form; typography, color, space and sound.

VCD 60009  
CANDIDACY REVIEW/GRAPHIC DESIGN & ILLUSTRATION (1)  
A formal review of the work completed in the first 12 semester credit hours of graphic design and/or illustration courses for both M.F.A and M.A.  
S/U grading; IP permissible.

VCD 60053  
WEB DESIGN AND PROGRAMMING STUDIO (3)  
A joint project course (Department of Computer Science and School of Visual Communication Design) exploring advanced aspects of Web design and programming.  
Student may pursue individually defined projects or team projects for real clients.  
Limited enrollment.  Prerequisite: visual communication design.

VCD 60095  
SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION (1-4)  
To broaden course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty.  
Used to fulfill primary studio requirements in graphic design and/or illustration.  Repeatable for a total of 16 credit hours.  
May use S/U or letter grade depending on orientation of course (lecture or studio).  IP permissible.  
Special fee: $12 per semester hour.

VCD 60096  
INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION (1-16)  
Individual investigation related to topics of graphic design and illustration approved and under the direction of a faculty member.  
IP permissible.  Special fee: $12 per semester hour.

VCD 60098  
RESEARCH (1-15)  
Independent research under the direction of a faculty member in the division of Design/Illustration.  Prerequisite: Permission.

VCD 60099  
M.A. PROJECT GD & I (4)  
A research project for nonthesis-option M.A. students approved in consultation with the faculty advisor that culminates in a visual project, exhibition and formal presentations.  IP permissible.

VCD 68199  
M.A. THESIS I (2-6)  
Thesis students must register for a minimum of 6 hours, 2-6 hours in a single semester or distributed over several semesters if desired.  S/U grading; IP permissible.

VCD 68299  
M.A. THESIS II (2)  
Thesis students must continue registration each semester until all degree requirements are met.  S/U grading; IP permissible.  
Prerequisite: VCD 68199.

VCD 69199  
M.F.A. THESIS I (2-6)  
Thesis students must register for a minimum of 6 hours; 2-6 hours in a single semester or distributed over several semesters if desired.  S/U grading; IP permissible.  
Prerequisite: VCD 68199.

VCD 69299  
M.F.A. THESIS II (2)  
Thesis students must continue registration each semester until all degree requirements are met.  S/U grading; IP permissible.  
Prerequisite: VCD 69199.

SVCD 55011/65011  
SUMMER DESIGN STUDIO (1-4)  
(Repeatable for a total of 16 credit hours) Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty.
MISSION STATEMENT
The College of Education, Health, and Human Services creates and advances knowledge as it educates professionals who enhance health and well-being and enable learning across the lifespan.

The College and Graduate School of Education, Health, and Human Services offers a full range of graduate programs resulting in the Doctor of Audiology, Doctor of Philosophy, Educational Specialist, Master of Education, Master of Arts, Master of Arts in Teaching, Master of Public Health, and Master of Science degrees.

The M.Ed. degree is available in a wide variety of program areas. Many of the programs lead to licensure through the Ohio Department of Education. The M.A. degree may include a thesis requirement. This option is favored by students who are seeking an opportunity to become involved in empirical or library-based research during their master’s studies. The M.A.T. degree is designed to prepare school teachers. It is a selective, full-time program serving individuals who have never held a teaching license. The M.S. degree prepares students for clinical work in the field of nutrition.

The Educational Specialist degree is available in the areas of counseling, curriculum and instruction, educational administration (K-12 school leadership and higher education administration); educational psychology; evaluation and measurement; health education and promotion; physical education/exercise physiology; school psychology; special education; and speech pathology.

Courses and workshops are also made available to professional educators who are not seeking advanced degrees and to students of the other graduate schools of Kent State University.

The College of Education, Health, and Human Services is accredited by the National Council for the Accreditation of Teacher Education for the preparation of early childhood teachers, middle childhood teachers, adolescence to young adult teachers, intervention specialist teachers, vocational teachers and school service personnel at the baccalaureate, master’s, educational specialist and doctoral levels. Accreditation is also provided by the Accreditation Commission for Programs on Hospitality Administration (ACPHA), the Commission on Accreditation for Dietetics Education of the American Dietetic Association, American Psychological Association, American Speech-Language-Hearing Association, the Commission on Rehabilitation Education, the Council on Accreditation for Counseling and Related Educational Programs, the National Council on Education for the Deaf and the Ohio Department of Education. In addition, certification is provided by the National Council on Family Relations that enables students to become certified Family Life Educators (CFLE).

Visit [http://www.ehhs.kent.edu](http://www.ehhs.kent.edu) for more information.

The Office of GRADUATE student Services
Nancy Miller
418 White Hall
330-672-0557
nmiller1@kent.edu

The Office of Graduate Student Services performs the following functions:

- Serves as the graduate admissions office for the College and Graduate School of Education, Health, and Human Services
- Provides academic and career advising for graduate students
- Coordinates fellowship and assistantships for graduate students
- Manages registration and scheduling for graduate students
- Offers various support services for graduate students

Visit [http://www.ehhs.kent.edu](http://www.ehhs.kent.edu) for more information.
Admission

In addition to observing regular application requirements of the university, applicants must provide the following:

- The appropriate master’s degree application directly to the Office of Graduate Student Services
- A minimum of two letters of recommendation (applicants applying to Human Development and Family Studies; Gerontology; Hospitality Management; and Nutrition must provide three letters of recommendation)
- Satisfactory scores on the general knowledge portion of the Graduate Record Examination, if required
- One official transcript from each college or university in which 8 semester hours (12 quarter hours) or more were earned
- An earned 2.75 (A=4.0) undergraduate grade point average (a 3.0 grade point average required for Audiology, Educational Administration, Gerontology, Human Development and Family Studies, Nutrition, and Speech Pathology). Postbaccalaureate or prior graduate study will be taken into consideration when interpreting grade point average.

Certain program areas have additional admissions test requirements. Please note that initial licensure programs do require students to be admitted directly into the degree program. Contact the Graduate School of Education, Health, and Human Services admissions specialist at 330-672-2576 for specific information.

Students seeking licensure in teaching, pupil personnel and administration must be able to attest to good moral character. They must be able to answer no to all of the following questions:

- Have you ever been convicted of, found guilty of or pled guilty to any misdemeanor other than traffic offenses?
- Have you ever been convicted of, found guilty of or pled guilty to any felony?
- Have you ever had a criminal conviction sealed or expunged?
- Have you ever had a teaching certificate limited, suspended or revoked?
- Have you ever surrendered a teaching certificate, license or permit?

Students who cannot attest to the above should immediately contact a program counselor in the Vacca Office of Student Services, 304 White Hall, 330-672-2862. Falsification of information is grounds for dismissal and non-licensure.

In some instances, students may be admitted at the master’s level on a conditional basis. Students who are admitted conditionally may be prescribed 9 semester hours of coursework, which are to be taken as the first 9 hours at Kent State University. An earned grade below “B (3.0)” in any of the 9 hours of classes may result in dismissal. The conditional status will be removed and the students will be able to proceed in coursework upon satisfactory completion of the prescribed hours.

The following M.Ed./M.A. degree programs require that applicants hold Ohio Provisional Teaching Certificates/licenses or the equivalent:

- Computer Technology
- Math Specialist
- Reading
- School Administration
- Transition to Work

See individual programs for specializations open to applicants who do not hold teaching certificates/licenses.

Program Requirements

The number of semester hours required for completion of a master’s degree varies widely among individual programs depending upon accreditation standards, learned society guidelines and licensure requirements. Although it may be possible for the hours specified in a particular program to be adjusted based upon students’ backgrounds, the minimum number of hours for a master’s degree in the College of Education, Health, and Human Services is 32.
**PROGRAM DEFINED REQUIREMENTS**

Program areas are guided by the standards of their professional association(s) and/or accrediting body/bodies in setting their degree Program Requirements. Students are required to follow the Program Requirements defined by their respective program areas. Substitutions and waivers of program requirements are initiated by the student in consultation with their faculty advisors and must be approved by the advisor.

**TRANSFER AND NONDEGREE CREDIT**

The College and Graduate School of Education, Health, and Human Services will allow a total of 12 semester hours of graduate credit to be transferred into a master’s program. These hours can be transferred from another institution, taken while admitted as a temporary, guest, workshop or special nondegree student, or a combination of the previous. In no case, however, can more than 12 hours be used. Students cannot use more than 4 hours of workshop credit toward a degree program (if the workshops are transferred into Kent State, they must be a grade of B=3.0 or better). Also, coursework cannot be more than 6 years old for a master’s program at the time of graduation. Students must have been admitted as a graduate student at the time the course was taken in order to transfer credit.

**Master of Arts Degree**

The Master of Arts (M.A.) degree requires a minimum of 32 semester hours of graduate coursework including at least 16 semester hours at the 60000 level or above. A major consisting of 18 or more semester hours in the College of Education, Health, and Human Services is required. M.A. students have six years from the term of first enrollment to complete the program. Some programs, but not all, have six hours of Thesis I or six hours of Master’s Project. Please check with advisor. Students are expected to meet with an assigned faculty advisor and will need to file their prospectus/plan of study with the Office of Graduate Student Services, 418 White Hall. Ideally, substitutions and waivers of coursework should be noted at the time the prospectus/plan of study is submitted. Any subsequent changes to the prospectus/plan of study require a memo from the advisor to be submitted to the Office of Graduate Student Services. Waived courses do not count toward satisfaction of minimum hourly requirements for graduation.

**Master of Education Degree**

The Master of Education (M.Ed.) degree requires a minimum of 32 semester hours of graduate coursework including at least 16 semester hours at the 60000 level or above. A major consisting of 18 or more semester hours in the College of Education, Health, and Human Services is required. M.Ed. students have six years from the term of first enrollment to complete the degree.

Students are expected to meet with an assigned faculty advisor and file their prospectus/plan of study with the Office of Graduate Student Services (418 White Hall). Ideally, substitutions and waivers of coursework should be noted at the time the prospectus/plan of study is submitted. Any subsequent changes to the prospectus/plan of study require a memo from the advisor to submit to the Office of Graduate Student Services. Waived courses do not count toward satisfaction of minimum hourly requirements for graduation.

**Master of Public Health**

The Master of Public Health (M.P.H.) program at Kent State University offers a multidisciplinary, interdepartmental and inter-institutional curriculum that provides opportunities for graduate studies in public health. The M.P.H. program is consortium-based with six participating academic institutions: The University of Akron, Cleveland State University, Kent State University, Northeastern Ohio Universities College of Medicine (NEOUCOM), Ohio University, and Youngstown State University. For the application process, see [http://www.neoucom.edu/mph](http://www.neoucom.edu/mph).

The program focuses on the public health and health care practitioners in an effort to train such practitioners to better serve the community’s health needs. Graduates of this program will be able to help improve the health status of the communities in which they live and work.

**Master of Science**

The Master of Science (M.S.) program in the School of Health Sciences offers a degree in Nutrition. The nutrition program requires 32 semester hours, including a master’s thesis or master’s project. The program provides students with advanced specialization in the field of nutritional sciences and opportunities to participate in interdisciplinary research in laboratory and community settings.
Students can choose to become prepared for positions as nutritionists in clinical, community, wellness, exercise and research settings. Recent expansion of this program includes the establishment of a Dietetic Internship concentration (approved by the Commission on Accreditation for Dietetics Education of the American Dietetic Association), and a Nutrition Outreach Program. The Nutrition Outreach Program provides students the opportunity to work side-by-side with Registered Dieticians and learn nutrition assessment and counseling techniques.

**Educational Specialist Degree**

The Educational Specialist (Ed.S.) degree is a post-master's practitioner program. This is not an interim step between the master's and doctoral degrees, but provides preparation for a specialty position within the field of professional education.

**ADMISSION**

Educational specialist programs in the College of Education, Health, and Human Services practice selective admissions. Requirements include, among other things, evidence of high scholastic achievement, a high level of verbal ability and positive letters of recommendation.

All Ed.S. programs, with the exception of school psychology, require that applicants must have completed or be about to complete their master's degree from an accredited institution.

In addition to observing regular application requirements of the university, applicants must do the following:

- Submit the appropriate Ed.S. application directly to the Office of Graduate Student Services.
- Submit satisfactory scores on the general knowledge portion of the Graduate Record Examination if required.
- Submit a minimum of two letters of recommendation for admission to the Ed.S. degree program. One recommendation should be from an employer or other individual who can address the applicant’s ability in a professional work setting.
- Participate in interviews with selected program-area faculty or the program-area admissions committee as requested.
- Complete any special procedures mandated by specific program areas.
- Submit any supplemental information that may assist admissions committees in assessing academic or experiential background. Supplemental information may include such items as professional vita, publications, additional recommendations and a copy of a master's thesis.
- Have earned a master's grade point average of 3.25 or higher.

**PROGRAM REQUIREMENTS**

Upon admission to the Ed.S. degree program, students will be assigned an advisor.

Students should also be aware of the following points:

- An appropriate program should be planned with the assigned advisor early in the semester following official admission. The resulting prospectus/plan of study must be filed in the Office of Graduate Student Services. Ideally, substitutions and waivers of coursework should be noted at the time the prospectus/plan of study is submitted. Any subsequent changes to the prospectus/plan of study require a memo from the advisor submitted to the Office of Graduate Student Services. Waived courses do not count toward satisfaction of minimum hourly requirements for graduation.

- At the time of the awarding of the Ed.S. degree, students who hold a master's degree from Kent State University must have earned at least 60 semester credit hours at Kent State University beyond the baccalaureate degree. Ed.S. degree criteria allow students holding a Kent State University master's degree to apply up to 12 semester hours of credit earned at another institution to the satisfaction of the 60-semester credit hour requirement. The hours transferred may have been included in the master’s program or taken at a later date. Students holding a master’s degree from another institution must have earned at least 30 graduate semester hours of credit at Kent State University as a part of the Ed.S. program. For such students, no credit earned beyond the master’s degree at another institution may be transferred to the Ed.S. program.

- Ed.S. students have five years from the term of first enrollment to complete the degree. Coursework cannot be more than five years old at the time of graduation.

- Ed.S. students must complete the Program Defined Requirements through coursework at Kent State University or must have the courses substituted or waived based on completion of similar coursework at another institution. Waived courses do not count toward satisfaction of minimum hourly requirements for graduation.

**PROGRAM DEFINED REQUIREMENTS**

Program areas are guided by the standards of their professional association(s) and/or accrediting body/bodies in setting their degree Program Requirements.

Students are required to follow the Program Requirements defined by their respective program areas.

Substitutions and waivers of program requirements are initiated by the student in consultation with their faculty advisors and must be approved by the advisor.
**Doctor of Audiology**

The Doctor of Audiology (Au.D.) is a four-year post baccalaureate professional doctoral degree program designed to integrate classroom, laboratory and clinical experiences. Doctors of Audiology are independent professionals who specialize in the diagnosis, management and treatment of hearing and balance disorders.

The Au.D. degree program is administered jointly by Kent State University, The University of Akron and The Cleveland Clinic Foundation, working cooperatively as the Northeast Ohio Au.D. Consortium (NOAC).

**ADMISSION**

- Submit appropriate Au.D. application
- Bachelor's degree from an accredited college or university
- Grade point average of 3.0 or higher
- Two letters of recommendation
- Graduate Record Examination scores
- Personal statement of purpose as to why the applicant wishes to become an audiologist
- The application deadline for the Au.D. program is February 15. Check the Au.D. website [http://dept.kent.edu/aud](http://dept.kent.edu/aud) for more information.

**Doctor of Philosophy**

In addition to the regular application requirements of the university, applicants must do the following:

- Submit the appropriate Ph.D. application directly to the Office of Graduate Student Services.
- Submit a minimum of two letters of recommendation for admission to the Ph.D. degree program. Recommendations previously submitted for a prior degree application are not acceptable. Two letters of recommendation should be from former or current professors who can address the applicants’ potential as students.
- Submit a score from the Graduate Record Examination and any other test required by a particular program. Please check with individual program area for minimum acceptable score.
- Have earned a master’s grade point average of a 3.50 or higher in all but Speech Pathology and School Psychology, which requires a 3.0 (A=4.0).

In addition, program areas may require you to:

- Schedule a preliminary on-campus interview with the appropriate program coordinator or admission committee as early as possible in the application process. This initial interview is designed to explain steps for admission, delineate any additional specific department requirements for application, discuss program objectives and requirements, and explore the availability of graduate appointments. It is beneficial for applicants to schedule this interview far in advance of their anticipated entrance.
- Arrange to do one of the following if you are pursuing Curriculum and Instruction, Health Education and Promotion or School Psychology: Provide a written response to a professional article provided by the department or provide a sample of written work such as a thesis or published article.
- Submit any supplementary information that may assist admissions committees in assessing academic or experiential background. Supplementary information may include such items as professional vita, publications, additional recommendations and a copy of a master’s thesis.

Please note: Application deadlines indicated require that all supporting materials be received by that date. Preliminary interviews and one-hour writing samples, if applicable, must be completed well in advance of the application deadline.

**APPLICATION DEADLINES**

The doctoral program in Counseling and Human Development Services in the College of Education, Health, and Human Services selects students one time during the year. The deadline for completion of all application materials for Counseling and Human Development Services is February 1.

The school psychology doctoral program selects students several times per year. The application deadlines are:

- January 10
- June 15
- October 15

All other doctoral programs review applicants on a continuing basis.

**PROGRAM REQUIREMENTS**

After admission to the Ph.D. degree program, students plan a program of study with their respective faculty advisory committee headed by their advisor. Students’ programs may include at least one appropriate graduate-level minor or cognate as well as the major.

Students are expected to meet with their assigned faculty advisor and need to file their prospectus/plan of study with the Office of Graduate Student Services. Ideally, substitutions and waivers of coursework should be noted at the time the prospectus/plan of study is submitted. Any subsequent changes to the prospectus/plan of study require a memo from the advisor to the Office of Graduate Student Services. Waived courses do not count toward satisfaction of minimum hourly
requirements for graduation.

Although competence in reading a foreign language is not universally required of all students in the College of Education, Health, and Human Services, it may be required where the dissertation research demands it.

PROGRAM DEFINED REQUIREMENTS

Program areas are guided by the standards of their professional association(s) and/or accrediting body/bodies in setting their degree Program Requirements.

Students are required to follow the Program Requirements defined by their respective program areas.

Substitutions and waivers of program requirements are initiated by the student in consultation with their faculty advisors and must be approved by the advisor.

Student Teaching

For student teaching and any culminating internship in teacher education that requires candidates to be placed within a school or agency ("school/agency") setting, the college requires students to complete these background checks:

- Bureau of Criminal Investigation and Identification (BCII)
- Federal Bureau of Investigation and Identification (FBI)

The results should be submitted to authorized personnel at their assigned “school/agency” before the first day of the semester in which the student teaching/internship will take place. The authorized “school/agency” personnel determines whether a candidate may participate in fieldwork in that setting.

The BCII and FBI background checks are valid for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to student teaching/culminating internship. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience, 304 White Hall.

Visit the Ohio Department of Education Web site at http://ode.state.oh.us for more information about background check requirements for Ohio educators.

For specific information about the results of the background check, contact the Office of Professional Conduct at the Ohio Department of Education.

Licensure, Endorsements and Validations

All areas eligible for licensure, endorsement and validation require current teacher certification/licensure unless noted otherwise.

PRAXIS II

Candidates for licensure in Ohio will need to satisfactorily complete the appropriate portion(s) of Praxis II. This applies to persons seeking initial teaching, pupil personnel and administrative licenses, as well as anyone adding an endorsement or validation to an existing certificate/license, required. Specific licensure tests are being phased in and may not yet be available. Please contact the Vacca Office of Student Services, 330-672-2862, for additional information.

Individuals applying for initial licensure will also be required to complete a fingerprint check with the Bureau of Criminal Identification and Investigation (BCII). Anyone who has not lived continuously in Ohio for the last five years must also complete an FBI record check. Electronic fingerprinting is available in room 221 White Hall for BCII record checks. Please note: electronic fingerprinting is not an option for the FBI record check. FBI cards can be obtained in 304 White Hall.

Recommendation for licensure by the College of Education, Health, and Human Services and clearance of record checks by BCII and FBI (if appropriate) will result in the issuance of the appropriate provisional license.

All students should apply for licensure during the last five weeks of the semester in which they expect to complete all requirements.

Applications will not be processed until a student has successfully completed Praxis II Examinations and all coursework requirements. Once all requirements are completed the application will be processed by the State Department of Education in Columbus. Licenses will be issued by the state once the application is processed (approximately four to six weeks) and the background check by BCII and FBI (if appropriate) is received.

If documentation is requested by a school system prior to issuance of the license, a letter of completion will be issued by the Vacca Office of Student Services, Room 304, White Hall. This letter is a special service we offer to our students and will be available one week after the final date for which grades are to be posted on FlashFAST.

In order to be eligible to receive a letter of completion you must meet ALL of the following criteria:

- Completed all required coursework for licensure
- Licensure application on file
- Passing Praxis II score(s)

LICENSURE AREAS

The following areas are eligible for Ohio Department of Education teacher licensure through coursework offered by the College of Education, Health and Human Services:

- Early Childhood*
- Early Childhood Intervention Specialist*
Education, Health, and Human Services

- Deaf Education*
- Library/Media*
- Middle Childhood Education* (MCED students can earn the generalist license. It typically only involves undergraduate coursework but a graduate student might also be eligible to add it onto the MCED license.)
- Mild/Moderate Intervention Specialist*
- Moderate/Intensive Intervention Specialist*

*Initial licensure available at the graduate level. Requires no prior certification or licensure.

The Master of Arts in Teaching program is available for initial licensure in specific areas of adolescence to young adult education, early childhood education, multi-age areas and career-technical teacher education. Major subject area coursework must be completed prior to entry into the program.

The following areas are eligible for Ohio Department of Education educational personnel licensure through coursework offered by the College of Education, Health, and Human Services:

- Principal
- School Counselor*
- School Psychologist*
- Superintendent
- Educational Administrative Specialist with concentrations in the following:
  - Educational Research
  - Pupil Services Administration
  - School Community Relations
  - Staff Personnel Administration
  - Vocational Education Administration, Curriculum, Instruction and Professional Development

- Audiologist*
- Speech-Language Pathologist*

ENDORSEMENTS

The following areas are eligible as endorsements by the Ohio Department of Education through College of Education, Health and Human Services graduate studies:

- Computer Technology
- Gifted Education
- Pre-Kindergarten
- Reading
- Transition to Work
The College of Education, Health, and Human Services courses are listed under the following prefixes:

ADED  Adolescence to Young Adult
CHDS  Counseling and Human Development Services
CTTE  Career-Technical Teacher Education
C&I  Curriculum and Instruction
ECED  Early Childhood Education
EDAD  Educational Administration
EDPF  Educational Psychology Foundations
ELS  Exercise Leisure and Sport
GERO  Gerontology
HED  Health Education and Health Promotion
HDFS  Human Development and Family Studies
HIED  Higher Education Administration and Student Personnel
HM  Hospitality Management
ITEC  Instructional Technology
MCED  Middle Childhood Education
MPH  Master Public Health
NUTR  Nutrition
RHAB  Rehabilitation Counseling and Training
SEED  Secondary Education
SP&A  Speech Pathology and Audiology
SPED  Special Education
SPSY  School Psychology

**Adolescence to Young Adult (ADED)**

ADED 52267
IMPROVING MATHEMATICS INSTRUCTION FOR ADED  (3)
Methodology and materials for effective teaching of secondary school mathematics.

**Counseling and Human Development Services (CHDS)**

CHDS 50093/70093
VARIABLE TITLE WORKSHOP IN COUNSELING AND HUMAN DEVELOPMENT SERVICES  (1-4)
Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of College of Continuing Studies. Limit of 6 hours with advisor’s permission toward any degree program. S/U grading; IP permissible. May be repeated.

CHDS 60199
THESIS I  (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

CHDS 60299
THESIS II  (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CHDS 60199.

CHDS 64084/74084
BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS  (1-3)
Behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged. IP permissible.

CHDS 67530/77530
INTRODUCTION TO COUNSELING  (3)
A survey of counseling practice that examines the nature of counseling processes and relationships as described from major theoretical perspectives.

CHDS 67531/77531
INDIVIDUAL COUNSELING PROCEDURES  (3)
Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.
CHDS 67571/87571
ADVANCED INDIVIDUAL COUNSELING PRACTICUM (3)
Supervised experience in counseling. Students meet for individual supervision and in seminar groups to assess their effectiveness in helping relationships. May be repeated. Prerequisite: Minimum grade of B- (2.7) in CHDS 6/88166 and grade of S in CHDS 6/77636 and 6/77637.

CHDS 67580/77580
MULTICULTURAL COUNSELING (3)
Seminar focused on information and sensitivities needed to work effectively with the culturally different. Consideration given to such issues as racism and cultural, institutional and political oppression.

CHDS 67591/77591
SEMINAR IN COUNSELING AND HUMAN DEVELOPMENT SERVICES (1-3)
Variable topic seminars considering problems, research and current practices for counselors and personnel workers. Topic to be announced in Schedule of Classes booklet. Prerequisite: Special approval.

CHDS 67595/87595
SPECIAL TOPICS IN COUNSELING AND HUMAN DEVELOPMENT SERVICES (1-3)
Presentation of topics of special interest to students in counseling and human development services. Offered irregularly. Topics will be announced in Schedule of Classes booklet. Prerequisite: Special approval.

CHDS 67596/87596
INDIVIDUAL INVESTIGATION IN COUNSELING AND HUMAN DEVELOPMENT SERVICES (1-3)
Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: Special approval.

CHDS 67628/77628
DIAGNOSIS IN COUNSELING (3)
To develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis. Prerequisite: Special approval.

CHDS 67636/77636
PRACTICUM I: COMMUNITY COUNSELING (3)
Enrolees begin supervised practice of counseling with clients, primarily in the Guidance Bureau Individual supervision and seminar discussion are used for the development of counseling skills, strategies and professional role. S/U grading; IP permissible. Prerequisites: minimum B- (2.7) grade in CHDS 67530 and 67531 and 67663 and 67820 and 68126 and 68182; and community counseling (CCON) major

CHDS 67637/77637
PRACTICUM II: COMMUNITY COUNSELING (1-3)
This involves individual counseling and group work with appropriate populations. Case load geared toward preparation for internship. May be repeated. Open to admitted community counseling students only. S/U grading; IP permissible. Prerequisite: CHDS 67636 and admitted community counseling (CCON) students. Special fee: $10 per credit hour.

CHDS 67663/77663
COMMUNITY COUNSELING (3)
Attention is given to the identity, professional standards and organizations and employment settings of the community counselor. Models of problem definition, administrative structure and service delivery will be explored.

CHDS 67664/77664
ADDICTIVE BEHAVIOR AND TREATMENT ISSUES (3)
Current controversies in the study of addiction and drug abuse with an emphasis on implications for treatment and prevention.

CHDS 67665/77665
SUBSTANCE ABUSE COUNSELING (3)
Provides students with practical knowledge/procedures in assessing suspected substance abuse/chemical dependence and determining appropriate intervention techniques, treatment strategies and counseling. Various models of counseling will be presented and critiqued for their strengths and limitations with “CD” emphasizing the Minnesota Model of Treatment.

CHDS 67695/77695
SPECIAL TOPICS IN COMMUNITY COUNSELING (1-3)
Presentations of special interest to students. Offered irregularly. Topics will be announced in Schedule of Classes booklet. Prerequisite: Special approval.

CHDS 67698/77698
INDIVIDUAL RESEARCH IN COMMUNITY COUNSELING (1-9)
Student pursues research project on selected aspect of community counseling under supervision of instructor. Arrangements with instructor must be made prior to registration. Repeat registration permitted. Prerequisite: Special approval.

CHDS 67810/77810
GROUP PROCESS AND ANALYSIS (3)
Experiential/didactic study of group dynamics to gain familiarity with group dynamics research and application with an emphasis on task groups.

CHDS 67815/77815
LABORATORY IN INTERPERSONAL ENCOUNTER (1)
A personal growth experience emphasizing openness and awareness, while developing skills in building human relationships in small groups. S/U grading; IP permissible.
CHDS 67820/77820
GROUP WORK: THEORY AND TECHNIQUES (3)
Didactic and experiential training in how to facilitate personal and interpersonal development in small groups, including group guidance, structured theme counseling and growth groups.

CHDS 67836/77836
SMALL GROUP PRACTICUM (3)
Supervised practice in conducting small groups for counseling, personal growth purposes. Both structured and unstructured group experiences are included. S/U grading; IP permissible. Prerequisite: CHDS 6/77820. Special fee: $30 per semester.

CHDS 67840/77840
THEORIES AND METHODOLOGY OF ORGANIZATION DEVELOPMENT (3)
Study of theorists/practitioners in organization development. Involves exploration of consultant role, intervention theory and methods of systems change applied to groups and organizations. Prerequisite: Three of the following: CHDS 6/77810, 6/77835, 77838 and 6/77839.

CHDS 67858/77858
SEMINAR: GROUP COUNSELING (2)
Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group. Prerequisite: Special approval.

CHDS 68000/78000
GUIDANCE OF “AT RISK” YOUTH (3)
Counselors will be provided information that helps them identify individual(s) with highest potential for “at riskness,” understand the causal factors for “at riskness,” and recognize the behaviors that place individuals “at risk.” Prerequisite: CHDS 6/78068.

CHDS 68011/78011
FOUNDATIONS OF SCHOOL COUNSELING (3)
Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel, and on the development of comprehensive school counseling programs.

CHDS 68036/78036
SCHOOL COUNSELING PRACTICUM (4)
Supervised counseling practice in the Counseling and Human Development Center and/or in the schools. Engage in counseling with children, teachers and colleagues. Direct observation and audio-video recording and supervisory critiques used for counseling skills. S/U grading; IP permissible. Prerequisite: CHDS 6/77530, 6/77531, 6/77820, 6/78069 and special approval. Special fee: $30 per semester (subject to change).

CHDS 68060/78060
PROFESSIONAL SEMINAR IN SCHOOL COUNSELING (3)
Development and identity of school counseling, with special emphasis on role, current issues and ethics. Prerequisite: Restricted to students in school counseling program.

CHDS 68066/78066
COUNSELING ADOLESCENTS (3)
A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans, and referral procedures for youth will be covered. Prerequisite: Minimum grade of B- (2.7) in CHDS 6/77530 and 6/77531.

CHDS 68067/78067
COUNSELING CHILDREN (3)
Seminar focusing on intra- and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play, media. Prerequisite: CHDS 6/77530, 6/77531.

CHDS 68068/78068
SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP (3)
Focuses on the management, leadership, and implementation of comprehensive school counseling program including developmental counseling approaches, management systems, and outcome research. Prerequisite: Minimum grade of B- (2.7) in CHDS 6/78011.

CHDS 68069/78069
ORIENTATION TO SCHOOL COUNSELING (3)
Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards, roles and functions of school counselors, and ethical standards and legal issues.

CHDS 68095/78095
SPECIAL TOPICS IN SCHOOL COUNSELING (1-3)
Presentations of special interest to students. Offered irregularly. Topics will be announced in Schedule of Classes booklet. Prerequisite: Special approval.

CHDS 68098/78098
INDIVIDUAL RESEARCH IN SCHOOL COUNSELING (1-9)
Student pursues research project on a selected aspect of school counseling under the supervision of instructor. Arrangements with instructor must be made prior to registration. Credit hours and course level to be fixed at registration time. Repeat registration permitted. S/U grading. Prerequisite: Special approval.
CHDS 68126/78126
PRINCIPLES OF MEASUREMENT AND APPRAISAL (3)
Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to community and school counseling settings. Measurement theory and concepts related to the appraisal process will be presented.

CHDS 68128/78128
INDIVIDUAL APPRAISAL IN COUNSELING (3)
A laboratory experience in selecting, administering, and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology. Prerequisite: Minimum grade of B- (2.7) in CHDS 68126 or 78126 and CHDS 67628 or 77628 and graduate/doctoral standing.

CHDS 68130/78130
PSYCHOPATHOLOGY FOR COUNSELORS (3)
This course covers the etiology and treatment of various disorders covered in the current DSM System. Assessment, treatment and psychopharmaceutical aspects of treatment are considered. Prerequisite: Minimum grade of B- (2.7) in CHDS 6/77628 and graduate/doctoral standing.

CHDS 68165/78165
CAREER COUNSELING (3)
An analysis of the major approaches to career counseling, including use of diagnosis, test interpretation and occupational information. Prerequisite: 6/78182 and graduate/doctoral standing.

CHDS 68167/88167
ADVANCED COUNSELING PROCEDURES (3)
Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used. Prerequisite: Minimum grade of B- (2.7) in CHDS 67628 or 77628 and grade of S in CHDS 67636 or 77636 and graduate/doctoral standing.

CHDS 68168/88168
ADVANCED COUNSELING THEORIES (3)
Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used. Prerequisite: Grade of S in CHDS 67636 or 77636 and graduate/doctoral standing.

CHDS 68181/78181
GESTALT THERAPY (3)
Introductory course on theory and techniques of Gestalt Therapy.

CHDS 68182/78182
CAREER DEVELOPMENT AND GUIDANCE (3)
The world of work, theories of career choice, techniques in career guidance. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.

CHDS 68284/88284
SUPERVISION OF COUNSELING (3)
This seminar focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences. Prerequisite: Grade of S in CHDS 67637 or 77637; and 77692 and graduate/doctoral standing.

CHDS 68525/78525
INTRODUCTION TO FAMILY THERAPY (3)
Overview of families and family therapy highlighting systems theory, and issues of therapy related to family life cycle, family ethnicity, family processes, the professional and identity of family therapists and the discovery of personal assumptions about families.

CHDS 68529/78529
COUPLES THERAPY: THEORY AND TECHNIQUES (3)
Study of selected marriage therapy theories. Focus on concepts and techniques and their application in the therapeutic setting. CHDS 6/78525 and/or permission; graduate/doctoral standing.

CHDS 68531/78531
PREPRACTICUM: MARRIAGE AND FAMILY THERAPY TECHNIQUES (3)
Focuses on gaining and integrating observational, conceptual and therapeutic skills of family therapy in a “learning by doing” atmosphere. Utilizing videotape, simulation and initial interviewing of families, students will acquire basic family therapy skills. IP permissible. Prerequisite: CHDS 6/78529, 6/78533 and graduate/doctoral standing.

CHDS 68533/78533
FAMILY THERAPY: THEORY AND TECHNIQUES (3)
Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic, experiential and applied atmosphere. Prerequisite: CHDS 6/78525 and/or special approval and graduate/doctoral standing.

CHDS 68535/78535
ASSESSMENT AND RESEARCH IN MARRIAGE AND FAMILY THERAPY (3)
Utilization of assessment skills, techniques and instruments relevant to the practice of marriage and family therapy will be focused upon. Critical judgment regarding research design and findings will be emphasized. Special fee: $15 per semester.
CHDS 68536/78536
PRACTICUM IN MARRIAGE AND FAMILY THERAPY (3)
An intensive-extensive supervised experience in the practice of marriage and family therapy. Live, video and audio supervisory processes may be utilized to assist with skill development. S/U grading; IP permissible. Repeat registration permitted. Controlled registration. Prerequisite: CHDS 6/78529 and 6/78533 and/or special approval. Graduate/doctoral standing. Special fee: $30 per semester.

CHDS 68538/78538
ADVANCED MULTICULTURAL COUNSELING (3)
This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided. Prerequisite: CHDS 6/77531 and 6/77580 and graduate/doctoral standing.

CHDS 68591/78591
SEMINAR: MARRIAGE AND FAMILY (3)
Focuses on issues of concern to the marriage and family therapist: family violence, sexuality, divorce, blended families, chronic illness, etc. Relevance to issues raised in practicum will be stressed.

CHDS 77584
WRITING FOR PROFESSIONAL PUBLICATIONS (3)
Seminar experience designed to prepare professionals to publish research findings, conceptualizations and professional field experiences in refereed journals and books. Elements of grant writing also treated.

CHDS 77692*
INTERNSHIP IN COMMUNITY COUNSELING (2-10)
Assignment to community and/or college counseling center for extensive and intensive applications appropriate for counseling, consulting and coordinating. Supervision of internships shared jointly by counseling center and university instructor. Placement is full-time for one semester or longer. Credit hours to be fixed at registration time. May be repeated. S/U grading; IP permissible. Prerequisite: Community counseling (CCON) major.

CHDS 77838
PLANNING AND IMPLEMENTING ORGANIZATIONAL CHANGE (3)
An introduction to basic conceptions of schools and human service organizations as complex organizations and to frameworks useful in conceptualizing organizational change.

CHDS 78092*
INTERNSHIP IN SCHOOL COUNSELING (2-6)
Assignment to a school for extensive and intensive applications appropriate for school counseling, consulting, and coordinating. Prerequisite: Doctoral standing and special approval.

CHDS 78130
PSYCHOPATHOLOGY FOR COUNSELORS (3)
This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment and psychopharmacological aspects of treatment are considered. Prerequisite: Minimum grade of B- (2.7) in CHDS 67628 or 77628 and doctoral standing.

CHDS 80090
DOCTORAL RESIDENCY SEMINAR IN COUNSELING AND HUMAN DEVELOPMENT SERVICES (3)
Focus on professional identity, current issues and trends, and involvement in professional activities. Restricted to students admitted to doctoral program in CHDS. S/U grading; IP permissible.

CHDS 80199
DISSERTATION I (15)
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

CHDS 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CHDS 80199 and doctoral standing.

CHDS 87871
ADVANCED PRACTICUM IN SMALL GROUP WORK (4)
Supervised experience in group counseling, training, facilitation and/or leadership in field setting or guidance bureau. Students meet in small groups to assess their work, obtain feedback from observers and integrate these learnings into better facilitative behavior. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: CHDS 6/77836 and doctoral standing. Special fee: $30 per semester.

CHDS 88180
RESEARCH IN COUNSELING PROCESS AND OUTCOME (3)
Review of classic and current studies in counseling process and outcome, research trends and issues, design strategies and assessment procedures. Focus is on thorough understanding, critique skills and synthesis. Prerequisite: Master’s in counseling and human development services and EDPF 60098, 68706, 78716, 78898, doctoral standing and special approval.

CHDS 88281
RESEARCH SEMINAR IN COUNSELING AND HUMAN DEVELOPMENT SERVICES (3)
Topics or problems of current concern in counseling and human development services. Review of significant studies, design strategies, instrumentation, data analysis and research issues. Topic to be announced in Schedule of Classes booklet. May be repeated. Prerequisite: EDPF 60098, 68706, 78716 and 78898 and doctoral standing.
CHDS 88285
PRACTICUM IN COUNSELOR SUPERVISION (2)
Supervision of students in introductory practica provides learning activity to implement supervisory approach. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: CHDS 88284 and doctoral standing.

CHDS 88286
DEVELOPMENT OF COUNSELOR EDUCATION PROGRAMS (3)
Review of the planning, implementation and evaluation process in counselor education curricula. Skill development is fostered by simulation, case study and discussion of program design and review. Prerequisite: Students admitted to doctoral program in counseling and human development services.

CHDS 88292*
INTERNSHIP IN COUNSELING AND HUMAN DEVELOPMENT SERVICES (3-6)
Professional service in field setting appropriate for counseling, consulting and personnel work, under supervision. May be repeated. Completion of program course requirements is necessary prior to registration. Prerequisite: Doctoral standing and special approval.

CHDS 88294
COLLEGE TEACHING IN COUNSELING AND HUMAN DEVELOPMENT SERVICES (3)
Application of planning, instructional and evaluation skills. Doctoral students lead skill-training groups, lecture a large class and guide group discussion with faculty supervision. Arrangements for this experience to be made before semester begins. Prerequisite: CHDS 88286 and doctoral standing.

CHDS 88298
INDIVIDUAL RESEARCH IN COUNSELING AND HUMAN DEVELOPMENT SERVICES (1-3)
Individual research on selected aspect of counseling and human development services under supervision of instructor. Arrangements with instructor must be made prior to registration. Repeat registration permitted. S/U grading. Prerequisite: Doctoral standing and special approval.

CHDS 88584
MARRIAGE AND FAMILY SUPERVISION/CONSULTATION (3)
Focus placed on epistemologic articulation of one’s therapeutic and training approach and development of conceptualization and intervention skills of supervision. Prerequisite: CHDS 6/78536 and doctoral standing. Special fee: $30 per semester.

*Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned “school/agency” before the first day of the semester in which the student teaching/internship will take place.

Career-Technical Teacher Education (CTTE)

CTTE 50093/70093
VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION (1-5)
Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education. S/U grading. Prerequisite: Permission.

CTTE 54618
ELEMENTS EXPERIENCE-BASED EDUCATION (3)
Examination of various aspects of experience-based education. Includes exploratory, observation, laboratory and paid work experiences.

CTTE 55372
ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS (3)
Exploration of issues and trends unique to specific career-technical education subjects.

CTTE 55377
CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES (3)
Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field/clinical hours.

CTTE 56001
ORGANIZATION OF CAREER AND TECHNICAL EDUCATION (3)
Study of the principles and subject areas related to career and technical education at middle school, secondary and adult education levels.

CTTE 56002
IN-SERVICE TEACHING I (2)
Overview of teaching process in career technical teacher education. Emphasizes techniques of skill development and assessment, includes organizing for instruction, individual behavior, organizational relationships and application steps.

CTTE 56003
IN-SERVICE TEACHING II (1)
Continuation of CTTE 56002. Involves professional development, licensure preparation for career technical instructors and organized class instruction.

CTTE 56015
METHODS OF CAREER AND TECHNICAL EDUCATION (3)
Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.
CTTE 56017
STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION (3)
Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.

CTTE 56018
DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION (3)
Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education programs.

CTTE 56019
COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS (3)
Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development, servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/industry and education support agencies for career and technical development.

CTTE 56020
CURRICULUM GUIDE: DESIGN AND APPLICATION (3)
Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field/clinical hours.

CTTE 56029
TRAINING AND DEVELOPMENT
An overview of training and development activities in profit and non-profit organizations. Principles of teaching adults in the work place are supplemented with curriculum design and instructional methodologies.

CTTE 56031*
STUDENT TEACHING IN CAREER TECHNICAL EDUCATION (9)
Provides a 12 week student teaching experience in a career-technical program setting. See “Student Teaching” section in this catalog. Prerequisite: Eligible for admission to student teaching and career and technical teacher education (CTTE) major or trade and industrial education (TIED). Corequisite: CTTE 59525.

CTTE 56092*
INTERNSHIP, PRACTICUM AND FIELD EXPERIENCE IN CAREER TECHNICAL EDUCATION (2-5)
Supervised internship, practicum or field experience in specific occupations. S/U grading. Prerequisite: Permission.

CTTE 56095/76095
SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION (1-3)
Specialized offerings in response to emerging or selected program needs in career-technical education. Prerequisite: Permission.

CTTE 56096/76096
INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION (1-3)
An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member. S/U grading. Prerequisite: Permission.

CTTE 56192
PRACTICUM: OCCUPATIONAL (1-6)
Supervised work experience in occupation to obtain initial experience or to update skills. S/U grading. Prerequisite: Permission.

CTTE 59525
INQUIRY INTO PROFESSIONAL PRACTICE (3)
Interdisciplinary inquiry into career/technical teaching as a professional practice in education; emphasis on teacher as disciplined investigator. Final course of four. Combination of themes; utilization of teaching/learning technologies.

CTTE 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Permission.

CTTE 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CTTE 60199.

CTTE 66001
PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION (3)
Study of principles, current practices and trends relating to modern programs of career-technical education and relationships to the total plan of public education.

CTTE 66003
ANALYSIS OF HUMAN RESOURCE DEVELOPMENT (3)
Provides analysis of human resource development from global, national, state and local perspectives including social, economic, political and demographic influences. Includes the application of the contemporary workforce to engage in lifelong learning to keep career and technical skills updated.

CTTE 66004
PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION (3)
Designed to provide the skills and knowledge necessary to evaluate the effectiveness and efficiency of career-technical education curriculum programs personnel.
CTTE 66005
SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION (3)
A study of the special populations student in career technical education programs emphasizing characteristics, curriculum modification, instruction and job placement.

CTTE 66095/76095
SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION (1-3)
Specialized offerings in response to emerging or selected program needs in career-technical education.

CTTE 66096/76096
INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION (1-3)
An investigation into problems and topics in career-technical education. The investigation is pursued on an individual basis with an assigned faculty member. S/U grading. Prerequisite: Permission.

CTTE 86098
ADVANCED RESEARCH IN CAREER-TECHNICAL EDUCATION (1-15)
Student pursues an individual research project on a specialized career-technical education topic with approval and under the direction of an instructor. S/U grading; IP permissible. Prerequisite: Permission.

*Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned “school/agency” before the first day of the semester in which the student teaching/internship will take place.

Curriculum and Instruction (C&I)

C&I 50093/70093
VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION (1-5)
Variable topic workshop designed to respond to curriculum trends and issues and specialized needs. S/U grading.

C&I 50095
SPECIAL TOPICS: WORKSHOP/SEMINAR IN CURRICULUM AND INSTRUCTION (1)
Special topic seminar workshop for international baccalaureate program.

C&I 57330
READING AND WRITING IN ADOLESCENCE/ADULTHOOD (3)
Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments and teaching students who struggle as readers and writers.

C&I 57501
TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES (3)
This course addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.

C&I 57502
SCIENCE TEACHING IN EARLY AND MIDDLE GRADES (3)
This course addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. In addition, students will examine how to best align science practice to state and national science standards.

C&I 57503
TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES (3)
This course addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.

C&I 57504
TEACHING READING, AND WRITING IN MIDDLE GRADES (3)
Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades K-9, based on the national content and process standards.

C&I 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

C&I 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: C&I 60199.

C&I 61125/71125
ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION (3)
This course will provide an overview of historical trends and contemporary issues in social studies education.

C&I 61126/71126
RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING (3)
During this course students will examine, discuss, and study research in the teaching and learning of social studies as well as develop their own study of social studies teaching and learning.

C&I 61127/71127
TECHNOLOGY AND SOCIAL STUDIES (3)
Course provides experiences with and study of various uses of technology in social studies teaching and learning. During the course, we will examine implications and effects of technology on student learning, teaching, and society as a whole.
C&I 61130/71130
MULTICULTURAL EDUCATION: STRATEGIES (3)
Teachers will be provided with knowledge and strategies for teaching children to function effectively in a pluralistic society.

C&I 61133/71133
ISSUES AND TRENDS IN ELEMENTARY SCIENCE (3)
New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.

C&I 61134/71134
RESEARCH TRENDS IN SCIENCE EDUCATION (3)
Course in issues relating to research methods pertinent to science education.

C&I 61140/71140
CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION (3)
This course provides a general introduction to the impacts of multiculturalism and the social studies of science on science education implications for science educational curriculum theory, classroom practice, and research are explored. Topics examined include race and gender in science education, teaching the culture of science and teaching science in a global context.

C&I 61141/71141
NATURE OF SCIENCE IN SCIENCE EDUCATION (3)
Course in issues relating to the nature of science as it impacts science education.

C&I 61142/71124
HISTORY AND INQUIRY IN SCIENCE EDUCATION (3)
This course will investigate the continuing debate for what counts as science and how that vision has been represented throughout history. The impacts of the political, economic and societal factors on the nature of scientific inquiry will also be discussed within a historical context.

C&I 67001/77001
FUNDAMENTALS OF CURRICULUM (3)
Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and nonschool curricula.

C&I 67002/77002
CURRICULUM LEADERSHIP (3)
This course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal. Prerequisite: C&I 67001.

C&I 67003/77003
TEACHER EDUCATION (3)
This course is designed to provide a broad overview of teacher education, including curriculum, organization, governance and policy.

C&I 67004/77004
PROFESSIONAL DEVELOPMENT IN TEACHING (3)
This course is designed to provide a broad overview and conceptual framework for professional development, including its historical, cultural, psychological and social contexts.

C&I 67007
CRITICAL REFLECTION IN CURRICULUM AND INSTRUCTION (2)
Capstone course for a master's degree in curriculum and instruction. Students critique their content area studies with reference to the standard of curriculum-based pedagogy. Three concepts inform this critique: continuing professional development, multicultural education, curriculum leadership for reform and renewal. Prerequisite: CI 67001.

C&I 67010/77010
CURRICULUM EVALUATION (3)
Students will focus on designing program evaluation related to assessment, development and implementation of curricula, critique of national and local curricular programs, application elements of evaluation models. Prerequisite: CI 6/77001.

C&I 67091
SEMINAR IN CURRICULUM AND INSTRUCTION (1-4)
A wide range of topics for advanced graduate inquiry. Normally a balance of theoretical study and creative application.

C&I 67092/77092*
ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION (1-10)
Advanced practicum in curriculum and instruction. Prerequisite: special approval. S/U grading.

C&I 67095/77095
SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION (1-5)
Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.

C&I 67096/77096
INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION (1-5)
Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. S/U grading; IP permissible.

C&I 67098/87098
RESEARCH IN CURRICULUM AND INSTRUCTION (1-15)
Students pursue an individualized research project on a specialized topic with approval and under direction of instructor. S/U grading; IP permissible.
C&I 67105/77105
IMPROVING CLASSROOM INSTRUCTION (3)
Emphasizes motivation, varied materials and methods, individual needs and sources of teacher help. Class members define goals and means.

C&I 67107/77107
CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES (3)
History, philosophy, curriculum and organization of schools serving children ages 8-15. Emphasis on development of programs and curriculum that are responsive to the needs of early adolescents.

C&I 67108/77108
TEACHING AND LEARNING IN THE MIDDLE GRADES (3)
Pedagogical theories and practices; approaches to instruction, relationship of teaching to learning and development for children ages 8-15.

C&I 67224/77224
TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS (3)
The purpose is to develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Further to develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics. Prerequisite: one course in Mathematics at MATH 11011, or above. (77224 available Fall 2010)

C&I 67225/77225
RESEARCH IN MATHEMATICS EDUCATION (3)
Current research theory, methodology and results in mathematics education will be investigated. Implications for instructional practice and curriculum design will be examined.

C&I 67226/77226
IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD (3)
Instructional psychology and materials including technology for the effective teaching of mathematics in grade three through eight with a theoretical emphasis on cognitive development.

C&I 67227/77227
ASSESSMENT IN MATHEMATICS EDUCATION (2)
Investigation of standards and practices in mathematical assessments as recommended by NCTM and current research. Prerequisite: Completion of two of the following: ADED 52267, C&I 67224, C&I 67226 or ECED 50147.

C&I 67228/77228
INTERVENTION IN MATHEMATICS INSTRUCTION (2)
Investigation of alternative methods of teaching mathematics to diverse learners who experience difficulties in learning mathematics.

C&I 67240/77240
INTRODUCTION TO ENVIRONMENTAL EDUCATION (3)
Survey course emphasizes current debates in environmental issues, exploring the inter-connectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.

C&I 67292/77292
CLINICAL PRACTICUM IN MATHEMATICAL ASSESSMENT (2)
Experience in designing and administering both formal and informal assessments. Prerequisite: Completion of two of the following: ADED 52267, C&I 67224, C&I 67226 and ECED 50147.

C&I 67310/77310
THEORY AND PRACTICE IN THE TEACHING OF READING (3)
Nature and development of reading, approaches to instruction, relation to learning and development.

C&I 67311/77311
INTEGRATED LANGUAGE ARTS INSTRUCTION (3)
Issues and trends in instruction in listening and in oral and written expression.

C&I 67312/77312
TEACHING WRITING AS A PROCESS (3)
Emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.

C&I 67314/77314
SURVEY OF YOUNG ADULT LITERATURE (3)
Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.

C&I 67315/77315
SURVEY OF CHILDREN'S LITERATURE (3)
Cross-listed with ENG 6/76052. Wide reading in children's literature, with particular application to school curriculum and field of reading.

C&I 67316/77316
CRITICISM OF CHILDREN'S LITERATURE (3)
Cross-listed with ENG 6/76053. A critical study of outstanding children's literature from early times to present. Prerequisite: C&I 6/77315.

C&I 67318/77318
TEACHING DRAMA IN THE CLASSROOM (3)
Presents an in-depth survey of selected types of drama appropriate for elementary- and middle-school children. Theory and practice are emphasized.
C&I 67319/77319
DIAGNOSIS AND REMEDIATION IN READING (3)
Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural, linguistic, cognitive and affective factors in diagnosing and remediating reading problems. Prerequisite: C&I 6/77310.

C&I 67320
TEACHER AS LITERACY RESEARCHER (3)
Capstone experience in master's program in literacy in which students pursue an individualized literacy research program. Prerequisite: EDPF 65510 or EDPF 65511, or C&I 67351.

C&I 67323/77323
CLINICAL PRACTICUM IN CORRECTIVE READING (4)
Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting. S/U grading; IP permissible. Prerequisite: C&I 67319.

C&I 67330/77330
READING IN CONTENT AREAS (3)
Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through postsecondary years.

C&I 67331/77331
LITERACY LEARNING IN EARLY YEARS (3)
Emphasizes developmental nature of literacy learning in preschool and primary grades; provides techniques for establishing effective reading and writing programs for young children.

C&I 67333/77333
BLACK WOMEN AND LITERACY (3)
This graduate level course is designed to support inquiry into literacy and its implications for women from the African diaspora. Several aspects of literacy will be considered, i.e., verbal, visual, and graphic. Questions will be raised about the implications of these forms of literacy for black women in different geographical locations.

C&I 67337/77337
THEORY AND PRACTICE IN TEACHING LITERATURE — SECONDARY AND COLLEGE (3)
This course provides a rationale for and means of relating literary theory to classroom practice and pedagogical research. For secondary and postsecondary English teachers.

C&I 67338/77338
TEACHING BASIC WRITERS — SECONDARY AND COLLEGE (3)
Current theory and practices for teaching linguistically diverse writers at the secondary and postsecondary levels. Foundations for teaching language in the context of writing.

C&I 67339/77339
WRITING ASSESSMENT AND RESPONSE (3)
Exploration of issues in writing assessment, theoretical base for effective formative response to student writing, and design and implementation of writing-assessment measures.

C&I 67345/77345
ORGANIZATION AND SUPERVISION OF READING PROGRAMS (3)
Background and strategies for organizing and supervising reading programs. Emphasis on the state of the field, roles and responsibilities and current issues.

C&I 67350/77350
COLLEGE/ADULT READING INSTRUCTION (3)
Reading strategies for teachers of adult learners with emphasis on the role of the teacher and the development of programs.

C&I 67351/77351
PERSPECTIVES ON LITERACY RESEARCH (3)
Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy. Prerequisite: Reading specialization (READ) major.

C&I 67352/77352
LITERACY COACHING (3)
Focus on principles and strategies related to literacy coaching prekindergarten to adult, within classrooms, schools, and districts. Prerequisite: Cl 67310 or Cl 77310, and Cl 67319 or Cl 77319, and Cl 67323 or Cl 77323, and Cl 67330 or Cl 77330, and MCED 50005.

C&I 67392/77392*
ADVANCED PRACTICUM AND INTERNSHIP IN READING (1-10)
Supervised program requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member.

C&I 67395/77395
SPECIAL TOPICS IN READING (1-5)
Specialized offerings in response to emerging or selected program needs in reading.

C&I 67396/77396
INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS (1-5)
Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. S/U grading; IP permissible.

C&I 67592/77592
PRACTICUM MATH INTERVENTION (3)
PRACTICUM MATH INTERVENTION. Prerequisites: Choose 2 of 4: ADED 52267, CI 67224 and 67226, ECED 50147.
C&I 67791/77791
SEMINAR IN MATHEMATICS EDUCATION (3)
An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education will be conducted.

C&I 80089
RESIDENCY I (3)
Beginning doctoral seminar. Students begin to explore the field of curriculum and instruction by reading and discussing foundational and current theories and research in the field. Students will begin to identify and explore their research interests in the field. S/U grading.

C&I 80090
RESIDENCY II (3)
Advanced doctoral seminar. This will be a structured opportunity for students to synthesize research from the field, explore research options for their dissertation study, review literature for their research studies, and discuss the development of their research. Prerequisite: C&I 80089.

C&I 80199
DISSERTATION I (15)
Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

C&I 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: C&I 80199.

C&I 87000
THEORY AND RESEARCH IN TEACHING (3)
Focuses on critical study of contrasting approaches to the study of teaching processes. Surveys issues to give students a more critical perspective and to provoke thought about the relationship among theory, research and practice. Required of C&I Ph.D. students.

C&I 87001
THEORY AND RESEARCH IN CURRICULUM (3)
Focuses on historic and contemporary examples of curriculum theory and their application in curriculum design, development and evaluation. Examines modes of inquiry used by curriculum researchers and contemporary curriculum issues. Prerequisite: C&I 6/77001. Required of C&I Ph.D. students.

C&I 87002
FORMS OF INQUIRY (3)
Introduction to the history, context, philosophy and ethics of inquiry in curriculum and instruction. Emphasis on acquainting C&I doctoral students with faculty lines of inquiry and research foci, while preparing doctoral students for critical consumption of and significant contribution to inquiry in C&I.

C&I 87091
SEMINAR IN CURRICULUM AND INSTRUCTION (1-4)
A wide range of topics for advanced graduate inquiry. Normally a balance of theoretical study and creative application.

C&I 87340
RESEARCH IN READING (3)
An introduction to a perspective on psychological processes underlying levels of reading from pre-reading to mature reading with implications for instruction.

C&I 87342
SEMINAR IN READING AND LANGUAGE (3)
Exploration of some of the issues, methods and findings on the relationship of reading and language. Examination of selected issues such as dialect, bilingualism, readability, language-based strategies for reading instruction.

C&I 87343
RESEARCH IN TEACHING OF WRITING (3)
Issues and methodologies in research in the teaching of writing. Students will review the literature and conduct research in a significant area of writing instruction.

C&I 87391
SEMINAR IN READING (1-4)
Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

C&I 87398
RESEARCH IN READING AND LANGUAGE ARTS (1-15)
Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

C&I 87791
DOCTORAL SEMINAR IN MATHEMATICS EDUCATION (3)
An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education will be conducted. Prerequisite: Doctoral standing, Curriculum and Instruction (CI) major, and special approval. Special fee $15.

*Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned “school/agency” before the first day of the semester in which the student teaching/internship will take place.
Early Childhood Education (ECED)

ECED 50093/70093
VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION (1-5)
S/U grading.

ECED 50114
TEACHING SCIENCE IN THE EARLY YEARS (3)
This course examines methods of teaching the processes of science. Attention is given to methods, equipment, safety and planning. Prerequisite: Graduate standing in the Master of Arts in Teaching (MAT) program.

ECED 50142
HOME, SCHOOL AND COMMUNITY RELATIONS (3)
Approaches to parent and community involvement in the education and welfare of children. Understanding of role of community agencies and organizations.

ECED 50145
MUSIC AND RHYTHMS IN PREPRIMARY EDUCATION (3)
Comprehensive coverage of music and rhythms for preprimary child. Intended for early childhood education majors or other persons desiring additional work in music with preprimary children. Prerequisite: Permission from instructor.

ECED 50146
TEACHING WITH MICROCOMPUTERS: EARLY YEARS (3)
Developing competency in teaching with microcomputers in pre-kindergarten through grade three. Includes laboratory experience in computerized lessons and management and programming in LOGO, field testing of computer-related materials and a research review.

ECED 50147
TEACHING MATHEMATICS: EARLY YEARS (3)
Instructional psychology and materials for effective teaching of mathematics in pre-kindergarten through grade three with a theoretical emphasis on cognitive development. Special fee: $10 per semester (subject to change).

ECED 50151
GUIDANCE OF YOUNG CHILDREN (3)
Principles and practices of appropriate guidance for young children: intervention strategies, resources and materials for guidance.

ECED 50153
ORGANIZATION AND SUPERVISION OF EARLY CHILDHOOD CENTERS (3)
Basic guidelines for establishing and supervising early childhood settings for infants, preschool and school-age children.

ECED 60101/70101
CONSTRUCTIVIST TEACHING IN EARLY CHILDHOOD CLASSROOMS (3)
Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs. The course will focus on constructivist practices emphasizing child-sensitive curriculum and teaching practices.

ECED 60102/70102
DEVELOPING A BALANCED LITERACY PROGRAM
An examination of own teaching practice focusing on assessment strategies to inform decision-making for individual children and evaluation strategies to fine tune a balanced literacy program.

ECED 60111/70111
AUXILIARY SERVICES FOR EARLY CHILDHOOD EDUCATION (2)
Current public and private programs for young children as resources for preschool and primary teachers. Methods of initiating and implementing new programs.

ECED 60112/70112
HUMANITIES FOR CHILDREN (2)
Relevance of humanities as applied to education of young children.

ECED 60133/70133
PRESCHOOL EDUCATION (3)
An in-depth study of curriculum development in preschool programs.

ECED 60150
CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES (3)
Cross-listed with SPED 63950. Overview/comparison of early childhood service approaches: history/issues delivering services; developmentally appropriate practice; and environmental arrangement, how to modify curriculum. Prerequisite: Permission.

ECED 60151/70151
SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION (3)
Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship-making, guidance strategies and interventions, building and facilitating classroom communities, and promoting a caring classroom will be the focus of this course.

ECED 60152/70152
APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN (3)
Examination of theories pertaining to child development that have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.
ECED 60153/70153
PLAY IN CHILDHOOD (3)
Examination of the play of children from various theoretical perspectives, the role of the play in development, strategies for facilitation of children's play in various settings.

ECED 60154/70154
PRACTICAL APPLICATIONS BIRTH TO FIVE (4)

ECED 60155/70155
INFANT AND TODDLER DEVELOPMENT AND EDUCATION (3)
Development from birth through age two. Application of theories to understand infant and toddler behavior and developing infant/toddler programs.

ECED 60156
FOUNDATIONS IN EARLY CHILDHOOD SERVICES (3)
Cross-listed with SPED 63956. Issues facing children within family/society; history of early childhood services; theoretical perspectives; implications of childhood disabilities; recommended assessment, intervention and evaluation.

ECED 60157
ASSESSMENT/TEACHING EXCEPTIONAL INFANTS AND YOUNG CHILDREN (3)
Cross-listed with SPED 63957. Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress. Prerequisite: Permission.

ECED 60158/70158
RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM (3)
Course examines post-modern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.

ECED 60159
FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD (3)
Cross-listed with SPED 63952. Examines issues facing families and professionals serving young children who are at risk, disabled and typically developing.

ECED 60160
TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN (3)
Cross-listed with SPED 63955. Overview of typical/atypical development pathways age three to grade three: theories of behavior; implications of atypical development on play/learning; development within ecological framework. Prerequisite: Permission.

ECED 60161/70161
PARENTING EDUCATION: SUPPORTING THE PARENTING PROCESS (3)
Exploration of parenting processes through the life span with particular focus on how school and non-school professionals support families and children.

ECED 60162*
PRACTICAL APPLICATIONS FIVE TO EIGHT (4)
Cross-listed with SPED 63954. Application of recommended practices for children five to eight. Observation of children in natural environment; plan/evaluate intervention collaboratively. 60 clinical/field hours. Prerequisite: Permission.

ECED 60164/70164
APPROPRIATE ASSESSMENT IN EARLY CHILDHOOD EDUCATION (3)
Formative evaluation that informs curriculum planning for children age three to grade three. Seamless assessment of both emergent academic abilities and specific content areas such as math, science and literacy will be examined. Prerequisite: graduate standing in Master of Arts in Teaching (MAT) program.

ECED 60165/70165
PRINCIPLES OF SOCIAL LEARNING APPLIED TO EARLY CHILDHOOD EDUCATION (3)
Discussion, evaluation and application of contemporary theory and research specifically related to the modification of behavior within the context of the developmental demands of early childhood. Prerequisite: Permission.

ECED 60166/70166*
OBSERVATIONAL ANALYSIS OF CLASSROOM INTERACTIONS (3)
A practicum in construction and application of pupil observational assessment instruments for classroom use. Developmental and social psychology research is used to develop assessment items. Emphasis is on analysis of social interaction patterns through narrative and checklist recording, teacher rating scales and sociometric evaluation. Prerequisite: Grading standing and special approval.
ECED 60167/70167
LANGUAGE AND LITERACY: UNDERSTANDING DEVELOPMENT (3)
The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multicultural language. Topics specifically related to classroom teaching include the assessment of language delays and disorders and strategies for connecting oral language to literacy in preschool. Corequisite: ECED 60152.

ECED 60168/70168
COGNITIVE DEVELOPMENT IN EARLY CHILDHOOD EDUCATION (3)
Survey of changes in child's systems of processing information from birth through primary school years, and application of these theoretical principles to programs for young children.

ECED 60192*
EARLY CHILDHOOD SERVICES INTERVENTION METHODS/INTERNSHIP (5)
Integration of specific strategies for working with children birth to eight with intensive needs (cerebral palsy, spina bifida, autism) with internship. 90 field/clinical hours. Prerequisite: Permission.

ECED 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

ECED 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible.

ECED 67291/77291
SEMINAR IN EARLY CHILDHOOD EDUCATION (1-4)

ECED 67292/77292*
PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION (1-10)
S/U grading; IP permissible.

ECED 67295/77295
SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (1-5)

ECED 67296
INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION (1-5)
S/U grading; IP permissible.

ECED 67298
RESEARCH IN EARLY CHILDHOOD EDUCATION (1-15)
S/U grading; IP permissible.

ECED 80291
ADVANCED SEMINAR IN EARLY CHILDHOOD EDUCATION (1-4)
Advanced seminar in ECED. Prerequisite: Doctoral standing and permission.

ECED 80292*
ADVANCED PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION (1-10)
Advanced Practicum and Internship in ECED. Prerequisite: Doctoral standing and special approval.

ECED 80295*
SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (1-5)
Special topics in ECED. Prerequisite: Doctoral standing and special approval.

ECED 80296
INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION (1-5)
Individual investigation in ECED. Prerequisite: Doctoral standing and special approval. S/U grading; IP permissible.

ECED 80298
RESEARCH IN EARLY CHILDHOOD EDUCATION (1-15)
Research in ECED. Prerequisite: Doctoral standing.

*Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned “school/agency” before the first day of the semester in which the student teaching/internship will take place.

EDAD 50093/70093
VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION (1-5)
S/U grading.

EDAD 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

EDAD 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible.

EDAD 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EDAD 60199.
EDAD 65200/75200
THE DEVELOPMENT AND ADMINISTRATION OF CHARTER SCHOOLS (3)
Provides students with an understanding of the charter schools movement in America along with the basic skill sets required to administrate charter schools. Topics will span from the history of the charter schools movement to various administrative models in the field. Prerequisite: Major in Educational Administration - K-12 Leadership (EAKL), Higher Education and Student Personnel Administration (EAHE), or Educational Administration-Higher Education (EDHE).

EDAD 66492/76492*
INTERNSHIP IN EDUCATIONAL ADMINISTRATION (3-6)
A field-based internship requiring a separate project as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. S/U grading; IP permissible.

EDAD 66515/76515
FACILITIES PLANNING AND ADMINISTRATION (3)
Overview of facilities planning and administration, including architectural/construction management, the educational program, restoration and maintenance.

EDAD 66517/76517
ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION (3)
Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state and national level.

EDAD 66518/76518
LAW AND SPECIAL EDUCATION (3)
Constitutional, statutory and case law involving handicapped infants and students; special education teachers, administrators and parents are studied.

EDAD 66520/76520
SCHOOL LAW FOR TEACHERS AND PRINCIPALS (3)
Selected principles of constitutional, statutory, case and common law affecting the administration of schools generally and Ohio schools specifically.

EDAD 66522/76522
PUBLIC SCHOOL FINANCE AND ECONOMICS (3)
Analysis of national, state and local problems of collection, custody and expenditure of public school funds. Prerequisite: EDAD 6/76526

EDAD 66524/76524
CENTRAL OFFICE ADMINISTRATION: BUSINESS MANAGEMENT AND SUPPORT SERVICES (3)
Includes both the study of the scope, techniques and procedures of managing school business affairs and the accounting, auditing and fiscal reporting procedures for educational institutions. Prerequisite: EDAD 6/76526.

EDAD 66525/76525
THE EDUCATIONAL PRINCIPALSHIP (3)
Organizing and administering elementary, middle-level and secondary schools. Must register concurrently for EDAD 6/76592. Prerequisite: EDAD 6/76526; 16 hrs of Ed Admin.

EDAD 66526/76526
FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION (3)
Examines theory and practice essential for administration. Skills and understanding are developed in theory, goal-setting, staff development.

EDAD 66527/76527
SCHOOL FINANCE FOR BUILDING ADMINISTRATORS (3)
Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process, and fund-raising and school groups. Prerequisite: Major in Educational Administration - K-12 Leadership (EAKL), Higher Education and Student Personnel Administration (EAHE), or Educational Administration-Higher Education (EDHE).

EDAD 66528/76528
THE SCHOOL BUSINESS MANAGER AND SCHOOL TREASURER (3)
Identification and description of the roles, responsibilities and activities of the school Business Manager and the school Treasurer; overview of the interface in school district operations.

EDAD 66533/76533
CENTRAL OFFICE ADMINISTRATION: CURRICULUM AND PUPIL SERVICES (3)
Roles and responsibilities of central office personnel relating to the administration of current educational reform, policy and practice. Prerequisite: Major in Educational Administration - K-12 Leadership (EAKL), Higher Education and Student Personnel Administration (EAHE), or Educational Administration-Higher Education (EDHE).

EDAD 66534/76534
THE SUPERINTENDENCY (3)
Focuses on major responsibilities of board of education and superintendent. Prerequisite: EDAD 6/76526.

EDAD 66535/76535
THE ADMINISTRATION OF SCHOOL REFORM (3)
This course is designed to provide students with an understanding of reform movements in American schools both in terms of historical and current contexts. Models for institutions’ reform will also be examined. Prerequisite: Major in Educational Administration - K-12 Leadership (EAKL), Higher Education and Student Personnel Administration (EAHE), or Educational Administration-Higher Education (EDHE).
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<td>EDAD 66536/76536</td>
<td>THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT (3)</td>
<td>Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district/school/classroom curriculum. Prerequisites: major in Educational Administration -K-12 Leadership (EAKL), Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE).</td>
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<tr>
<td>EDAD 66537/76537</td>
<td>THE PRINCIPAL AS EDUCATIONAL LEADER (3)</td>
<td>Focus on the role of the principal as a leader for understanding the societal and cultural context of education; teaching and learning processes; ethical and moral issues for administrators; and stakeholder empowerment for school improvement. Prerequisite: EDAD 6/76526.</td>
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</tr>
<tr>
<td>EDAD 66538/76538</td>
<td>ADMINISTRATION OF SCHOOL CULTURE (3)</td>
<td>Provides the future principal an overview of current recommendations for &quot;best practices&quot; in the elementary, middle and secondary school. Also provides a forum for discussion of other pedagogical practices of concern to future principals; constructivism, discipline and multiculturalism.</td>
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<tr>
<td>EDAD 66539/76539</td>
<td>COMMUNICATION SKILLS FOR EDUCATIONAL ADMINISTRATORS (3)</td>
<td>To increase knowledge and skill required to develop and maintain positive relationships between school/university and public served. Skills for effectively dealing with difficult individual conflicts are practiced. Prerequisite: Admission to graduate program.</td>
<td></td>
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<tr>
<td>EDAD 66540/76540</td>
<td>WOMEN IN LEADERSHIP (3)</td>
<td>An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.</td>
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<tr>
<td>EDAD 66542/76542</td>
<td>PRINCIPLES AND TECHNIQUES OF SUPERVISION (3)</td>
<td>Principles and techniques needed by administrative specialists and supervisors are given. Research findings include changing human relations, group processes, communications, observations and conferencing skills.</td>
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<tr>
<td>EDAD 66543/76543</td>
<td>SCHOOL ADMINISTRATION IN URBAN SETTINGS (3)</td>
<td>This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.</td>
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<tr>
<td>EDAD 66544/76544</td>
<td>COMMUNITY RELATIONS FOR SCHOOL ADMINISTRATORS (3)</td>
<td>Addresses the techniques used by administrators in their efforts to establish positive community relations. Prerequisite: Admission to graduate program.</td>
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<tr>
<td>EDAD 66591/86591</td>
<td>SEMINAR IN EDUCATIONAL ADMINISTRATION (1-4)</td>
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<tr>
<td>EDAD 66595/76595</td>
<td>SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION (1-3)</td>
<td>Specialized offerings in response to emerging or selected program needs.</td>
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</tr>
<tr>
<td>EDAD 66596/76596</td>
<td>INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION (2-4)</td>
<td>Projects as assigned. IP permissible. Prerequisite:Permission.</td>
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</tr>
<tr>
<td>EDAD 66598/86598</td>
<td>RESEARCH IN EDUCATIONAL ADMINISTRATION (2-8)</td>
<td>Projects as assigned. S/U grading. Prerequisite:Permission.</td>
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<tr>
<td>EDAD 66747/76747</td>
<td>PERSONNEL (3)</td>
<td>Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities; and development of evaluation techniques.</td>
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<tr>
<td>EDAD 76523</td>
<td>ADVANCED EDUCATION FINANCE (3)</td>
<td>Advanced study of alternative plans for financing education, study of comparative educational finance structures (national basis), equity, parity, relationship of finance of higher education and elementary/secondary education, role of the federal government and private enterprise in the financing of education. Prerequisite:EDAD 76522 or 76659.</td>
<td></td>
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<tr>
<td>EDAD 76539</td>
<td>COMMUNICATION SKILLS FOR EDUCATIONAL ADMINISTRATORS (3)</td>
<td>To increase knowledge and skill required to develop and maintain positive relationships between school and public served. Skills for effectively dealing with difficult individual conflicts are practiced.</td>
<td></td>
</tr>
<tr>
<td>EDAD 80199</td>
<td>DISSERTATION I (15)</td>
<td>Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.</td>
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EDAD 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EDAD 80199.

EDAD 86558
ADVANCED EDUCATIONAL LEADERSHIP (3)
This advanced-leadership seminar is designed to provide the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research, writing and teaching skills; to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers. Prerequisite: EDAD 6/86657.

EDAD 86598
RESEARCH IN EDAD (2-8)
Projects as assigned. Prerequisite: Permission.

*Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned “school/agency” before the first day of the semester in which the student teaching/internship will take place.

Educational Psychology and Foundations (EDPF)
The following courses were previously listed as EDUC and have migrated to EDPF.

EDPF 50093/70093
VARIABLE TITLE WORKSHOP IN EDUCATIONAL PSYCHOLOGY AND FOUNDATIONS (1-4)
Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. For 50093 only, may be repeated once for total maximum credit of 6 hours. S/U grading.

EDPF 59570
SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION (3)
Analysis of historical, social and ideological forces that relate to current educational policies and practices in multicultural education, both in school and non-school settings.

EDPF 60094/70094
COLLEGE TEACHING (3)
Discusses major aspects of teaching in higher education, including such topics as students’ philosophy of teaching, principles of adult learning, instructional strategies, students’ assessment and others.

EDPF 60199
THESIS I (2-6)
Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

EDPF 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EDPF 60199.

EDPF 65510/75510
STATISTICS I FOR EDUCATIONAL SERVICES (3)
Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlation and simple regression); hypothesis testing; non-parametric techniques. Enhanced use of gb-stat. Ordinarily taken early in graduate course sequence.

EDPF 65511
RESEARCH IN EDUCATIONAL SERVICES (3)
Introduction to purposes and practice of qualitative and quantitative research related to educational services. Emphasis on elements of doing research and using products of research to support and enhance practice. Authentic examples used as illustration.

EDPF 65520
CHILD AND ADOLESCENT DEVELOPMENT (3)
Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.

EDPF 65521
ADULT DEVELOPMENT (3)
Essential dimensions of human development and learning, the causal factors, and the research findings which carry implications for educators in various settings; focusing on early through late adulthood.

EDPF 65523
LIFE SPAN DEVELOPMENT (3)
Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.

EDPF 65524
LEARNING THEORIES (3)
Theories of learning with special emphasis on applications to professional practice. A critical examination of research on human learning processes.
EDPF 65529/75529
EDUCATIONAL MOTIVATION (3)
Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.

EDPF 65530
FOUNDATIONS OF EDUCATION AND HUMAN SERVICES (3)
Inquiry into the assumptions and implications of educational policies and practices in education and human service settings through the application of historical, philosophical and sociological perspectives.

EDPF 66531
PROFESSIONAL PRACTICE IN A MULTICULTURAL SOCIETY (3)
Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.

EDPF 65532
ETHICS IN EDUCATION AND HUMAN SERVICES (3)
An examination of ethics in education and human services through foundational study and issue analysis; strong case study and professional application emphasis.

EDPF 68710/78710
CLASSICAL TEST THEORY (3)
Students develop an understanding of ideas and procedures related to classical test theory sufficient for test development and meaningful interpretation of results from standardized tests and other assessments. Prerequisite: EDUC 65510.

EDPF 68711/78711
MODERN TEST THEORY: ITEM RESPONSE THEORY (3)
The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced. Prerequisite: EDUC 65510; EDPF 68710.

EDPF 68712/78712
GENERALIZABILITY THEORY (3)
Students develop the knowledge and skills necessary to use Generalizability Theory (GT) methods as well as to organize, manipulate, analyze and interpret data from GT studies. Prerequisite: EDUC 65510; EDPF 78716 or EDUC 85515.

EDPF 68713/78713
MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH (3)
Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge/skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS), and to develop knowledge and skills necessary for interpreting results of multivariate analysis. Prerequisite: EDUC 65510; EDPF 78716 or EDUC 85515.

EDPF 68714/78714
FACTOR ANALYSIS IN EDUCATIONAL RESEARCH (3)
This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures. Prerequisite: EDUC 65510; EDPF 78716 or EDUC 85515.

EDPF 68791/88791
SEMINAR IN EVALUATION AND MEASUREMENT (1-5)
Variable topic seminar for advanced study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.

EDPF 68792/88792
ADVANCED PRACTICUM AND INTERNSHIP IN EVALUATION AND MEASUREMENT (2-6)
Supervised program in field setting involving application of theories, principles and methodology in valuation and measurement. Planned with and supervised by graduate faculty member. S/U grading; IP permissible.

EDPF 68795/88795
SPECIAL TOPICS IN EVALUATION AND MEASUREMENT (1-3)
Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

EDPF 68796/88796
INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT (1-3)
Specific topic course offering in response to emerging student or program needs in evaluation and measurement. Prerequisite: special approval. S/U grading; IP permissible.

EDPF 68798/88798
RESEARCH IN EVALUATION AND MEASUREMENT (1-15)
Students pursue an individual research project on a specific topic in evaluation and measurement with approval and under direction of instructor. Prerequisite: special approval. S/U grading; IP permissible.

EDPF 68807
EVALUATION IN EDUCATION (3)
Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation of programs.
EDPF 68901
PSYCHOLOGICAL FOUNDATIONS OF EDUCATION I (3)
Overview of human development, particularly adolescence, and implications for educational policy and programming, generally and specifically for secondary schools. Prerequisite: Admission to the M.A.T. program.

EDPF 68902
PSYCHOLOGICAL FOUNDATIONS OF EDUCATION II (3)
Learning theories and principles, individual differences in learning, classroom planning and evaluation; toward an effective instructional psychology of secondary teachers. Prerequisite: Admission to the M.A.T. program.

EDPF 68904
LEARNING THEORIES APPLIED IN EDUCATION (2)
Theories of learning and their application to educative process. Special emphasis on application of learning theories to problems of classroom teaching generally and to classroom management.

EDPF 69091/89091
SEMINAR IN LEARNING AND DEVELOPMENT (1-5)
Variable topic seminar for advanced study of specialized topics and areas in learning and development; emphasis on theory and research findings as related to educational practice.

EDPF 69092/89092
ADVANCED PRACTICUM AND INTERNSHIP IN LEARNING AND DEVELOPMENT (2-6)
Supervised program in field setting involving application of theories, principles and methodology in learning and development. Planned with and supervised by graduate faculty member. S/U grading; IP permissible.

EDPF 69095/89095
SPECIAL TOPICS IN LEARNING AND DEVELOPMENT (1-3)
Specific topic course offering in response to emerging student or program needs in learning and development.

EDPF 69096/89096
INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT (1-3)
Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor. Prerequisite: special approval. S/U grading; IP permissible.

EDPF 69098/89098
RESEARCH IN LEARNING AND DEVELOPMENT (1-15)
Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor. Prerequisite: special approval. S/U grading; IP permissible.

EDPF 69530/79530
MULTICULTURAL EDUCATIONAL THEORIES AND SCHOLARSHIP (3)
An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored. Prerequisites: EDUC65530 and EDUC65531 or its equivalent as determined by the instructor.

EDPF 69543/79543
HIGHER EDUCATION IN THE UNITED STATES (3)
Examines the historical, philosophical, social, political and economic roots of current programs, policies, practices and commitments of institutions of higher education in the United States.

EDPF 69560/79560
MODERN PHILOSOPHICAL THEORIES OF EDUCATION (3)
Introduction to philosophy of education. Controversies as to nature and function of contemporary education.

EDPF 69564/79564
HISTORY OF AMERICAN EDUCATION (3)
European origins and American innovations in colonial education, rise of common school, completion of educational ladder. Emphasis is on present status and recent developments.

EDPF 69565/79565
HISTORY OF WESTERN EDUCATION (3)
Educational ideals and practices of European and Western civilizations in their historical contexts. Evaluation of their influence on present educational thought and practice.

EDPF 69567/79567
HISTORY OF HIGHER EDUCATION (3)
Cross listed with EDAD 66600/76600. Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American Higher Education from the 17th through the 20th centuries. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.

EDPF 69568/79568
GREAT IDEAS IN EDUCATION (3)
An examination of major influential ideas in education through original sources from Plato to Skinner. Prerequisite: Permission of instructor.

EDPF 69570/79570
MULTICULTURAL EDUCATION: THEORY AND POLICY (3)
Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.
EDPF 69571/79571
GLOBALIZATION AND EDUCATION (3)
A multi-disciplinary exploration of the impact of globalization/localization in the delivery and uses of education, and the dynamics of power and resistance in globalized education.

EDPF 69575/79575
ANTHROPOLOGY AND EDUCATION (3)
Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which “culture” has been theoretically conceptualized, as well as the implications of those conceptualizations for educational inquiry and practice.

EDPF 69591/89591
SEMINAR IN CULTURAL FOUNDATIONS (1-5)
Variable topic seminar for advanced study of specialized topics and areas; in cultural foundations; emphasis on theory and research findings as related to educational practice. Prerequisite: special approval.

EDPF 69592/89592
ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS (2-6)
Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member. Prerequisite: special approval. S/U grading; IP permissible.

EDPF 69595/89595
SPECIAL TOPICS IN CULTURAL FOUNDATIONS (1-3)
Specific topic course offering in response to emerging student or program needs in cultural foundations of education.

EDPF 69596/89596
INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS (1-3)
Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor. Prerequisite: special approval. S/U grading; IP permissible.

EDPF 69598/89598
RESEARCH IN CULTURAL FOUNDATIONS (1-15)
Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor. Prerequisite: special approval. S/U grading; IP permissible.

EDPF 78716
EDUCATIONAL STATISTICS II (3)
Major types of methods used to investigate relationships between two or more variables are introduced; includes various analysis of variance designs, analysis of covariance and multiple correlations.

EDPF 78728
EDUCATIONAL STATISTICS III (3)
Advanced univariate and introductory multivariate techniques in education research, including analyses of variance and covariance, multiregression and causal modeling, factor analysis and canonical correlation.

EDPF 78898
COMPARATIVE RESEARCH DESIGN (3)
The course develops the ability of the student to conceptualize the design elements of educational research and to write results of studies. Prerequisite: Doctoral standing.

EDPF 78903
LIFE SPAN DEVELOPMENT: CHILDHOOD AND ADOLESCENCE (3)
Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence. Prerequisite: Doctoral standing.

EDPF 78905
EDUCATIONAL PSYCHOLOGY (3)
Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines. Prerequisite: Doctoral standing.

EDPF 79510
PHILOSOPHY OF EDUCATION (3)
Analysis of selected philosophies of education through examination of philosophical problems of education. Prerequisite: EDPF 6/79560 or 6/79568.

EDPF 79552
LEGAL FOUNDATIONS OF EDUCATION (3)
The impact of the federal constitution, statutes and case law on public education is studied. Historical intent and current application of related laws are included.

EDPF 79559
CULTURAL FOUNDATIONS OF EDUCATION (2)
Inquiry into the assumptions and implications of educational policies and practices in human service professions through the application of historical, philosophical and sociological perspectives. Prerequisite: Doctoral standing.

EDPF 79562
FOUNDATIONS OF MODERN EDUCATION (3)
Introduction to philosophy of education. Controversies as to nature and function of contemporary education. Prerequisite: Doctoral standing.
### EDPF 80085: Legal Research in Education (3)
Cross listed: EDAD 80085. Methods of legal research, case analysis and a "uniform system of citation" are studied. Prerequisite: EDPF 79552 and Doctoral standing.

### EDPF 80090: Doctoral Residency Seminar (3)
Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues, research and trends in education in multiple settings. Prerequisite: Doctoral standing.

### EDPF 80091: Seminar: Great Issues in Education (1-3)
Interdisciplinary review of current great issues in education that are catalogs for presentation after discussion with membership of the course. Prerequisite: Open to Doctoral students from any field.

### EDPF 80199: Dissertation I (15)
Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

### EDPF 80299: Dissertation II (1 or 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EDPF 80199.

### EDPF 85515: Quantitative Research Designs and Application in Educational Services (3)
Quantitative research design and application in educational services research. Spiral presentation of methodological principles within a variety of theoretical frameworks and procedures. Strong focus on computer-aided applications. Ordinarily taken early in doctoral course sequence. Prerequisite: EDUC 6/75510 or equivalent.

### EDPF 85516: Qualitative Research Designs and Application in Educational Services (3)
Introduction to theory and practice of qualitative research methods and field studies in educational services. Examination of a variety of strategies including observation, document analysis and interviewing. Ordinarily taken early in Doctoral course sequence.

### EDPF 85517: Advanced Quantitative Research in Educational Services (3)
Advanced quantitative research design and application in educational services. Statistical packages of instructional strategies with methodological principles focus, theoretical models, and practical application of experimental and multivariate research design. Prerequisite: EDUC 85515.

### EDPF 85518: Advanced Qualitative Research in Educational Services (3)
Utilizes qualitative data in educational services. Applications in qualitative methodology (video techniques) and protocol analysis are applied and evaluated. Generate findings; develop applications to theory; reliability and validity considerations. Prerequisite: EDUC 85516.

### EDPF 85535: Interprofessional Studies (3)
Comprehensive analysis of issues affecting professional practice in education and human service resource settings. Examination of questions related to interprofessional collaboration on policy, research and practice.

### EDPF 89571: Comparative and International Education (3)
Comparative analysis of contemporary educational policies and structures in large- and small-scale societies throughout the world.

### EDPF 89581: Proseminar in Cultural Foundations (3)
Doctoral seminar to familiarize Ph.D. students with cultural and social foundations of education as a field of study so that they may locate their inquiry within the relevant knowledge base and academic disciplines that comprise the cultural foundations of education.

### EDPF 89582: Social Perspectives of Education (3)
Examines selected social factors that influence the development of educational policies and patterns of research relating to school and non-school educational settings.
Exercise, Leisure and Sport (ELS)

ELS 50612
EXERCISE LEADERSHIP FOR THE ELDERLY AND SPECIAL POPULATIONS (3)
Designed to provide the students with a knowledge base in exercise leadership in the senior population and includes special populations. Students participate in the leading, supervision and evaluation of the participant within the exercise program. They also assist in the collection of functional fitness data.

ELS 53093
VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT (1-3)
Workshop in exercise, leisure and sport studies; topics vary. Repeat registration permitted. Maximum 4 hours may be applied to degree. S/U grading.

ELS 55015
PSYCHOLOGY OF COACHING (3)
Factors affecting athletic performance emphasizing skill, motivation, personality and practice conditions.

ELS 55020
CONTEMPORARY ATHLETIC COACHING (3)
A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society.

ELS 55022
EVENT PLANNING AND PRODUCTION (3)
Students will learn the proper planning process that all sport events undergo. Students will then apply these concepts in actual events that they develop and hold.

ELS 55023
MARKETING AND PROMOTIONS IN SPORT AND RECREATION (3)
Analysis of marketing from a sport and recreation manager’s perspective. Emphasis on marketing strategy and tactics in sport and recreation systems. Extensive use of case studies.

ELS 55024
SPORT IN GLOBAL PERSPECTIVE (3)
This course is designed to encourage students to critically analyze how sport relates to general features of globalization and to provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global interdependencies that bind human beings together.

ELS 55026
SPORT IN THE MEDIA (3)
This course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality, and disability, an examination of the structure of sports journalism and production, and an analysis of the role of mediated sport in our culture more generally. As such, the roles of institutions, producers, tests, and audiences and their relationships to each other are examined.

ELS 55038
ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING (3)
Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs. Prerequisite: ATTR 25036.

ELS 55040
PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS (3)
Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatments and physiologic effects for various afflictions. Prerequisite: ATTR 25036.

ELS 55051*
ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (3)
Approaches to teaching in elementary school physical education. Focusing on sequential curriculum development and on learning outcomes in three domains. Prerequisite: Permission.

ELS 55053*
ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT (3)
Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Prerequisite: Permission.

ELS 55058*
SECONDARY SCHOOL PHYSICAL EDUCATION METHODS (3)
Approaches to teaching in secondary school physical education. Focus on sequential curriculum development and on learning outcomes in three domains. Prerequisite: Permission.

ELS 55059*
SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT (3)
Introduction and development of content, management and organizational skills related to sports and activities utilized in secondary school physical education. Prerequisite: Permission.

ELS 55065
EXERCISE TESTING (3)
Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests. Prerequisite: PEP 35075 and 45080, or permission.
ELS 55070  
ELETROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST (3)  
Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist. Prerequisite: special approval.

ELS 55080  
PHYSIOLOGY OF EXERCISE (3)  
Physiological bases of muscular activity with special attention to general effects of exercise on body function. Laboratory included.

ELS 56000  
TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL (3)  
Investigation of travel and tourism development using an interdisciplinary social science approach. Prerequisite: RPTM 36060 or permission.

ELS 56001  
PRINCIPLES AND METHODS OF COMMUNITY INCLUSION (3)  
Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life. Prerequisite: RPTM 26001.

ELS 56030  
DYNAMICS OF LEISURE BEHAVIOR (3)  
Analysis of leisure behavior through examination of social-psychological theories and research. Prerequisite: RPTM 36040 and 36075 and PEP 25068 or PSYC 21621, or permission.

ELS 56040  
THERAPEUTIC RECREATION PROGRAM TECHNIQUES (3)  
Intervention/facilitation techniques employed in therapeutic recreation practice. Integration of theory into program plans used in TR for treatment and leisure education services for people with illnesses or disabilities. Prerequisite: RPTM 36080 or permission.

ELS 56041  
ADVANCED THERAPEUTIC RECREATION PROGRAM TECHNIQUES (3)  
Advanced intervention/facilitation techniques employed in therapeutic recreation practice. Professional issues related to therapeutic recreation practice. Prerequisite: ELS 56040.

ELS 56060  
ADMINISTRATION OF LEISURE SERVICES (3)  
Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns will be examined. Prerequisite: RPTM 36040, 36075, 36092 or 36192.

ELS 56070  
PARK PLANNING (3)  
Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places. Prerequisite: RPTM 36040 & RPTM 36075.

ELS 56080  
LEGAL ISSUES IN SPORT AND RECREATION (3)  
Designed to alert potential recreation and sport professionals to the litigious environment prevalent in the US, increase awareness of their legal responsibility and risk management.

ELS 60610/70610  
PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR (3)  
Examine physiological changes that accompany advancing age. Special attention is paid to the effect of these changes on sensory, motor and cognitive behavior.

ELS 62010  
CONTEMPORARY ISSUES IN ATHLETIC TRAINING (3)  
A comprehensive examination of contemporary issues, trends, and problems affecting athletic training professionals related to the domains of practice for athletic trainers.

ELS 62012  
EDUCATION AND SUPERVISION PROCESSES IN ATHLETIC TRAINING (3)  
A comprehensive examination of educational learning theories, curriculum design, evaluation and supervision strategies in athletic training education programs from didactic and clinical perspectives. Additional applications for continuing education programs will be included.

ELS 62014  
ADVANCED CLINICAL APPLICATIONS IN ATHLETIC TRAINING (3)  
A comprehensive examination of advanced topics in athletic training such as advanced evaluation skills, multi-dimensional approaches to therapeutic rehabilitation skills and applications in non-traditional athletic training settings such as industrial medicine and physician-extender.

ELS 62016  
CLINICAL INQUIRY IN ATHLETIC TRAINING (3)  
Principles of athletic training research methodologies with a focus on clinical athletic training research. Completion of a clinical research project will be required in this course.

ELS 63018/73018  
ETHICS IN EXERCISE, LEISURE AND SPORT (3)  
Examination of selected situations in exercise, leisure and sport from an ethical reasoning perspective. A problem-oriented, case study approach based upon contemporary moral issues and moral theory.
ELS 63050
RESEARCH PROCESSES IN EXERCISE, LEISURE AND SPORT (3)
The research process and statistical concepts applied to exercise, leisure and sport.

ELS 63051
QUANTITATIVE AND RESEARCH METHODS IN EXERCISE, LEISURE AND SPORT (3)
Research design and statistical methods applied to exercise, leisure and sport. Prerequisite: ELS 63050.

ELS 63094/73094
COLLEGE TEACHING IN EXERCISE, LEISURE AND SPORT (2)
Guided teaching experiences in educational settings. Repeat registration permitted. Prerequisite: Permission.

ELS 63095/73095
RESEARCH SEMINAR (1)
Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements. S/U grading.

ELS 63096
INDIVIDUAL INVESTIGATION IN EXERCISE, LEISURE AND SPORT (1-3)
Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration. Repeatable to 6 credit hours. IP permissible. Prerequisite: Permission.

ELS 63098
RESEARCH (1-15)
Research or individual investigation. Repeat registration permitted. IP permissible.

ELS 63193
VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT (1-3)
Workshop in exercise, leisure and sport; topics vary. Repeat registration permitted. Maximum 4 hours applied to the degree. S/U grading. Prerequisite: Permission.

ELS 63195
SPECIAL TOPICS IN EXERCISE, LEISURE AND SPORT (1-3)
Selected and varied topics of relevance in exercise, leisure and sport. Repeat registration permitted.

ELS 63199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester, distributed over several semesters if desired. S/U grading; IP permissible.

ELS 63299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ELS 65199.

ELS 65006/75006
CONTEMPORARY ISSUES IN SPORT MANAGEMENT (3)
A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.

ELS 65007/75007
MOTOR SKILL ACQUISITION AND PERFORMANCE (3)
Examination of contemporary motor learning and control theories and laboratory experiences, with emphasis upon motor skill acquisition and performance as studied experimentally. Laboratory included. Prerequisite: ELS 6/75030.

ELS 65008/75008
SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY (3)
Sociological analysis of sport from a theoretical and empirical perspective.

ELS 65021
ORGANIZATION/MANAGEMENT OF SPORTS PROGRAMS (3)
A study of the pragmatic understanding necessary in the organization and management of a sports program at the high school, college or professional level.

ELS 65025
CONTEMPORARY ISSUES IN SPORT PEDAGOGY (3)
Investigation and study of current problems, issues and trends in sport pedagogy. Prerequisite: ELS 65044 and 65055.

ELS 65031/75031
SOCIAL PSYCHOLOGY OF SPORT AND RECREATION (3)
Psychological, social and developmental factors of participation and behavior in sport, exercise and recreational activities. Theoretical and applied perspectives addressed.

ELS 65033
LEGAL ISSUES IN SPORT AND RECREATION (3)
Provides students with a basic understanding of tort, contract and constitutional law in relation to sport and leisure.

ELS 65034/75034
CONTEMPORARY SPORT LAW (3)
Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports. Prerequisite: ELS 65033 or equivalent.

ELS 65036
SPORT IN HIGHER EDUCATION (3)
Identification of contemporary problems and issues in collegiate sport, their history and the role of sport in colleges and universities, now and in the future.
ELS 65038/65038
SPORT PROMOTION AND FUNDRAISING (3)
Analysis of contemporary sports promotions strategies as well as fundraising tactics.

ELS 65039
FINANCIAL ASPECTS OF SPORT AND RECREATION (3)
Review of basic accounting, sources and uses of funds, capital budgeting, leasing and investments as they apply in a sports and recreation context. Financial software used in the sport and recreation industry will be introduced.

ELS 65041
TOURISM AND HOSPITALITY REVIEW (3)
Reviews academic tourism and hospitality literature to provide students with a theoretical and empirical understanding of the tourism phenomenon. Issues include tourist motivations; the social, cultural and environmental impacts of tourism; tourism and development; and the impact of hospitality services on tourism. Prerequisites: RPTM 46000 or ELS 56000.

ELS 65042
LEADERSHIP OF SPORT AND RECREATION (3)
Study of theoretical and applied constructs foundational to the leadership behavior applied to sport and recreation.

ELS 65043/75043
SUPERVISION PROCESSES IN SPORT PEDAGOGY (3)
A course designed to enhance ability to develop more effective teaching/learning environments through the use of systematic observation and application of supervisory theory.

ELS 65044
PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT (3)
An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.

ELS 65045
SPORT MARKETING (3)
Develops an understanding of strategic marketing concepts and principles as they apply to the context of sport and entertainment. Examines a variety of topics related to the marketing mix, consumer/fan behavior, research methodology, as well as explore sport, entertainment and business organization relationships.

ELS 65046
FACILITY MANAGEMENT AND OPERATIONS (3)
Analysis of management competencies necessary to operate sport, recreation, convocation or convention facilities. Conceptual and technical aspects of planning and design introduced.

ELS 65047
GLOBAL ISSUES OF TOURISM TRADE (3)
An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.

ELS 65055
CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY (3)
The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.

ELS 65061/75061
PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT (3)
Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives will be examined.

ELS 65062
CONTEMPORARY ISSUES IN LEISURE AND RECREATION (3)
Seminar to identify contemporary problems in recreation and leisure, and seek methods for their resolution. Prerequisite: Permission.

ELS 65063
ADMINISTRATIVE PROBLEMS IN RECREATION AND LEISURE SERVICES (3)
Special problems in recreation and leisure service agencies, legal powers and liability, departmental organization, financing, personnel policies and human resource development. Prerequisite: RPTM 46060 or ELS 56060.

ELS 65064
CONCEPTS AND TECHNIQUES IN THERAPEUTIC RECREATION (3)
Issues in the application of concepts in therapeutic recreation from a multidisciplinary perspective; study of evaluation and research. Prerequisite: RPTM 46041 or ELS 56041.

ELS 65080/75080
PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT (3)
Application of physiological concepts to human performance. Includes role of testing, training strength and endurance, nutritional considerations, environmental influences and adapted exercise programs. Prerequisite: ELS 55080 or equivalent.

ELS 65081/75081
ENERGY METABOLISM AND BODY COMPOSITION (3)
Measurement of metabolic response to exercise. Topics include ergometry, spirometry, energy expenditure, body composition and performance correlates of strength, power and endurance. Prerequisite: ELS 55080.
ELS 65082/75082
CARDIO-RESPIRATORY FUNCTION (3)
Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription. Prerequisite: ELS 55080.

ELS 65092
INTERNSHIP IN SPORT AND RECREATION MANAGEMENT (2-4)
Field experience involving supervised contact with sport and recreation administrators. Students will work as understudies with these administrators in all phases of their positions. Repeat registration permitted. IP permissible.

ELS 65192/75192
INTERNSHIP IN PHYSICAL FITNESS TESTING PROGRAMS (2-8)
Field experience in physical fitness programs and testing in Kent State adult fitness program cooperating agencies. S/U grading; IP permissible. Repeat registration permitted. Prerequisite: Permission.

ELS 65292
INTERNSHIP IN LEISURE STUDIES (1-4)
Field experience involving supervised contact with recreation and leisure professionals. Involves experience in all phases of agency administration. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: Permission.

ELS 65392*
ADVANCED PRACTICUM IN PHYSICAL EDUCATION (10)
A sixteen-week practicum in K-12 physical education, combining full-time student teaching and student teaching seminar. Eight weeks of student teaching at the preschool-to-fifth-grade level and eight weeks at the sixth-to-twelfth-grade level. S/U grading; IP permissible. Prerequisite: Permission.

ELS 65592/75592
INTERNSHIP IN MOTOR DEVELOPMENT (1-12)
Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment, individualizations, task analysis. Maximum of 6 hours applies to degree. Repeat registration permitted. IP permissible. Prerequisite: Permission.

ELS 65692*
INTERNSHIP IN ATHLETIC COACHING (2-4)
Supervised experience in organized sport focused upon the duties of a coach; can be at one or more levels (youth, school, college, professional) and sports. A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society. S/U grading; IP permissible. Prerequisite: Permission.

ELS 65792*
INTERNSHIP: SPORT STUDIES (1-6)
Supervised field experience in a sport or physical education setting. 60 hours of involvement per credit. S/U grading; IP permissible. Prerequisite: Permission.
ELS 75097  
**COLLOQUIUM IN SPORT AND RECREATION STUDIES (3)**
Consideration of current scholarly issues in sport and recreation studies related to potential student research topics. Repeatable with permission.

ELS 83098  
**RESEARCH (1-15)**
Research for doctoral students. Repeat registration permitted. IP permissible. Prerequisite: Permission.

ELS 83199  
**DISSERTATION I (15)**
Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Special approval and Doctoral standing.

ELS 83299  
**DISSERTATION II (1 OR 15)**
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ELS 83199.

*Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned “school/agency” before the first day of the semester in which the student teaching/internship will take place.*

**Gerontology (GERO)**

**GERO 51096**  
**INDIVIDUAL INVESTIGATION IN GERONTOLOGY (1-3)**
Independent study in the area of gerontology. Prerequisite: Graduate student standing.

**GERO 54030**  
**ADULT DEVELOPMENT AND AGING (3)**
Examines development processes across adulthood. Evaluation of theoretical models and scientific literature.

**GERO 54032**  
**LONG TERM CARE ADMINISTRATION (3)**
Presents an overview and introduction to the principles of long-term care (LTC) administration and other administration options. (Active Spring 2010)

**GERO 54092**  
**PRACTICUM IN GERONTOLOGY (3-10)**
Observation and participation in long-term care (LTC) administration and other administration options. Available Spring 2010.

**GERO 61091**  
**SEMINAR IN GERONTOLOGY (1-3)**
Seminars dealing with topics in the field of gerontology.

**GERO 61191**  
**INTERDISCIPLINARY SEMINAR IN GERONTOLOGY (3)**
Course is designed to assist students in developing the knowledge and skills needed to understand major issues in gerontological theory, research and practice from a multidisciplinary perspective.

**GERO 64022**  
**FAMILY LIFE IN THE LATER YEARS (3)**
Research on families in the later years is reviewed, with a particular emphasis on its utility to family life practitioners.

**Health Education and Promotion (HED)**

**HED 50093/70093**  
**VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION (1-3)**
Discussion of major issues in health and safety education. Content, emphasis and prerequisites vary depending on workshop. S/U grading.

**HED 51561**  
**ENVIRONMENTAL HEALTH (3)**
Effects on human health of overpopulation, and various sources of energy and the resultant environmental pollutants.
HED 52041
HEALTH COUNSELING (3)
Techniques of counseling applied to health education. Individual and group approaches relative to personal, family and societal-health issues. The course includes 20 field/clinical hours.

HED 52575
HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS (3)
Focus on health issues/education/environment policy and practice strategies to respond to threats confronting students utilizing a coordinated school/community strategy to promote health to improve academic outcomes. CPR and first aid certification required for completion of course.

HED 54025
WOMEN’S HEALTH ISSUES (3)
Traditional and feminist analysis of women’s health issues and the health educational responses to those issues.

HED 54095/74095
SPECIAL TOPICS: HEALTH EDUCATION AND PROMOTION (1-3)
Selected topics related to public-health issues facing professionals in communities, schools, health-care settings, and the worksite.

HED 54096/74096*
INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION (1-3)
Independent reading and/or research directed by a graduate faculty member. S/U grading; IP permissible. Prerequisite: Permission.

HED 54543
ADMINISTRATION OF SCHOOL HEALTH PROGRAMS (3)
Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.

HED 54544
SEXUAL HEALTH PROMOTION PROGRAMS (3)
This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings.

HED 54550
DRUG ABUSE AND VIOLENCE PREVENTION (3)
Drug abuse and violence prevention from theoretical, philosophical, empirical and practical perspectives. Application of etiological theories to planning prevention programs. Prerequisite: HED 32530 or equivalent.

HED 54565
HEALTH DATA ANALYSIS AND PRESENTATION (3)
Analysis, interpretation and presentation of data utilized in epidemiological surveillance and evaluation. Application of statistical and graphic computer programs in this area.

HED 56052
STRESS: RECOGNITION AND MANAGEMENT (2)
An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body’s reaction to stress, and techniques for recognizing, preventing and reducing stress.

HED 56057
ADVANCED HUMAN SEXUALITY (3)
Selected aspects of human sexuality: history, cross-cultural perspectives, medical/surgical therapy and counseling.

HED 56060
DEATH EDUCATION (3)
Issues of living with the human experience of death and facilitating understanding with selected client systems in schools and community agencies.

HED 56070
HEALTH RELATED ASPECTS OF AGING (3)
Theories of biological aging and identification of major health hazards, age-related diseases and age changes, their prevention and control. The health care delivery system for the elderly.

HED 57070
AIDS: ISSUES, EDUCATION AND PREVENTION (3)
This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to AIDS education and prevention issues and strategies.

HED 57091/77091
CURRENT ISSUES AND TRENDS IN HEALTH EDUCATION AND PROMOTION (1-3)
Public health issues facing professionals in communities, schools, health-care settings and the worksite.

HED 58092/78092*
FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION (1-3)
Observation and participation in educational and promotional activities of a public health agency, school, or health care facility joint university-agency supervision. S/U grading; IP permissible. Prerequisite: Permission.

HED 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

HED 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: HED 60199.
HED 64010/74010
HEALTH INFORMATICS (3)
Systematic application of information and computer science and technology to health practice, research and learning. Course teaches health informatics competencies for health professionals.

HED 64030/74030
INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION PROMOTION (3)
Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.

HED 64050/74050
HEALTH BEHAVIOR (3)
Analysis of a broad range of theoretical and empirical models of health and illness behavior. Prerequisite: HED 64010, 64061 or permission.

HED 64051/74051
BIOBEHAVIORAL ASPECTS OF DISEASE (3)
The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention and health promotion. Prerequisite: HED 64072.

HED 64055/74055
NEEDS ASSESSMENT AND PROGRAM PLANNING IN HEALTH PROMOTION (3)
Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs. Prerequisite: HED 64010, 64050, 64059, 64061, 64063 and 64072.

HED 64057/74057
EVALUATION OF HEALTH PROMOTION PROGRAMS (3)
Reviews basic principles and types of evaluations. Students will develop an evaluation plan to determine effectiveness of program developed in HED 6/74055. Prerequisite: HED 64010, 64050, 64055, 64061, 64063 and 64072.

HED 64058/74058
DEVELOPMENTAL APPROACH TO CONTENT AND RESOURCES IN HEALTH EDUCATION (3)
Focus on examination of six CDC problem priority areas through the lens of developmentally appropriate practice parameters for children and youth.

HED 64059/74059
COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION (3)
Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion. Prerequisite: HED 64010, 64050, 64061 and 64072.

HED 64060/74060
GRANT WRITING FOR HEALTH EDUCATION AND PROMOTION (3)
Focuses on the development of basic grant writing skills for health educators, including the search for funding sources and proposal development.

HED 64061/74061
FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION (3)
Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/leadership, government initiatives, standards of practice and accreditations are examined.

HED 64062/74062
ADMINISTRATION OF HEALTH PROMOTION PROGRAMS (3)
Basic concepts in the administration of health education/promotion programs. Coordination of program services, consultative relationships, management of human and fiscal resources and organizational leadership are addressed. Prerequisite: HED 64010 and 64061.

HED 64063/74063
STRATEGIES IN HEALTH EDUCATION AND PROMOTION (3)
Health education and promotion methods, techniques and strategies are presented for a variety of audiences, learning environments and intervention levels.

HED 64066/74066
HEALTH IN THE DEVELOPING NATIONS (3)
Overview of national development, review of problems, process and strategy of health development.

HED 64070/74070
WORKSITE HEALTH PROMOTION (3)
Program planning and evaluation of health promotion programs in business and industry with an emphasis on the role of health educators.

HED 64072/74072
EPIDEMIOLOGY (3)
Overview of history and nature of epidemiological research: definition of problem, design, collection, analysis and presentation of data relevant to the study of disease distribution. Introduction to the logic of statistical inference. Pre or Corequisite: HED 64010, 64061 or concurrent enrollment.

HED 64080/74080
ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION PROMOTION (3)
Emphasizes the advocacy role of health educators. Includes use of research results to develop, analyze and influence health policy.
HED 64082/74082
READINGS IN HEALTH EDUCATION AND PROMOTION (1-3)
Independent study of approved topics in health and safety education related to the student’s special interests. Advisor’s permission required to repeat registration one time. S/U grading; IP permissible. Prerequisite: Health Education or Public Health major.

HED 64084/74084
BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS (1-3)
A behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged. May include field projects, participation in health-related investigations and presentations and personal development programs. Repeat registration permitted. S/U grading.

HED 64091/74091
SEMINAR IN HEALTH EDUCATION AND PROMOTION (1)
Presentation and discussion of research by faculty and graduate students. Total of 2 credits may be applied toward degree requirements. S/U grading.

HED 64094/74094
COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION (2)
Guided experiences in teaching selected undergraduate courses. S/U grading. Prerequisite: Permission.

HED 64098/74098
PROJECT IN HEALTH EDUCATION AND PROMOTION (1-3)
Research or individual investigation for master’s-level graduate students. Repeat registration permitted. Prerequisite: Permission.

HED 71250
PUBLIC HEALTH PRACTICE AND HEALTH PROMOTION (3)
Examines the roles of health agencies related to the protection and promotion of health, health planning and the health care delivery system. Prerequisite: Doctoral standing.

HED 71350
SYSTEMS APPROACH TO HEALTH PROMOTION (3)
In-depth examination of issues which promote and maintain health behavior and prevent lifestyle risks that lead to disease for individuals and groups. Prerequisite: Doctoral standing.

HED 71450
EVALUATION OF PREVENTIVE INTERVENTIONS (3)
A review of evaluation methods used in health education/promotion intervention trials. Emphasis will be placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of results. Prerequisite: HED 6/74055, HED 6/74057, and Doctoral standing.

HED 71550
APPLICATION OF THEORY IN HEALTH EDUCATION AND PROMOTION RESEARCH (3)
Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs. Prerequisite: 6/74050 or equivalent.

HED 80199
DISSERTATION I (15)
Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours. S/U grading; IP permissible.

HED 80292
INTERNSHIP IN HEALTH EDUCATION AND PROMOTION (3)

HED 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met. S/U grading; IP permissible.

HED 81100
DOCTORAL RESIDENCY SEMINAR I IN HEALTH EDUCATION AND PROMOTION (3)
Exploration of philosophical, theoretical and empirical issues in health education/promotion. Student will synthesize courses, research and practice in preparation for comprehensives. S/U grading; IP permissible. Prerequisite: Permission.

HED 81150
SEMINAR: PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION AND PROMOTION (3)
This course focuses on the process, practice and documentation of professional development in health promotion in the areas of instruction, program development, community organization and coalition building, research and evaluation. S/U grading.

HED 81200
DOCTORAL RESIDENCY SEMINAR II IN HEALTH EDUCATION AND PROMOTION (3)
Synthesis and application of health knowledge to development of a philosophical, theoretical and empirical orientation for research. S/U grading. Prerequisite: HED 81100.

HED 81250
PUBLIC HEALTH PRACTICE AND HEALTH PROMOTION (3)
The role of public health practice and policy in the promotion of the nation’s health. A review of the basis/tools/settings/provision of services/future needs of public health will be addressed in the context of health promotion.
HED 81350
SYSTEMS APPROACH TO HEALTH PROMOTION (3)
This course will address a variety of issues relevant to health promotion, including philosophy, content, strategies, evaluation, national and international perspectives utilizing a socio-ecological framework.

HED 81450
EVALUATION OF PREVENTIVE INTERVENTIONS (3)
A review of evaluation methods used in health education/promotion intervention trials. Emphasis will be placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of the results. Prerequisite: HED 6/74055, and HED 6/74057.

HED 81550
APPLICATION OF THEORY IN HEALTH EDUCATION AND PROMOTION RESEARCH (3)
Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs. Prerequisite: HED 6/74050.

*Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned “school/agency” before the first day of the semester in which the student teaching/internship will take place.

HIGHER EDUCATION ADMINISTRATION

HIED 66492/76492
INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION (3-6)
Field-based internship requiring a separate project as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.

HIED 66521/76521
EMPLOYMENT LAW (3)
Study of public and private sector bargaining law and all terms and conditions of employment. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE).

HIED 66594/76594
INTERNSHIP IN COLLEGE TEACHING (3)
Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis. IP permissible. Prerequisite: At least 12 hours in higher education.

HIED 66595/76595
SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION (3)
Specialized offerings in response to emerging or selected program needs.

HIED 66596/76596
INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION (2-4)
Projects as assigned. Prerequisite: special approval.

HIED 66598/76598
RESEARCH IN HIGHER EDUCATION ADMINISTRATION (2-8)
Projects as assigned. Prerequisite: special approval.

HIED 66600/76600
HISTORY OF HIGHER EDUCATION (3)
Cross listed: EDPF 69567/79567. Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.

HIED 66601/76601
PRIVATE LIBERAL ARTS COLLEGE (3)
Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions, as well as the nature of specific examples of institutions. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE).

HIED 66650/76650
ORGANIZATION AND ADMINISTRATION OF HIGHER EDUCATION (3)
Provides students with an understanding of organization and structure of institutions of higher education. Content includes study of academic administration and academic advising.

HIED 66651/76651
STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION (3)
Study of the history, philosophy, practices and organization of student affairs functions in higher education.

HIED 66652/76652
LAW AND HIGHER EDUCATION (3)
Provides for the examination of major legal aspects of the administration of institutions of higher learning.

HIED 66653/76653
COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE (3)
Study of theories concerning the development of college students and other adults, and principles for translating theory into practice.

HIED 66654/76654
STUDENTS AND THE COLLEGE ENVIRONMENT (3)
Study of the impact of different types of students and college environments on each other within the context of a changing society. Prerequisite: HIED 6/76653 and permission of instructor.
HIED 66655/76655  
CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION (3)  
Study of management responsibilities and leadership issues of student affairs administrators. Prerequisite: HIED 66652 and 66653 and 66657.  

HIED 66656/76656  
HIGHER EDUCATION CURRICULUM (3)  
Introduces perspectives on curriculum development, implementation and assessment in higher education and addresses theoretical, historical, political and contemporary perspectives on higher-education curriculum.  

HIED 66657/76657  
LEADERSHIP IN EDUCATIONAL ORGANIZATION (3)  
By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE).  

HIED 66658/76658  
THE COMMUNITY COLLEGE (3)  
A study of the foundations, structure, programs and issues of community college education in the United States.  

HIED 66660/76660  
FACULTY ROLES AND RESPONSIBILITIES (3)  
A study of faculty roles and responsibilities in American higher education.  

HIED 66662/76662  
POLITICS AND POWER IN ORGANIZATIONS (3)  
This course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both “internal” and “external” settings.  

HIED 66666/76666  
FINANCIAL MANAGEMENT IN HIGHER EDUCATION (3)  
This course is designed to provide students of higher education with the knowledge of financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.  

HIED 66667/76667  
BUSINESS ADMINISTRATION IN HIGHER EDUCATION (3)  
This course introduces students to the administrative and business management of institutions of higher education. The course covers topics such as institutional planning, space management, insurance matters, personnel administration, purchasing and facility management. Prerequisite: HIED 6/76657  

HIED 66668/76668  
THE ADMINISTRATION OF DISTANCE AND CONTINUING EDUCATION PROGRAMS IN HIGHER EDUCATION (3)  
Develop practical skills for leading continuing and distance education programs as educational institutions seek to meet the needs of students in an era of lifelong learning. Includes planning, managing, budgeting and marketing in an academic environment. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE).  

HIED 66669/76669  
ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION (3)  
Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.  

HIED 66670/76670  
INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS (3)  
Students study the historical and current development of the internationalization of higher education institutions; explore higher education administrative leadership characteristics, social/political/economic factors, and national and international relationships that have affected various countries and regions; and examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.  

HIED 66671/76671  
THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION (3)  
Course covers racial/ethnic and inclusive diversity and multiculturalism in U.S. higher education settings. Diversity is discussed from a historical perspective, providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; curriculum and pedagogy matters; research issues; law and policy issues; and strategic planning for institution diversity in higher education.  

HIED 66672/76672  
INTERNATIONAL STUDENTS AND AMERICAN COLLEGES (3)  
Bridging theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.
HIED 66673/76673  
RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION (3)  
Examines and analyzes research related to high education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad will be thoroughly discussed. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration- Higher Education (EDHE).

HIED 66674/76674  
ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION (3)  
Provides a framework that supports a better understanding of American higher education administration through an international perspective. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration- Higher Education (EDHE).

HIED 66675/76675  
DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS (3)  
Participants examine the many critical aspects of designing, planning and implementing an education abroad program; analyze its components, and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities, safety issues and more. Students also develop skills in conducting needs assessments and program evaluations. (Active Spring 2010)

HIED 66677/76677  
WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES (3)  
Within the context of social, economic, and technology shifts, this course examines the role of the community college in workforce, economic and community development.

HIED 66678/76678  
ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION (3)  
Addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.

HIED 66733/76733  
INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS (3)  
Participants work in task groups learning about interpersonal, group and intergroup dynamics in organizations through lectures, discussions and analysis of their in-group experiences.
HIED 86559
ADVANCED STUDENT & ADULT DEVELOPMENT (3)
Helps develop an in-depth understanding of one or more current theories of student or adult development. Students will gain additional knowledge in student development theory and theory creation. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE), and Doctoral standing.

*Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned “school/agency” before the first day of the semester in which the student teaching/internship will take place.

Human Development and Family Studies (HDFS)

HDFS 51093
VARIABLE TITLE WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY STUDIES (1-3)
Workshop setting dealing with a topic or topics in human development and family studies. Learning experiences are provided in a wide range of areas. S/U grading.

HDFS 51095
SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES (1-4)
Discussion of a major topic within human development and family studies.

HDFS 51096
INDIVIDUAL INVESTIGATION (1-3)
Independent study in human development and/or family studies.

HDFS 54019
INTERGENERATIONAL EXPERIENCES (3)
Provides students practical experience in working with older adults in a structured setting. The focus of activities will be on enhancing the well-being of all participants and providing information in the areas of health, fitness, and other areas of well-being as well as community resources for older adults. Students apply information about adult development to the older participants or members via a case study. Moreover, both the students and older adults will become more knowledgeable about the characteristics of each age group and their respective cultures, and achieve a comfort level that promotes intergenerational experiences.

HDFS 54020
ADOLESCENT DEVELOPMENT (3)
Adolescent development with emphasis on forces related to adolescent behavior. Evaluation of current research. Prerequisite: Family Studies (FS) major.

HDFS 54021
FAMILY INTERVENTION ACROSS THE LIFE SPAN (3)
Evaluation of research and theoretical models in the area of family intervention. Focus on strategies for assisting families in coping with a variety of critical issues over the family life cycle. Prerequisite: Family Studies (FS) major.

HDFS 54023
BUILDING FAMILY STRENGTHS (3)
The Building Family Strengths Model builds upon family life potential, based on extensive research emphasizing identified family strengths.

HDFS 54028
PARENT-CHILD RELATIONSHIPS (3)
Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research. Prerequisite: Family Studies (FS) major.

HDFS 54029
FAMILY POLICY (3)
Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy-making. Prerequisite: Family Studies (FS) major.

HDFS 54031
INTERGENERATIONAL FAMILY CAREGIVING (2)
Intergenerational concerns of family caregivers across the lifespan, coping resources, formal and informal support systems.

HDFS 54092
PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (3-10)
Observation and participation in services offered by family and childcare agencies. Prerequisite: Family Studies (FS) major.

HDFS 55514
THE CONSUMER FAMILY IN TODAY’S SOCIETY (2)
Study of current and future role of consumer families relevant to consumption, alternatives and priorities.

HDFS 61018
TECHNIQUES OF RESEARCH IN FAMILY AND CONSUMER STUDIES (3)
Introduction to the types of research and methods of data collection applied to a project of student’s choice.

HDFS 61091
SEMINAR (2-3 IN EACH AREA)
Evaluation and interpretation of recent literature in human development and/or family studies. Topic selected for semester will be indicated in the Schedule of Classes.
HDFS 61098
RESEARCH (1-15)
Research for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Repeat registration permitted. IP permissible.

HDFS 61198
MASTER'S PROJECT (2-6)
Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester. Distributed over several semesters if desired. S/U grading; IP permissible.

HDFS 61199
THESIS I (2-6)
Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

HDFS 61299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: HDFS 61199.

HDFS 64022
FAMILY LIFE IN THE LATER YEARS (3)
Research on families in the later years is reviewed, with a particular emphasis on its utility to family life practitioners.

HDFS 64023
FAMILY DEVELOPMENT (3)
Relationship and organization in family living occurring during family life cycle with implications for professionals who work with families. Prerequisite: HDFS 24011 or equivalent.

HDFS 64024
FAMILY LIFE EDUCATION (3)
Developing community acceptance, teaching aids and techniques, and curriculum for family life education.

HDFS 64025
STUDIES IN CHILD REARING (3)
Review and critical analysis of selected child-rearing studies in contemporary American society.

HDFS 64027
EARLY ADOLESCENCE (3)
Examines the fundamental changes, social contexts and psychosocial processes involved in human development from ages eight through 15. Implications for working with this age group within schools and human service agencies.

HDFS 65516
FAMILY RESOURCE MANAGEMENT (2)
Examines resource and financial management across the life cycle.

HDFS 65517
WORK AND FAMILY (3)
Impact on family roles, life stage planning, career decisions and support systems. Responses and trends of public policy and corporate actions.

Hospitality Management (HM)

HM 53025
HOSPITALITY MARKETING (3)
Application of marketing principles, practices and theories relevant to hospitality organizations. Internet marketing in hospitality. Case studies drawn from the hospitality industry are incorporated.

HM 53027
HOSPITALITY HUMAN RESOURCE MANAGEMENT (3)
Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management-focused case studies and current controversies are incorporated.

HM 53029
HOSPITALITY FINANCIAL POLICY (3)
Strategic financial decision making for short and long-term financial management problems in various hospitality organizations such as hotels, restaurants, clubs and resorts, through case analysis.

HM 53030
FOOD SERVICE SYSTEMS MANAGEMENT (3)
The study of food services systems management, including menu planning and evaluation, recipe development, purchasing, equipment, financial management, marketing and human resources.

HM 53040
STRATEGIC LODGING MANAGEMENT (3)
The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.

HM 53043
HOSPITALITY MEETINGS MANAGEMENT (4)
Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association, and corporate events: weddings, reunions, award banquets, receptions, and annual meetings held in hospitality venues requiring food and beverage and/or lodging.

HM 61098
RESEARCH IN HOSPITALITY MANAGEMENT (1-15)
Research for master's-level graduate students. Credit earned may be applied toward meeting degree requirements if school approves. Prerequisite: special approval.
HM 61198  
MASTER’S PROJECT IN HOSPITALITY MANAGEMENT (2-6)  
Completion and successful defense of master’s project.  
Master’s project students must register for a total of 6 credit  
hours, 2 to 6 in a single semester; distributed over several  
semesters if desired. Prerequisites: special approval.

HM 61199  
THESIS I (2-6)  
Thesis students register for a total of 6 credit hours, 2 to 6  
hours in a single semester, distributed over several semesters if  
desired. Prerequisite: special approval.

HM 61299  
THESIS II (2)  
Thesis II students must continue registration each semester  
until all degree requirements are met. Prerequisite: HM 61199.

HM 63022  
CURRENT ISSUES IN HOSPITALITY AND TOURISM  
MANAGEMENT (3)  
Current research and management issues in hotels, resorts,  
restaurants, clubs and other hospitality operations are explored  
through the peer-reviewed and professional literature. Current  
tourism topics with implications for hospitality managers are  
included.

HM 63024  
MANAGEMENT OF FOOD AND NUTRITION SERVICES (3)  
Management issues in health care, food and nutrition services,  
child nutrition programs and other noncommercial food  
services will be examined. The impact of quality standards,  
public policy and current societal trends upon management of  
noncommercial operations will be studied.

HM 63026  
RESEARCH SEMINAR (1)  
Presentation and discussion of research and projects by  
students and faculty. Course may be repeated once for a total  
of 2 credit hours to be applied toward degree requirements.  
Corequisite: ELS 63098 or 63199 or 63299; or HM 61198 or  
61199 or 61299.

HM 63095  
SPECIAL TOPICS IN HOSPITALITY MANAGEMENT (1-3)  
Specialized offering of a major topic within hospitality  
management.

*Students are required to complete Bureau of Criminal  
Investigation and Identification (BCII) and Federal Bureau of  
Investigation (FBI) background checks and submit the results to  
authorized personnel at their assigned “school/agency” before the  
first day of the semester in which the student teaching/internship  
will take place.

Instructional Technology (ITEC)

ITEC 50093/70093  
VARIABLE TITLE WORKSHOP IN EDUCATIONAL MEDIA (1-4)  
S/U grading. Prerequisite: Permission.

ITEC 57400  
SELECTION AND UTILIZATION OF EDUCATIONAL MEDIA (3)  
Discusses principles and techniques in the selection and  
utilization of media for instructional purposes.

ITEC 57401  
DESIGN AND PRODUCTION OF EDUCATIONAL MEDIA (3)  
Applies a variety of approaches to the design and production  
of instructional media. The course develops skills in  
photography, audio and television.

ITEC 57402  
ORGANIZATION AND ADMINISTRATION OF EDUCATIONAL  
MEDIA PROGRAMS AND CENTERS (3)  
Examines the planning, organizing, administering and  
evaluating of educational media programs and centers.

ITEC 57403  
INSTRUCTIONAL DESIGN (3)  
Enables participants to systematically design instructional  
sequences that incorporate media as integral components.

ITEC 57411/77411  
DESIGNING VISUALS FOR INSTRUCTION (3)  
Investigation of historical, cultural, aesthetic dimensions of  
instructional visual design. Focus on design of instructional  
visuals across media, including print, video, computer-based  
technology. Presentations, lab activities.

ITEC 57413  
DIGITAL VIDEO IN EDUCATION (3)  
Design/production of instructional TV programming. Planning  
and scripting techniques. Hands-on experience with TV  
equipment. Students will digitize video footage, learn  
nonlinear editing techniques, export productions to tape/CD.

ITEC 57427  
TECHNOLOGY AND LEARNING (3)  
Overview of technology used in education. Focuses on  
implementing and facilitating learner-centered curriculum  
with computer technology. Students develop Web-based  
instructional materials.

ITEC 57430  
COMPUTER APPLICATIONS IN EDUCATION (3)  
Preparation for use of computers effectively in variety of  
educational settings. Students should have some expertise  
with computers. Focus on advanced applications in education.  
Macintosh and Windows.
ITEC 60199
THESIS I (2-6)
Master of Arts students must register for at least one semester of Thesis I under the supervision of an advisor. S/U grading; IP permissible.

ITEC 60299
THESIS II (2)
If 6 credits of Thesis I have been completed, M.A. students must continue to register each semester under Thesis II until all degree requirements are met. S/U grading; IP permissible.

ITEC 67409/77409
TEACHER EDUCATION AND MEDIA (2)
Considers current and emerging emphases in teacher education, including use of media to support teacher education, development of media competencies and supervision in the media area.

ITEC 67410/77410
SIMULATION — GAMES IN EDUCATION (3)
Provides students with opportunities to explore simulation and games as a strategy for learning. Experiences in both group role-playing simulations and computer simulations will be included.

ITEC 67412
INSTRUCTIONAL TECHNOLOGY IN SECONDARY SCHOOLS (1)
This course provides activities appropriate to develop the skills necessary for using educational technology in the secondary school setting. Students will develop an understanding of how technology is used to solve a variety of problems in secondary school teaching.

ITEC 67415/77415
UTILIZING TELEVISION IN THE CLASSROOM (2)
Explores the utilization of instructional and commercial television in the classroom.

ITEC 67417/77417
ADVANCED INSTRUCTIONAL DESIGN (3)
Compares selected models of instructional design and discusses their advantages and disadvantages for designing instruction. Prerequisite: ITEC 57403.

ITEC 67420/77420
CURRENT ISSUES IN INSTRUCTIONAL TECHNOLOGY (3)
Exploration of significant current issues in the field of instructional technology, including latest research findings, use of newest technologies, instructional design issues, present state of the field and future directions.

ITEC 67425/77425
MANAGING TECHNOLOGICAL CHANGE (3)
Analysis and evaluation of change process are explored, particularly as they relate to use of instructional technology. Management role for facilitating planned change as studied through communication and management models.

ITEC 67431/77431
PROGRAMMING FOR EDUCATORS (3)
Teacher programming of languages utilized in education—BASIC, LOGO, Hypercard, etc.

ITEC 67432/77432
DESIGNING MULTIMEDIA FOR INSTRUCTION (3)
Focuses on the design, production and evaluation of computer-assisted instructional materials. Instructional design and research are applied to the development of software. Prerequisite: ITEC 57403, 6/77437.

ITEC 67433/77433
INTERACTIVE VIDEO (3)
Involves the design, production and evaluation of interactive video, a hardware configuration that combines computer and video technology. Prerequisites: ITEC 57403, 6/77432.

ITEC 67434/77434
EMERGING TECHNOLOGIES (3)
Focus on theoretical foundations, design and development of instructional delivery systems employing leading-edge or emergent technologies. Specific technologies include multimedia, interactive Web-based instruction. Presentations, lab.

ITEC 67435/77435
VIRTUAL REALITY (3)
Virtual reality provides promise as a tool for educators. Students will learn to create and evaluate instructional applications. Activities will include actual production of virtual worlds as well as virtual experiences on the Internet.

ITEC 67436/77436
DISTANCE EDUCATION (3)
This course explores various approaches to delivering instruction to distant sites and examines a variety of critical issues, such as planning, choice of technology, cost, teaching strategies, evaluation, etc.

ITEC 67437/77437
AUTHORING SYSTEMS (3)
An introduction to tools and techniques for developing computer-based multimedia programs. Features of authoring systems are compared/contrasted for producing Web-based and stand-alone multimedia. Packing multimedia programs for distribution on delivery systems is emphasized.

ITEC 67438/77438
INSTRUCTIONAL APPLICATIONS OF THE INTERNET (3)
Provides knowledge and skills needed to use the Internet effectively in instruction at all levels. Two major concentrations are computer-mediated communications and instructional Web site development. Prerequisite: ITEC 57403, 57430.
ITEC 67439
PORTFOLIO REVIEW (1)
Students modify projects and products developed in earlier
courses to ensure highest quality. Students present results to
faculty to show expertise in instructional design, virtual design,
multimedia and World Wide Web development. S/U grading; IP
permissible. Prerequisite: Permission.

ITEC 67442
DESIGNING ONLINE COURSES (3)
Online learning and teaching present new challenges for
designing high quality instructional experiences for students.
This course enables students to design and develop effective
online educational materials, interactions and discourses
to increase learning in online settings. Students design
and develop online materials. Course is presented online.
Prerequisite: ITEC 6/77438.

ITEC 67444
TEACHING ONLINE COURSES (3)
Course explores using pedagogical approaches appropriate
to online learning, including facilitating synchronous and
asynchronous discussions, facilitating embedded assessment,
enhancing online interactivity, collaboration and community
and incorporating self-directed learning. Students discuss,
analyze and use these strategies in online teaching and
learning. Course is presented online. Prerequisite: ITEC
6/77438.

ITEC 67449
RESEARCH IN ONLINE LEARNING (3)
Course reviews current research issues in online teaching
and learning and explores potential new areas of research.
Students engage in guided inquiry to identify, understand,
apply and critique current research in online learning and to
discover and construct new areas. Students participate in a
constructive online learning environment. Course is presented
online. Prerequisite: ITEC 6/77442 or ITEC 6/77444.

ITEC 67491/77491
SEMINAR: EDUCATIONAL MEDIA (1-4)
Variable topic seminar for advanced study of specialized areas
and topics. Normally designed around research and theory
applied to practice.

ITEC 67492/77492*
ADVANCED PRACTICUM AND INTERNSHIP IN
INSTRUCTIONAL TECHNOLOGY (1-10)
Supervised program requiring application of theory and
practice in instructional technology in either school or non-
school settings. Planned with and directed by a graduate
faculty member. S/U grading; IP permissible.

ITEC 67495/77495
SPECIAL TOPICS IN EDUCATIONAL MEDIA (1-5)
Specialized offering in response to emerging or selected
program needs in instructional technology.

ITEC 67496/77496
INDIVIDUAL INVESTIGATION IN INSTRUCTIONAL
TECHNOLOGY (1-10)
Directed independent reading and/or research of special
interest or need in student's program. Planned with and
directed by a graduate faculty member. S/U grading; IP
permissible.

ITEC 67498/77498
INDEPENDENT RESEARCH IN INSTRUCTIONAL
TECHNOLOGY (1-10)
Students pursue an individualized research project on
aspecialized topic with approval and under direction
of instructor. S/U grading; IP permissible. Prerequisite: EDPF
60098.

Middle Childhood Education (MCED)

MCED 50002*
TEACHING SCIENCE IN MIDDLE CHILDHOOD II (3)
Individual and group work develop effective techniques of
teaching science concepts to 8 to 14 year olds. Attention
given to methods, equipment, safety and planning. This course
includes 40 field/clinical hours. Special fee: $15 per semester.
Prerequisite: MCED 30002.

MCED 50003*
TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II (3)
Advanced methods course. Examines the purpose of
citizenship education and understanding the role of history
and the social sciences. Applies the principles of powerful
teaching. Includes a major field experience at the student
teaching site. Prerequisite: MCED 30002.

MCED 50005
EFFECTIVE USE OF PHONICS IN READING (3)
The influence of theoretical perspectives on word
identification instruction, an examination of the role of
phonics in reading and writing, strategies for effective phonics
instruction and assessment.
MCED 50006
READING AND WRITING IN MIDDLE CHILDHOOD (6)
Understanding of literacy learning in middle childhood (ages 8-14) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment, and teaching children who struggle as readers.

MCED 50007
TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD (3)
The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program. Prerequisite: MCED 50006.

MCED 52358*
STUDENT TEACHING IN MIDDLE CHILDHOOD (9)
Full-time student teaching for 12 weeks on an interdisciplinary team in two selected concentrations (mathematics, language arts, social studies, science) and reading in grades 4-9. Prerequisite: Permission of program coordinator.

MCED 59525
INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD (3)
A seminar linked to student teaching with an emphasis on action research as professional development, completion of professional portfolios, professional ethics and legal, medical and ethical issues in teaching. Prerequisite: Minimum grade of “C” in CI 67107, and MCED 50007.

MCED 60092/70092*
ADVANCED PRACTICUM IN MIDDLE CHILDHOOD (2-6)
Teaching and observing in grades 4-9.

Public Health (MPH)

MPH 60092
MPH PRACTICUM (1-3)
Student is teamed with a faculty advisor and community preceptor(s) to work on a meaningful public health issue. For students who desire additional field experience. S/U grading. Prerequisite: Master of Public Health (PH) major.

MPH 60095
MPH SPECIAL TOPICS (1-5)
Selections will focus on specific topics of current interest to public health workers. Fliers describing the section offering will be distributed prior to registration each semester. Prerequisite: Master of Public Health (PH) major.

MPH 60098
RESEARCH: CAPSTONE PROJECT (3-6)
Student is teamed with a faculty advisor and community preceptor(s) to work on a meaningful public health issue. This work facilitates the integration of material from the core M.P.H. courses. A paper (e.g., grant, study, proposal, etc.) demonstrating the application learned in previous courses will be required. Prerequisite: MPH 60101, MPH 60102, MPH 60103, MPH 60104, MPH 60105, and MPH 60106.

MPH 60101
PUBLIC HEALTH CONCEPTS (3)
Organizational structure, history, law, ethics, essential services, global problems and future of public health. Lecture, discussion, projects, presentations. Prerequisite: Master of Public Health (PH) major.

MPH 60102
SOCIAL AND BEHAVIORAL SCIENCES IN PUBLIC HEALTH (3)
Theories of health education and promotion; interventions (communication, collaboration and strategies); sociocultural, diversity and regional issues as pertains to public health. Prerequisite: Master of Public Health (PH) major.

MPH 60103
EPIDEMIOLOGY IN PUBLIC HEALTH (3)
Epidemiological methods, including study design, legal/ethical aspects and epidemiological information. Applications of methods including screening, disease surveillance, outbreak investigation and community needs assessment. Student presentations to focus on special topics such as infectious diseases, chronic conditions, etc. Prerequisite: Master of Public Health (PH) major.

MPH 60104
BIOSTATISTICS IN PUBLIC HEALTH (3)
Principles of biostatistics in the context of multiple public health applications, epidemiological information and various statistical packages to be used. Prerequisite: Master of Public Health (PH) major.

MPH 60105
HEALTH SERVICES ADMINISTRATION IN PUBLIC HEALTH (3)
Management principles, including personnel administration, budgeting, financing and continuous quality improvement as pertains to public health. Planning and evaluation principles, grant-writing, public health economics, public health policy and data sources. Prerequisite: Master of Public Health (PH) major.

MPH 60106
ENVIRONMENTAL HEALTH SCIENCES IN PUBLIC HEALTH (3)
Air quality, water quality, food hygiene, sanitation, solid waste management, hazardous materials management, vector-borne disease, other special topics, occupational health, legal issues, environmental hazard identification and response. Prerequisite: Master of Public Health (PH) major.
### MPH 60108
**PUBLIC HEALTH PRACTICE AND ISSUES (3)**
In an organizational setting, the following topics will be explored: informatics and communication, diversity and cultural proficiency, ethics, and biology. These topics are emerging public health issues which will be explored through online channels using cases, and applied to an organizational setting. Prerequisite: MPH 60101 and MPH 60102.

### MPH 60110
**GRANT WRITING IN PUBLIC HEALTH PRACTICE (3)**
Methods and techniques for writing and managing grant proposals to support public health programs. Emphasis on development of proposals, identification of grant sources, managing of funded projects and use and development of RFP’s. Prerequisite: MPH 60101 and MPH 60102.

### MPH 60196
**INDIVIDUAL INVESTIGATION IN PUBLIC HEALTH (1-3)**
Intensive research or readings on selected topic or problem to be selected in consultation with M.P.H. graduate faculty. Prerequisite: MPH 60101 and MPH 60102.

### NUTR 51093
**VARIABLE TITLE WORKSHOP IN NUTRITION (1-3)**
Workshop setting dealing with a topic or topics in the field of nutrition and dietetics. Prerequisite: Graduate student standing. S/U grading.

### NUTR 51095
**SPECIAL TOPICS IN NUTRITION (1-4)**
Discussion of a major topic within a specific field of nutrition and dietetics.

### NUTR 51096
**INDIVIDUAL INVESTIGATION IN NUTRITION (1-3)**
Independent study in the area of nutrition and dietetics. Prerequisite: Graduate student standing.

### NUTR 53013
**EXPERIMENTAL METHODS IN NUTRITION (3)**
Student gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing are applied. Prerequisite: nutrition and dietetics (NUTR) major.

### NUTR 53016
**CULTURAL ASPECTS OF FOOD, NUTRITION AND HEALTH (3)**
Cultural overview of racial, ethnic and religious population groups residing in the United States and the impact on food habits, nutritional and health status and counseling concerns. Prerequisite: NUTR 23511.

### NUTR 53512
**ADVANCED NUTRITION I (3)**
Mechanisms through which nutrients meet human biological needs. Fundamental concepts underlying human nutrition. Evaluation and interpretation of research findings. Prerequisites: nutrition and dietetics (NUTR) major.

### NUTR 53513
**ADVANCED NUTRITION II (3)**
Mechanisms through which nutrients meet human biological needs. Fundamental concepts underlying human nutrition. Evaluation and interpretation of research findings. Prerequisites: nutrition and dietetics (NUTR) major.

### NUTR 53514
**CLINICAL DIETETICS (4)**
Application of the principles of normal nutrition to diet and disease effect of pathological conditions on nutritional needs. Also included is a lab which provides the opportunity for students to engage in case studies and nutritional assessments. Prerequisites: nutrition and dietetics (NUTR) major.

### NUTR 53515
**COMMUNITY NUTRITION (3)**
Introduction to nutrition problems and practices in the community study of legislation, philosophies, management strategies and agencies affecting nutritional care. Prerequisites: nutrition and dietetics (NUTR) major.

### NUTR 53518
**MATERNAL AND CHILD NUTRITION (3)**
Nutrition requirements and problems: pregnancy, lactation, childhood and adolescence. Prerequisites: nutrition and dietetics (NUTR) major.

### NUTR 53520
**NUTRITION FOR FITNESS (3)**
This course will explore the relationship between nutrition, health and exercise. Dietary change of improved health and fitness will be discussed as well as the impact of diet and exercise on body composition and weight. Prerequisites: nutrition and dietetics (NUTR) major.
NUTR 53521
FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION (2)
Adapting normal diet to accommodate prescribed food restriction. Provides introductory overview of dietary modifications commonly encountered by the elderly. Course not open to students in the Nutrition and Dietetics concentration. Prerequisites: NUTR 23511.

NUTR 53532
METHODS AND EXPERIENCES IN NUTRITION OUTREACH (3)
Students learn methods for development and evaluation techniques used for nutrition outreach programming, the role of community nutrition education in public health, and the impact of nutrition programming on disease prevention and management. Students also engage in service learning opportunities in community nutrition education. Prerequisite: special approval; and nutrition and dietetics (NUTR) major.

NUTR 61018
TECHNIQUES OF RESEARCH (3)
Introduction to the types of research and methods of data collection applied to a project of student’s choice.

NUTR 61091
SEMINAR IN NUTRITION (2-3)
Seminar dealing with topics in the field of nutrition and dietetics. Prerequisite: Graduate student standing.

NUTR 61098
RESEARCH (1-15)
Research for master’s-level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Repeat registration permitted. IP permissible.

NUTR 61198
MASTER’S PROJECT (2-6)
Completion and successful defense of a master’s project. Master’s project students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

NUTR 63199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

NUTR 63299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: HDF 61199.

NUTR 63519
ADVANCED STUDY OF MICRONUTRIENTS (3)
Intake, digestion and absorption of nutrients. Prerequisite: nutrition and dietetics (NUTR) major.

NUTR 63520
MACRONUTRIENT NUTRITION (3)
Metabolic utilization of macronutrients for body processes. Prerequisite: nutrition and dietetics (NUTR) major.

NUTR 63521
NUTRITION AND DISEASE: CLINICAL APPLICATIONS (3)
Recent trends and concepts in research and practice of therapeutic dietetics. Prerequisites: nutrition and dietetics (NUTR) major.

NUTR 63523
NUTRITION AND GERONTOLOGY (3)
Biochemistry of aging process and the interrelation of gerontology and nutrition. Prerequisite: NUTR 23511 or equivalent.

NUTR 63525
DIETETIC PRACTICE: COMMUNITY (1)
Discussion focusing on nutrition care in the community setting. Evaluation and interpretation of the scientific literature. Prerequisite: Special approval.

NUTR 63526
DIETETIC PRACTICE: MANAGEMENT (1)
Discussion focusing on the management of food and nutrition services. Evaluation and interpretation of the scientific literature. Prerequisite: Special approval.

NUTR 63527
DIETETIC PRACTICE: CLINICAL (1)
Discussion focusing on nutrition care in the acute practice setting. Evaluation and interpretation of the scientific literature. Prerequisite: Special approval.

NUTR 63591
NUTRITION SEMINAR (1-3)
Evaluation and interpretation of recent literature in an area of nutrition. Topic selected will be indicated in the Schedule of Classes each semester offered.

NUTR 63592
DIETETIC INTERNSHIP (1-4)
Supervised practice component of dietetic internship. S/U grading. Prerequisite: Special approval.

Rehabilitation Counseling and Training (RHAB)

RHAB 57712/77712
INTRODUCTION TO REHABILITATION (3)
Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.
RHAB 60093/70093
VARIABLE TITLE WORKSHOP IN REHABILITATION COUNSELING (1-4)
S/U grading; IP permissible. Prerequisite: Permission.

RHAB 60199
THESIS I (2-6)
Thesis students must register each semester until all degree requirements are met. S/U grading; IP permissible.

RHAB 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: RHAB 60199.

RHAB 67723/77723
MEDICAL INFORMATION FOR REHABILITATION COUNSELORS (3)
Study of the physical impact of disease or injury on individuals; available medical and restorative resources; skills in interpreting medical reports and rehabilitation planning. Special fee: $5 per semester.

RHAB 67725/77725
PSYCHOSOCIAL IMPACT OF DISABILITY (3)
Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization, stigma and adjustment to loss emphasized.

RHAB 67728/77728
ADJUSTMENT AND TRAINING GROUPS (3)
Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities. Prerequisite: graduate/doctoral standing and special approval.

RHAB 67729/77729
MEASUREMENT AND APPRAISAL IN REHABILITATION (3)

RHAB 67731/77731
INDIVIDUAL COUNSELING PROCEDURES IN REHABILITATION COUNSELING (3)
Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goal-setting and program development are fostered by lecture, video feedback and simulation.

RHAB 67732/77732
OCCUPATIONAL ASPECTS OF DISABILITY (3)
An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches. Prerequisite: CPSY 6/78182.

RHAB 67736/77736
INDIVIDUAL COUNSELING PRACTICUM IN REHABILITATION (2-4)
Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings. S/U grading; IP permissible. Prerequisite: RHAB 6/77731. Special fee: $7.50 per credit hour.

RHAB 67743/77743
PSYCHIATRIC REHABILITATION (3)
Review of psychiatric, alcohol and other drug-related disabilities and their treatment. Topics include psychosocial rehabilitation, case management and psychotropic medication.

RHAB 67744/77744
DRUG AND ALCOHOL REHABILITATION (3)
Review of substance abuse treatments, trends, modalities and community agencies; vocational implications of substance abuse; vocational assessment issues and job placement options.

RHAB 67776/77776
SEMINAR ON RESEARCH IN DISABILITIES (3)
Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Acquaints students with current research. Evaluation of design, statistical analysis and conclusions. IP permissible. Pre- or corequisite: EDPF 65510 and graduate/doctoral standing.

RHAB 67795/77795
SPECIAL TOPICS IN REHABILITATION (1-3)
Presentation of special interest to students. Offered irregularly. Topic will be announced in Schedule of Classes booklet. Prerequisite: Permission.

RHAB 67796/77796
INDIVIDUAL INVESTIGATION IN REHABILITATION COUNSELING (1-3)
Independent reading and/or research directed by a graduate faculty member. IP permissible.

RHAB 67798/77798
INDIVIDUAL RESEARCH IN REHABILITATION (1-9)
Research project on an aspect of rehabilitation under supervision of instructor. Arrangements with instructor must be made prior to registration. S/U grading; IP permissible. Prerequisite: Permission.
RHAB 77792
INTERNSHIP: REHABILITATION (6)
Assignment to rehabilitation agency for extensive and intensive applications for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and the university instructor. Credit hours to be fixed at registration time. Repeat registration permitted. Credit hour reduction for prior experience may be granted. S/U grading; IP permissible. Prerequisite: RHAB 677736.

RHAB 88129
ADVANCED ASSESSMENT IN REHABILITATION (3)
Psychological, neurological and vocational assessment; assessment of independent living skills; sensory and cognitive impairments; ethical standards in assessment; theory and issues in research.

RHAB 88182
PSYCHOLOGICAL ADJUSTMENT TO DISABILITY (3)
Psychosocial aspects of disability; models of adjustment; attitudinal barriers. Prerequisite: RHAB 67725 or equivalent.

RHAB 88188
HISTORY AND SYSTEMS OF REHABILITATION PSYCHOLOGY (3)
Historical development of rehabilitation programming and psychology; basic philosophy; theoretical systems and process; professional and scientific ethics; professionalization; professional issues and research. Prerequisite: RHAB 67712 or equivalent.

SEED 50093/70093
VARIABLE TITLE WORKSHOP IN SECONDARY EDUCATION (1-4)
Various topics designed to respond to issues, trends and specialized needs of elementary or secondary schools. S/U grading. Prerequisite: Graduate/doctoral standing and special approval.

SEED 52157
TEACHING WITH MICROCOMPUTERS: SECONDARY CLASSROOM (3)
In-depth study of instructional use of microcomputers in all subject areas of the secondary classroom. Use of BASIC and LOGO in developing and modifying instructional software. Students will develop and field test computing materials for their classroom.

SEED 52260
METHODS OF TEACHING FOREIGN LANGUAGES (3)
Introduction to modern techniques and methods of foreign language instruction at the elementary and secondary level. Prerequisites: Foreign language proficiency level for teaching in public schools.

SEED 52277
TEACHING SCIENCE IN THE SECONDARY SCHOOL (3)
Analysis of teaching materials, demonstrations and participation in science classes appropriate for graduate students seeking certification to teach science in the secondary school. Special fee: $15 per semester (subject to change).

SEED 53315
TEACHING LITERATURE IN THE SECONDARY SCHOOL (3)
Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.

SEED 53325
MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM (3)
Explores the pedagogies of reading and composing with a variety of print and non-print texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area.

SEED 53335
TEACHING LANGUAGE AND COMPOSITION (3)
Explores linguistic and rhetorical perspectives on the teaching of composition in secondary schools.

SEED 57248
TEACHING CRITICAL THINKING (2)
Techniques, procedures and materials for developing skills in application of analysis and thinking processes.

SEED 60199
THESIS I (2-6)
Thesis students must register each semester until all degree requirements are met. S/U grading; IP permissible.

SEED 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SEED 60199.
SEED 62145
PRINCIPLES OF SECONDARY TEACHING (3)
Principles of teaching in the secondary schools with emphasis on purposes, curriculum, roles of the teacher, instruction and the adolescent learner in secondary, middle, junior and senior high schools.

SEED 62146
INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT (3)
Enables students to demonstrate proficiency in the selection and application of general strategies for instruction, of appropriate instructional media and materials, and in the accommodation of individual needs and cultural diversity within the secondary instructional setting. Prerequisite: SEED 62145.

SEED 62191/72191
SEMINAR IN SECONDARY EDUCATION (1-3)
Study and experience of various theoretical, methodological and practical approaches to special problems Graduate/doctoral standing and special approval.

SEED 62192/82192*
ADVANCED PRACTICUM AND INTERNSHIP IN SECONDARY EDUCATION (1-10)
Prerequisites: special approval. S/U grading; IP permissible.

SEED 62195/82195
SPECIAL TOPICS IN SECONDARY EDUCATION (1-5)
Prerequisites: special approval.

SEED 62196/82196
INDEPENDENT INVESTIGATION IN SECONDARY EDUCATION (1-5)
Independent reading and/or research directed by a graduate faculty member. S/U grading; IP permissible. Prerequisite: Permission: Graduate/doctoral standing and special approval.

SEED 62198/82198
RESEARCH IN SECONDARY EDUCATION (2-15)
Students pursue an individualized research project under direction of instructor. S/U grading; IP permissible. Prerequisite: Graduate/doctoral standing and special approval.

SEED 67147
TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE (3)
Providing for motivation, discipline and instruction of adolescents within the culture of the secondary school.

SEED 67148
RESEARCH AND THE CLASSROOM TEACHER (3)
An examination of the teacher as both a researcher and as a consumer of research. Prerequisite: EDPF 60098.

SEED 67231/77231
TRENDS IN SECONDARY EDUCATION (3)

SEED 67232/77232
SECONDARY SCHOOL SOCIAL STUDIES (3)
General focus is on examining current instructional and curricular trends in teaching social studies. Emphasis is placed on strategies of teaching, developing student’s critical thinking skills, role of the computer, use of primary sources, teaching controversial issues and stimulating active citizenship. Prerequisite: Graduate/doctoral standing and special approval.

SEED 67234/77234
SCIENCE IN SECONDARY EDUCATION (3)
Analyzes methods, materials, course content and evaluation in secondary school science teaching. Includes lectures, discussions, field trips, demonstrations and laboratory practicum. Prerequisite: teaching certification in one of the sciences.

Speech Pathology and Audiology (SP&A)

SP&A 50104
SPEECH AND LANGUAGE REHABILITATION (2)
Orientation to types of speech, hearing and language disorders found in schools and how classroom teachers should handle them. Closed to speech pathology and audiology majors.

SP&A 53300
SPEECH OF THE HEARING-IMPAIRED (3)
Basic principles, variables and techniques for understanding, evaluating and improving expressive communication of hearing-impaired individuals. Prerequisite: Education of hearing-impaired majors: SP&A 34105, 43600; speech pathology and audiology majors: SP&A 33101, 34102.

SP&A 53402
AUDIOMETRY (3)
Measurement of human hearing by pure tone and speech audiometry; evaluation of middle ear function by immittance audiometry; screening techniques; pathologies of the conductive and sensorineural systems. Prerequisite: SP&A 33101 (grade of “C” or better) or equivalent.

SP&A 53404
AURAL REHABILITATION (3)
Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing-impaired individuals. Prerequisite: Education of hearing-impaired majors: SP&A 43600; speech pathology and audiology majors: SP&A 33101, 34102, 43402.
SP&A 53506
SPECIAL ISSUES IN AUDIOLOGY (3)
Readings and discussion of classic and current research on the evaluation of hearing disorders. Prerequisite: SP&A 4/53402.

SP&A 54096
INDEPENDENT STUDY: SPEECH PATHOLOGY AND AUDIOLOGY (2-6)
Readings and/or research on problems approved by chair of department in consultation with student's advisor and project director. IP permissible. Prerequisite: Permission.

SP&A 54110
SPEECH SCIENCE (3)
Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders. Prerequisite: SP&A 34102, 34106 or equivalents.

SP&A 54111
NEURAL PROCESSES IN SPEECH AND LANGUAGE (3)
Anatomy and physiology of the nervous system underlying speech and language. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function, and neural maturation and learning. Prerequisite: SP&A 34103 or permission of the instructor.

SP&A 54112
AGE-RELATED CHANGES IN COMMUNICATION (3)
Non-pathological age-related changes in speech, language and voice. Topics include: structural changes in orofacial, laryngeal and respiratory mechanisms; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.

SP&A 54130
COMMUNICATION DISORDERS OF THE AGING (2)
Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.

SP&A 54310
CLINICAL PROCEDURES (3)
An examination of evaluative and therapeutic procedures used with communicatively impaired children and adults. Prerequisite: SP&A 34103 or 34106.

SP&A 63104/73104
ADVANCED AUDIOMETRY (3)
Behavioral and physiological assessment of auditory and vestibular site-of-lesion.

SP&A 63105/73105
AMPLIFICATION (3)
Historical through contemporary views of the selection and fitting of amplification for the hearing-impaired. Consideration of legal, political and financial issues when choosing to dispense. Prerequisite: SP&A 4/53402, 4/53404 or permission.

SP&A 63107/73107
ANATOMY AND PHYSIOLOGY OF THE HEARING MECHANISM (3)
Anatomy and physiology of the peripheral and central hearing mechanism, including the embryological development of the ear; some emphasis on conductive and sensorineural pathologies. Prerequisite: SP&A 33101, 4/53402 or equivalent.

SP&A 63202/73202
AUDITORY ELECTROPHYSIOLOGY (3)
Foundations, instrumentation, protocols and interpretation of electrophysiological testing in audiology. Tests include brainstem response audiometry, otoacoustic, electroneurophysiography and interoperative monitoring.

SP&A 63205/73205
ADVANCED AMPLIFICATION (3)
Strategies for the selection, fitting and verification of advanced hearing aid technology. Prerequisite: SP&A 6/73105.

SP&A 63301/73301
PEDIATRIC AUDIOLOGY (3)
Audiological testing techniques in children including auditory development, philosophy in the selection of a test battery, and pathological conditions affecting the pediatric population.

SP&A 63502/73502
ADVANCED AURAL REHABILITATION (3)
Generic and specific models for implementing aural rehabilitation programs with children and adults.

SP&A 63691/73691
SEMINAR IN AUDIOLOGY (3)
Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation. Repeatable up to a maximum of 12 semester hours.

SP&A 64091/84091
SEMINAR IN COMMUNICATION DISORDERS (1-3)
Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required. Repeatable to 9 credits. S/U grading; IP permissible.

SP&A 64093/74093
WORKSHOP IN COMMUNICATION DISORDERS (1-3)
Variable topic workshop offered when need arises, either on- or off-campus to update training in a particular area of speech pathology. S/U grading.
SP&A 64096  
**INDIVIDUAL INVESTIGATION: SPEECH PATHOLOGY & AUDIOLOGY (1-6)**  
Independent study of topics to be selected in consultation with graduate faculty. May be repeated for maximum of 12 credit hours. Prerequisite: Special approval.

SP&A 64098  
**RESEARCH (1-15)**  
Research or individual investigation for master’s-level graduate students. Repeat registration permitted. Prerequisite: Special approval.

SP&A 64191/74191  
**SEMINAR: NEUROGENIC COMMUNICATION DISORDERS (1-3)**  
Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia. Repeatable up to 9 hours. S/U grading; IP permissible. Prerequisite: SP&A 64301 or permission.

SP&A 64199  
**THESIS I (2-6)**  
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. Prerequisite: Special approval.

SP&A 64291/74291  
**SEMINAR: CHILD LANGUAGE (1-3)**  
Topics are selected for class investigation from the areas of child language, development or disorders. Repeatable up to 9 hours. S/U grading; IP permissible. Prerequisite: Permission.

SP&A 64299  
**THESIS II (2)**  
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SP&A 64199 and special approval.

SP&A 64301/74301  
**APHASIA AND APRAXIA (3)**  
Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia and apraxia of speech in adults.

SP&A 64302/74302  
**LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD (3)**  
Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities. Prerequisite: SP&A 34107 or permission.

SP&A 64303/74303  
**DISORDERS OF ARTICULATION AND PHONOLOGY (3)**  
Diagnosis and remediation of children’s articulation and phonological disorders.

SP&A 64304/74304  
**COGNITIVE-COMMUNICATIVE DISORDERS (2)**  
Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to cognitive-communicative disorders in adults subsequent to right-brain damage, head trauma and dementia.

SP&A 64305/74305  
**FLUENCY DISORDERS (2)**  
Nature, theories and their derived therapeutic approaches to the treatment of fluency disorders.

SP&A 64306/74306  
**VOICE DISORDERS (2)**  
Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.

SP&A 64307/74307  
**DYSARTHRIA (1)**  
Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to dysarthria in adults.

SP&A 64308/74308  
**LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS (3)**  
Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders. Prerequisite: SP&A 34107 or permission.

SP&A 64309/74309  
**PDD SPECTRUM DISORDERS: THEORY AND DIAGNOSIS (3)**  
This course provides an examination of the medical, developmental, social, cognitive and communicative aspects of disorders on the pervasive developmental disorders (PDD) spectrum. Assessment and intervention models are explored as they relate to various theoretical models for understanding the presentation of PDD.

SP&A 64310/74310  
**PDD SPECTRUM DISORDERS: LIFE-SPAN INTERVENTIONS (3)**  
This course provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents and adults with PDD. Students learn skills necessary to evaluate and develop programs designed to meet the changing and long-term needs of individuals with PDD.

SP&A 64350/74350  
**AUGMENTATIVE COMMUNICATION AND LANGUAGE PROGRAMMING (3)**  
Methods of communication and language programming through augmentative and/or alternative modes with a primary focus on interdisciplinary teams and interdisciplinary decision-making and programming. Prerequisite: SP&A 6/74302 or 6/74308 or permission.
SP&A 64351/74351
CLINICAL MANAGEMENT IN SPEECH PATHOLOGY AND AUDIOLOGY (3)
Consideration of problems involved in administration of speech and hearing programs as these vary from hospitals, clinics, schools and universities.

SP&A 64352/74352
THE SUPERVISORY PROCESS IN SPEECH PATHOLOGY/AUDIOLOGY (3)
Seeks to emphasize development of process skills related to clinical supervision in speech and hearing. Prerequisite: C&I 67100.

SP&A 64353/74353
COMMUNICATION PROGRAMMING FOR CHILDREN WITH MULTIPLE DISABILITIES (3)
Nature and clinical management of the communication disorders of children having a variety of disabling conditions.

SP&A 64354/74354
MAXILLOFACIAL ANOMALIES (1-3)
Nature and rehabilitative procedures for individuals with congenital and acquired maxillofacial anomalies and resonance disorders.

SP&A 64355/74355
ENVIRONMENTAL LANGUAGE PROGRAMMING (3)
Consideration of environmental and cultural influences on language behavior and relevance of these factors in programming for language-impaired children. Prerequisite: SP&A 4/54108 and 6/74302 or permission.

SP&A 64356/74356
DYSPHAGIA (3)
Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults and children.

SP&A 64391/74391
SEMINAR: ARTICULATION AND PHONOLOGY (1-3)
Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders. Repeatable up to 9 hours. S/U grading; IP permissible.

SP&A 64491/74491
SEMINAR: ORGANIC SPEECH DISORDERS (1-3)
A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders. S/U grading; IP permissible.

SP&A 64492/74492
CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY (1-12)
Supervised clinical practice with patients who have speech, hearing or language problems. IP permissible. Prerequisite: Permission. Special fee: $25 per semester.

SP&A 64500/74500
LANGUAGE SCIENCE (3)
Detailed discussion of current theoretical issues in first language acquisition from the pre-linguistic period to the development of complex linguistic and communicative abilities. Prerequisite: SP&A 34104 or permission.

SP&A 64504/74504
EXPERIMENTAL PHONETICS (3)
Consideration of experimental bases of normal speech production and perception; survey of literature, with implications for speech and hearing disorders. Prerequisite: SP&A 4/54110 or permission.

SP&A 64506/74506
INSTRUMENTATION (3)
Basic principles of electricity and electronics and their clinical and research applications to speech and hearing.

SP&A 64525
PUBLIC SCHOOL TECHNIQUES IN COMMUNICATION DISORDERS: INQUIRY INTO PROFESSIONAL PRACTICE (3)
Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech-language pathologist or audiologist as disciplined investigator. Combination of themes including organizational procedures, therapy techniques, collaboration, ethics and research. Prerequisite: Permission. To be taken concurrently with SP&A 64528.

SP&A 64528

SP&A 64591/74591
SEMINAR: FLUENCY DISORDERS (1-3)
Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults. Repeatable up to 9 hours. S/U grading; IP permissible.

SP&A 64600/74600
RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3)
Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech-language pathology and audiology.
SP&A 64691/74691
SEMINAR: VOICE DISORDERS (1-3)
Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment. Repeatable up to 9 hours. S/U grading; IP permissible. Prerequisite: SP&A 6/74306 or its equivalent or permission.

SP&A 64791/74791
SEMINAR: SPEECH SCIENCE (1-3)
Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception. Repeatable up to 9 hours. S/U grading; IP permissible. Prerequisites: SP&A 4/54110, 6/74504 or permission.

SP&A 64891/74891
SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY (1-3)
Nature, etiologies and correlates of speech/language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication, language, learning, and literacy. S/U grading; IP permissible. Prerequisites: SP&A 64500, 64302 or instructor permission.

SP&A 70691
SEMINAR IN AUDIOLOGY (2)
Selected current topics in audiology with emphasis on review of current literature. Prerequisite: Admission to the Au.D. program or permission of the instructor; doctoral standing.

SP&A 70692
INTERNSHIP IN AUDIOLOGY I (2)
Supervised practicum in audiology requiring the independent performance of basic audiologic procedures, including hearing aid management. Prerequisite: SP&A 70744 and permission; doctoral standing. Special course fee $25.00 per semester (subject to change).

SP&A 70701
BASIC AND APPLIED PHYSICAL ACOUSTICS FOR AUDIOLOGY (4)
Study of physical acoustics, basic electricity and electronics, as well as principles, methodology, calibration and maintenance of audiologic equipment. Prerequisite: Admission to the Au.D. program or permission of instructor; doctoral standing.

SP&A 70702
ANATOMY AND PHYSIOLOGY OF PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS (3)
A study of the anatomy, biophysics, and physiology of the auditory and vestibular systems. Prerequisite: Admission to the Au.D. program or permission of the instructor; doctoral standing.

SP&A 70703
ACOUSTIC PHONETICS (3)
Study of the acoustics, measurement, and nomenclature of speech sounds and theoretical and acoustics bases of speech perception. (Includes 1 hour lab.) Prerequisite: Admission to the Au.D. program or permission of the instructor; doctoral standing.

SP&A 70704
CRITICAL ANALYSIS OF RESEARCH IN AUDIOLOGY (2)
General introduction to the research process with an emphasis on acquiring a reading knowledge of research and an ability to evaluate research. Prerequisite: Admission to the Au.D. program or permission of the instructor; doctoral standing.

SP&A 70705
AUDITORY DISORDERS (2)
Study of conditions/diseases that can affect the auditory system. Prerequisite: Admission to the Au.D. program or permission of the instructor; doctoral standing.

SP&A 70706
ANATOMY AND PHYSIOLOGY UNDERLYING NEUROOTOLOGY (4)
An in-depth study of the anatomy and physiology of the central auditory and vestibular nervous system. (Includes 1 hour lab.) Prerequisite: SP&A 70702; doctoral standing.

SP&A 70707
PSYCHOACOUSTICS (3)
Study of the principles, procedures, and research of psychoacoustics; the relationships between the physical dimensions of auditory stimuli and the resultant perceptual experience with normal and impaired hearing. Prerequisite: Admission to the Au.D. program or permission; doctoral standing.

SP&A 70708
CRITICAL ANALYSIS OF RESEARCH II (2)
Development of a reading knowledge of research and the ability to evaluate the quality of research studies. Prerequisite: SP&A 70704; doctoral standing.

SP&A 70709
AUDIOLOGIC ASSESSMENT (3)
Theoretical basis for tests underlying basic audiologic assessments. Prerequisite: SP&A 70705; doctoral standing.
SP&A 70710
INDUSTRIAL AND COMMUNITY NOISE (3)
Theoretical principles of noise measurement; etiology of noise-induced hearing loss and acoustic trauma; industrial hearing conservation programs; Occupational Safety and Health Act; community and recreational noise evaluation and management. Prerequisite: Admission to the Au.D. program or permission; doctoral standing.

SP&A 70711
SPEECH-LANGUAGE PATHOLOGY FOR THE AUDIOLOGIST (4)
Examination of normal and abnormal aspects of speech and language including their impact on auditory function and testing. Prerequisite: Admission to the Au.D. program or permission; doctoral standing.

SP&A 70712
DIAGNOSIS OF AUDITORY DISORDERS (3)
Underlying theory and principles of administration and interpretation of site-of-lesion tests. Prerequisite: SP&A 70709; doctoral standing.

SP&A 70713
HEARING AID TECHNOLOGY (4)
Study of amplification systems for the hearing impaired. Prerequisite: SP&A 70701; doctoral standing.

SP&A 70714
GERONTOLOGICAL ISSUES IN AUDIOLOGY (3)
Physiological, psychological and sociological theories of aging with focus on the etiology, symptomatology, assessment and rehabilitation of older adults with hearing impairments. Prerequisite: Admission to the Au.D. program or permission; doctoral standing.

SP&A 70715
CENTRAL AUDITORY PROCESSING: EVALUATION AND MANAGEMENT (3)
Study of audiologic evaluation and habilitation/rehabilitation procedures for people who have central auditory disabilities. Prerequisite: SP&A 70705 and 70706; doctoral standing.

SP&A 70716
ADULT HEARING-AID FITTING AND SELECTION (3)
Examination of the theory and practice of fitting hearing aids. Emphasis on special clinical procedures, research needs and evolving technology in hearing instruments. Prerequisite: SP&A 70713; doctoral standing.

SP&A 70717
PEDIATRIC AUDIOLOGY (3)
Study of audiologic diagnostic and auditory habilitative protocols for the birth to age three population. Both assessment and management strategies will be emphasized. Prerequisite: SP&A 70709; doctoral standing.

SP&A 70718
COCHLEAR IMPLANTS (2)
Study of cochlear implants in children and adults including equipment, candidacy, mapping and overview of (re)habilitation. Prerequisite: Admission to the Au.D. program or permission of instructor; doctoral standing.

SP&A 70719
COUNSELING IN AUDIOLOGY (3)
Focus on interviewing, counseling and interacting with individuals with hearing impairments, their families and significant others. Prerequisite: Admission to the Au.D. program or permission of instructor; doctoral standing.

SP&A 70720
PEDIATRIC AMPLIFICATION (3)
The focus of study is on amplification systems and fitting techniques for the pediatric population. Prerequisite: SP&A 70713, 70716 and 70717; doctoral standing.

SP&A 70721
EVALUATION AND MANAGEMENT OF BALANCE DISORDERS (3)
Study of the balance mechanism; differential diagnostic assessment of balance disorders including electronystagmography, posturography and rotational testing; rehabilitation of the balance-disordered patient. (1 hour lab included.) Prerequisite: Admission to the Au.D. program or permission of instructor; doctoral standing.

SP&A 70722
AUDIOLOGIC MANAGEMENT OF THE SCHOOL-AGE CHILD (3)
Focus on educational audiology. Features delivery of audiologic services designed to access the school environment for children ages 4-21. Prerequisite: SP&A 70717; doctoral standing.

SP&A 70723
AUDIOLOGIC REHABILITATION OF ADULTS (3)
Study of current methodologies employed in the audiologic rehabilitation of adults with hearing impairments. Implementation of remedial strategies is emphasized. Prerequisite: SP&A 70716 or permission of instructor; doctoral standing.

SP&A 70724
HISTORY OF AUDIOLOGY (1)
An examination of the history of deafness/hearing impairment and the profession of audiology. Prerequisite: Admission to the Au.D. program or permission of instructor; doctoral standing.

SP&A 70725
MEDICAL MANAGEMENT OF AUDITORY DISORDERS (2)
A study of the multidisciplinary approach to medical/surgical management of patients with auditory and vestibular disorders. Prerequisite: SP&A 70712 or permission; doctoral standing.
SP&A 70726  
**ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY (3)**  
Study of evoked responses used in diagnostic audiology, including ABR, MLR, EchochG, ENOG, ALR, P300, VER and SSER. Prerequisite: SP&A 70706 or permission; doctoral standing.

SP&A 70727  
**CULTURAL ISSUES IN DEAFNESS (2)**  
An introduction to deaf culture and the audiologist's roles and responsibilities in planning treatment with a member of the deaf community. Prerequisite: Admission to the Au.D. program or permission; doctoral standing.

SP&A 70730  
**PRACTICE MANAGEMENT IN AUDIOLOGY (4)**  
Study of issues that impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record-keeping and professional liability. Prerequisite: Admission to the Au.D. program or permission; doctoral standing.

SP&A 70741  
**DIRECTED OBSERVATION IN AUDIOLOGY I (1)**  
Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required. Prerequisite: Admission to the Au.D. program or permission of instructor; doctoral standing.

SP&A 70742  
**DIRECTED OBSERVATION IN AUDIOLOGY II (1)**  
Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required. Prerequisite: Admission to the Au.D. program, Doctoral standing, and special approval.

SP&A 70743  
**CLERKSHIP I (1)**  
Clinical practicum in audiology during which students perform discrete tasks under supervision. Corequisite: SP&A 70709 and permission of instructor; doctoral standing. Special course fee: $25.00 per credit hour (subject to change).

SP&A 70744  
**CLERKSHIP II (1)**  
Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision. Prerequisite: SP&A 70743 and permission; doctoral standing. Special course fee: $25.00 per credit hour (subject to change).

SP&A 70747  
**GRADUATE AUDIOLOGIST I (3)**  
Supervised clinical practicum in audiology that encompasses audiologic assessments and audiologic habilitation. Prerequisite: SP&A 70792 or permission; doctoral standing. Special course fee: $25.00 per semester (subject to change).

SP&A 70748  
**GRADUATE AUDIOLOGIST II (3)**  
Supervised clinical practicum in audiology requiring the independent performance of audiologic assessment procedures, audiologic rehabilitation, and vestibular assessment and rehabilitation. Prerequisite: SP&A 70747, Doctoral standing, and special approval. Special course fee: $25.00 per semester (subject to change).

SP&A 70749  
**GRADUATE AUDIOLOGIST III (8)**  
Full-time clinical practicum in audiology at an off-campus site. SPA 70748 and passing score of 600 or higher on the PRAXIS examination and doctoral standing and special approval. Corequisite: SPA 70791.

SP&A 70750  
**GRADUATE AUDIOLOGIST IV (8)**  
Full-time clinical practicum in audiology at an off-campus site. Students taking this course must have successfully completed the Praxis examination. Prerequisite: SP&A 70749, and Doctoral standing. Corequisite: SP&A 70791.

SP&A 70791  
**CLINICAL SEMINAR IN AUDIOLOGY (1)**  
In-depth consideration of topics/issues in the practice of audiology with emphasis upon issues related to clinical rotation. Repeat registration permitted. Corequisite: SP&A 70750 or 70751, or permission of instructor; doctoral standing.

SP&A 70798  
**RESEARCH PROJECT IN AUDIOLOGY (3)**  
Completion of a doctoral research project including data collection, analysis, write-up and oral presentation. Prerequisite: Admission to the Au.D. program or permission; doctoral standing.

SP&A 84096  
**INDIVIDUAL INVESTIGATION-SPEECH PATHOLOGY & AUDIOLOGY (1-6)**  
Independent study of topics to be selected in consultation with graduate faculty. May be repeated for maximum of 12 credit hours. IP permissible.
SP&A 84098
RESEARCH (1-15)
Research opportunities for doctoral students who have not yet passed their candidacy examination. Repeated registration permitted. Prerequisite: Doctoral standing, and special approval.

SP&A 84199
DISSERTATION I (15)
Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy, and special approval.

SP&A 84299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SP&A 84199, Doctoral standing, and special approval.

**Special Education (SPED)**

SPED 50093/70093
VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION (1-5)
Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include faculty members of Kent State University and other institutions. Offered irregularly. S/U grading.

SPED 53010
FAMILY AND PROFESSIONAL COLLABORATION (3)
This course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary, interagency models in special education. 20 clinical and 10 field hours. Prerequisite: SPED 63200.

SPED 53020
ASSESSMENT IN SPECIAL EDUCATION (3)
Use/interpretation normed, criterion-referenced and informal curriculum-based assessments for students with mild/moderate disabilities. Standards-based alternative assessments for student with intensive needs. 10 field and 20 clinical hours. Special fee: $20 per credit hour (subject to change).

SPED 53030
APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES (3)
Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.

SPED 53031
APPLIED BEHAVIOR ANALYSIS II: APPLICATION (3)
Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 53030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours. Prerequisite: SPED 53030.

SPED 53040
LANGUAGE AND READING IN SPECIAL EDUCATION (3)
Instructional approaches to teaching reading/language arts to students with disabilities. Emphasis on adapting instructional techniques, materials, assessments to meet the needs of learners with disabilities. Contains 15 clinical and 15 field hours.

SPED 53050
CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS (3)
Definitions, causes, characteristics; social, educational implications of learning, developmental and emotional/behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions; current issues. 10 clinical/10 field hours.

SPED 53051
CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS (3)
Overview of specific facets and causes of severe disabilities, physical/psychological aspects, family/societal responses, political trends, etiology and medical implications, educational and vocational programming, assessment and treatment planning, assistive technology. 10 clinical/10 field hours.

SPED 53060
CURRICULUM METHODS IN SPECIAL EDUCATION (3)
Curriculum development, programming, delivery for students with mild to moderate disabilities. Introduction to transition planning. Emphasis on functional curriculum and adapting instructional techniques, materials, assessment to meet needs. 33 field clinical hours.
SPED 53062
CURRICULUM METHODS MILD/MODERATE INTERVENTION (3)
Delivery and adaptation of evidence-based practices for students with mild/moderate disabilities. Emphasis on achievement in general curriculum. Training to mentor other professionals.

SPED 53063
CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION (3)
Meeting academic socialization, health, motor skills, communication needs in inclusive setting. Working with paraprofessionals to provide community-based instruction, assessment, observation, record-keeping, IEPs and ITPs, lesson plans. Prerequisite: SPED 53060.

SPED 53070
PLANNING AND PROGRAMMING FOR TRANSITIONS (3)
This course addresses life-span community participation and the planning, support development and services available to accomplish it. Introduction to community agencies and adult services. 10 clinical/15 field hours.

SPED 53080
ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES (3)
Examines the application of high- and low-technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students. 20 clinical hours. Prerequisite: SPED 53050 or 53051.

SPED 53092
DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE (1-3)
Week-long practicum at a residential school for the deaf; 24-hour interaction with deaf students and adults. Students stay on campus. Conduct, interaction, sign language skills, maturity, responsibility and performance are evaluated by staff at the school. Prerequisite: ASL or SPED 29202 with a minimum grade of B- (2.7); and SPED 53309 with a minimum grade of B- (2.7).

SPED 53100
SURVEY OF INTERPRETING PROFESSION (3)
Issues and concerns facing educational interpreters: legal mandates and constraints, ethical guidelines and their application to educational environments, roles/responsibilities including sign interpreting/transliterating, team membership, classroom and building roles, and negotiating the educational environment.

SPED 53101
DEAF CULTURE AND COMMUNITY (3)
Exploration of historical events and figures from deaf community perspective. Life experiences of “typical” deaf individuals as minority culture representatives interacting with majority culture institutions and processes as depicted in narrative story-telling and folklore.

SPED 53102
INTERPRETING PROCESSES DEAF/HARD OF HEARING I (3)
Beginning-level interpreting course addressing voice-to-sign and sign-to-voice processes using simultaneous and consecutive strategies: ASL, SEE, Signed English, Total Communication signing. Preschool, primary, elementary students developmentally delayed through gifted academic levels. Requires 20 hours of field experience.

SPED 53103
INTERPRETING PROCESSES DEAF/HARD OF HEARING II (3)

SPED 53104
INTERPRETING PROCESS III (3)

SPED 53105
SIGNED ENGLISH AND OTHER SYSTEMS (3)
Receptive and expressive use of English-based sign language systems; ASL root words, prefix/suffix use, simultaneous speaking and signing. Explanation and demonstration of cued speech; exploration of the research related to individuals who use cued speech. Prerequisite: SPED 4/53100; ASL/SPED 29202.

SPED 53106
CLASSROOM-SETTING INTERPRETING (3)
Issues and challenges of classroom-based educational interpreting. Mainstreaming, inclusion, resource room, and self-contained academic and nonacademic class preparation and interpreting environments. Off-campus practicum four hours each week to observe and assist with classroom interpreting. Prerequisite: ASL 19201 or SPED 19201 and SPED 4/53100.

SPED 53107
NONCLASSROOM-SETTING INTERPRETING (3)
Issues and challenges of nonclassroom-based educational interpreting. Student participation with IEP-designated related services; professional consultations; assessment interpreting; miscellaneous interpreting. Off-campus practicum four hours per week to observe and assist with classroom interpreting. Prerequisite: SPED 29201 and 4/53100.
SPED 53108
AMERICAN SIGN LANGUAGE LINGUISTICS AND USAGE (3)
Analytical study of American Sign Language syntactic, semantic, morphology and pragmatics; comparison of spoken languages and ASL using the Stokoe system, impact of educational-setting characteristics on linguistic processes. Prerequisite: SPED 29202 and 4/53100.

SPED 53109
CUED SPEECH AND ORAL INTERPRETING (3)
Introduction to Cued Speech using hand shapes and hand positions to differentiate between homophonous sounds; theoretical background and development history; oral interpreting homophonous sounds, synonym selection processes; positioning, lighting, and related concerns and issues. Prerequisite: SPED 29202.

SPED 53110
DISCOURSE ANALYSIS FOR INTERPRETERS (3)
Spoken English and ASL usage is studied as they appear in conversational situational and interpreted contexts. Analyze of discourse and self analysis of classroom discourse will be targeted. Prerequisite: SPED 43100, 43102, 43106, 43107. Corequisite: SPED 43101.

SPED 53111
THE PROFESSIONAL INTERPRETER (3)
This course will cover current trends in the field regarding situational and ethical issues. Demand/Control Schema and Ethics will be the focus in order to prepare students for the national certification test. SPED 4/53100, 4/53106.

SPED 53192
PRACTICUM: INTERPRETING PROCESS (1-3)
Field-based practicum experience provides preservice educational interpreters with opportunity to participate with currently practicing master educational interpreters. Students placed in education-based settings. University supervisor and teacher-mentor observe and assess student skill. Prerequisite: SPED 29202.

SPED 53309
INTRODUCTION TO DEAF STUDIES (3)
Introductory survey course provides informational base and understanding of experiences of deaf people as a cultural minority. Includes etiology and prevalence data, service delivery systems, diagnosis and assessment of issues and communication systems. 20 field hours.
SPED 53317
FAMILY-FOCUSED APPROACHES TO COCHLEAR IMPLANT USE (3)
Examines effective support and utilization of cochlear implants from a family perspective. Includes the initial decision making and issues, through the child's and family's adjustment to the activation, use and maintenance of the device. Also focuses on the need long-term and sometimes unexpected outcomes of device usage and ultimately, adolescent and young-adult issues. Prerequisites: SPED 29202 or ASL 29202; and SPED 53310; and SPED 53010 or 63952; and SPA 43600.

SPED 53324
CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS (3)
Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing. Prerequisite: SPED 43313 with a minimum grade of B- (2.7); CI 57501 and 57502. Corequisite: 2 credit hours of SPED 63392.

SPED 53529
NATURE AND NEEDS OF GIFTED CHILDREN (3)
Personal characteristics, abilities and potentialities of gifted children through review of related research. Evaluation of research findings and implications for psychoeducational development.

SPED 53530
INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN (3)
Discovery and guidance of mentally superior children. Provision for school attention and accommodations. Case studies of gifted children. Selecting appropriate instructional strategies. Prerequisite: SPED 53529 or permission.

SPED 53534
SOCIAL/EMOTIONAL COMPONENTS OF GIFTEDNESS (3)
Affective growth of gifted persons is reviewed through research literature and analysis of case studies. Reviews adjustment problems of gifted youth and adults.

SPED 54161
TRANSITIONAL PROGRAMMING AND SERVICES FOR DISABLED YOUTH (3)
Transition from school to work and community life; vocational exploration/assessment and preparation/placement methods and techniques for secondary and postsecondary disabled youth. Prerequisite: SPED 53200.

SPED 60199
THESIS I (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

SPED 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SPED 60199.

SPED 63030/73030
PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION (3)
Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.

SPED 63031/73031
PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS (3)
Cross listed with SPSY 6/77931 Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized. Prerequisites: SPED 53030.

SPED 63032/73032
ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR (3)
Cross listed with SPSY 6/77932. Use and interpretation of functional behavioral assessments in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hours. Prerequisite: SPED 53030.

SPED 63092
FIELD EXPERIENCE IN SPECIAL EDUCATION (1-9)
S/U grading; IP permissible. Prerequisite: Permission.
SPED 63101
ADMINISTRATION AND SUPERVISION IN SPECIAL EDUCATION (3)
Administration of educational programs for exceptional children; improvement of teacher competencies; function of special education supervisors; and special education operations at local, state and national levels.

SPED 63200
INTRODUCTION TO EXCEPTIONALITIES (3)
Introduction to exceptionalities of student development. Focus on foundations/theories associated with characteristics and accommodations for human exceptionalities. Collaborative/multidiscipline educational service design. 15 clinical/field hours.

SPED 63201
ISSUES IN SPECIAL EDUCATION (3)
Surveys current research, literature and policy issues that affect identification, assessment and service provision to students with exceptionalities.

SPED 63202
INSTRUCTING STUDENTS WITH SPECIAL NEEDS IN INCLUSIVE SETTINGS (3)
Students will develop knowledge of models of grouping and instructing students with special needs in inclusive settings, with a focus on curricular adaptations and methods of consulting, teaming and collaborating. Prerequisite: SPED 23000, 63200 or 63201. Special fee: $25 per semester.

SPED 63300
RESEARCH APPLICATIONS IN SPECIAL EDUCATION (3)
Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum and assimilating knowledge through applied projects. IP permissible. Prerequisite: EDPF 65510 or 65511.

SPED 63301
SINGLE SUBJECT RESEARCH METHODS (3)
Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relation to other research designs. 20 field hours.

SPED 63392
ADVANCED PRACTICUM IN SPECIAL EDUCATION (2-8)
Recreational, therapeutic and academic experience with exceptional children in camp, school or residential facility. Prerequisite: special permission.

SPED 63531/73531
CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS (3)
Focus on design/development of curriculum for gifted learners; adapt/modify existing curricula; design curricular materials through predetermined process assessment of suitability of materials.

SPED 63532/73532
GIFTED PROGRAM DESIGN AND ADMINISTRATION (3)
Fundamentals of designing gifted programs are reviewed. Topics include student identification, in-service, advocacy, program evaluation, compliance with state standards and teacher preparation. Prerequisite: SPED 53529 and 53530.

SPED 63533/73533
GIFTED SUBPOPULATIONS (3)
The characteristics and needs of intellectually gifted individuals who often are not high academic achievers are studied with consideration of the implications for school practices.

SPED 63535/73535
INTELLIGENCE, ASSESSMENT AND EVALUATION IN GIFTED EDUCATION (3)
Provides examination of historical/contemporary theories of intelligence and influences on definitions/beliefs about giftedness. Alternative models of assessment discussed and implemented. Prerequisite: Permission.

SPED 63950/73950
CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES (3)
Cross-listed with ECED 60150. Overview and comparison of early childhood service approaches, including history and issues in delivering services, developmentally appropriate practice, environmental arrangement and how to modify curriculum. Prerequisite: Permission.

SPED 63952/73952
FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD (3)
Cross-listed with ECED 60159. Examines issues facing families and professionals serving young children who are at risk, disabled and typically developing. Prerequisite: Permission for SPED 73952.

SPED 63953/73953
PRACTICAL APPLICATIONS: BIRTH TO FIVE (3)
Cross-listed with ECED 60154. Practical application of recommended practices for young children birth to five. Observation of young children in natural environments. Plan and evaluate intervention with families and professionals. 60 field hours. Prerequisite: Permission.
SPED 63954/73954
PRACTICAL APPLICATIONS: FIVE TO EIGHT (3)
Cross-listed with ECED 60162. Application of recommended practices for children five to eight. Observation of children in natural environment; plan/evaluate intervention collaboratively. 60 field hours. Prerequisite: Permission.

SPED 63955/73955
TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN (3)
Cross-listed with ECED 60160. Overview of typical/atypical development pathways age three to grade three, including theories of behavior, implications of atypical development on play/learning, early childhood development within ecological framework. Prerequisite: Permission.

SPED 63956/73956
FOUNDATIONS IN EARLY CHILDHOOD SERVICES (3)
Cross-listed with ECED 60156. Overview of issues facing young children within context of family/society, including history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment, intervention and evaluation.

SPED 63957/73957
ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES (3)
Cross-listed with ECED 60157. Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress. Prerequisite: Permission. Special fee: $25 per semester.

SPED 63958/73958
EARLY CHILDHOOD INTERVENTION METHODS (3)
Specific strategies for working with children birth to eight with intensive needs (e.g., cerebral palsy, spina bifida, autism). 30 clinical hours will provide students with the opportunity to practice newly acquired intervention strategies, knowledge and skills. Prerequisite: Permission.

SPED 63959/73959
MEDICAL ASPECTS OF EARLY CHILDHOOD (3)
Examination of different risk factors and disabling conditions found in early childhood. Description of medical issues facing young children and their families. Prerequisite: Permission.

SPED 63991/73991
SEMINAR IN SPECIAL EDUCATION (1-3)
Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education. Prerequisite: Permission.

SPED 63992
ADVANCED PRACTICUM IN SPECIAL EDUCATION (2-8)
Recreational, therapeutic and academic experience with exceptional children in camp, school or residential facility. Prerequisite: special approval. S/U grading; IP permissible. Prerequisite: Special approval.

SPED 63995/73995
SPECIAL TOPICS IN SPED (1-3)
Specialized offerings in response to emerging or selected program needs.

SPED 63996/73996
INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION (1-10)
S/U grading; IP permissible. Prerequisite: Permission.

SPED 64092
FIELD EXPERIENCE FOR MILD/MODERATE INTERVENTION SPECIALIST (2-4)
Field assignments in conjunction with mild/moderate coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards. Prerequisite: SPED 53020, 53060, 63992. Corequisite SPED 53062, 53040.

SPED 64192
FIELD EXPERIENCE FOR MODERATE/INTENSIVE INTERVENTION SPECIALIST (2-4)
Field assignments in conjunction with moderate/intensive coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards. Prerequisite: SPED 53020, 53061, 63992. Corequisite SPED 53063; Co-requisite SPED 53040.

SPED 70094
COLLEGE TEACHING (3)
Cross-listed with SPSY 70094. Discusses important aspects of teaching in higher education, including such topics as the students’ philosophy of teaching, principles of adult learning, instructional strategies, student assessment and others.

SPED 80090
DOCTORAL RESIDENCY SEMINAR (3)
Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues/topics. Ordinarily, SPED 80090 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence. Prerequisite: Doctoral standing, and special approval.
SPED 80199
DISSERTATION I (15)
Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

SPED 80299
DISSERTATION II (1 OR 15)
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SPED 80199.

SPED 83301
SINGLE SUBJECT RESEARCH METHODS (3)
Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relations to other research designs. 20 field hours. Prerequisite: doctoral standing.

SPED 83952
THE LAW AND SPECIAL EDUCATION (3)
Selected principles of constitutional, statutory, case and common law affecting handicapped and special education students, teachers and administrators are studied.

SPED 83956
BIOMEDICAL ASPECTS OF SPECIAL EDUCATION (3)
Considers neurological, genetic and biochemical factors associated with exceptional children and youth. Discussions focus on development and related issues in serving the exceptional person.

SPED 83991
SEMINAR IN SPECIAL EDUCATION (1-3)
Variable topics. Prerequisite: Permission.

SPED 83992
INTERNSHIP IN SPECIAL EDUCATION (2-8)
S/U grading; IP permissible. Prerequisite: Permission.

SPED 83998
RESEARCH IN SPECIAL EDUCATION (1-10)

SPS 60094/70094
COLLEGE TEACHING (3)
Discusses major aspects of teaching in higher education, including such topics as the students' philosophy of teaching, principles of adult learning, instructional strategies, student assessment and others.

SPS 60162/70162
DEVELOPMENTAL ASSESSMENT (3)
Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool, kindergarten and primary-grade children. 24 clinical/field hours. Prerequisite: Graduate/Doctoral standing, and special approval.

SPS 60165/70165
PRINCIPLES OF SOCIAL LEARNING (3)
Cross-listed with ECED 6/70165. The main focus is to provide students with an understanding of behavioral and social-learning principles within the context of the school psychologist's professional practice. 19 clinical/field hours.

SPS 60166/70166
OBSERVATIONAL ANALYSIS OF CLASSROOM INTERACTIONS (3)
Cross-listed with ECED 6/70166. A practicum in construction and application of pupil observational assessment and procedures. Developmental and social psychology research is used to develop assessment items. 24 clinical/field hours.

SPS 60191/70191
SEMINAR: SCHOOL PSYCHOLOGY (1-4)
Seminar in school psychology. Varied topics. Prerequisite: Permission.

SPS 67692/77692*
PRACTICUM I IN SCHOOL PSYCHOLOGY (3)
Provides students with supervised experience in applied settings to practice introductory skills in assessment, intervention and professional development. S/U grading; IP permissible. 25 clinical field hours.

SPS 67792/77792*
PRACTICUM II IN SCHOOL PSYCHOLOGY (3)
Provides students with supervised experience in educational settings to practice applied skills in assessment, intervention, consultation procedures and professional development. Two consecutive semesters in same academic year required. S/U grading; IP permissible. 75 clinical field hours. Prerequisites: SPS 67692.
SPSY 67892/77892*
ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY
Provides students with advanced supervised experience in educational or mental health settings to practice applied skills in assessment, prevention, intervention, consultation procedures, supervision, program administration and evaluation, and professional development. 60 clock hours per credit hour. Students register for a minimum of 6 hours (360 clock hours) across successive semesters. Prerequisite: SPSY 67792 and special approval. S/U grading; IP permissible.

SPSY 67912/77912
ROLE OF THE SCHOOL PSYCHOLOGIST (3)
Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. 5 clinical/field hours. IP permissible.

SPSY 67914/77914*
FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS (2)
Involves minimum of 120 clock hours of observation in public school. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. S/U grading; IP permissible. Prerequisite: Graduate/Doctoral standing.

SPSY 67918/77918
PROBLEMS IN RESEARCH INTERPRETATION (3)
An intensive study of problems associated with typical research findings and publications. Issues include research, language, hypothesis testing, cost analysis, etc., as related to decision making.

SPSY 67920/77920
DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS (3)
Provides overview of diagnosis and treatment of child/adolescent behavior disorders (AD/HD, conduct problems), emotional and social disorders (depression, anxiety, phobias), and developmental/acquired disorders (autism, mental retardation).

SPSY 67925/77925
INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS (1)
Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.

SPSY 67928/77928
GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS (3)
Cross-listed with RHAB. Review of group counseling techniques for Rehabilitation Counselors and School Psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined, including techniques for persons with disabilities.

SPSY 67929/77929
INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS (3)
Cross-listed with RHAB. Review of individual counseling techniques applicable to Rehabilitation Counselors and School Psychologists. Skills developed in communication, interviewing, problem identification, goal-setting and program development are fostered by lecture, video feedback and simulation.

SPSY 67931/77931
PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS (3)
Cross listed with SPED 6/73031. Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based.

SPSY 67932/77932
ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR (3)
Use and interpretation of functional behavioral assessments in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs. Prerequisite: SPED 53030 and SPSY 67920/77920.

SPSY 67936/77936*
PRACTICUM IN SCHOOL PSYCHOLOGY (3)
Provides students with supervised experience in educational settings to practice applied skills in assessment, prevention, consultation procedure and in professional development. Two consecutive semesters in same academic year required. 75 clinical/field hours. S/U grading; IP permissible. Prerequisite: Permission.

SPSY 67951/77951
COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS (3)
Training and experience in administering, coreg and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours. Prerequisite: Graduate/Doctoral standing. Special fee: $20 per credit hour.
SPSY 67955/77955  
**INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS (3)**
Training in administration, scoring and interpretation of academic achievement, adaptive behavior and social emotional/behavior scales and writing psychoeducational and evaluation team reports. 25 clinical/field hours. Special fee: $20 per credit hour.

SPSY 67960/77960  
**INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS (3)**
Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.

SPSY 67965/77965  
**INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS (3)**
Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school-based referrals within a problem-solving model. Requires 25 clinical/field hours. Prerequisite: SPSY 67955.

SPSY 67970/77970  
**LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY (3)**
Legal, ethical and professional issues and standards relevant for school psychologists will be explored. Considerations of law and policy, ethical standards and codes of professional practice will be addressed.

SPSY 67971/77971  
**ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY (3)**
This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship. Repeatable up to 6 hours. Prerequisite: special approval. S/U and IP grading. Prerequisite: Permission.

SPSY 67972/77972*  
**SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS (3)**
Training in administration, scoring and interpretation of techniques for assessment of social emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours.

SPSY 67973/77973*  
**CONSULTATION IN THE HELPING PROFESSIONS (3)**
Students learn consultation skills and processes utilizing a number of professional models such as Caplan’s model, behavior and problem-solving models and crisis consultation. 20 clinical/field hours.

SPSY 67974/77974  
**SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY (3)**
Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco-behavioral problem-solving model. Requires 25 clinical field hours. Prerequisite: SPSY 67972.

SPSY 67995/77995  
**SPECIAL TOPICS IN SCHOOL PSYCHOLOGY (1-3)**
Presentations of special interest to students. Offered irregularly. Topics will be announced in Schedule of Classes booklet. Prerequisite: Permission.

SPSY 67996/77996  
**INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY (1-3)**
Independent reading and/or research directed by a graduate faculty member. S/U grading; IP permissible.

SPSY 77980  
**INTEGRATING EXPERIENCE IN SCHOOL PSYCHOLOGY (2)**
This course requires student to research, study and develop expertise in a particular facet of school psychology and to present these findings at the conclusion of his/her training program. 38 clinical/field hours. Restricted to students in school psychology Ed.S. program. S/U grading.

SPSY 77992*  
**SPECIALIST INTERNSHIP IN SCHOOL PSYCHOLOGY (1-6)**
One academic year of field experience in schools under supervision of university supervisor and certified school psychologist who is employed by school system. 100 clinical/field hours. Restricted to Ed.S. students in school psychology program. S/U grading; IP permissible. Prerequisite: Permission.

SPSY 80090  
**DOCTORAL RESIDENCY SEMINAR (3)**
Exploration of philosophical, definitional and attitudinal issues in the helping professions. Involvement in current activities of professional life through collaborative work with professors other students and practitioners.

SPSY 80192*  
**CLINICAL SUPERVISION PRACTICUM (3)**
Provides for supervised experience in clinical supervision of graduate students in school psychology. Experiences include coordinating case intake and assessment planning and providing feedback to graduate students on clinical reports and communication of results to clients/parents. S/U grading. IP permissible.
SPSY 80199  
**DISSERTATION I (15)**  
Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

SPSY 80299  
**DISSERTATION II (1 OR 15)**  
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SPSY 80199.

SPSY 87987  
**PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY (3)**  
A professional seminar focused on the identity, history and development of school psychology, with special emphasis on current professional issues. Prerequisite: Doctoral standing.

SPSY 87992*  
**DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY (1-6)**  
Professional service and field experience under the supervision of licensed psychologist. Restricted to Ph.D. students in school psychology program. Emphasis on staff development, in-service education, research and consultation. 150 clinical/field hours per semester hour of credit. S/U grading; IP permissible.

SPSY 87998  
**RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY (3)**  
Selected research topics in school psychology. Significant research literature is reviewed, research design methods and issues are presented, and small research projects are conducted. S/U grading. Prerequisite: Doctoral standing.

*Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "school/agency" before the first day of the semester in which the student teaching/internship will take place.
FOUNDATIONS, LEADERSHIP AND ADMINISTRATION

Shawn Fitzgerald, Interim School Director
316 White Hall
330-672-2012
smfitzge@kent.edu
www.ehhs.kent.edu/fla

The School of Foundations, Leadership and Administration contains the following graduate programs:

- Cultural Foundations
- Evaluation and Measurement
- Educational Administration - Higher Education and K12 Leadership
- Hospitality Management
- Recreation, Park and Tourism Management
- Sport Administration/Management
- Sport Studies

**Master of Arts / Master of Education**

**Exercise, Leisure and Sport**

The Master of Arts degree is offered in three concentrations: sport studies, sport and recreation management and teacher education in physical education. Credit hours required for the degree vary from 32 to 40 hours depending upon the concentration selected. For course-specific listings and complete program requirements for each concentration, please contact the offices of the School of Foundations, Leadership and Administration. The overall purpose of each concentration varies and provides opportunities for students to specialize in an area of interest. Selection of a concentration is based on a student’s interests, background and future professional goals. Students select either a thesis or nonthesis option in the chosen concentration. Students expecting to pursue doctoral study are strongly encouraged to select a thesis option.

**ADMISSION**

Students are not required to have an undergraduate degree in physical education to be admitted to the Master of Arts program.

In addition to regular application requirements, applicants to the exercise physiology concentration should present a substantial record of experiences in sciences basic to the study of exercise physiology and gerontology, including basic organic, physiological or biological chemistry. Courses in biology, mathematics, psychology and physics are also desirable.

A minimum undergraduate grade point average of 2.75 on a 4.0 scale is normally required. In some cases, a student with a lower grade point average may be admitted on a conditional basis. Applicants to the M.A. program must submit scores from their Graduate Record Examination, the Miller Analogies Test, Graduate Management Admission Test or other standardized test (prior approval necessary) as required by each individual concentration area. Applicants must submit recommendations from two (three if applying for a GA position) former professors and a Career Goal Statement listing a student’s background and goals.

Students may also be considered for admission if they have relevant professional experiences and/or have completed designated postbaccalaureate coursework. Students must consult with the graduate coordinator prior to undertaking these alternative steps for admission.

**PROGRAM REQUIREMENTS**

The departmental requirements are ELS 63050 (Research Processes in Exercise, Leisure and Sport) and 63018 (Ethics in Exercise, Leisure and Sport). Following, or concurrent with, enrollment in courses taken to fulfill the departmental requirements, students complete courses identified as concentration requirements that are unique to the chosen concentration. Specific concentration program sheets may be obtained from the graduate coordinator.

More specific information, including details of transfer and transient credit, course substitutions, internship involvement, etc., is available from the graduate coordinator. Generally, application for transfer hours should be submitted along with regular application materials. Transient credit must be approved prior to commencing the course of study. Substitution of courses must be approved by the advisor, graduate coordinator and school director before the proposed substitution begins. When concentration requirements specify a course that may be repeated, such as ELS 63098 (Research), or allow for variable hours, such as internship, the maximum number of hours that may be credited toward fulfillment of degree requirements is specified.

For information, contact:
Mark Lyberger
330-672-2012
mlyberge@kent.edu
The Educational Specialist degree in educational administration is designed to provide a planned program of preparation for persons who desire advanced professional education but do not wish to pursue a Ph.D. degree. Thirty semester hours of planned graduate study beyond the master's degree is required to receive an Educational Specialist degree.

For information, contact:
Anita Varrati
404 White Hall
330-672-0630
avarrati@kent.edu
http://www.ehhs.kent.edu/hied

In addition, individuals possessing principalship licensure and who wish to obtain an administrative specialist license also may find this degree advantageous. Superintendent licensure requires 24 semester hours of planned graduate study after obtaining principalship licensure. These hours may be counted toward the 30 semester hours of planned graduate study required to receive the Educational Specialist degree.

For information, contact:
Anita Varrati
404 White Hall
330-672-0630
avarrati@kent.edu
http://www.ehhs.kent.edu/hied

Moreover, individuals possessing a master's degree may wish to obtain an Ed.S. in Higher Education. This degree requires a minimum of 30 hours of planned graduate study beyond the master's degree.

For information, contact:
Susan Iverson
411 White Hall
330-672-0653
siverson@kent.edu

Study in the Cultural Foundations of Education Program is oriented toward a critical understanding of broad normative and interpretive issues in education and human service professions. Course offerings apply traditional humanistic and social science modes of inquiry to theories and practices of education broadly conceived. Foundational study explores the often-conflicting demands placed upon educational institutions and examines a wide range of responses to them.

The master's degree program offers students an overview of educational issues and policies emerging from a world increasingly dominated by technology and such concerns as poverty, social and political marginalization and environmental degradation. Coursework examines theories of society, morality and politics as these relate to the study of education. Classes focus on topics such as the political and moral dimensions of education and educational policy formation; the nature of multicultural and international education; the engagement of academic and public knowledge; and ideas of nature and education.

For information contact:
Averil McClelland
405 White Hall
330-672-0594
amcclell@kent.edu
http://www.ehhs.kent.edu/cf

The purpose of this program is to prepare professionals in the fields of test development, research and data analysis. It is anticipated that specialists prepared by this program will work in research units of central offices in larger school systems; as advisors to teachers and other educators regarding test construction and research design; and as liaison staff members operating between school personnel and computer installation operators. Positions in business/industry are also appropriate, as are research associate-level positions in connection with university-based research. The program also provides an opportunity to develop evaluation and measurement skills generally helpful to educators.

For information contact:
Shawn Fitzgerald
507 White Hall
330-672-0583
smfitzge@kent.edu
http://www.ehhs.kent.edu/eval

This program option offers professional development in
the effective use of data to make informed decisions about their practices and improve student learning. Program of study leads teachers through contemporary topics related to educational assessment in a practical, application-based manner. All classes focus on day-to-day classroom instruction and require that teachers work through class activities using their own data generated from students in their classes. The M.Ed. program is an intensive 16-month, cohort-based program that has all students complete the same courses in the same sequence. Coursework focuses on topics related to understanding and using value-added assessment, evidence-based research, data-driven decision making and using data and assessment to improve instruction and student learning. These courses are highly related to what teachers do on a daily basis, yet receive very little training in undergraduate teacher preparation programs.

For information, contact:
Shawn Fitzgerald
316 White Hall
330-672-0583
smfitzge@kent.edu
http://www.ehhs.kent.edu/eval

**K-12 Educational Administration**

Most of the individuals seeking a master’s degree in the Pre-K-12 leadership concentration will be licensed teachers who wish to obtain principalship licensure in Ohio. Forty-eight semester hours of planned graduate study are required to receive the principalship license. A master’s degree is awarded at the successful completion of 33 semester hours of prescribed graduate study.

For information, contact:
Anita Varrati
404 White Hall
330-672-0630
avarrati@kent.edu
http://www.ehhs.kent.edu/edad

**Higher Education Administration and Student Personnel**

The master’s degree requires the successful completion of 45 semester hours of approved graduate study. Graduates are prepared to work as staff and administrators in campus life, career services, judicial affairs, resident services, alumni, admissions, academic success, academic advising, international student services, institutional advancement, upward bound, student disability services, student multicultural center and undergraduate and graduate studies. Some also enter college teaching, although a Doctor of Philosophy is typically required.

For information, contact:
Mark Kretovics
411 White Hall
330-672-0642
mkretov1@kent.edu
http://www.ehhs.kent.edu/hied

**Hospitality and Tourism Management**

This concentration provides an integrated Hospitality and Tourism graduate education with an emphasis on regional, national, and global implications of the field. Students’ critical analysis skills, research ability, and understanding of advanced hospitality and tourism issues will be developed. Graduates will be prepared to successfully secure positions of leadership in industry or pursue a terminal degree in hospitality and tourism management.

**ADMISSION**

In addition to regular application requirements of the university, admission to the Master of Science degree program requires the following:

- A minimum undergraduate grade point average of 3.0 (A=4.0).
- Three letters of reference from persons (preferably academic) who can attest to the applicant’s potential for graduate study.
- A resume with a letter of intent describing applicant’s professional and research goals.
- Prior work experience in hospitality and tourism is preferred.

**PROGRAM REQUIREMENTS**

Core courses required include (22-23 credit hours):

- HM 63022
- ELS 65041
- HM 63026
- ELS 56000 or HM 53025

Statistics from one of the following (3 credit hours)

- EDPF 65510
Foundations, Leadership, and Administration

- ELS 63051
- B AD 64005

Research Methods from one of the following (3 credit hours)
- EDPF 65511
- ELS 63050
- NUTR/HDFS 61018

Master’s Thesis or Master’s Project Option (6 credit hours)
- HM 61199 or ELS 63199 (Thesis)

or
- HM 61198 or ELS 63098 (Project)

Business Management Supporting Coursework (3-6 credit hours)
In consultation with advisor, students will select 60000 level supporting courses from the College of Business in one focus area which may include; Marketing, Financial Management, or Human Resource Management

Focus Area (3-7 credit hours)
Three 7 credits of coursework to be based on student’s professional goals and with advisor approval.
- EDPF 65531
- ELS 65047
- ELS 63195
- ELS 65061
- ELS 55022
- ELS 55024
- ELS 56000
- ELS 56030
- ELS 56060
- ELS 56070
- HM 63024
- HM 63095
- HM 53025
- HM 53027
- HM 53029
- HM 53030
- HM 53040

- HM 53043

Total semester Hours: 32 minimum

For more information or admissions and program requirements, contact:
Barbara Scheule
Program Coordinator
116 Nixson Hall
330-672-3796
bscheule@kent.edu

Sport Administration/Management

This program provides students with the knowledge, skills and experiences that will enable each individual to become successful professionals in the field of sport and recreation management.

The core of the program provides students with a knowledge base in management theory and application in both sport and recreation settings. In conjunction with their advisor the student will develop a program of study, using the available electives, which will help them to meet their educational and professional goals.

This program also requires a culminating experience: an internship, research project or thesis.

For information, contact:
Mark Lyberger
330-672-2012
mlyberge@kent.edu

Sport Studies

This program provides students with the opportunity to develop a program of advanced study focusing on the pedagogical, historical and sociological aspects of physical activity and sport. Departmental requirements provide an understanding of knowledge generation and utilization as well as ethical issues in exercise, leisure and sport pertinent to such advanced study.
A student’s program of study is developed in conjunction with guidance from his/her advisor and the program plan must be formalized prior to completing 15 hours. This formalized program of study is then submitted to the Graduate Coordinator for approval.

Any changes to this program of study must be done in writing and approved by the student’s advisor and Graduate Coordinator.

For information, contact:
Mark Lyberger
330-672-2012
mlyberge@kent.edu

Doctor of Philosophy

Cultural Foundations

Study in the Cultural Foundations of Education Program is oriented toward a critical understanding of broad normative and interpretive issues in education and human service professions. Course offerings apply traditional humanistic and social science modes of inquiry to theories and practices of education broadly conceived. Foundational study explores the often-conflicting demands placed upon educational institutions and examines a wide range of responses to them. Doctoral study in the Cultural Foundations of Education Program is designed for educational practitioners wanting to further their understanding of education in public and private organizations, including those who aspire to leadership roles in them, and those who wish to become scholars in the field. Required courses and electives selected from the specific disciplines of philosophy, history and sociology of education are structured to emphasize interdisciplinary approaches in contemporary educational theory and practice. Students are encouraged to enroll in courses throughout the university in such related fields as history, philosophy, sociology, and political science and anthropology as part of their program plan. Interprofessional collaboration within the Graduate School of Education, Health and Human Services also provides opportunities for studying the nature of discovery and traditions in educational problem solving.

For information, contact:
Averil McClelland
405 White Hall
330-672-0594
amcclell@kent.edu
http://www.ehhs.kent.edu/cf

Evaluation and Measurement

The Ph.D. program in evaluation and measurement provides advanced study in the areas of statistics, psychometrics, quantitative and qualitative research design and the evaluation of educational programs. Research and data analysis experiences are provided through the Bureau of Educational Research and Development. Within the program there are four distinct areas of specialization:
- Quantitative and Qualitative Research Design
- Educational Statistics
- Educational Measurement
- Educational Evaluation

The program seeks to develop professionals who have the theoretical base and application skills to teach courses at the college level in research design, statistics, measurement and
Foundations, Leadership, and Administration

evaluation; conceptualize, design and evaluate a wide variety of research methodologies; choose appropriate analyses for questions and designs that have been proposed; communicate effectively with educators and other professionals in the development and application of research and psychometric materials; and develop and evaluate programs and follow through with written reports.

For information, contact:
Shawn Fitzgerald
316 White Hall
330-672-0583
smfitzge@kent.edu
http://www.ehhs.kent.edu/eval

Educational Administration

The educational administration program is designed to prepare reflective practitioners who can function effectively as leaders in complex educational settings. Graduates are employed in public and private institutions at the Pre-K-12 and higher educational levels, as well as in nonschool settings, both public and private in nature.

Two degrees are available:
• Pre-K-12 leadership
• Higher Education

Within these concentrations, students may specialize in a variety of areas such as the principalship, the superintendency, higher education administration, student personnel, finance, education law, sport administration, college teaching, and internationalizing higher education.

For information and application materials for a Ph.D. degree in Higher Education Administration and Student Personnel, contact:
Mark Kretovics
411 White Hall
330-672-0642
mkretov1@kent.edu

For information and application materials for a Ph.D. degree in Pre-K-12 Leadership, contact:
Dale Cook
213 Moulton Hall
330-672-0611
dcook@kent.edu

Certificate Programs

College Teaching Certificate

The Educational Administration/Higher Education Program established a College Teaching Certificate in 2005. It is designed to enhance teaching competencies at the postsecondary level. It is particularly appropriate for graduate students (from any discipline) interested in a career in college teaching, but also for adjunct and full-time faculty who are currently engaged in a career in academia. Students may select from a variety of courses that emphasize the knowledge and practice of college teaching and the organizational culture of postsecondary education institutions. The 15-credit hour certificate includes an internship in college teaching. Additionally, students in the certificate program are encouraged to take effective teaching courses offered within their discipline specialty as part of the certificate requirements. This certificate program is grounded in the latest educational research of best practices in college teaching and is designed to offer and/or enhance teaching and learning experiences.

For information and application materials, contact:
Susan Iverson
404 White Hall
330-672-0653
siverson@kent.edu

Internationalization of Higher Education Certificate

In response to the globalized knowledge economy, one of the profound and transformational changes occurring in contemporary colleges and universities is internationalization. This institutional change requires administrative leaders, staff and faculty in higher education to have a comprehensive understanding of this phenomenon, along with well-articulated skills, knowledge and dispositions to improve the instructional capacity for internationalization. To meet this need, the Higher Education Administration and Student Personnel program offers a professional certificate program in Internationalization of Higher Education to strengthen teaching, administrative leadership and employability in colleges and university settings. The 15-credit hour certificate, which includes an internship experience, can be completed as a stand-alone program or as a complement to another degree program.

For information, contact:
Martha Merrill
404 White Hall
330-672-0646
mmerril@kent.edu
HEALTH SCIENCES

Lynne Rowan, Interim School Director
100 Nixson Hall
330-672-2197
lrowan@kent.edu
www.ehhs.kent.edu/hs

The School of Health Sciences contains the following graduate programs:

- Athletic Training
- Exercise Physiology
- Health Education and Promotion
- Nutrition and Dietetics
- Public Health
- Speech Pathology/Audiology

Exercise Physiology

Students are prepared for a wide variety of career options within the field of exercise physiology including exercise prescription and research, as well as doctoral study. Degree applicants are expected to have substantial preparation in the sciences, usually including coursework in biology chemistry, physics, mathematics, anatomy, kinesiology, and exercise physiology. Representative faculty research includes the areas of body composition, metabolism/nutritional requirements, environment, clinical exercise physiology, and the psychophysiology of aging as it is influenced by physical activity and fitness.

For information, contact:
Ellen Glickman
Exercise Physiology Program Coordinator
Gym Annex
330-672-2930
eglickma@kent.edu

Health Education and Promotion

The health education and promotion program offers the M.Ed. and M.A. degree in health education and promotion with a concentration either in Community Health or School Health Licensure.

The Community Health concentration provides background for persons who will be involved in positions of leadership in a wide variety of health-related community settings as well as for persons who will proceed to doctoral work in fields related to health education and health promotion.

The School Health Licensure concentration leads to a pre-K-12 licensure in health for those individuals currently holding a certificate/license in another area.

PROGRAM REQUIREMENTS

Community Health Concentration

This concentration's requirements include foundations of health education and promotion, health informatics, epidemiology, health behavior, strategies in health education, needs assessment and program planning in health promotion, evaluation of health promotion programs, communication and marketing in health education and promotion, administration of health education and promotion programs, introduction to health research and data analysis, advocacy and policy issues in health education and promotion, grant writing in health education and promotion, and 6 hours of electives.

Electives within and outside the health education and promotion program are available. Students electing the Master of Arts degree complete a thesis. The program requires the completion of 42 hours.
School Health Licensure Concentration
Current licensure in a teaching area other than school health is required for admission to this program. This concentration requires the courses listed above (except introduction to health research and data analysis, advocacy and policy issues in health education and promotion, grant writing for health education and promotion, and administration of health education and promotion programs). The following courses are also required: administration of school health programs, developmental approach to content and resources in health education, classroom management I, drug abuse and violence prevention or sexual health promotion programs, and an individual investigation. A student would need to take the Praxis II in the health content field but would not need to do additional student teaching. This concentration requires 41 hours and leads to an M.Ed. and a pre-K-12 license in health.

For information, contact:
Dianne Kerr
Health Education and Promotion
316 White Hall
330-672-7977
dkerr@kent.edu

Speech Pathology

ADMISSION
In addition to regular application requirements of the university, all graduate applicants, in order to be considered for admission, are expected to have earned a grade point average of at least 3.0 (A=4.0) for all undergraduate coursework (both overall and in their major coursework); submit acceptable scores on the Graduate Record Examination; and submit two letters of recommendation, both from professors in their major area of study.

Applicants should also note that certain standards of speech, hearing and behavior are especially important to success in the profession of speech pathology and audiology. While it is university policy to make adjustments whenever possible for the accommodation of otherwise qualified students with handicaps, applicants with disabilities in the areas specified above should seek advice so that individual circumstances might be considered.

Completed applications to the master’s program are reviewed as of February 15. Applications are reviewed after February 15 as availability permits.

PROGRAM REQUIREMENTS
Students wishing to enter the master’s program either without an undergraduate degree in speech-language pathology and audiology or with inadequate preparation for professional training are required to complete a core group of courses (basically the same as those offered to undergraduate students at Kent State University) prior to being considered for admission into the master’s program.

Master of Science

Nutrition and Dietetics

This degree provides students with advanced specialization in the field of nutritional sciences and opportunities to participate in interdisciplinary research in laboratory and community settings. Students can choose to become prepared for positions as nutritionists in clinical, community, wellness-exercise and research settings. Two options are available within the degree: M.S. in Nutrition or M.S. in Nutrition with a Dietetic Internship, which when completed, meets eligibility requirement to take the registration exam to become a registered dietitian.

ADMISSION
In addition to regular application requirements of the university, admission to the Master of Science degree program requires the following:

- A minimum undergraduate grade point average of 3.0 (A=4.0).
- Coursework in biochemistry, physiology, and advanced nutrition.
- Three letters of reference from persons (preferably academic) who can attest to the applicant’s potential for graduate study.
- A letter of intent describing the applicant’s professional/research goals and motivation for pursuing the graduate degree.

PROGRAM REQUIREMENTS
Core courses required include:

- NUTR 61018
- NUTR 63519
The concentration in nutrition requires 32 semester hours, including a master's thesis or master's project. The master/dietetic internship option requires 43 semester hours. Detailed program outlines may be obtained from the School of Health Sciences.

For information, contact:
Karen Gordon
Nutrition Program Coordinator
126 Nixson Hall
330-672-2248
klowry@kent.edu

Doctor of Audiology Program (Au.D.)

The Doctor of Audiology is a professional doctorate degree that prepares students as competent audiologists.

The Au.D. is a four-year postbaccalaureate professional doctoral degree program. Doctors of Audiology are independent professionals who specialize in the diagnosis, management and treatment of hearing and balance disorders. The Au.D. degree program is administered jointly by Kent State University, The University of Akron and The Cleveland Clinic Foundation, working cooperatively as the Northeast Ohio Audiology Consortium (NOAC). NOAC is a single unified program of faculty, students, facilities and resources. Students will spend equal amounts of time attending classes and clinical practicum at both universities. Students may choose to apply to NOAC through either Kent State University or The University of Akron and will register for courses on the campus where they are admitted. All classes are cross-listed at both universities.

ADMISSION

• Bachelor's degree from an accredited college or university
• Grade point average of 3.0 or higher
• Three letters of recommendation
• Graduate Record Examination scores
• Personal statement of purpose as to why the applicant wishes to become an audiologist
• The application deadline for the Au.D. program is February 1.

PROGRAM REQUIREMENTS

The Au.D. curriculum is a continuous 48-month postbaccalaureate course of study designed to integrate classroom, laboratory and clinical experiences. All students attend full-time and take the same courses in appropriate sequence. The emphasis of the program is on the principles and practices underlying evaluation, treatment and provision of hearing care services.

For progression and graduation, students must meet the following degree requirements:

• Maintain an overall grade point average of 3.0.
• Complete a minimum of 122 semester hours.
• Accrue 2000 clock hours of clinical experience.
• Meet the requirements for provisional Ohio licensure in audiology.
• Pass academic and clinical competency-based examinations.
• Satisfactorily complete the required courses, which may be found at http://www.ehhs.kent.edu.

For information, contact:
John Hawks
Coordinator of Au.D.
A146 Music and Speech Center
330-672-2672
jhawks@kent.edu
www.ehhs.kent.edu/noac

Doctor of Philosophy

Exercise Physiology

Students are prepared for a wide variety of career options within the field of exercise physiology including exercise prescription and research, as well as doctoral study. The mission of the doctoral program is to develop the competencies that are needed for someone who intends to teach exercise physiology, pursue research, or apply exercise physiology in practice. Degree applicants are expected to have substantial preparation in the sciences, usually including coursework in biology, chemistry, physics, mathematics, anatomy, kinesiology, and exercise physiology. Representative faculty research includes the areas of body composition, metabolism/nutritional requirements, environment, clinical exercise physiology, and the psychophysiology of aging as it is influenced by physical activity and fitness.

ADMISSION

The doctoral program course of study is concentrated in the area of exercise physiology. Determination of acceptance is made by the School of Exercise, Leisure and Sport through evaluation of the following:

• A master's degree or an approved course of study leading to the Ph.D. degree.
• A cumulative, minimum grade point average at the graduate level of 3.0.
• Graduate Record Examination or Miller Analogies Test scores.
Health Sciences

- Specific coursework in areas such as mathematics, chemistry, physics, biology, anatomy/kinesiology and exercise physiology.

PROGRAM REQUIREMENTS
The doctoral curriculum is designed to develop competencies that are needed for someone who intends to teach exercise physiology, pursue research or apply exercise physiology in practice. Doctoral research may use human or animal subjects.

The minimum credit-hour requirement for the doctorate is 90 semester hours beyond the bachelor’s degree. However, only in rare instances does a student fulfill the educational and research expectations within this minimum-hour requirement. Any deficiencies in a doctoral student’s academic preparation must be corrected very early in the approved academic program.

Specific requirements and deficiencies are determined by the student’s academic advisor and filed with the school in the first year. The following course groupings are used as guidelines for program planning:

- Departmental Requirements (6)
- Research Tools (12)
- Exercise Physiology Concentration (28-30)
- Research (2-15)
- Dissertation (30)

For information contact:
Ellen Glickman
Exercise Physiology Program Coordinator
Gym Annex
330-672-2930
eglickma@kent.edu

Speech Pathology or Audiology
The primary purpose of the Ph.D. program is to provide the student with a strong theoretical background and research competencies in communication processes and/or disorders. Students may pursue programs of study in speech-language pathology or audiology.

ADMISSION
In addition to regular application requirements of the university, all applicants, in order to be considered for admission, are expected to have earned a grade point average of at least 3.0 (A=4.0) for all undergraduate and graduate coursework (both overall and in their major coursework); submit acceptable scores on the Graduate Record Examination; and submit two letters of recommendation, both from professors in their major area of study. Applicants to the doctoral programs must provide a letter of intent that details their course and research goals.

Applicants should also note that certain standards of speech, hearing and behavior are especially important to success in the profession of speech pathology and audiology. While it is university policy to make adjustments whenever possible for the accommodation of otherwise qualified students with handicaps, applicants with disabilities in the areas specified above should seek advice so that individual circumstances might be considered.

Applications to the Ph.D. program are reviewed as they are received.

PROGRAM REQUIREMENTS
The Ph.D. programs are designed so that students’ curricula are tailored to fit individual needs and interests such as basic/applied research and clinical/professional skills. Admission to candidacy requires compliance with general university requirements as well as school requirements. Specific school requirements include completion of 45 semester hours of precandidacy graduate work beyond the master’s degree and acceptable performance on a written and oral comprehensive examination. Students may be admitted to the Ph.D. Program on a part-time basis; however, students must also meet a residency requirement of two consecutive semesters of full-time enrollment prior to acceptance into candidacy.

Students who have not completed a master’s thesis are required to complete and defend a research project prior to taking their comprehensive examination.

The 45 semester hours of precandidacy study consists of 24 hours in a major area of focus, 15 hours in two minor areas of focus, and 6 semester hours of research tool courses.

Health Education and Promotion
The Ph.D. major in Health Education and Promotion emphasizes the interaction between the theoretical, empirical and applied nature of health education and promotion utilizing a social-ecological multilevel model of intervention. Although the program is designed for persons whose primary identity is that of a health educator and health promoter, applicants are drawn from a variety of fields, including health education, nursing, nutrition, the medical technologies and social sciences. The program is particularly appropriate for persons seeking employment in higher education and career advancement within the broad area of health education and promotion.

For information contact:
Dianne Kerr
Health Education and Promotion
316 White Hall
330-672-7977
dkerr@kent.edu
Certificate in Pervasive Developmental Spectrum Disorders

Graduate-level speech-language pathologists or certified speech-language pathologists may complete coursework that will provide them with knowledge and skills necessary to collaborate with parents and other professionals to provide services for children, youth and adults with Pervasive Developmental Delay (Autism Spectrum Disorders).

For information contact:
Sloane Burgess
A128 Music and Speech Center
330-672-2672
sburges8@kent.edu
LIFESPAN DEVELOPMENT AND EDUCATIONAL SCIENCES

Mary Dellmann-Jenkins, Interim School Director
405 White Hall
(330) 672-2294
mdellman@kent.edu
http://www.ehhs.kent.edu/lifes

The School of Lifespan Development and Educational Sciences contains the following graduate programs:

• Counseling and Human Development Services
• Educational Psychology
• Gerontology
• Human Development and Family Studies
• Instructional Technology
• Rehabilitation Counseling
• School Psychology
• Special Education

Educational Psychology

The educational psychology program provides advanced study in the psychological aspects of human learning and development. Students will acquire a broad, basic knowledge of educational psychology and evaluation procedures and will develop competencies for addressing problems of learning and development in educational settings. The flexibility of the program, with respect to course equivalencies, thesis and

Note: Technological competence and computer literacy include using software to develop Web pages, presentations and professional papers; using audiovisual equipment such as video recorders and playback units; using computerized testing programs; using e-mail; helping clients search for various types of counseling-related information via the Internet; being able to subscribe and participate in and sign off counseling-related listservs; and using the Internet for continuing education opportunities in counseling (ACES Technology Interest Network, 1999).

PROGRAM REQUIREMENTS

The M.Ed. or M.A. degree curriculum is a minimum of 60 semester hours, including a 600 clock-hour internship. This program is designed to fulfill the educational requirements for licensure as a Professional Clinical Counselor in the state of Ohio.

The program may be pursued on a part-time or full-time basis, although some full-time study is urged.

For information contact:
Jason M. McGlothlin
Community Counseling Program Coordinator
310 White Hall
330-672-2662
jmcelloth@kent.edu
http://www.ehhs.kent.edu/chds

The Council for Accreditation of Counseling and Related Educational Programs (CACREP) has conferred accreditation to the community counseling program at Kent State University. The community counseling program is also approved by the State of Ohio Counselor, Social Work and Marriage and Family Therapist Board.

ADMISSION

A selective admission procedure is used. Application deadlines are:

• October 1st
• March 1st
• June 1st

Requirements for admission in Counseling and Human Development Services (CHDS) master’s degree program include:

• The first requirement of the admission process is that the applicant qualify for graduate standing in the Graduate School of Education, Health and Human Services at Kent State University. The academic criteria include an overall undergraduate grade point average of 2.75 (A=4.0).
• Present satisfactory recommendations from two persons regarding the applicant’s professional experience and potential strengths as a counselor (preferably from counselors and/or professors who know the applicant’s potential as a graduate student in community counseling).
• Faculty review of application materials. In reviewing materials and interviewing applicants, the faculty assess applicants with regard to each applicant’s:
  • potential success in forming effective interpersonal relationships.
  • aptitude for graduate study, including technological competencies and computer literacy (see note).
  • career goals in relationship to the program.
  • openness to self-examination.
  • openness to personal and professional development.

Note: Technological competence and computer literacy include using software to develop Web pages, presentations and professional papers; using audiovisual equipment such as video recorders and playback units; using computerized testing programs; using e-mail; helping clients search for various types of counseling-related information via the Internet; being able to subscribe and participate in and sign off counseling-related listservs; and using the Internet for continuing education opportunities in counseling (ACES Technology Interest Network, 1999).
elective options, makes it appropriate for classroom teachers, professionals in alternative educational settings and students wishing to pursue doctoral-level training in educational psychology.

For information, contact:
Christopher Was  
405 White Hall  
330-672-2294  
cwas@kent.edu  
http://www.ehhs.kent.edu/edpf

Human Development and Family Studies

The Master of Arts program in Family Studies offers two concentrations:

- Human Development and Family Studies - provides students with advanced knowledge in the fields of family sciences and human development and the opportunity to develop multidisciplinary research and community outreach skills. Coursework in this graduate concentration enables students to apply to become Certified Family Life Educators (CFLE). Human Development and Family Studies graduates are prepared for leadership and teaching positions in the social services, junior and community colleges and cooperative extension, and/or for pursuing doctoral-level study.

- Gerontology - provides students with an interdisciplinary course of study and opportunities to participate in aging-related research and community outreach projects. Students are assisted in developing a specialty area in gerontology that will enable them to advance in their professional or academic careers.

ADMISSION

In addition to regular application requirements of the university, admission to the Master of Arts degree program requires the following:

- A minimum undergraduate grade point average of 3.0 (A=4.0).
- Submission of scores on the general test of the Graduate Record Examination.
- Submission of at least three letters of recommendation from persons (preferably academic) who can attest to the applicant’s potential for graduate study.
- Submission of a letter of application describing the applicant's professional/research goals and motivation for pursuing the graduate degree.
- Faculty review of application materials. In reviewing materials, the faculty assess applicants with regard to their
  - aptitude for graduate school
  - academic goals and match with the program’s curriculum
  - research goals and match with faculty members’ expertise.

PROGRAM REQUIREMENTS

Core courses required in both concentrations include HDFS 64023, 61018 and EDPF 65510. Human Development and Family Studies requires 32 semester hours including either a master’s thesis or master’s project. Gerontology requires 33 credit hours including a thesis. Detailed program outlines may be obtained from the School of Family and Consumer Studies.

For information, contact:
Rhonda Richardson  
HDFS Program Coordinator  
140 Nixson Hall  
330-672-2026  
rrichard@kent.edu  
http://www.ehhs.kent.edu/hdfs

Instructional Technology

The instructional technology program offers a core of courses designed to prepare students to use a variety of technologies in many different settings. Electives in the program may be used to concentrate on areas such as classroom teaching in two- or four-year colleges, business, industry, governmental organizations, K-12 schools, allied health professions or other settings.

There are two licensure areas possible within the master's degree: school library/media and computing/technology. Individuals applying for the computer and technology licensure area must hold a teaching certificate/license. The school library/media licensure is designed to prepare students for positions in school media centers. It is offered in conjunction with the School of Library and Information Science. In addition to the College of Education, Health and Human Services master's degree program requirements, students take coursework in the following areas: selection and utilization of media; educational computing; reference and cataloging; children's literature; and organization and administration of the media centers and information literacy.

The computing/technology endorsement is intended for certified or licensed teachers who will teach computer applications in education. This license is limited to the age and grade levels listed on the teacher's license. In addition to the requirements for a master’s degree in instructional technology, students take coursework in computer networking, authoring systems, multimedia production and instructional application of the Internet.

For individuals who do not have a teaching certificate or license, a master’s degree program is available to provide an initial multi-age license for library/media that does require the Graduate Record Examination for admission. In addition to the master’s degree requirements and the library/media
requirements, students take core educational courses in reading, special education and classroom instruction.

For information, contact:
Drew Tiene
405 White Hall
330-672-2294
dtienen@kent.edu
http://www.ehhs.kent.edu/itec

Rehabilitation Counseling

The rehabilitation counseling program features an interdisciplinary approach that focuses on the inclusion of persons with disabilities into the life of the community. The Master of Education program in rehabilitation counseling is accredited by the Council on Rehabilitation Education. Graduates of the program are eligible to sit for the national Certified Rehabilitation Counselor examination. Electives in the program may be used to concentrate in areas such as vocational evaluation and work adjustment, psychiatric rehabilitation, deafness, and/or to pursue Ohio counselor licensure.

Professional identity is developed through early involvement with rehabilitation agencies, interactions with practitioners and consumers in varied settings, and the Kent State University Chapter of the National Rehabilitation Counseling Assoc. The rehabilitation counseling program faculty are also affiliated with the Center for Disability Studies and the Center for Innovation in Transition and Employment, two interdisciplinary institutes that administer numerous federally funded research, demonstration and training projects in such fields as rehabilitation counseling, school psychology and special education.

Graduates of the program are employed in vocational rehabilitation settings, mental health and developmental disabilities agencies, drug and alcohol rehabilitation, public and private hospitals, comprehensive rehabilitation centers, correctional facilities, community-based programs, private industry, proprietary rehabilitation, and student disability services in higher education.

PROGRAM REQUIREMENTS

Rehabilitation counseling is open to students with any undergraduate major. The program requires two years of study culminating in a semester-long internship under the field supervision of a certified rehabilitation counselor. Paid internships are available on a competitive basis and are arranged by program faculty. Faculty members advise students in the development of a curriculum plan that includes required core, foundational, and elective courses. Early and continued exposure to rehabilitation practice is provided as students progress through the program. The integration of counseling, case management, evaluation and placement skills are the goal of didactic and experiential curriculum components.

Full- and part-time study is possible with courses scheduled during late afternoon and evening hours. Applications are accepted throughout the year. A program application and an interview are required prior to admission.

For information, contact:
Phillip Rumrill
Rehabilitation Counseling
413 White Hall
330-672-2294
prumrill@kent.edu

School Counseling

The mission, intent and purpose of the School Counseling program at Kent State University is to prepare students for employment as professional school counselors in K-12 institutions. The Council for Accreditation of Counseling and Related Educational Programs (CACREP) has conferred accreditation to the school counseling program at Kent State University. In addition, the program curriculum has been approved by the Ohio Department of Education.

ADMISSION

A selective admission procedure is used. Application deadlines are: October 1, March 1st, and June 1st.

Requirements for admission in CHDS master's degree program include:

- Qualification for graduate standing in the Graduate School of Education, Health and Human Services at Kent State University. The academic criteria include an overall undergraduate grade point average of 2.75 (A=4.0).
- Satisfactory recommendations from two persons regarding the applicant's professional experience and potential strengths as a counselor (preferably from counselors and/or professors who know the applicant's potential as a graduate student in school counseling).
- Faculty review of application materials. In reviewing materials and interviewing applicants the faculty assess applicants with regard to each applicant's:
  - potential success in forming effective interpersonal relationships;
  - aptitude for graduate study including technological competencies and computer literacy (see note);
  - career goals in relationship to the program;
  - openness to self-examination; and
  - openness to personal and professional development.

Note: Technological competence and computer literacy include using software to develop Web pages, presentations and professional papers; using audiovisual equipment such as video recorders and playback units; using computerized testing programs; using e-mail; helping clients search for various types of counseling-related information via the Internet; being able to subscribe and participate in and sign

2009-2010 Kent State University Graduate Catalog
Special Education Intervention Specialist

The degree programs in special education offer advanced study in the field of special education, which focuses on educating learners with exceptionalities in grades PK-12. Seminars are designed to provide intellectual depth to practitioners’ skills and knowledge in special education. In addition to the degree requirements, programs can be tailored to meet intervention-specialist licensure requirements for experienced teachers as well as for those persons seeking an initial license. Intervention-specialist licensure requirements can be met for the following areas:

- Deaf Education*
- Early Childhood Intervention
- Gifted Education
- Mild/Moderate Educational Needs*
- Moderate/Intensive Educational Needs*

For information, contact:
Kristie Pretti-Frontczak or Melody Tankersley
405 White Hall
330-672-2294
kprettif@kent.edu or mtankers@kent.edu
http://www.ehhs.kent.edu/sped

Licensure in the following area is designed to prepare interpreters to work with children and adults who are deaf or hard of hearing (D/HH) in an educational setting. Graduates of the program will be eligible for licensure in educational interpreting (K-12) but not licensure for teaching.

- Educational Interpreter

For information, contact:
Pam Luft
405 White Hall
330-672-2294
pluft@kent.edu
http://www.ehhs.kent.edu/sped

In addition to licensure programs, students who hold current state teaching certification or licensure may complete requirements for an endorsement in the following area:

- Transition to Work

For information, contact:
Robert Flexer
319 White Hall
330-672-2294
rflexer@kent.edu
http://ehhs.kent.edu/sped/transitional/

For PreK special needs information, contact:
Sanna Harjusola-Webb
405 White Hall
330-672-2294
Lifespan Development and Educational Sciences

Programs may also be tailored to include KSU certificates in two areas:
- Behavior Intervention Specialist
- Autism Spectrum Intervention Specialist

The certificate programs are offered through multidisciplinary training.

Educational Specialist Degree

Counseling and Human Development Services

The Ed.S. program can be highly individualized to meet the needs of students having interests in a variety of school or community settings. The degree is an advanced-level practitioner's degree, and the focus is on practical knowledge and skill. The Ed.S. program requires a minimum of 21 semester hours be completed beyond the Master's degree for Kent State University graduates or 30 semester hours be completed beyond the Master's degree for non-Kent State University graduates.

ADMISSION
Applicants to an Ed.S. program in counseling will be requested to submit an application, two official transcripts, two letters of reference and participate in an interview. A selective admission procedure is used. Application deadlines are October 1st, March 1st, and June 1st.

For information, contact:
John West
Program Coordinator
Counseling and Human Development Services
310 White Hall
330-672-2662
jwest@kent.edu

School Psychology

The school psychology M.Ed./Ed.S. program prepares students to work effectively with school personnel, parents and children to resolve learning and behavioral problems. Requirements for licensure reflect those of national organizations and the Ohio Department of Education. For Ohio Department of Education licensure to practice in Ohio schools, a score on the Praxis II Specialty examination that meets or exceeds the established Ohio requirements is necessary.

Students typically complete course requirements over a two-year period including two full summer sessions, followed by an academic year internship under supervision of the faculty and a qualified school psychologist in public schools. Course requirements need to be successfully completed prior to the internship.

Applicants must submit application materials beyond those required by the Graduate School of Education, Health and Human Services. For published application deadlines, visit the Web site at http://www.ehhs.kent.edu/spsy. Admission is selective.

For information, contact:
Richard Cowan
405 White Hall
330-672-2294
rcowan1@kent.edu

http://www.ehhs.kent.edu/spsy

Special Education Intervention Specialist

The Ed.S. degree in special education provides an advanced, post-master's program in specialized areas of educational programming for children and youth with exceptionalities.

The Ed.S. degree program is flexible to accommodate the needs of post-master's degree students who wish to assume leadership roles in schools and agencies that provide special education and related services to children, youth and adults who have disabilities or who are gifted.

Individuals interested in pursuing a Ph.D. degree in special education should not enroll in this program.

For information, contact:
Melody Tankersley or Kristie Pretti-Frontczak
Program Coordinators
405 White Hall
330-672-2294
mtankers@kent.edu or kprettif@kent.edu
http://www.ehhs.kent.edu/sped

Doctor of Philosophy

Counseling and Human Development Services

Doctoral study in CHDS in the College and Graduate School of Education, Health and Human Services at Kent State University is designed to provide advanced-level preparation for counselors in various public and private human service and mental health settings as well as preparing individuals for the counselor education professoriate in colleges and universities.

The CHDS doctoral program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP) and is approved by the State of Ohio Counselor, Social Worker, and Marriage and Family Therapist Board (CSW&MFTB). Individuals applying to the Ph.D. program typically possess or are about to complete a master's degree in counseling and, so, the faculty works to identify and extend a doctoral student's knowledge, skills and attitudes required to become advanced practitioners and counselor educators. The faculty members believe that to perform effectively, doctoral-level counselors and counselor educators need to have an
understanding of educational, supervisory and counseling processes, competence in scholarly inquiry and maturity in self-development. The faculty believes it is important to acculturate students into the high standards of professional behavior. As a result, educational requirements for the psychology license are not to be met while pursuing a Ph.D. degree in the CHDS doctoral program.

ADMISSION

The Ph.D. major in Counseling and Human Development Services accepts part-time as well as full-time students. At least one year of full-time study, as defined by the program, is required.

In reviewing materials and interviewing applicants, the faculty assess the applicants with regard to:

- potential success in forming effective interpersonal relationships
- aptitude for graduate study, including technological competencies and computer literacy (see note)
- career goals in relationship to the program
- openness to self-examination
- openness to personal and professional development

Note: Technological competence and computer literacy include using software to develop Web pages, presentations and professional papers; using audiovisual equipment such as video recorders and playback units; using computerized testing programs; using e-mail; helping clients search for various types of counseling-related information via the Internet; being able to subscribe and participate in and sign off counseling-related listservs; and using the Internet for continuing education opportunities in counseling (ACES Technology Interest Network, 1999).

The Counseling and Human Development Services doctoral program selects students during the spring of each year. The deadline for application materials is February 1.

For information, contact:
John D. West
Counseling and Human Development Services
310 White Hall
330-672-2662
jwest@kent.edu

Educational Psychology

The Ph.D. degree program in educational psychology provides for advanced study and research in the psychological aspects of the educational enterprise. Emphases include human learning and development and instructional technology.

Participants in this program will acquire a broad understanding of educational psychological theory and principles. Graduates of this program are qualified to teach at the university level and are also prepared for professional leadership, instructional design, research and other activities in a variety of school and alternative educational settings.

Admission to the program is based, in part, upon sufficient graduate-level preparation for the advanced courses in psychology and education.

For information, contact:
Christopher Was
405 White Hall
330-672-2294
cwas@kent.edu
http://www.ehhs.kent.edu/edpf

School Psychology

The school psychology M.Ed./Ph.D. program provides advanced training to work as a professional psychologist in schools and other settings. The Ph.D. program is committed to a scientist-practitioner model of training, which conceptualizes school psychologists as data-oriented problem-solvers and transmitters of psychological knowledge and skill. The program exceeds the requirements of the National Association of School Psychologists, is fully accredited by the American Psychological Association (APA). For Ohio Department of Education licensure, a score on the Praxis II examination that meets or exceeds the established Ohio requirements is necessary. Graduates are eligible for licensure as psychologists by the Ohio Board of Psychology.
Applicants must submit materials beyond those required by the Graduate School of Education, Health and Human Services. For published application deadlines visit the Web site at http://www.ehhs.kent.edu/sped. Admission is selective.

For information, contact:
Richard Cowan
405 White Hall
330-672-2294
rcowan1@kent.edu
http://www.ehhs.kent.edu/sped

Special Education

The Ph.D. program in special education is designed to prepare highly qualified, experienced persons for leadership roles as teacher educators and researchers. The individualized nature of the program enables students to master a comprehensive field of emphasis in special education, employ and disseminate intellectual and innovative methods for addressing the needs of exceptional children, youth and adults, and acquire a breadth of understanding of related disciplines that focus on the professional roles of college teaching, research, administration and clinical/educational/agency-based services for individuals with exceptionalities. The Ph.D. program includes common advanced and noncategorical course and seminar requirements. The substantive specialization and emphasis is defined by the individual student’s total program prospectus, including a minor or cognate area; specialized internships; advanced coursework; individually directed research; and the dissertation. In addition to conceptualizing, designing, implementing and interpreting research, all doctoral students are expected to demonstrate competence in teaching at the college level in the course of their doctoral training.

For information, contact:
Kristie Pretti-Frontczak or Melody Tankersley
405 White Hall
330-672-2294
kpretti@kent.edu or mtankers@kent.edu
http://www.ehhs.kent.edu/sped

Certificates

Gerontology

Kent State University and The University of Akron together offer a graduate-level Certificate in Gerontology, which may be received in conjunction with degrees from either institution at the specialist’s, master’s or doctoral levels. Students thus receive basic preparation in their selected discipline or major while concurrently obtaining specialized training in gerontology through the certificate program. Coursework completed at either institution may be applied to the certificate program. The two universities are located within a 15-minute drive from each other.

To be eligible for the Graduate Gerontology Certificate Program, a student must be matriculated in a graduate degree program or hold a graduate degree from an accredited institution. Students may be admitted with non-degree status, but they must complete a graduate degree program prior to being awarded the certificate.

The 18 credit hour certificate program is flexible with minimal required courses beyond those needed to complete degree requirements. Students can tailor the courses taken toward completion of the certificate to meet their unique professional interests. A thesis or dissertation may be applied toward certificate requirements if it involves an aging-related topic. At least 12 of the required hours are to carry 600-level (University of Akron), 60000-level (Kent State University) or above designation. A maximum of 3 credit hours is transferable from outside the university. Certificate completion is acknowledged by special notation on student transcripts.

The certificate program requires 18 credit hours of graduate coursework as follows:

<table>
<thead>
<tr>
<th>Required Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interdisciplinary Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Psychosocial Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Biology of Aging,</td>
<td></td>
</tr>
<tr>
<td>Physiology of Aging or Equivalent</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>Research or Practicum</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

The certificate program is based on the recommended standards of excellence established by the Association for Gerontology in Higher Education. The faculty at both Kent State University and The University of Akron are nationally and internationally recognized scholars in gerontology. Many are Fellows of the Gerontological Society of America (http://www.geron.org). Faculty are available to assist students with course selection, research projects and other matters of interest in the field of gerontology.

Additional information and application materials are available from our Web sites: http://dept.kent.edu/f&cs or
Lifespan Development and Educational Sciences

http://www3.uakron.edu/ilsdg/. Interested students should contact one of the certificate directors:

Gregory Smith, Ed.D., Director
Human Development Center
Kent State University
100 Nixson Hall
Kent, OH 44242-0001
330-672-2994
Fax: 330-672-2194
gsmith2@kent.edu

Harvey L. Sterns, Ph.D., Director
Institute for Life-Span Development and Gerontology
The University of Akron
Arts & Sciences Building, Suite 340
Akron, OH 44325-4307
330-972-7243
Fax: 330-972-5174
hsterns@uakron.edu

Integrating Technology into the Classroom

The Instructional Technology program offers two certificate programs for students. These can be taken by themselves or as a part of a degree.

Teachers increasingly need to integrate technology into their teaching and classrooms. This certificate program provides essential knowledge and skills for teachers to make effective use of a variety of current technologies in learning and teaching.

For information, contact:
Drew Tiene
405 White Hall
330-672-2294
dtiene@kent.edu
http://www.ehhs.kent.edu/itec

Online Learning and Teaching

Online learning and teaching are playing a widening role in education at all levels. This certificate program provides students with the opportunity to learn the essential knowledge and skills they need to teach effectively online, whether they are teaching an entire course or integrating online teaching into a more traditional setting. Students will prepare for future developments in online learning and teaching by becoming aware of the research literature and trends.

For information, contact:
Drew Tiene
405 White Hall
330-672-2294
dtiene@kent.edu
http://www.ehhs.kent.edu/itec

Behavior Intervention Specialist Certificate

The Behavior Intervention Specialist certificate combines Special Education and School Psychology coursework. This certificate is available to currently certified or licensed teachers or school psychologists or those currently enrolled in graduate programs that will lead to licensure in those areas.

For information, contact:
Christine Balan
405 White Hall
330-672-2294
cbalan@kent.edu
http://ehhs.kent.edu/sped/BISCP.cfm
Austism Spectrum Intervention Specialist Certificate

The Austism Spectrum Intervention Specialist certificate is a combined program offering graduate-level coursework from Special Education and Speech Pathology and is available to currently licensed teachers or speech-language pathologists, or to individuals enrolled in graduate programs that will lead to licensure in either program. Students completing this certificate will gain specialized knowledge and skills necessary to collaborate with parents and other professionals to provide services for children, youth and adults with Pervasive Developmental Disorders (Autism Spectrum Disorders).

Graduate-level speech-language pathologists or certified speech-language pathologists may complete coursework that will provide them with knowledge and skills necessary to collaborate with parents and other professionals to provide services for children, youth and adults with Pervasive Developmental Delay (Autism Spectrum Disorders). The program is built upon two existing graduate programs and is intended as a Kent State University advanced certificate beyond the master’s degree. Each participant would complete (or would have completed within the past seven years) some or all of the 23 hours of coursework listed and the 2 credit-hour practicum to be eligible for the certificate.

For information, contact:
Sloane Burgess
405 White Hall
330-672-2294
sburges8@kent.edu
http://www.ehhs.kent.edu/sped
TEACHING, LEARNING AND CURRICULUM STUDIES

Mathematics Specialist

The National Council of Teachers of Mathematics (NCTM) has provided a vision of the future of mathematics education in Principles and Standards for School Mathematics. A key factor in the implementation of the NCTM standards will be mathematics leadership in individual schools. The Mathematics Specialist Program is especially tailored to help develop mathematical leadership in K-12 teachers. Graduate courses and practicum provide necessary knowledge of mathematics, learning theory, child development, research principles and intervention techniques to graduate students who strive to provide leadership in mathematics education. This program can lead to the Mathematics Specialist K-6 Endorsement program. Courses are all offered during evenings and summers for the convenience of students.

Students must meet minimum mathematics requirements in order to complete this program. A minimum of 15 semester hours of undergraduate or graduate mathematics courses as a prerequisite or corequisite to complete the program is required.

For information, contact:
Trish Koontz
404 White Hall
330-672-2580
tkoontz@kent.edu

Reading Specialization

The reading and language arts/literacy education program prepares educators to teach students at all age levels, Pre-K-adult, in general education and content area instructional situations. The program focuses on both students who progress typically and those who struggle with learning to read. The program meets all International Reading Association Standards for Classroom Professionals and Specialized Reading Professionals.

State of Ohio Endorsement in Reading is attained as part of the core requirements of the program. For this reason, students who enter the program must hold a valid teaching certificate or license.

For information, contact:
Nancy D. Padak
Reading/Writing Development Center
402 White Hall
330-672-2836
npadak@literacy.kent.edu

Early Childhood Education

The M.Ed. and M.A. degrees are intended to prepare experienced early childhood professionals for leadership in schools and agencies serving young children, 0-8, and their families. Upon admission, candidates complete a self-assessment based on the core standards and essential

Master of Education and Master of Arts
Curriculum and Instruction

The Curriculum and Instruction (C&I) Masters Program provides a wide range of graduate study opportunities in progressive curriculum and teaching best practices. The general goal of the C&I Masters program is to prepare educators for continuing professional development, education in a multicultural society, and leadership for curriculum reform and renewal. This goal is addressed in seven specific areas of professional expertise:

- Curriculum and Teaching Studies
- English/Language Arts Education
- Mathematics Education
- Middle Childhood Education
- Physical Education
- Science Education
- Social Studies Education

These areas of expertise are officially called C&I specializations and a distinctive graduate study prospectus has been created for each advised specialization. The C&I Program is composed of a minimum of thirty-two semester hours of planned graduate study and provides an essential background for critically-informed, visionary and creative educational work. Graduates in all seven specializations in the C&I Masters Program are well-prepared to assume a diverse set of teacher leadership positions, and because they are well-informed on current curriculum and teaching topics and issues, they possess the necessary knowledge to make valuable contributions in their particular professional settings.

For information, contact:
James G. Henderson
404 White Hall
330-672-0631
jhenders@kent.edu
http://www.ehhs.kent.edu/ci
Teaching, Learning, and Curriculum Studies

The Official Seal of Kent State University designates this catalog as an official University document of record for academic information and policy.

The Master of Arts in Teaching degree requires a minimum of 44 semester hours of credit, of which at least 39 must be at the graduate level, and includes a school-based internship. For students who have an appropriate undergraduate background in the subject matter content, the program is designed to be completed in one summer and the following academic year. Applicants should follow the application procedures for the Master of Arts in Teaching degree. In addition, the applicants will be asked to participate in on-campus interviews with university faculty.

For information, contact:
Janice K. Hutchison
405 White Hall
330-672-2580
jhutchi1@kent.edu
http://www.ehhs.kent.edu/mat

Early Childhood Education

The Master of Arts in Teaching degree is designed for qualified persons who possess at least a baccalaureate degree in a discipline other than teacher education. This program leads to Ohio licensure for teaching children age three through grade three.

Applicants should follow the application procedures for the Master of Arts in Teaching degree. In addition, the applicants will be asked to participate in on-campus interviews with university faculty.

For information, contact:
Martha Lash
404 White Hall
330-672-0628
mlash@kent.edu
http://www.ehhs.kent.edu/eced

Career-Technical Teacher Education

The M.Ed. or M.A. degree in career-technical teacher education is available with concentrations in the following:

- Teaching
- Special Needs

The teaching concentration is designed to serve individuals who desire to continue as classroom and/or laboratory instructors in one of the career-technical service areas. A minimum of 11 semester hours of coursework is required in the service area selected.

Available options in career-technical teacher education include integrated business education, marketing education, family and consumer science education, as well as trade and industrial education.

The special needs concentration focuses on coursework and professional experiences related to the study of special needs populations in career-technical education. A minimum of 32 semester hours is needed to complete the degree.

For information, contact:
Patrick J. O’Connor
Career-Technical Teacher Education
316 White Hall
330-672-7977
poconnor@kent.edu
Teaching, Learning, and Curriculum Studies

Educational Specialist Degree
The Ed.S. degree in education is available in curriculum and instruction and educational administration.

Curriculum and Instruction
The Educational Specialist (Ed.S) degree in Curriculum and Instruction (C&I) is designed to provide a planned program of preparation for educational professionals who wish to pursue advanced graduate studies but do not choose to attain a Ph.D. degree. The C&I Ed.S. Program provides continuing educational opportunities for practitioners who wish to hold professional leadership positions such as a director of instruction, a special subject/area coordinator, or a director of staff development. C&I Ed.S. Program concentrations include: art education, early childhood education, English/language arts education, general curriculum and teaching studies, mathematics education, middle childhood education, music education, reading, secondary education, staff development, science education, and social studies education.

The C&I Ed.S. Program is composed of a minimum of thirty semester hours of planned graduate study beyond the master's degree and must include a fundamentals of curriculum course (unless waived), an educational foundations course, a research course, and courses in a specialized C&I discipline or area of study. Completion of an appropriate internship experience is recommended.

For information, contact:
James G. Henderson
404 White Hall
330-672-0631
jhenders@kent.edu
http://www.ehhs.kent.edu/ci

Career-Technical Teacher Education
The Educational Specialist degree in Career-Technical Education is designed for CTE teachers who enter a licensure program with a masters degree. The degree incorporates CTE licensure coursework with doctoral courses in curriculum and instruction.

Doctor of Philosophy
The Ph.D. degree in education is available in curriculum and instruction and educational administration.

Curriculum and Instruction
The Ph.D. degree in Curriculum and Instruction (C&I) is designed to provide a planned program for the preparation of respected educational scholars in particular disciplinary and multidisciplinary areas of curriculum and teaching research. Doctoral students are provided with the necessary theoretical and methodological knowledge and skills to function as independent research experts in the context of specific C&I academic fields of study, including: art education, early childhood education, English/language arts education, general curriculum and teaching studies and leadership, mathematics education, middle childhood education, music education, reading, secondary education, science education, social studies education, and general teacher education and staff development.

Though the C&I Ph.D. Program contains a minimum core of five C&I courses, one foundations course, and two research courses, doctoral students each design an individualized course of study with the assistance of a supervising prospectus committee, which they organize. The course phase of study culminates with a written and oral comprehensive examination that is created and evaluated by each doctoral student's prospectus committee. Once doctoral students have passed the comprehensive examination, they organize a dissertation committee, which supervises their dissertation research project. Doctoral students achieve the Ph.D. degree upon successfully defending their dissertation research projects. This culminating peer review process, which is open to the public, formally acknowledges that the doctoral students have established an independent and respected research expertise.

For information, contact:
James G. Henderson
404 White Hall
330-672-0631
jhenders@kent.edu
http://www.ehhs.kent.edu

College and Graduate School of Education, Health, and Human Services

2009-2010 Kent State University Graduate Catalog
The Kent State University College of Nursing offers the Doctor of Philosophy (Ph.D.), the Master of Science in Nursing (M.S.N.), several post-master’s certificate programs and two dual-degree programs in combination with other non-nursing master’s programs at Kent State University. The dual-degree programs offered are the Master of Science in Nursing/Master of Business Administration and the Master of Science in Nursing/Master of Public Administration. The Ph.D. in Nursing is offered jointly with The University of Akron College of Nursing. The College of Nursing is accredited by the National League for Nursing and the Commission on Collegiate Nursing Education.

The joint program for the Doctor of Philosophy is characterized by excellence through scholarship, integrity and caring. The primary purpose of the program is to produce nurse scholars. This purpose is realized through the development, testing and dissemination of nursing knowledge derived from theories and models of nursing practice as well as from the social, legal, political and economic aspects of health care policies and practices. Interdisciplinary collaboration and community outreach are emphasized throughout the program, and graduates are characterized by the excellence of their leadership, research, teaching, or application of nursing and health care policy.

The Master of Science in Nursing (M.S.N.) incorporates concepts of advanced practice nursing throughout the program. Students are prepared to function in clinical, managerial or leadership roles as dictated by their concentration and role specialties, and to be eligible for doctoral study. The program’s graduates hold leadership positions in a variety of roles in urban and rural settings in Ohio and nationally. Graduates of the advanced practice concentrations at Kent State University are eligible for national certification examination.

The M.S.N. program includes concentrations in the focal areas of acute care, the adult, family, geriatric, health care management, psychiatric-mental health, women’s health and pediatric nursing. The roles of Clinical Nurse Specialist (CNS) and Nurse Practitioner (NP) exist in all the focal areas except health care management; and in acute care, family, and women’s health, only the NP is available. The two roles can be combined or separately pursued in psychiatric-mental health nursing. Psychiatric mental health nursing CNS role is further subdivided into adults or child-adolescent.

The dual-degree programs of the Master of Science in Nursing and the Master of Business Administration (M.S.N.-M.B.A.) and the Master of Science in Nursing and the Master of Public Administration (M.S.N.-M.P.A.) are designed for experienced nurses whose career goals include assuming middle- or executive-management positions in health services agencies or companies, or who are interested in starting their own businesses. Practical management knowledge and skills are concurrently integrated with nursing courses and relevant management experiences in the form of practical and internships. Both curriculae are cost and time effective for nurses with clear goals and demanding schedules. Clinical courses are not required but may be added if desired. Graduates of these programs are also prepared to pursue doctoral study.

A BSN-MSN Bridge Option is available for qualified undergraduate KSU nursing students seeking to expedite the transition from undergraduate to graduate studies in nursing. Qualified undergraduate students may take up to 12 credit hours at the masters level and apply those hours toward completion requirements for their undergraduate degrees. Applying for the Bridge Option just prior to junior year of undergraduate studies will give students the greatest opportunity to use up to 12 credit hours of substitute MSN coursework. The college/department determines the undergraduate coursework for which graduate credits may be substituted.

Persons seeking additional information on graduate study in nursing should consult the College of Nursing, Graduate Office at 330-672-2234 or http://www.kent.edu/nursing.
MASTER OF SCIENCE IN NURSING

ADMISSION

In addition to regular application requirements of the university, admission to the Master of Science in Nursing degree program requires the following information:

- Current licensure as a registered nurse by the Ohio Board of Nursing.
- A baccalaureate and/or graduate degree from an accredited university.
- A registered nurse with a baccalaureate degree in a non-nursing field may be eligible for entrance into the master's program pending an interview with selected faculty and acceptable grade point averages (see below).
- An undergraduate grade point average of 3.0 on a 4.0 scale. Applicants with a cumulative GPA below 3.0 may be required to submit scores from the Graduate Record Exam or Miller Analogy Test, and/or provide other evidence that they are prepared to complete coursework successfully at the graduate level. The GRE is required for dual degree applicants regardless of undergraduate cumulative GPA.
- Satisfactory completion of a statistics course. We recommend that the course be completed within five years prior to admission.
- Three letters of reference from individuals who can address the applicant's ability to master graduate study.
- A pre-admission interview, by telephone or in person, with the program director. The interview is used to establish a fit between student goals and the desired College of Nursing graduate program as recommended by the interviewer(s).
- A 300-word essay describing professional goals and reasons for seeking graduate nursing education.

Applications to the College of Nursing for the M.S.N. and/or the dual-degree programs must be received by the deadlines posted on the College of Nursing website at [http://www.kent.edu/nursing/graduate/masters/howtoapply.cfm](http://www.kent.edu/nursing/graduate/masters/howtoapply.cfm) to be reviewed for the next academic term. It is strongly recommended that students begin application as early as possible in the year prior to expected admission. Students submitting application to the dual degree programs follow the process that is described under the Nursing Dual Degree section.

Application is made online at [https://www.admissions.kent.edu/apply](https://www.admissions.kent.edu/apply). Applicants desiring additional information regarding admissions may contact the College of Nursing graduate office, 330-672-2234. Admission is determined by members of a graduate faculty committee who provide a holistic review of the required documents and interview results stated above.

TRANSFER CREDITS

Transfer credits are described elsewhere in this catalog. Students requesting transfer of course hours or evaluation of courses taken elsewhere for equivalency to Kent State courses must submit their request to the College of Nursing outlining the grounds upon which the request is being made and present syllabi, catalog descriptions and other pertinent information to support their petition. Materials are reviewed by faculty to determine eligibility for transfer credits. The College of Nursing may accept up to 12 credit hours of eligible graduate level coursework from an accredited university.

ANNUAL REQUIRED DOCUMENTATION

Once accepted into the program each student is required to present, at the time of entrance and annually thereafter, documentation of licensure as a registered nurse, CPR certification and current immunizations. This information is required by clinical sites as well as for accreditation reviews.

FINANCIAL ASSISTANCE

Federal traineeships for full- and part-time students may be available for financial assistance on an annual basis subject to the amount of federal funds granted to the college. University graduate assistantships and fellowships are also available for students who apply and qualify. Other sources of financial aid are described elsewhere in this catalog.

PROGRAM REQUIREMENTS

Master's program requirements vary by CNS or NP clinical concentration and by the dual-degree or interdisciplinary gerontology programs; however, concentrations typically require between 36-42 semester credit hours. All programs are four to five semesters (two full-time academic years) except for the dual-degree programs (see dual-degree programs). Part-time students typically take three to four years of study to complete their program; the university mandates a six-year time limit in obtaining a master's degree. Under selected circumstances and upon the consent of the advisor, petitions for extensions of an additional one year to completion may be submitted to the Director of Graduate Programs. In most of the curriculum designs, there is a total of 19 semester credits of courses related to the area of clinical concentration, 9 semester credit hours in courses related to the advanced nursing practice role, and 8 to 12 credits in courses related to theory development and research. The thesis is optional. Full- or part-time sample plans for a particular concentration are available from the college or online at [http://www.kent.edu/nursing/](http://www.kent.edu/nursing/).

SAMPLE PROGRAMS

Because many of the plans for programs change for reasons related to certification and the maintenance of updated courses, interested applicants are urged to contact the College of Nursing, Graduate Office, for current samples of desired program plans. All programs contain sufficient clinical hours to meet certification requirements of the specialty. A part-time plan may be developed from the full-time plan by taking fewer courses per semester, over more semesters.
Dual-Degree Programs

Dual-degree programs prepare nurses to be leaders and managers in health care organizations. The Master of Science in Nursing/Master of Business Administration and the Master of Science in Nursing/Master of Public Administration dual-degree coursework is integrated and concurrent. The M.S.N./M.B.A. is 63 credit hours long, while the M.S.N./M.P.A. is 54 credit hours long. Both can be completed in six full-time semesters (three full-time years) or, if part-time, within a 4.5-5 year sequence.

In the M.S.N./M.P.A. program, the M.S.N. (normally 36 hours) contributes 19-31 credits, while the M.P.A. (normally 45 hours) contributes 27-39 credits. In the M.S.N./M.B.A. program, the M.S.N. contributes 18-34 credit hours, while the M.B.A. (normally 60 credits) contributes 39-45 credits.

Although student learning needs and previous coursework may create individual variations in the dual-degree programs, the M.S.N./M.B.A. includes 6-10 hours of management practice, 5-11 hours of nursing theory and research, 34 hours of M.S.N. and M.B.A. core courses, 9 hours of executive modules, and 9 hours of integration and capstone courses, including an internship. The M.S.N./M.P.A. includes 6-10 hours of management practice, 8-14 hours of nursing theory and research, 31 hours of M.S.N. and M.P.A. core courses, 6 hours of internships in health and public administration, and 6 hours of organizational theory and electives.

Each of the dual-degree programs combines the strengths of advanced nursing preparation and research with the management knowledge needed to develop effective organizations. Nursing graduate students, with faculty advice, select their program of study and combine it with the respective management programs. Practicum experiences, an integral part of the programs, provide a combined management and nursing focus. A management internship near the end of the respective dual-degree program enables students to practice new leadership skills within a health care setting.

The dual-degree programs must be completed within six years of the date of matriculation. Under selected circumstances and upon the consent of the advisor, petitions for extensions of time may be submitted to the Director of Graduate Programs.

ADMISSION

For either of the dual-degree programs, applicants submit one set of application materials specifically stating which dual degree they seek. The College of Nursing, after its review, sends the packet of materials to the applicant's respective management program. Each program, nursing or management, makes an independent admission decision and each separately notifies the applicant of their decision.

Post-Master’s Certificates

Post-master’s certificates are offered to nurses with a master’s degree in nursing. These certificates are useful for career mobility or for personal fulfillment. Certificates are offered in all programs as well as in nursing higher education. All certificates are offered on the basis of space and faculty availability. Typically the certificates require 12 to 20 semester hours of courses beyond prerequisites. Each certificate program requires a separate application approval process. Please contact the College of Nursing's graduate office (330-672-8761) for further information.

Doctor of Philosophy

Kent State University and The University of Akron offer a joint program leading to the Ph.D. degree, a single doctoral program with a unified doctoral nursing faculty and doctoral student body. The diploma will be issued from the student's choice of university. Courses will be cross-listed and scheduled at each university.
ADMISSION
Students may apply to the Joint Ph.D. in Nursing Program through Kent State University or The University of Akron. Applications will be reviewed by the joint program admissions committee who use a single set of admission criteria.
Each applicant for admission into the Doctor of Philosophy program must meet the following criteria:

- Evidence of successful completion of a bachelor of science in nursing degree at an accredited program and a master’s degree in nursing or a closely related health field. Applicants with bachelor’s degrees in a closely related health field and master’s degrees in nursing will also be considered.
- A minimum graduate Grade Point Average (GPA) of 3.0 on a 4.0 scale. (Official transcripts must be sent to university graduate school office.)
- Official evidence of acceptable scores on the Graduate Record Examination, taken within 7 years of application.
- Current resume or curriculum vitae.
- Three (3) letters of reference from professionals or professors who can adequately evaluate the applicant, including the applicant’s previous work and potential for success.
- A statement about nursing career interests and goals.
- A statement of nursing research interests.
- A sample of written work. This may include an essay, a term paper, a master’s thesis, professional report or published article.
- Current licensure to practice nursing in the state of Ohio and evidence of professional liability insurance, or legally able to practice nursing in country of origin. Patient care-related research activities and teaching assistant responsibilities often require current registered nurse (RN) licensure, or eligibility for licensure, within the State of Ohio and professional liability or malpractice insurance. Advisors and/or the Directors of the JPDN program will provide clarification about the requirement for current RN licensure in individual circumstances.
- Successful completion of a personal interview with a graduate faculty member conducting research in the area of interest.

Students wishing to transfer into the JPDN must be in good academic standing at their current institution. Transfer credits which may transfer in are determined by the university: at this time a maximum of 12 credits carrying only an A or B grade, and which have been taken within nine years of conferring the doctorate, may be transferred into the JPDN. International students, in addition to the above criteria, must also demonstrate proficiency in written and oral English, and must achieve a minimum score of 550 (paper-based score or equivalent computer-based score) on the Test of English as a Foreign Language (TOEFL). In addition, international students must also comply with university procedures for acceptance as an international student, found elsewhere in this catalog.

PROGRAM REQUIREMENTS
The joint Ph.D. program in nursing is a post-master’s degree requiring 72 semester credit hours including the dissertation. It consists of five components: (1) Nursing Knowledge Component, (2) Research Methods, Designs and Statistics, (3) Cognates, (4) Health Care Policy and (5) Dissertation.

Nursing Knowledge Component
Five required courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>NURS 70710 Akron 8200:810</td>
<td>3</td>
</tr>
<tr>
<td>NURS 70715 Akron 8200:815</td>
<td>3</td>
</tr>
<tr>
<td>NURS 70720 Akron 8200:820</td>
<td>3</td>
</tr>
<tr>
<td>NURS 86091 Akron 8200:840</td>
<td>3</td>
</tr>
<tr>
<td>NURS 87091 Akron 8200:850</td>
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Research Methods, Designs and Statistics
Three required method/design courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NURS 70725 Akron 8200:825</td>
<td>3</td>
</tr>
<tr>
<td>NURS 70730 Akron 8200:830</td>
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One of the following selected with the approval of the student’s advisor:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS 70745 or 70747 Akron 8200:845 or 847</td>
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</tbody>
</table>

Two Statistics courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>NURS 70727 Akron 8200:827</td>
<td>3</td>
</tr>
<tr>
<td>NURS 70737 Akron 8200:837</td>
<td>3</td>
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Cognates
Three required courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Selected with the approval of the student’s academic advisor; 6 hours must be from disciplines outside of nursing and 3 hours may be within or outside of nursing. Cognates support the student’s research interest. Nursing courses: NURS 70746, 70748, 70749. Akron: 8200:846, 848, 849</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Hours................................................................. 9

Health Care Policy
One required course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 70735 Akron 8200:835</td>
<td>3</td>
</tr>
</tbody>
</table>
ACCELERATED PH.D. PROGRAM FOR UNDERGRADUATE AND MASTER’S STUDENTS

Accelerated programs for the Ph.D. are available for students in the Kent State University or The University of Akron baccalaureate programs, or their respective master’s programs, by substituting more advanced courses for lower-level courses. The accelerated program saves students at least one or two semesters of coursework and associated costs. Plans for the baccalaureate undergraduate students include summer clinical externships to better prepare them for RN licensure examination as well as doctoral research foci and practice. Please contact the Director of the Joint Ph.D. in Nursing Program at Kent State for further information.

COOPERATIVE PROGRAMMING

Exchange graduate faculty from a variety of northeastern Ohio universities are available for teaching or thesis/dissertation committee membership for all programs at Kent State, including all nursing programs. In addition, the nursing programs at Kent State and The University of Akron cooperate so that students may take nursing electives or use library and other facilities at either program.

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

General MSN Courses (NURS)

NURS 60041
ADVANCED ASSESSMENT OF ADULT CLIENTS (3)
Assessment, reasoning and decision-making skills for the advanced practice nurse to formulate comprehensive health databases and therapeutic regimens for adult clients. IP permissible.

NURS 60045
PATHOPHYSIOLOGY FOR ADVANCED PRACTICE NURSES (3)
Provides graduate nursing students with a theoretic foundation of human physiology and the phenomena that produce alterations or pathology in human physiologic function; and an understanding of the basis of disease processes. Assumes students have basic understanding of human biology comparable to BSCI 20020, Structure and Function and BSCI 30030, Human Physiology content.

NURS 60199
THESIS (2-6)
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. IP grading; IP permissible. Prerequisite: NURS 60401, NURS 60001 or NURS 60021 and special approval.

NURS 60205
INTRODUCTION TO APPLIED EPIDEMIOLOGY (1)
Seminar on basic epidemiology principles, concepts and procedures for disease surveillance and investigation.
NURS 60206
AMBULATORY DIAGNOSTICS FOR ADVANCED NURSING PRACTICE (2)
Experience for the nurse practitioner student in selection, safe use and interpretation of basic laboratory testing, screening and examinations for client management in primary care. Pre- or Corequisite: NURS 60041.

NURS 60299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: NURS 60199.

NURS 60441
PHARMACOLOGY FOR ADVANCED PRACTICE NURSES (3)
A survey course addressing the fundamental principles of medication prescribing and administration necessary for nurses in advanced practice. Course addresses pharmacodynamics, pharmacokinetics and pharmacotherapeutics.

NURS 60496
INDEPENDENT STUDY (1-4)
Readings and/or research supervised by a member of graduate faculty. Provides students the opportunity to explore a content area in depth. IP permissible. Prerequisite: Special approval.

NURS 60498
RESEARCH (1-15)
Research or individual investigation supervised by a graduate faculty member. Repeat registration permitted. Maximum of 9 credit hours may apply toward degree. Prerequisite: Special approval.

Elective MSN Courses

NURS 61005
NURSING INFORMATICS (3)
Explores the role of informatics in professional nursing practice. Students learn basic information skills including telecommunication and management of nursing data, and apply these skills with clinical nursing health data. Prerequisite: Special approval.

NURS 61095
SPECIAL TOPICS IN NURSING (2-6)
Topics in nursing such as holistic health, selected pathological alterations and recent developments. May include clinical practicum. May be repeated three times with approval for a maximum of 12 credits applied toward the degree. Prerequisite: Graduate standing in nursing.

MSN Concentration Courses

Acute Care Practitioner Courses

NURS 60021
ACUTE CARE FOR NURSE PRACTITIONERS (3)
Emphasizes core principles and competencies that direct the clinical practice of Acute Care Nurse Practitioners. APN Critical and Acute Care concepts are primary didactic objectives of course. Acute Care foundations across continuum of health services highlighted. ACNP student will be instructed and clinically mentored to utilize invasive interventions and procedures. Restorative care focus of ACNP. Prerequisite: NURS 60042.

NURS 60022
ACUTE CARE THERAPEUTICS (3)
Emphasizes clinical understanding, evidenced based selection, monitoring and use of selected pharmacologic agents, parental nutritional products, and hematological agents used in Acute Care, Critical Care, Emergency and Sub-Acute patient populations. Management of fluid and electrolyte disorders, basic toxicology and hospital and community acquired infection related therapies. Prerequisite: NURS 60041.

NURS 60092
PRACTICUM IN ACUTE CARE NURSE PRACTITIONER ROLE (2-6)
Individually planned practicum in which student performs in advanced practice role with an acutely ill population of clients of student’s choice in a selected acute care setting. Students have an opportunity to test effectiveness of various strategies and demonstrate leadership under guidance of an experienced clinical preceptor and NP faculty preceptor.
NURS 60000
ADULT CLINICAL NURSE SPECIALIST I (4)
Introduces students to the Clinical Nurse Specialist (CNS) role in a specialty area (identified as a population, type of problem, setting, type of care or disease/pathology/medical specialty) with an emphasis on the patient sphere. Students have the opportunity to apply and evaluate theory and research in advanced assessment, pathophysiological processes, evidence-based interventions for disease management, and principles of teaching and coaching across the continuum of adult healthcare settings. Focus is on acquiring advanced knowledge in patient diagnosis, management and treatment in a specialized area. Emphasis is on identification and management of symptoms, functional problems and risk behaviors commonly encountered in practice. Students select benchmarks and apply clinical measurement strategies in identifying achievement of clinical outcomes. Comprised of 3 didactic content hours per week and a clinical practicum of 7 hours per week. Prerequisite: NURS 60045.

NURS 60023
ADULT CLINICAL NURSE SPECIALIST II (4)
Further develops the clinical nurse specialist (CNS) role with an emphasis on nursing and organizational spheres. Students use system-level thinking to identify and address nursing practice and organizational problems across the continuum of adult health settings. Essential core content includes research and scientific innovations, nurse sensitive outcomes, change theory, collaborative practice, technology and cost effectiveness. Focus is on developing solutions to problems identified in nursing and organizational spheres. Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week. Prerequisites: NURS 60000 and 60045.

NURS 60035
ADULT CLINICAL NURSE SPECIALIST III (4)
Provides the clinical nurse specialist student the opportunity to apply previously acquired knowledge in advanced nursing practice in the patient, and nurse spheres with special emphasis on the organizational sphere in their clinical focus area. Focus is on role transition, clinical expertise, application and synthesis. Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week. Prerequisite: NURS 60000 and 60023.

NURS 60053
CLINICAL INTERVENTION PHYSIOLOGICAL HEALTH (5)
Clinical reasoning (diagnosis, intervention, outcome evaluation) for Clinical Nurse Specialist students, applied to complex problems of clients and their health behaviors, with emphasis on relationship to physiological status. Clinical sites individualized. Prerequisite: NURS 60045.

NURS 60056
ADULT HEALTH NURSING INTERVENTION/PSYCHOSOCIAL HEALTH (5)
Clinical reasoning applied to complex problems of clients and their health behaviors for Clinical Nurse Specialist students. Includes analysis of socioeconomics, health policies, developmental stages, belief systems and life styles. Clinical sites individualized. Prerequisite: NURS 60045.

NURS 60342
CLINICAL SPECIALIST ADULT NURSING (6)
Individually planned practicum in which the student performs in the role of the clinical specialist with a specified population of adult clients. Prerequisite: NURS 60053 and NURS 60056.

NURS 60042
ADULT PRIMARY HEALTH CARE I (5)
Advanced primary health care for the nurse practitioner student caring for adult clients with common acute and chronic disorders. Emphasis on nursing and health care management within a multidisciplinary context. IP permissible. Prerequisite: NURS 60041, NURS 60206 and NURS 60045.

NURS 60043
ADULT PRIMARY HEALTH CARE II (5)
Advanced primary health care for the nurse practitioner student caring for adult clients with complex acute and chronic disorders. Emphasis on nursing and health care management in a multidisciplinary context. IP permissible. Prerequisite: NURS 60041, NURS 60205, NURS 60206 and NURS 60441.

NURS 60092
NP SUMMER PRACTICUM (2)
The purpose of this course is to provide an individualized, goal-directed clinical practicum primary care. This course addresses professional issues of Nurse Practitioners. In addition, the student will participate in the care of culture diverse population through the Migrant Farmer Camp. Prerequisite: NURS 60041 and NURS 60042.

NURS 60432
ADULT NURSE PRACTITIONER ROLE PRACTICUM (4)
An individually planned practicum in the final semester in which students perform in the role of a nurse practitioner in a selected multidisciplinary primary care context under guidance of an experienced preceptor. IP permissible.
Family Nurse Practitioner Courses

NURS 60006
INTRO TO FAMILY ASSESSMENT AND COUNSELING IN NURSING (3)
Study of theoretical approaches to counseling interventions with families and couples. Current status of research and evaluation of care is examined.

NURS 60042
ADULT PRIMARY HEALTH CARE I (5)
Advanced primary health care for the nurse practitioner student caring for adult clients with common acute and chronic disorders. Emphasis on nursing and health care management within a multidisciplinary context. IP permissible. Prerequisite: NURS 60041, and NURS 60045 and NURS 60206.

NURS 60043
ADULT PRIMARY HEALTH CARE II (5)
Advanced primary health care for the nurse practitioner student caring for adult clients with complex acute and chronic disorders. Emphasis on nursing and health care management in a multidisciplinary context. IP permissible. Prerequisite: NURS 60041, NURS 60205, NURS 60206 and NURS 60441.

NURS 60092
NP SUMMER PRACTICUM (2)
Course provides an individualized, goal directed primary care clinical practicum and addresses professional issues of Nurse Practitioners. In addition, the student will participate in the care of culture diverse population through the Migrant Farmer Camp. Prerequisite: NURS 60041 and 60042.

NURS 61021
ADVANCED PEDIATRIC ASSESSMENT AND HEALTH PROMOTION (5)
Clinical course, initial Pediatric Nurse Practitioner course emphasizes primary care of infants, children and teens with a holistic approach to well child development, health promotion, illness prevention, and management of developmental challenges with a family centered approach. Assessment & lab on first 4 Thursdays of semester. Pre/corequisite: NURS 60101.

NURS 61022
PRIMARY CARE ACUTE ILL CHILD (5)
Clinical course emphasizing development of competent clinical advanced practice nursing skills for, and comprehensive knowledge of, acute physical and psychosocial illnesses in children including diagnoses, management and evaluation in primary care. Clinical is in acute primary care setting. Prerequisite: NURS 61021 and pre/corequisite: NURS 60045.

Geriatric Nurse Practitioner Courses

NURS 60082
GERIATRIC PRIMARY CARE 1 (5)
Major clinical course which provides the opportunity for the development of those cognitive and perceptual skills needed to provide primary health care services to older adults in ambulatory care settings. Prerequisites: NURS 60041, NURS 60206, BSCI 60446

NURS 60083
GERIATRIC PRIMARY CARE 2 (5)
Focus on chronic and acute health problems common in geriatric patients. Provides the opportunity for the development of cognitive, and perceptual skills needed to provide primary health care services to older adults in ambulatory and community care settings. Prerequisites: NURS 60082, NURS 60192

NURS 60204
HEALTH CARE ISSUES OF AGING: NURSING CONCEPTS (3)
This course focuses on the theory and research related to biophysiological, psychosocial, cultural, ethical, developmental, environmental and policy factors related to aging and health. Students gain a basic understanding of the multiple factors related to the functional health patterns among an older adult population; this knowledge can be applied by professionals in research and practice with aging adults in a variety of health care settings. The course is open to graduate students in any discipline and is required for students in the nursing of the adult graduate program.

NURS 60492
FAMILY PRIMARY CARE NP ROLE PRACTICUM: OB/GYN AND PEDIATRICS (4)
The content of the course is organized around common health issues, needs and problems of women and children. Additional focus will be given to the health promotion and disease detection as related to pediatric primary care, preconception, pregnancy, and post-partum patients. Prerequisite: NURS 60043.
NURS 60192
ADULT GERIATRIC NP PRACTICUM (2)
Course provides individualized, goal directed clinical practicum in geriatric primary care. Addresses professional issues of geriatric nurse practitioners. Additionally, student will participate in comprehensive geriatric assessment setting. Prerequisites: NURS 60082.

NURS 60292
ADULT GERIATRIC PRIMARY CARE NP ROLE PRACTICUM (4)
An individually planned practicum in the final semester in which students test the effectiveness of various strategies inherent within the role of advanced practice nurse practitioner, and to demonstrate leadership through role implementation under the guidance of an experience preceptor. Prerequisites: NURS 60041, NURS 60082, NURS 60083, NURS 60192.

Gerontological Clinical Nurse Specialist Courses

NURS 60303
GERONTOLOGICAL CNS I (4)
Introduces students to the Clinical Nurse Specialist (CNS) role in a specialty area with an emphasis on the patient sphere. Students have the opportunity to apply and evaluate theory and research in advanced assessment, pathophysiological processes, evidence-based interventions for disease management, and principles of teaching and coaching across the continuum of gerontological healthcare settings. The focus of the course is on acquiring advanced knowledge in patient diagnosis, management and treatment in care of the older adult. Emphasis is on identification and management of symptoms, functional problems, social, psychological, legal, economic issues facing the older adult and risk behaviors commonly encountered in practice. Students select benchmarks and apply clinical measurement strategies in identifying achievement of clinical outcomes. Course comprises three didactic contact hours and seven clinical hours per week. Pre/corequisites: NURS 60101 and 60041 and 60045 and 60204.

NURS 60304
GERONTOLOGICAL CLINICAL NURSE SPECIALIST II (4)
Provides the Clinical Nurse Specialist student the opportunity to apply previously acquired knowledge in advanced gerontological nursing practice in the patient and nurse spheres with special emphasis on the organizational sphere. The focus of the course is on role transition, clinical expertise, application and synthesis. Course comprises two didactic content hours and 14 clinical hours per week. Prerequisites: NURS 60303.

NURS 60305
GERONTOLOGICAL CLINICAL NURSE SPECIALIST III (4)
Provides the clinical nurse specialist student the opportunity to apply previously acquired knowledge in advanced gerontological nursing practice in the patient and nurse spheres with special emphasis on the organizational sphere. The focus of the course is on role transition, clinical expertise, application and synthesis. Course comprises two didactic content hours and 14 clinical hours per week. Prerequisites: NURS 60304.

Nursing and Health Care Management Courses

BAD 64270
ORGANIZATIONAL ANALYSIS AND DESIGN (3)
Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze design and solve organizational problems within the work environment.

NURS 50057 - CASE MANAGEMENT IN HEALTHCARE AGENCIES (2 OR 3)
Course describes roles of institutional, community and insurance-based case managers identifies mechanisms to establish case management systems and develops communication, clinical evaluation and financial management skills.

NURS 60313
ANALYSIS OF HEALTH CARE ORGANIZATIONS (3)
An in-depth look at organizational theory and behavior in hospitals and health agencies. Current factions in the environment organizational design health policy and their influence on patient care processes will be studied.

NURS 60314
INTERNSHIP IN HEALTH CARE MANAGEMENT (3)
Provides an opportunity for students to gain practical experience and be exposed to processes of strategy creation, policy development, decision-making and patient care with the health care industry. IP permissible. Prerequisite: NURS 65092, BAD 64271, BAD 64041.

NURS 60392
INTERNSHIP IN HEALTH AND PUBLIC ADMINISTRATION (3)
Provides an opportunity for students to gain practical experience and be exposed to processes of public decision-making and policy development within the health care sector. Prerequisite: Enrollment in M.S.N./M.P.A. program and permission.
NURS 65092
PRACTICUM: NURSING AND HEALTH CARE MANAGEMENT I (3-5)
The required first of two capstone management practicums in a health care agency for nurses. Students integrate and apply management knowledge and are coached in professional roles by established nursing and health care management leaders. IP permissible. Prior to registration for this course, students must complete 18-25 credit hours of combined NURS, BAD and PADM courses before taking this course. Prerequisite: special approval.

NURS 65192
PRACTICUM: NURSING AND HEALTH CARE MANAGEMENT II (3-5)
The second of two capstone management practicums in a health care agency for nurses. Students further integrate and apply management knowledge and their professional roles, coached by established nursing and health care management leaders. One credit hour managerial topics. Prerequisite: NURS 65092.

Pediatric Nurse Practitioner or Clinical Nurse Specialist Courses

NURS 60037
PEDIATRIC NURSE PRACTITIONER CLINICAL PRACTICUM (2-4)
Clinical focus will be on advanced nursing practice in the primary care of children. Students will improve on physical assessment skills, diagnostic reasoning and critical thinking through practice. IP permissible.

NURS 60074
PEDIATRIC NURSE PRACTITIONER CAPSTONE (4)
Focus on synthesizing pediatric nurse practitioner knowledge and skills to provide expert care to a selected population of pediatric clients.

NURS 60075
PEDIATRIC CLINICAL NURSE SPECIALIST CAPSTONE (4)
Focus on synthesizing clinical nurse specialist knowledge and skills to provide expert care to a selected population of pediatric clients. Prerequisite: NURS 60031 and NURS 60032 and NURS 60033.

NURS 60352
CLINICAL SPECIALIZATION IN PARENT-CHILD NURSING (4)
The course is an individually planned practicum in which the student performs in the role of clinical specialist with a specified population of parents or children of the student's selection. Prerequisite: NURS 60331.

NURS 61021
ADVANCED PEDIATRIC ASSESSMENT AND HEALTH PROMOTION (5)
Initial pediatric course emphasizes primary care of infants, children and teens with a holistic approach to well child development, health promotion, illness prevention, and management of developmental challenges with a family centered approach. Assessment and lab conducted on first four Thursdays of the semester. Clinicals will be held at primary care sites. Pre or corequisite: NURS 60101.

NURS 61022
PRIMARY CARE OF ACUTELY ILL CHILDREN (5)
Clinical course emphasizing development of competent clinical advanced practice nursing skills for, and comprehensive knowledge of, acute physical and psychosocial illnesses in children including diagnoses, management and evaluation in primary care. Clinicals will be held in acute primary care settings. Prerequisite: NURS 61021 and pre/corequisite: NURS 60045.

NURS 61023
CARE OF ACUTELY ILL CHILDREN (5)
Clinical course focuses on the complex physical and psychosocial needs of hospitalized acutely ill children and their families. Analysis and synthesis of holistic assessment serve as conceptual framework for advanced practice nursing interventions. Clinical sites are individualized. Prerequisite: NURS 61021 and pre/corequisite: NURS 60045.

NURS 61024
CARE OF CHRONICALLY ILL CHILDREN (4)
Clinical course emphasizes development of competent clinical advanced practice nursing skills for, and comprehensive knowledge of, chronic illnesses/conditions in children, including diagnoses, management and evaluation in primary care. Concepts of chronic illness and interventions for families are explored. Clinical sites focus on chronic illnesses. Prerequisite: Graduate standing, NURS 61022.

NURS 62021
ADVANCED PEDIATRIC ASSESSMENT HEALTH PROMOTION FOR PSYCHIATRIC MENTAL HEALTH (3)
Initial pediatric course emphasizes primary care of infants, children and teens with a holistic approach to well child development, health promotion, illness prevention and management of developmental challenges with a family centered approach. Assessment lab on first 4 Thursdays of the semester. Pre- or Corequisite: NURS 60101.
Nursing

Psychiatric Mental Health - Adult Clinical Nurse Specialist or Nurse Practitioner Courses

NURS 60001
INDIVIDUAL PSYCHOTHERAPY IN NURSING (3)
Study of theoretical approaches to advanced psychiatric mental health nursing practice with individuals and families who are experiencing identified mental health problems. Clinical interviewing and assessment skills related to individuals and families are emphasized, as are basic elements related to individual and family/couple psychotherapy. Pre- or corequisite: NURS 60201.

NURS 60002
FAMILY PSYCHOTHERAPY IN NURSING (3)
Study of the theoretical approaches to psychiatric mental health advanced practice nursing with groups, organizations and communities. Emphasis is on learning group psychotherapy, consultation and liaison skills. Students will develop skills in performing a community needs assessment. Prerequisite: NURS 60001.

NURS 60003
CONSULTATION AND LIAISON PSYCHIATRIC NURSING (2)
Study of needs assessment, program development and evaluation research; consultation with professionals and nonprofessionals, and liaison nursing. Prerequisite: NURS 60001 and NURS 60002, and corequisite NURS 66692.

NURS 60201
THEORIES FOR ADVANCED PSYCHIATRIC MENTAL HEALTH NURSING (3)
Major theories of historical importance to psychiatric nursing are studied. Significant relationships between various theories are examined and related to psychiatric nursing practice. Only students admitted to the Psychiatric Mental Health NP or CNS concentrations or post-master’s certificate programs may register. Prerequisite: Nursing (NURS) major.

NURS 60332
CLINICAL SPECIALIZATION IN PSYCHIATRIC MENTAL HEALTH NURSING (4)
Practicum to test out role of clinical specialist in psychiatric mental health nursing in a setting selected by student and preceptor. Prerequisite: NURS 65592.

NURS 60442
PSYCHOPHARMACOLOGY FOR ADVANCED HEALTHCARE PRACTICE (2)
Psychopharmacology for advanced practice addresses the fundamental principles of psychopharmacology necessary for health practitioners in advanced adult/child/geriatric psychiatric practice; includes basic pharmacokinetics and pharmacodynamic principles. Prerequisite: special approval.

NURS 61003
PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS (4)
Focuses on the etiology and psychodynamics of severe psychiatric disorders. Addresses fundamental principles underlying psychopharmacology related to these disorders.

NURS 64492
PSYCHIATRIC MENTAL HEALTH NURSING PRACTICUM I (4)
Clinical course emphasizes mental health assessment and individual and group psychotherapy with the chronically and acutely mentally ill. Pre- or corequisite: NURS 60001 or 60004; and NURS 61003 or 61006; and NURS 60206.

NURS 65592
PSYCHIATRIC MENTAL HEALTH NURSING PRACTICUM II (4)
Practicum continues to build knowledge and skills in mental health assessment, individual psychotherapy, and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. Learning group, family, and couples psychotherapy is emphasized. Group supervision is provided. Prerequisite: NURS 60002 or 60005.

NURS 66692
PSYCHIATRIC MENTAL HEALTH NURSING PRACTICUM III (2)
Clinical course emphasizes consultation and liaison activities with agencies that serve the acutely and chronically ill. Pre- or corequisite: NURS 60003.

Psychiatric Mental Health Adolescent Clinical Nurse Specialist Courses

NURS 60004
INDIVIDUAL PSYCHOTHERAPY IN NURSING, CHILD & ADOLESCENT FOCUS (3)
Study of theoretical approaches to advanced psychiatric mental health nursing practice with children, adolescents and families who are experiencing identified mental health problems. Clinical interviewing and assessment skills related to individuals and families are emphasized, as are basic elements related to individual and family/couple psychotherapy. Pre- or Corequisite: NURS 60208.
NURS 60005
FAMILY AND GROUP PSYCHOTHERAPY IN NURSING, CHILD & ADOLESCENT FOCUS (3)
Study of the theoretical approaches to psychiatric mental health advanced practice nursing with groups, organizations and communities. Emphasis is on learning group psychotherapy with adolescents, consultation and liaison skills. Students will develop skills in performing a community needs assessment. Prerequisites: NURS 60004.

NURS 60073
WOMEN’S HEALTH CLINICAL NURSE SPECIALIST CAPSTONE (4)
Focus on synthesizing women’s health clinical nurse specialist knowledge and skills to provide expert care to a selected population of women's health clients. Prerequisite: NURS 60031 and NURS 60032 and NURS 60033 and NURS 60431.

NURS 60080
HEALTH CARE OF THE WELL WOMAN (3)
Development of foundational basis for competent clinical practice of women within a healthcare setting. Clinical assessment skills are emphasized and the student is expected to concentrate efforts in attainment of and safe execution of skills pertinent to the care of the well woman. The course also focuses on the study of selected theories and models used by professional nurses when working with adolescent and adult women. Emphasis is placed on fertility control and is provided through individually planned experiences with faculty who are serving as primary care providers in family planning and gynecology care settings. The course will also emphasize the coordination of care needed within the clinical setting through the diagnostic, planning and evaluational components pertinent to clinical practice. Prerequisites: NURS 60101

NURS 60081
HEALTH CARE OF THE REPRODUCTIVE AGE WOMAN (3)
Application of nursing theory, practice and research by advanced practice nurses in the promotion of health and wellness of women during the reproductive years. The emphasis is on normal pregnancy focusing on prevention and health promotion as well as the management of deviations from normal. Clinical assessment skills, including diagnosis, nursing intervention, treatment, and evaluation, will be emphasized and the student is expected to concentrate efforts in attainment and safe execution of skills pertinent to the women during the reproductive years. Prerequisites: NURS 60041, NURS 60080

Women's Health Nurse Practitioner Courses

NURS 60034
PCN NURSE PRACTITIONER MASTERY PRACTICUM (2)
Emphasis will be on refinement of nurse practitioner skills and expansion of knowledge base in selected areas of concentration. Prerequisite: NURS 60031.

NURS 60036
WOMEN’S HEALTH NURSE PRACTITIONER CLINICAL PRACTICUM (2-4)
Emphasis will be placed on refinement of women's health nurse practitioner skills and expansion of knowledge base related to women's health in selected areas of concentration. IP permissible. Prerequisite: NURS 60081.

NURS 60050
PHARMACOLOGY FOR WOMEN’S HEALTH NURSE PRACTITIONERS (3)
Web-based course focuses on pharmacology related specifically to women throughout their lifespan. Prepares Advanced Nurse Practitioners to meet the pharmacological healthcare needs of women in primary healthcare settings. Prerequisite: NURS 60441 and 60080.

NURS 60072
WOMEN’S HEALTH NURSE PRACTITIONER CAPSTONE (4)
Focus is on synthesizing women's health nurse practitioner knowledge and skills to provide expert care to a selected population of women's health clients. Prerequisites: NURS 60085.
**Nursing Education Certificate Courses**

**NURS 60601**  
**NURSING CURRICULUM AND INSTRUCTION IN HIGHER EDUCATION (3)**  
Web-based course for master’s-enrolled or master’s-prepared nurses to teach content and facilitate advanced critical thinking in the areas of curriculum planning, design, development, implementation and evaluation in higher education nursing. Prerequisite: Special approval of instructor.

**NURS 60602**  
**ROLES AND EVALUATION FOR NURSING CURRICULUMS IN HIGHER EDUCATION (3)**  
Web-based course for master’s-enrolled or master’s-prepared nurses focusing on content, theory, history and techniques of evaluation for nursing educational programs. Faculty and student roles, and legal and ethical issues are also addressed. Prerequisite: NURS 60601.

**NURS 60692**  
**PRACTICUM IN NURSING HIGHER EDUCATION CURRICULUM (2-4)**  
Curriculum design, implementation and teaching experience with nursing master teacher in higher education undergraduate or graduate nursing courses. Prerequisite: NURS 60601 and NURS 60602.

**Ph.D. Kent-Akron Joint Program Courses**

**NURS 70705**  
**FOUNDATIONS OF RESEARCH METHODS IN NURSING (3)**  
Examines diverse paradigms and research methods as the foundation for scholarly inquiry in nursing knowledge development. Students begin building a foundation for focused intellectual inquiry in a substantive area of nursing. Pre- or corequisite: NURS 70710.

**NURS 70710**  
**HISTORY AND PHILOSOPHY OF NURSING SCIENCE (3)**  
This course examines the nature of metaphysics and epistemology and the influence of contemporary Eastern and Western philosophies on the developing epistemology of disciplinary nursing knowledge. Akron 8200:810. Prerequisite: permission.

**NURS 70715**  
**THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING (3)**  
This course examines strategies for theory development including logical, empirical, deductive and inductive approaches. Emphasis will be on elements and strategies used in theory building. Akron 8200:815. Prerequisite: NURS 70710 and permission.

**NURS 70720**  
**INTRODUCTION TO NURSING KNOWLEDGE DOMAINS (3)**  
Introductory seminar analyzing selected theoretical and methodological approaches to knowledge development in nursing. Emphasis on critical analysis of knowledge in areas of special interest. Akron 8200:820 Prerequisite: Doctoral standing or special approval from department. Pre- or corequisite: NURS 70715.

**NURS 70725**  
**QUANTITATIVE RESEARCH METHODS IN NURSING (3)**  
Extends students’ knowledge of the theory and practice of quantitative research in nursing. Focus is on the major types of quantitative design in nursing science. Theoretical and procedural issues related to design, measurement and data management with a substantive area of nursing inquiry are emphasized. Akron 8200:825. Pre- or corequisites: NURS 70705 and 70727.

**NURS 70727**  
**ADVANCED HEALTH CARE STATISTICS I (3)**  
Comprehension of bivariate and multivariate descriptive and inferential statistics designed for nurse researchers. Applications to research problems in nursing. Akron 8200:827. Prerequisite: Master’s-level statistics, including descriptive and inferential statistics.

**NURS 70730**  
**QUALITATIVE RESEARCH METHODS IN NURSING (3)**  
Selected qualitative research methods used to study nursing phenomena. Philosophical bases; design, data collection and analysis; evaluation of rigor; and ethical issues for major qualitative methods will be analyzed with regard to nursing phenomena. Akron 8200:830.

**NURS 70735**  
**NURSING AND HEALTH CARE POLICY (3)**  
Critical examination of theories and processes of formulating state/national health care policy. Focus on health issues, the political and legislative process, and contemporary policy dilemmas. Akron 8200:835. Prerequisite: Special approval.
NURS 70737
ADVANCED HEALTH CARE STATISTICS II (3)
Application of bivariate and multivariate descriptive and inferential statistics to research problems in nursing. Akron: 8200:837. Prerequisite: NURS 70727. Special approval from department.

NURS 70745
ADVANCED NURSING RESEARCH: QUANTITATIVE METHODS (3)
Focuses on integration and application of components of quantitative research design in nursing through application of multivariate design principles to existing data sets. Advanced topics in methods, statistics and measurement are addressed. Prerequisites: NURS 70725 and 70727 pre- or corequisite: NURS 70737.

NURS 70746
ADVANCED METHODS FOR NURSING RESEARCH: MEASUREMENT IN NURSING (3)
Theories and concepts related to measurement and nursing research including techniques for construction, testing and refining of instruments with assessment of reliability and validity. Akron 8200:846. Prerequisite: NURS 70725, NURS 70720 and doctoral standing or special approval from department.

NURS 70747
ADVANCED METHODS FOR NURSING RESEARCH: APPLICATION OF QUALITATIVE METHODS (3)
Theory, data collection and analysis used in qualitative nursing research with a focus on phenomenology, grounded theory and ethnography. Akron 8200:847. Prerequisite: NURS 70730, NURS 70720, NURS 70725 and doctoral standing or permission.

NURS 70748
ADVANCED METHODS FOR NURSING RESEARCH: PROGRAM EVALUATION IN NURSING (3)
Seminar and lecture: Analysis of theories and models of program evaluation and their relationships to designs, processes, techniques and outcomes in nursing-related evaluations. Akron 8200:848. Prerequisite: NURS 70720 and doctoral standing or special approval from department.

NURS 70749
ADVANCED METHODS FOR NURSING RESEARCH: GRANT DEVELOPMENT AND FUNDING (3)
Advanced seminar on critical analysis of proposal and grant development, funding, peer review and advocacy process with emphasis on the development of a grant proposal. Akron 8200:849. Prerequisite: NURS 70720 and doctoral standing or special approval from department.

NURS 70792
FIELD EXPERIENCE IN NURSING (1-12)

NURS 70795
SPECIAL TOPICS IN NURSING (2-6)
Study of important topics in nursing practice, research or the profession. Offering in response to existing interests and opportunities. Akron 8200:895.

NURS 70796
INDIVIDUAL INVESTIGATION IN NURSING (1-3)
Individual enrollment for independent study in nursing carried out by student under supervision of a doctoral faculty member. Akron 8200:896.

NURS 70798
RESEARCH IN NURSING (1-15)
Research carried out by a student under faculty supervision. In-depth inquiry should result in a paper or appropriate product. Akron 8200:898.

NURS 80199
DISSERTATION I (15)
Independent doctoral research for the dissertation under faculty supervision. Registration of at least two semesters is required, continuing until completion of 30 credit hours. Akron 8200:899. Prerequisite: Admission to doctoral candidacy.

NURS 80299
DISSERTATION II (1 OR 15)
Continuing registration of research, after initial 30 hours of NURS 80199 completed.
NURS 86091
VARIABLE CONTENT SEMINAR IN NURSING: NURSING SCIENCE I (3)
Seminar on in-depth analysis, synthesis and evaluation of one substantive area within nursing and related disciplines focusing on the generation and dissemination of nursing knowledge. Akron 8200:840. Prerequisite: NURS 70720.

NURS 86191
VARIABLE CONTENT SEMINAR IN NURSING: NURSING SCIENCE I: FAMILY THEORIES AND NURSING RESEARCH (3)
Seminar on in-depth analysis, synthesis and evaluation of one substantive area within nursing and related disciplines focusing on the generation and dissemination of nursing knowledge. Akron 8200:840. Prerequisite: NURS 70720.

NURS 86291
VARIABLE CONTENT SEMINAR IN NURSING: NURSING SCIENCE I: NURSING AND WOMEN’S HEALTH (3)
Seminar: Analysis, synthesis and evaluation of theories and research in women’s health across the life span as consumers and providers in nursing and health care. Akron 8200:840. Prerequisite: NURS 70720.

NURS 86391
VARIABLE CONTENT SEMINAR IN NURSING: NURSING SCIENCE I: STRESS, COPING AND SOCIAL SUPPORT AND NURSING RESEARCH (3)

NURS 87091
VARIABLE CONTENT SEMINAR IN NURSING: NURSING SCIENCE II (3)
In-depth focused analysis and synthesis of a substantive area relevant to the student’s specific research focus, culminating in a written product for dissemination. Akron 8200:850. Prerequisite: NURS 86091.
The College of Technology offers a program of graduate study leading to the Master of Technology degree. The program, which provides advanced technical and management skills, meets the needs of the technical workforce in industry and business. It also offers students flexibility in course selection to meet the diverse demands of careers in rapidly changing fields in a technology-based economy. Under established university policy for institutional collaboration and partnerships, the Master of Technology degree program provides a concurrent degree under a bilateral memorandum of agreement with various international institutions. Information about the College and its programs is available at http://www.kent.edu/tech.

The Master of Technology degree program is designed to provide students with a graduate education with advanced and comprehensive technical management skills to support, analyze, modify and manage complex technical systems in the contemporary knowledge economy. Specific objectives of the program are to:

- Enhance proficiency in planning, organizing, decision making and management of technology and complex systems.
- Understand production and process control to improve quality, reliability and productivity in business, industry and government sectors.
- Apply and control the use of high technologies to improve the efficiency and effectiveness of productive processes and systems in the workforce.
- Enhance problem-solving and creative-thinking skills in interdisciplinary settings.
- Contribute to applied research, development and outreach activities to foster economic development.

ADMISSION

While an undergraduate degree in a technology discipline is not required for admission, a background in a technical area is preferred. Students must satisfy prerequisites for all courses in the program, either by showing equivalency or by taking the prerequisite courses, with credits not applying to the graduate program.

In addition to the regular application requirements of the university, consideration for admission to the program requires:

- A minimum composite grade point average of 2.75 on a 4.0 scale for all undergraduate work attempted.
- Submission of three letters of recommendation from professional references; at least one of the letters should be from a former/present teacher.
- Submission of a statement describing career objectives and how this program will help the student further his/her professional career.

An admissions committee of the Graduate Faculty will review all applications. Students with perceived deficiencies based upon undergraduate preparation and/or GRE scores may be admitted conditionally, which may include a requirement of completion of appropriate undergraduate coursework that will not count toward the master's degree.
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PROGRAM REQUIREMENTS
Students admitted to the MT program, in consultation with a graduate technology faculty advisor, will develop a program of studies for degree completion that will include a list of proposed courses to supplement the core requirements. In addition to meeting the general requirements of the university, students working toward the Master of Technology degree must meet the following requirements:

Core Courses Hours
TECH 50000.....................................................3
TECH 60000.....................................................3
TECH 60078.....................................................3

Other Requirements:

- Student selecting the thesis option will complete TECH 61199 (6 credits).
- Total of 32 graduate credit hours.
- Minimum of 16 hours at the 60000 level.
- Minimum of 16 hours in graduate technology courses.
- Maximum of 4 graduate workshop credits may be used toward graduation. Any exceptions must be approved by the dean of the College of Technology.

Courses (TECH)
The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.

TECH 50000
QUALITY STANDARDS (3)
This course introduces students to issues in quality standards, quality assurance and statistical inference in applied technology and process control. Topics include systems reliability, quality control, SPC, control; charts, principles and methods of statistical analysis and prediction, and hypothesis testing.

TECH 51001
METHODS IN TECHNOLOGY EDUCATION (3)
Methods of teaching curriculum development and evaluation that are unique to the profession of technology education.

TECH 51002
ORGANIZATION IN TECHNOLOGY EDUCATION (3)
Principles and practices involved in curriculum and facility design appropriate for technology education, including equipment maintenance.

TECH 51051
FOUNDATIONS AND CONTEMPORARY THEORIES OF TECHNOLOGY EDUCATION (3)
This course explores the history, contemporary theories and practices of technology education. Included are site visits to exemplary technology education programs.

TECH 51052
TECHNOLOGY EDUCATION FOR ELEMENTARY SCHOOL (3)
Using discussion, laboratory experience and field experiences, this course explores technology education as it relates to all content areas of the K-12 curriculum. Special Fee: $20 per semester (subject to change).

TECH 51055
INDUSTRIAL PRACTICE (1-4)
Practical experience in industry of cooperative work study nature. Not available for persons who have taken TECH 33056. Prerequisite: special approval.

TECH 51093
VARIABLE TITLE WORKSHOP IN TECHNOLOGY (1-3)
Specialized instructional unit oriented toward the application of current technology concepts. Repeat registration permitted. S/U grading.

TECH 52200
RADIATION PROCESSING OF MATERIALS (3)
Description of the radiation sources used in radiation technology and the study of the effects of electrons and gamma rays on materials of technological interest. Experiments deal with the effects of radiation in different materials. Prerequisite: PHY 13002 or PHY 12202; and MATH 12002 or MATH 19002; and TECH 32100 and TECH 33363.

TECH 53026
MICROPROCESSOR SYSTEMS (4)
Introduction to the architecture, operation, and applications of an advanced microprocessor, focusing on assembly language programming and interfacing of standard programmable peripherals. Prerequisite: TECH 33222, TECH 46330. Special fee: $30.00 per semester (subject to change).
TECH 53221  
DIGITAL CONTROL SYSTEMS AND INSTRUMENTATION (4)  
Focuses on applications of instrumentation and control systems using computers and micro-controllers including sensors, transducers, instruments, data acquisition boards, software programs, signal conditioning, and transmission methods. Prerequisite: TECH 33223, TECH 4/53026. Special fee: $20.00 per semester (subject to change).

TECH 53550  
COMPUTER-AIDED MANUFACTURING (3)  
The application of computers to the preparation of machine tool control programs, rapid prototyping and robotic control. Lecture 2 hours, laboratory 2 hours weekly. Prerequisite: TECH 23581. Special fee: $60 per semester (subject to change).

TECH 53700  
COMPUTER INTEGRATED MANUFACTURING (3)  
The study of the computer integrated manufacturing as system control, product design, machining, assembly, material logistics, quality, information usage and system integration relates to it. Prerequisite: TECH 31020 and 53550. Special fee: $60 per semester (subject to change).

TECH 53800  
APPLIED ENGINEERING TECHNOLOGY SEMINAR (2)  
An individual or group project involving the solution of a problem through the application of technology. Prerequisite: special approval. Special fee: $40 per semester (subject to change).

TECH 55150  
APPLIED FLIGHT DYNAMICS I (3)  
A course relating aircraft, engine and propeller performance to the overall flight performance of the typical light airplane. Includes flight test project participation. Special course fee $10 cr./Hr. Subject to change. Prerequisite: MATH 11012 or 12002, PHY 13001/13002 or PHY 23101/23102 and TECH 15000. Special fee: $20 per semester (subject to change).

TECH 55350  
AVIONICS (3)  
A descriptive course that covers electronic systems in aviation, particularly from the standpoint of aircraft equipment, its operational theory, and practical use by the pilot. Prerequisite: PHY 13001/13002 or 23101/23102, TECH 15000, TECH 21021.

TECH 55551  
INTRODUCTION TO NANOTECHNOLOGY (3)  
Provides an indepth overview of the fundamentals of nanoscience and nanotechnology. Includes surveys of developments within the breadth of the nanotechnology in various fields such as electronics, materials, energy, and biomedical sciences, etc. (Spring 2010 offering)

TECH 55700  
 AIRCRAFT DESIGN (3)  
Preliminary design of a fixed-wing aircraft for a specific mission; weight estimates; wing platform, airfoil and propulsion selection; airframe configuration and layout design; performance analysis; and overall systems integration. Special course fee $16.66 cr./Hr. Subject to change. Prerequisite: PHY 13001/13002 or PHY 23101/23102, TECH 15000 and TECH 21021 or permission. Prerequisites: TECH 45030, 45150, 45350 or permission.

TECH 55791  
AVIATION SECURITY AND POLICY SEMINAR (3)  
Analytical review of policies, practices, procedures and regulatory provisions designed to create and enhance security in civil aviation with a special emphasis on the impact of emerging technologies on aviation security.

TECH 56321  
WEB DATABASE INTEGRATION (3)  
Laboratory course focused on integrating data sources into web sites. Current topics include server-side processing principles, web forms, database programming objects and Structured Query Language. Prerequisite: COMT 21005 and COMT 21036.

TECH 56330  
VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY (3)  
This course will cover the concepts of object-oriented, event-driven programming with hands-on application of those concepts to solve engineering-related problems, utilizing the current version of Visual Basic. Prerequisite: TECH 10001, MATH 11011 and PHY 13001, and special approval.

TECH 60000  
PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT (3)  
The planning, organizing, directing and controlling of company technology resources for relatively short-term objectives. Students will also learn to make application of current projects.

TECH 60001  
QUANTITATIVE METHODS IN TECHNOLOGY (3)  
A course on the use of analytical modeling and computer simulation techniques for the analysis, reformulation, validation and graphic presentation of data in engineering and technology applications. Prerequisite: MATH 12002 or equivalent.

TECH 60078  
RESEARCH IN TECHNOLOGY (3)  
Research techniques for the technologist. Methods for designing, conducting, analyzing and interpreting results of technological research.
TECH 61000
INDUSTRIAL TECHNOLOGY EDUCATION (3)
This course provides students with an understanding of the rationale and issues related to developing the industrial technology education program.

TECH 61001
ORGANIZATION AND ADMINISTRATION OF INDUSTRIAL EDUCATION (2)
Strategies for organizing and administering industrial education laboratory facilities to accommodate contemporary curriculum and instructional techniques.

TECH 61006
INSTRUCTIONAL STRATEGIES FOR THE MULTIPLE ACTIVITY LABORATORY (2)
Extensive participation and practice with instructional strategies for the multiple activity industrial arts laboratory. Survey of instructional styles, classroom and laboratory settings, and student sub-populations.

TECH 61051
TECHNOLOGY EDUCATION FOR THE ELEMENTARY SCHOOL (2)
The study of nature and purposes of technology education for elementary school and its relationships to general education.

TECH 61091
AEROSPACE SEMINAR (1)
Discussions of selected technical topics related to aerospace technology. Repeat registration permitted for three semesters maximum.

TECH 61095
SPECIAL TOPICS IN TECHNOLOGY (1-4)
Study of special topics in technology, including technological tours offered irregularly as interest and opportunities permit. When offered, contact School of Technology office for details.

TECH 61098
RESEARCH (1-15)
Research or individual investigation for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if department approves. Repeat registration permitted.

TECH 61199
THESIS I (2-6)
Thesis option student must register for a total of 6 hours, 2 to 6 in a single semester, or to be distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Advisor's approval.

TECH 61299
THESIS II (2)
Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: TECH 61199.

TECH 62001
CONTROL THEORY (3)
Automatic control of electromechanical, pneumatic and hydraulic systems using mathematical models. Discussion of system stability and classical root locus. Prerequisite: PHY 32551.

TECH 62301
ELECTRONIC COMMUNICATION SYSTEM (3)
Course examines the key concepts in electronic communication and teaches basic communication tools, AM and FM modulation/transmission, communication techniques, network and digital communication, wave propagation, antennas, waveguides, radar, laser, microwave. Prerequisite: Instructor’s special approval. (Spring 2010 offering)

TECH 62302
FIBER OPTICS (3)
Course examines optical fibers, Maxwell's equation, Raman and Brillouin scattering, analog/digital and optical transmitters/receivers/amplifiers, RZ, NRZ modulation codes, dispersion management, coherent lightwave systems, multichannel systems. Prerequisite: TECH 33223 and instructor’s special approval. (Spring 2010 offering)

TECH 63010
COMPUTER HARDWARE (3)
This course provides an introduction to the hardware, architecture, and operation of the Personal Computer and associated devices. Topics include personal computer architecture and operation fundamentals, basic hardware, data busses and ports, hardware component packaging, auxiliary hardware components, computer assembly, and basic hardware installation, configuration, and troubleshooting.

TECH 63020
FIBER OPTIC SYSTEMS (3)
Principles and characteristics of fiber optics, fiber optic system components, and applications of fiber optics in electronic communication systems. Prerequisite: TECH 33220.

TECH 63040
ELECTRONIC COMMUNICATIONS (3)
Study of electronic communications systems fundamentals, characteristics, design considerations, and implementation. Topics include signal modulation and demodulation, multiplexing, noise, transmitters, receivers, signal propagation, digital communications, transmission lines, antennas, and practical applications. Prerequisite: TECH 33223.
TECH 63050
TRIZ-THEORY OF INVENTIVE PROBLEM SOLVING (3)
Theory of inventive problem solving, TRIZ, is a collection of powerful problem-solving tools for a broad range of inventive problems. The theory originated in Russia by the study of over 2 million patents. Web-based capstone for students finishing their master's degree. Students utilize materials learned in earlier courses to solve real world problems in multiple disciplines. (Spring 2010 offering)

TECH 63060
MANAGEMENT OF TECHNOLOGY INNOVATION (3)
Subjects covered in this course include: case studies of innovative companies, elements of an innovation process, review of major problem solving methods, technical opportunity analysis, technical planning, technological forecasting, concept development, and elements of patents. A project is included that utilizes TRIZ software and innovation model elements. Special fee: $80.00 per semester (subject to change).

TECH 63070
COMPUTER HARDWARE DESIGN AND INTEGRATION (3)
In-depth study of Personal Computer (PC) and computer networking hardware. Topics include PC design, basic and auxiliary PC hardware components, PC assembly, PC upgrade and optimization, and PC repair, diagnosis, and troubleshooting. Additional topics include computer networking hardware, network architecture, network communication protocols, and network installation, configuration, and maintenance. Includes laboratory. Prerequisite: EERT 22014 or TECH 33010.

TECH 63100
COMPUTER-AIDED DESIGN (3)
Study of modern industrial practice using computers in advanced graphics, design and analysis including geometric dimensioning and tolerancing, parametric design, solid modeling and finite element analysis. Lecture 2 hours and laboratory 2 hours weekly. Prerequisite: TECH 23581 or equivalent or permission.

TECH 63200
COMPUTER-CONTROLLED SYSTEMS (3)
An overview of modern computer control systems in manufacturing. Prerequisite: TECH 4/53221 or permission.

TECH 63496 I
INDIVIDUAL INVESTIGATION IN ENERGY/POWER TECHNOLOGY (2)
Individual investigation of selected topics within the energy/power technology systems. Prerequisite: TECH 31032.

TECH 63870
FACILITY DESIGN AND MATERIAL HANDLING (3)
Intended to provide students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for a complete approach to facility design and material handling.

TECH 64010
CONNECTIVITY AND INTEROPERABILITY IN INDUSTRY (3)
This course will focus on integrating and administering multiple systems in an industrial environment. Two and one-half hours lecture and 1 half-hour lab weekly. Prerequisite: TECH 46311 and graduate standing or permission.

TECH 64011
TECHNICAL PROGRAMMING (3)
This course will focus on writing programs to gather data from industrial devices and provide those data to information systems. Two and one-half hours lecture and 1 half-hour lab weekly. Prerequisite: TECH 46008.

TECH 64012
INFORMATION TECHNOLOGY AND AUTOMATION IN INDUSTRY (3)
This course will focus on developing systems that analyze and automate industrial processes and provide decision support. Two and one half hours lecture and 1 half-hour lab weekly. Prerequisite: Special approval.

TECH 64095
SPECIAL TOPICS IN COMPUTER TECHNOLOGY (1-4)
Study of various topics that focus on current computer technologies. Repeat registration permitted.

TECH 64396
INDIVIDUAL INVESTIGATION IN COMMUNICATION TECHNOLOGY (2)
Independent research consisting of a problem statement followed by literature search and application of an industrial practice. A proposal must be developed and a written paper project presented to faculty and industrial representatives. Prerequisite: Special approval.

TECH 65300
AIRLINE TRANSPORTATION OPERATIONS (3)
The study of scheduled and nonscheduled airline transport operations under Federal Air Regulations (FAR) 135. Prerequisite: Special approval.

TECH 65400
EVALUATING QUALITY SYSTEM THROUGH PROCESS CONTROL (3)
Evaluating industrial quality through statistical process control. Methods to produce design, process control and process capability are analyzed and evaluated for industrial quality control. Use of inspection equipment and assurance of receiving, fabricating and shipping acceptable materials, products and systems. Scientific management.
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TECH 65496
AEROSPACE TECHNOLOGY (1-4)
Individual investigation of selected topic from the field of aerospace. Prerequisite: Special approval.

TECH 65500
QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY (3)
Tools and techniques for increasing industrial productivity through total quality management. Productivity improvement techniques involving human, technology, material, product and processes, utilizing value engineering, analytical models and scientific management tools in high-technology environment.

TECH 65700
APPLIED RELIABILITY ENGINEERING (3)
Designed to provide technical managers, applied engineers, technologists and manufacturing personnel practical working knowledge of reliability measurement and testing. Concepts of reliability engineering are analyzed to determine failure rates for various types of destructive and nondestructive testing. Prerequisite: TECH 65400.

TECH 65800
BURN-IN/STRESS TESTING FOR RELIABILITY (3)
Comprehensive course on reliability testing to analyze and establish reliability standards for components, products and systems. Specific emphasis on burn-in and stress-testing procedures to perform effective reliability statistical calculations will be the major focus of the course. Prerequisite: TECH 65700.

TECH 66380
ADVANCED NETWORKING (3)
Provides student with experience in fundamental and advanced computer networking techniques including network architectures, LAN systems, network security, and network management and administration. (Spring 2010 offering)

TECH 66382
NETWORK SECURITY (3)
Provides student with experience in fundamental and advanced computer networking techniques including network architectures, LAN systems, network security, and network management and administration. (Spring 2010 offering)

TECH 66384
COMPUTER FORENSICS (3)
Provides students with experience in proper computer forensic techniques including incident response, forensic preparation, and data recovery and analysis. (Spring 2010 offering)

Individual Investigations

When a student enrolls for an individual investigation, it is assumed that the student has a problem, technical or professional, on which to concentrate. Study, experimentation and/or research necessary for the solution of the problem will be preceded by an analysis of the problem in consultation with the student’s assigned professor. Documentation of the investigation will be filed with the department.

Adequate undergraduate preparation or equivalent experience in the area of the investigation is a prerequisite. Because of the research nature of these courses, TECH 60078 or equivalent is a prerequisite to the individual investigation.

TECH 62396
INDIVIDUAL INVESTIGATION IN ELECTRONIC TECHNOLOGY (2)
Individual investigation of a student-selected topic oriented toward the technical aspects of electronics. IP permissible. Prerequisite: TECH 53221 or equivalent.

TECH 63496
INDIVIDUAL INVESTIGATION IN ENERGY/POWER TECHNOLOGY (2)
Individual investigation of selected topics within the energy/power technology systems. IP permissible. Prerequisite: TECH 31032 or permission.

TECH 64396
INDIVIDUAL INVESTIGATION IN COMMUNICATION TECHNOLOGY (2)
Independent research consisting of a problem statement followed by literature search and application of an industrial practice. A proposal must be developed and a written paper/project presented to faculty and industrial representatives. IP permissible. Prerequisite: Special approval.

TECH 65496
AEROSPACE TECHNOLOGY (1-4)
Individual investigation of selected topic from the field of aerospace. IP permissible. Prerequisite: Special approval.
**TECH 66596**  
**INDIVIDUAL INVESTIGATION IN MATERIALS TECHNOLOGY (2)**  
Research directed toward the study and application of metallic and nonmetallic materials. IP permissible. Prerequisite: TECH 20002 or 33363 or equivalent, or permission.

**TECH 66796**  
**INDIVIDUAL INVESTIGATION IN INDUSTRIAL PROCESSES (2)**  
Individual investigation of a student-selected topic oriented toward industrial/manufacturing processes. IP permissible. Prerequisite: TECH 20002 or equivalent, or permission.

**TECH 67496**  
**INDIVIDUAL INVESTIGATION IN CONSTRUCTION TECHNOLOGY (2)**  
Provides advanced work in a selected investigation in one or more of the many areas of construction technology. In some instances an introduction to construction technology is considered depending upon student needs. IP permissible. Prerequisite: Special approval.

**TECH 67596**  
**INDIVIDUAL INVESTIGATION IN MANUFACTURING TECHNOLOGY (2)**  
Independent study related to manufacturing industries. The study may include the development of a product for manufacture (or service) or the in-depth examination of an element of manufacturing. IP permissible.

**TECH 68196**  
**INDIVIDUAL INVESTIGATION IN ENGINEERING GRAPHICS (2)**  
Investigation of selected topics within engineering graphics including computer-aided design. IP permissible. Prerequisite: TECH 31087

**TECH 68796**  
**INDIVIDUAL INVESTIGATION IN INDUSTRIAL TECHNOLOGY SYSTEMS DESIGN (2)**  
The study of two- and three-dimensional design as related to manufacturing, construction, communication and energy/power including patents, creativity and problem-solving approaches. IP permissible.
SPECIAL PROGRAMS COURSES

The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

GCOL 61000
INTRODUCTION TO LIBERAL STUDIES (2)
Introduction to history, philosophy and curricular structure of graduate liberal studies.

GCOL 61093/71093
WORKSHOP IN COLLEGE TEACHING (1-2)
Orientation to college teaching for new teaching assistants.

GCOL 61094/71094
COLLEGE TEACHING (1-2)
Training, supervision and evaluation in college-level instruction. A maximum of 2 hours permitted toward degree.

GCOL 61098
LIBERAL STUDIES ESSAY (3)
The preparation of an essay of approximately 50 pages on a topic related to the student’s program of study for the Master of Liberal Studies degree. S/U grading; IP permissible.

GCOL 71191
INTERDISCIPLINARY GERONTOLOGY (3)
This seminar assists students in developing the knowledge and skills needed to discuss major issues in gerontological therapy, research and practice from an interdisciplinary perspective. Prerequisite: Permission.