

Requirement Sheet

Student Name:	
Campus:	

Bachelor of Radiologic and Imaging Sciences Technology

Radiation Therapy (RTH) Concentration for

Associate of Applied Science in Radiologic Technology Graduates 2008-2009 **DEVELOPMENTAL PRESCRIPTION COURSES** LER DIVERSITY REQUIREMENT" Determined by Basic Skills Assessment All students must complete a two-course diversity requirement. The first course must come from the LER requirement; the second course may be (Check Required Courses) taken as a second LER, within a minor, or as a general elective. Course Credit Sem./Yr, Dept. Number Title Hours Complete One course must address domestic (US) diversity issues Intro. to Coll. Writing S (3) ENG 11001 (" ENG 11002 College Writing I - Stretch (3) 6 \Box One course must address global diversity issues \Box MATH 10031 Fundamentals of Math I MATH 10032 Fundamentals of Math II \Box MATH 10033 Fundamentals of Math III AAS in Radiologic Technology (54 hours). MATH 10034 Fundamentals of Math IV Attach program requirement sheet. Fundamentals of Math V MATH 10035 \Box MATH 10036 Fundamentals of Math VI Date awarded _ US 10003 Read, Strat. for Coll. Suc. л US 10006 Study Strat. for Coll. Suc. Professional Level Courses :Sem/ : Grd Qity Credit Yr. Course 10097 First Year Exp. FLASH Point 1 US Hours Cmpl 0-4 Pts. Dept. Number Title RIS 34003 RTh Principles/Practice I 3 LIBERAL EDUCATION REQUIREMENTS 3 . RIS 34004 RTh Patient Management RTh Physics I 3 RIS 34008 Composition (6 hours) RIS 34030 RTh Clinical Education I 1 ENG 11011 College Writing I RIS Sectional Anatomy 3 ENG 21011 College Writing it RTh Principles/Practice II 3 RIS 44013 RIS 44018 RTh Physics II 3 Mathematics, Critical Reasoning (3-4 hours) RIS 44028 RTh Radiobiology 3: Select from the following RIS 44029 RTh Pathology I 3 MATH 11009 Modeling Algebra (4) 44038 RTh Physics III RIS 3 MATH 11010 Algebra for Calculus (3) RIS 44040 RTh Clinical Education II 1 *Humanities and Fine Arts (9 hours) RIS 44041 RTh Quality Management 2 RIS 44042 RTh Pathology II 3: Minimum one course from Humanities and one course from RIS 44043 RTh Principles/Practice III 2 Fine Arts category required. RIS 44050 RTh Clinical Education III 1 RIS 44060 RTh Clinical Education IV 1 RTh Clinical Education V 1 RIS 44070 *Social Science (6 hour) GPA. Total Professional Level Course Hours Courses must be selected from two curricular areas PSYC 11762 General Psychology 10. Required Writing Intensive Course RIS 44098 Research in Med. Imaging 3 *Basic Sciences (6-7 hour) **TOTAL REQUIREMENTS** 134-135 CHEM 10050 Fundamentals of Chem. Select one lab from CHEM 10031 Chemistry in our World (1) PHY 21041 Phys. in Entertain. & Arts (1) Student Signature Date 7. Additional LER's (6 hours) COMM 15000 Intro. to Human Comm. MATH 11012 Intuitive Calculus Advisor Signature Date

*Select from the University's LER list in the Undergraduate Catalog. **See Undergraduate Catalog for list of courses.

37-38

NOTES

Total LER Hours

A minimum of 42 semester hours of upper division courses is required. A minimum of 134 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.

* Grade of "C" (2.0) or higher in each MS loune

Issued by the Office of the Executive Dean for Regional Campuses



Requirement Sheet

Student Name:	
Campus:	

Bachelor of Radiologic and Imaging Sciences Technology

Radiation Therapy (RTH) Concentration for Hospital-Based Certificate Program and ATS Graduates 2008-2009

DEVELOPMENT.	AL DRESCRIPTION	COURSES

Determined by Basic Skills Assessment

00000000	Dept. ENG ENG MATH MATH MATH MATH MATH MATH US	Course Number 11001 11002 10031 10032 10033 10034 10035 10036 10003	Intro. to Coll. Writing S (3) College Writing I – Stretch Fundamentals of Math I Fundamentals of Math II Fundamentals of Math III Fundamentals of Math IV Fundamentals of Math V Fundamentals of Math V Read. Strat. for Coll. Suc.	Hours (3) 6 1 1 1 1 1 3	Sem./Yr. Complete
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1.	us	10097	First Year Exp. FLASH Po	int 1	
		LIBERAL	EDUCATION REQUIREN	MENTS	
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3.	Select MATH	from the 11009	ritical Reasoning (3-4 hours following Modefing Algebra (4) Algebra for Calculus (3)	s) 	
4.	Minimu	im one co	d Fine Arts (9 hours) ourse from Humanities and ory required.	one co	ourse from
5.	Course		(6 hour) e selected from two currict General Psychology	ular are	as
6.			(6-7 hour) Fundamentals of Chem.	3	
		one lab fi 10031 21041	rom Chemistry in our World (1) Phys. in Entertain, & Arts		-
7.	Additio COMM MATH	15000	s (6 hours) Intro. to Human Comm. Intuitive Calculus	3 3	
Tota	al LER I	Hours		37-38	
			rsity's LER list in the <i>Undergra</i> Catalog for list of courses.	duate C	atalog.
тои	ES				

A minimum of 42 semester hours of upper division courses is required A minimum of 121 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.

* Grade of "C" (2.0) or higher in each RIS course

Issued by the Office of the Executive Dean for Regional Campuses

LER	DIVERSIT	Y REQU	IREMENT*
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All students must complete a two-course diversity requirement. The first

course must come from the LER requirement; the second course may be taken as a second LER, within a minor, or as a general elective. One course must address domestic (US) diversity issues One course must address global diversity issues 8. ATS Radiologic Technology, Nuclear Medicine or Diagnostic Medical Sonography from hospital-based certificate program (32 hours). Attach program requirement sheet. Date awarded Required course from Associate Degree (3 hours) COMT 11000 Intro. to Computer Systems 3 10. Lower Division Electives (6 hours) 11. Professional Level Courses 💥 Sem/ Grd 'Qity Credit Yr. Course Dept. Number Title Hours Cmpi 0-4 Pts. RIS RTh Principles/Practice I 3 34003 34004 RTh Patient Management 3 RiS 34008 RTh Physics I 3 RIS RTh Clinical Education [RiS 34030 1 34083 Sectional Anatomy 3 RIS RTh Principles/Practice II RIS 44013 3 3 RIS 44018 RTh Physics II RTh Radiobiology RIS 44028 3 RIS 44029 RTh Pathology I 3 RIS 44038 RTh Physics III 3 RTh Clinical Education II RIS 44040 1: RIS 44041 RTh Quality Management 2 RIS 44042 RTh Pathology II 3 2 RTh Principles/Practice III RIS 44043 44050 RIS RTh Clinical Education III 1 RTh Clinical Education IV 1 RIS 44070 RTh Clinical Education V 1 Total Professional Level Course Hours 39 **GPA** 12. Required Writing Intensive Course 44098 Research in Med. Imaging **TOTAL REQUIREMENTS** 121-122 Student Signature Date Advisor Signature Date

Revised 7-21-08



Student Name:	
Campus:	

Requirement Sheet Campus: Bachelor of Radiologic and Imaging Sciences Technology

Radiation Therapy (RTH) Concentration for shman Entry or Associate of Science Degree Graduates

Freshinan Entry of As	sociate of Science Degree Graduati
	2008-2009
DEVELOPMENTAL PRESCRIPTION COMPANY	

000000000	Detern	r Title Hours Intro. to Coll. Writing S (3) College Writing I – Stretch (3) 6 Fundamentals of Math I 1 Fundamentals of Math II 1 Fundamentals of Math III 1 Fundamentals of Math IV 1 Fundamentals of Math V 1 Read. Strat. for Coll. Suc. 3 Study Strat. for Coll. Suc. 3	Sem./Yr. Complete Or	One course must address domestic (US) diversity issues One course must address global diversity issues 8. Associate of Science (32 hours). Attach program requirement sheet. Date awarded - OR - Freshman Entry Lower Division Electives (32 hours)							
1.	US 10097	First Year Exp. FLASH Point 1									
	LIBERA	L EDUCATION REQUIREMENTS									
2.		College Writing I 3	9.	COM	T 11000	ted Courses	mputer System				
3.	Select from the MATH 11009	Critical Reasoning (3-4 hours) I following Modeling Algebra (4) Algebra for Calculus (3)			14020 ssional Le	Medical Te		3 Credit	Sem/	Grd	Oltv
4.		nd Fine Arts (9 hours) course from Humanities and one co- nory required.	urse from	Dept. RIS RIS RIS RIS	Number 34003 34004 34008 34030 34083	RTh Princip RTh Patient RTh Physic	l Education I	Hours 3 3 1 1 3	Cmpl	0-4	Pts.
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6.	hours total requ	6 (6-7 hour minimum required by LE uired by program) Biological Structure & Func. 5 General College Physics I 4 Gen. College Physics I Lab 1	FR, 10	RIS RIS RIS RIS RIS	44040 44041 44042 44043 44050 44060	RTh Quality RTh Patholo RTh Princip RTh Clinica RTh Clinica	les/Practice III I Education III I Education IV	1 2 3 2 1			
7.	Additional LER COMM 15000	's (6 hours) Intro. to Human Comm. 3					l Education V Course Hours	39	G	PA_	
	MATH 11012	Intuitive Calculus 3	11.	Requ RIS		ng Intensive (Research i	Course n Med. Imaging	3			
*Se	tal LER Hours lect from the Unive	40-41 ersity's LER list in the <i>Undergraduate Ca</i> Catalog for list of courses.		TAL R	EQUIREN	MENTS	12	1-122			
NO.	TES			ident S	ignature	***************************************		Date			
A m A m A m	iinimum of 121 ser iinimum of 2,00 ov iinimum of 2,75 is i	ester hours of upper division courses is nester hours is required for graduation, erall grade point average is required, required in the professional level course courses may be taken pass fail,	Ād	visor Si	gnature	-		Date		***************************************	

will not count toward completion of the certificate requirements. If a student already has completed a program requirement by pass/fail or Credit-By-Exam, an alternative requirement will be designated.

To successfully earn a certificate, students must achieve a minimum 2.50 cumulative GPA in the courses required for the following programs: computer forensics and information security, database administrator, legal nurse consulting/nurse paralegal, solutions developer and systems engineer. All other certificates require a minimum cumulative GPA of 2.00 in the courses required for the programs.

Opportunities for Study Beyond the Associate's Degree
Associate of Arts and Associate of Science degree programs can
become the foundation for baccalaureate programs.

Many credits earned in a technical associate degree program are also applicable to baccalaureate degrees both at Kent State and at other colleges and universities. Which credits apply depend upon the associate degree earned and the baccalaureate degree toward which students wish to work. Working closely with an advisor is strongly suggested as students explore options for majors and plan their schedules.

The baccalaureate completion program permits students who hold an associate degree in an appropriate field to complete the Bachelor of Science in approximately two years of additional study. For additional information, please consult Page 394 of this *Catalog*.

Bachelor of Radiologic and Imaging Sciences Technology

The Salem Campus provides a Bachelor of Radiologic and Imaging Sciences Technology, designed for students pursuing studies related to medical imaging. Five concentrations are offered: computed tomography (CT), diagnostic medical sonography (DMS), magnetic resonance imaging (MRI), nuclear medicine technology (NMT) and radiation therapy (RTH). The options to pursue this major are the following:

- Option i: Completion of the Associate of Applied Science in Radiologic Technology prior to acceptance into the major. Available in the following concentrations: CT, DMS, MRI, NMT or RTH.
- Option II: Completion of an Associate of Science degree or completion of electives (freshman entry) prior to acceptance into the major. Available in the following concentrations: DMS, NMT or RTH. No previous radiologic technology program is required prior to acceptance into this option.
- Option III: Graduation from a hospital-based certificate program in radiologic technology (32 semester credits will be awarded), successful completion of the American Registry of Radiologic Technologist (ARRT) certification exam and completion of the Associate of Technical Studies in Radiologic Technology (see Catalog) prior to acceptance into the major. Available in the following concentrations: CT, DMS, MRI, NMT or RTH.

Graduation Requirements

To receive a Bachelor of Radiologic and Imaging Sciences Technology, students must satisfy the 37-hour minimum requirements stipulated in the Liberal Education Requirements (LER) and diversity requirement as indicated in this *Catalog*. Students must complete a minimum 39 upper-division (junior- and senior-level) courses. The cumulative grade point average must be minimum 2.00 for all coursework taken at Kent State University. Students must have minimum 2.75 GPA in the radiologic and imaging sciences technology core courses. Only general elective courses may be taken pass/fail. Students must complete all academic and clinical competencies in their core concentration.

Students must complete all RIS courses as noted in program requirements, with a 2.0 or higher GPA.

1.0.

Transmittal Memo

To: EPC

From: Jan Gibson, Senior Director, Radiology Programs, Salem Campus

Date: March 2, 2009

RE: Creation of Option IV for Radiologic and Imaging Sciences

a. Summary statement: This proposal requests the creation of Option IV in the Bachelor of Radiologic and Imaging Sciences Technology degree. This option would permit the awarding of 17-19 credits in the RIS major for those completing a certificate or associate degree program in diagnostic medical sonography, nuclear medicine or radiation therapy.

 Curricular and consultative bodies to approve this action: School of Speech Pathology and Audiology College of Education, Health and Human Services EPC

1

Proposal summary

Title

Option IV for Bachelor of Radiologic and Imaging Sciences Technology Degree

Subject Specification:

The purpose of this proposal is to create Option IV for the Bachelor of Radiologic and Imaging Sciences Technology Degree in order to provide specific academic credits for graduates of certificate or associate degree programs in Diagnostic Medical Sonography, Nuclear Medicine or Radiation Therapy concentrations of the Radiologic and Imaging Sciences major.

Background Information:

The Bachelor of Radiologic and Imaging Sciences Technology Degree (BRIT) was approved in 2001 with concentrations in Computed Tomography, Diagnostic Medical Sonography, Magnetic Resonance Imaging, and Nuclear Medicine with Radiation Therapy added in 2006. The three options for the BRIT degree include:

- 1) Option I: Completion of the Associate of Applied Science degree in Radiologic Technology prior to RIS courses, or
- 2) Option II: Freshman Entry or Associate of Science degree completion prior to RIS courses, or
- 3) Option III: Completion of the Associate of Technical Studies degree for graduates of certificate programs in Radiologic Technology prior to RIS courses.
- 4) Proposed Option IV: Completion of an associate degree or certificate program in Diagnostic Medical Sonography, Nuclear Medicine, or Radiation Therapy prior to RIS courses.

Some graduates of the Associate of Applied Science in Radiologic Technology degree chose to advance their professional education by graduating from the Radiation Therapy certificate program at the Cleveland Clinic. Now those graduates are seeking a bachelor degree and wish to complete degree requirements for the Bachelor of Radiologic and Imaging Sciences offered at Kent State University Salem Campus. They are seeking some academic credit for their successful completion of a certificate program in radiation therapy. After discussions with these graduates and the program director of the radiation therapy program at the Salem campus, option IV is being proposed that would grant a specific number of academic credits for their professional education. The proposal is also being extended to include the diagnostic medical sonography and nuclear medicine concentrations.

Graduates of certificate, associate degree or bachelor degree programs in diagnostic medical sonography (DMS), nuclear medicine (NM) and radiation therapy (RTH) all follow the same national curriculum as sponsored by the American Society of Radiologic Technologists (ASRT), the Society of Diagnostic Medical Sonography (SDMS) and the Society of Nuclear Medicine (SNM). Graduates become certified in their specific discipline by completing didactic and clinical competencies before sitting for the certification exams sponsored by the American Registry of Radiologic Technology in Radiation Therapy (ARRT), American Registry of Diagnostic Medical Sonography (ARDMS) and the Nuclear Medicine Technology Certification Board (NMTCB).

Option IV would grant academic credit for 15-19 hours within the RIS curriculum with students completing 16-24 semester hours of RIS courses through Credit by Exam (CBE). Students would also complete all Liberal Education Requirements, diversity courses, the RIS

writing intensive course (RIS 44098), a Sectional Anatomy course (RIS 34083) for DMS and RTH, and any other required courses to complete degree requirements based on the following:

Option IV would offer an emphasis in five areas for each concentration (DMS, NM, RTH):

Emphasis A

For graduates of AAS in Radiologic Technology who then complete a Hospital Certificate Program (non-credit) in Diagnostic Medical Sonography, Nuclear Medicine or Radiation Therapy prior to BRIT degree:

- 1. Complete US 10097, First Year Experience (1 hour)
- 2. Complete AAS degree requirements (54 hours)
- 3. Complete LER and Diversity courses (37-38 hours)
- 4. Complete select RIS courses as Credit By Exam (CBE)
- 5. Complete RIS 34083 Sectional Anatomy for DMS and RTH (3 hours)
- 6. Complete RIS 44098 Research in Medical Imaging as WIC (3 hours)
- 7. Receive semester hours of RIS credit as part of option IV (19 hours)
 Banner Codes:

DMSA: Diagnostic Medical Sonography A NMTA: Nuclear Medicine Technology A RTTA: Radiation Therapy Technology A

Emphasis B

For graduates of an AAS degree in Radiologic Technology AND an AAS degree in Diagnostic Medical Sonography, Nuclear Medicine, Radiation Therapy prior to the BRIT Degree

- 1. Complete US 10097, First Year Experience (1 hour)
- 2. Complete LER and Diversity courses (40-41 hours)
- 3. Complete lower division electives: some may be from the associate degree (32 hours)
- 4. Complete required related courses (COMT 11000 and HED 14020)
- 5. Complete RIS 44098 Research in Medical Imaging as WIC (3 hours)
- 6. 39 semester hours of credit transfer from diagnostic medical sonography, nuclear medicine or radiation therapy courses in the associate of applied science degree. Banner Codes

DMSB: Diagnostic Medical Sonography B NMTB: Nuclear Medicine Technology B RTTB: Radiation Therapy Technology B

Emphasis C

For graduates of a hospital certificate program in Radiologic Technology who complete requirements for the Associate of Technical Studies degree, who complete a hospital certificate program (non-credit) in Diagnostic Medical Sonography, Nuclear Medicine or Radiation Therapy, prior to the BRIT degree

- 1. Complete US 10097, First Year Experience (1 hour)
- 2. Complete LER and Diversity courses (37-38 hours)
- 3. Complete Associate of Technical Studies degree requirements (34 hours)
- 4. Receive credit hours from Hospital Based Certificate program in Radiologic Technology as part of the completion degree (32 hours)
- 5. Complete lower division electives (6 hours)

- 6. Complete select RIS courses as Credit By Exam (CBE)
- 7. Complete RIS 34083 Sectional Anatomy for DMS and RTH (3 hours)
- 8. Complete RIS 44098 Research in Medical Imaging as WIC (3 hours)
- 9. Receive semester hours of RIS credit as part of option IV (19 hours)

Banner Codes

DMSC: Diagnostic Medical Sonography C NMTC: Nuclear Medicine Technology C RTTC: Radiation Therapy Technology C

Emphasis D

For graduates of a non-credit hospital certificate program in Radiologic Technology who complete requirements for the Associate of Technical Studies degree, who earn credits in an associate degree or certificate program in Diagnostic Medical Sonography, Nuclear Medicine or Radiation Therapy:

- 1. Complete US 10097, First Year Experience (1 hour)
- 2. Complete LER and Diversity courses (37-38 hours)
- 3. Complete Associate of Technical Studies degree requirements (34 hours)
- 4. Receive credit hours from Hospital Based Certificate program in Radiologic Technology as part of the completion degree (32 hours)
- 5. Complete lower division electives (6 hours)
- 6. Complete RIS 34083 Sectional Anatomy for DMS and RTH (3 hours)
- 7. Complete RIS 44098 Research in Medical Imaging as WIC (3 hours)
- 8. Transfer of college credit in diagnostic medical sonography, nuclear medicine or radiation therapy courses from an associate degree or certificate program at a university or college

Banner Codes

DMSD: Diagnostic Medical Sonography D NMTD: Nuclear Medicine Technology D

RTTD: Radiation Therapy Technology D

Emphasis E

For freshman entry or with an AS degree AND an AAS degree in Diagnostic Medical Sonography, Nuclear Medicine, Radiation Therapy

- 1. Complete US 10097, First Year Experience (1 hour)
- 2. Complete LER and Diversity courses (40-41 hours)
- 3. Complete lower division electives: some may be from the associate degree (30-35 hours depending on concentration)
- 4. Complete required related courses (COMT 11000 and HED 14020)
- 5. Complete RIS 44098 Research in Medical Imaging as WIC (3 hours)
- 6. Transfer of college credit from diagnostic medical sonography, nuclear medicine or radiation therapy.

Banner Codes

DMSE: Diagnostic Medical Sonography E NMTE: Nuclear Medicine Technology E RTTE: Radiation Therapy Technology E

Rationale for action

The rationale for this action is to provide opportunities for graduates of certificate or associate degree programs in diagnostic medical sonography, nuclear medicine, or radiation therapy to pursue a baccalaureate degree. This is in alignment with the strategic plan of the Ohio Board of Regents. Ohio's 10-year strategic plan urges policymakers and postsecondary institutions to ensure that college-ready courses are available to all adults and to devise mechanisms that allow learners to acquire college credit for apprenticeship and other adult work force programs that meet standards established by the University System of Ohio. It also calls for the development of new pathways to career oriented postsecondary training that reward adult learners based on demonstrated competencies, not just "seat time" spent in the classroom. The plan also describes the *Career-Technical to College Transfer initiative (CT2)* that focuses on the transferability of industry recognized credentials from both adult and secondary career-technical programs to college. The strategy uses an *outcome approach* that is based on demonstrated competencies for equivalencies. (Ohio Board of Regents Strategic Plan)

http://uso.edu/strategicplan/downloads/documents/strategicPlan/USOStrategicPlan.pdf

Diagnostic Medical Sonography, Nuclear Medicine and Radiation Therapy all follow *learning outcomes* based on assessing knowledge, skills and competencies acquired during didactic and clinical competencies. These programs also use *multiple methods of instruction* including critical thinking and problem based methods that connect curricular concepts to useful knowledge and skills.

Strategic Partnerships and collaborations would continue with clinical sites such as the Cleveland Clinic and University Hospitals as well as other health care facilities in northeast Ohio and western Pennsylvania and beyond. This would allow the development and improvement of educational opportunities for our students.

Stackable Certificates

Governor Ted Strickland and the Ohio General Assembly has directed the Ohio Board of Regents, in collaboration with the Ohio Department of Education, to develop a system of precollege and college-level "Stackable Certificates" to help adult learners minimize the amount of time they spend in the classroom while maximizing the economic payoff of their efforts and providing a clear pathway to relevant educational experiences. Consistent with this directive, the University System of Ohio has launched a "Stackable Certificates" initiative that provides a clear and accessible path for adults seeking to advance their education. With opportunities for concurrent enrollment in multiple institutions, it is being designed to help adult learners connect pre-college academic work to credit-bearing career-technical coursework. (p. 58 OBR Strategic Plan 2008-2017)

Conformity of action with mission of sponsoring unit

Option IV falls within the mission of the radiology programs which is "to educate radiologic and imaging science students in the knowledge, skills and attitudes to become qualified, professional practitioners who provide quality service and care to the community". Option IV will allow current professional practitioners to advance their education to the baccalaureate level.

Assessment Plan (AQIP)

The same learning outcomes that apply to the RIS majors would apply to Option IV.

Effect on current programs, offerings, students and staff

No effect on current programs, offerings or students. Option IV would be attractive to those students with the advanced professional education in diagnostic medical sonography, nuclear medicine and radiation therapy in northeast Ohio and western Pennsylvania. A sampling of programs includes but is not limited to:

- 1. Certificate Programs
 - a. Cleveland Clinic (Radiation Therapy)
 - b. Aultman Hospital: Canton (Nuclear Medicine)
 - c. Community College of Allegheny County: Pittsburgh (Nuclear Medicine, Radiation Therapy and Diagnostic Medical Sonography).
 - d. Sanford Brown (Diagnostic Medical Sonography)
 - e. St. Elizabeth Health Center: Youngstown (Nuclear Medicine) graduates (Program has closed but graduates would be eligible)
- 2. Associate Degree Programs
 - a. Cuyahoga Community College (Diagnostic Medical Sonography, Nuclear Medicine)
 - b. Lorain County Community College (Diagnostic Medical Sonography)
 - c. Community College of Allegheny County: Pittsburgh (Diagnostic Medical Sonography, Nuclear Medicine, and Radiation Therapy)

Effect on current staff would involve grading of CBE tests.

Fiscal and staffing impact of action:

There is very little impact on fiscal and staffing concerns. The academic center at the Salem Campus would administer the exam during normal working hours. The program director would grade the exam which would require minimal time and would be part of administrative load. There are no new courses or resources needed.

Evidence of need

A needs assessment survey was sent to radiation therapists at Cleveland Clinic and University Hospital. Nine of twenty surveys were returned with all nine expressing interest in Option IV. If approved, Option IV will be presented to technologists and therapists in northeast Ohio and western Pennsylvania.

Alternative and Consequence

The alternative would be to decline this proposal but this would miss an opportunity to provide a baccalaureate degree to those completing advanced professional education in radiology. There is very little effort needed on the part of program faculty to support this program.

Specific Recommendation and Justification

Our specific recommendation is to approve Option IV in order to provide a pathway for those to complete a bachelor degree.

Timetable and Action RequiredApproved by the School of Speech Pathology and Audiology FAC
Approval by the UC of the College of EHHS
Upon approval by the Educational Policies Council, the proposal would be effective fall 2010.

KENT STATE UNIVERSITY CERTIFICATION OF CURRICULUM PROPOSAL

		Preparation Dat	e 2-Mar-09	Curriculum Bulletin
		Effective Date	Fall 2010	Approved by EPC
Department	EHHS			
College	RC - Regional Ca	mpuses		
Degree	BRIT - Bachelor o	f Radiologic Imag	ing Sciences	
Program Name	Radiologic and I	maging Sciences	s Progr	am Code RIS
Concentration(s) DMSE, NMTA, NMT	DMS, NM, RTH B, NMTC, NMTD, I			Code(s) DMSA, DMSB, DMSC, DMSD, TD, RTTE
Proposal	Revise Program			
Description of propo Create Option IV for medical sonography	RIS majors for tho			-credit courses in diagnostic RIT degree.
Does proposed revisions Current total credit h	7 . 7	m's total credit ho Proposed total o		s ⊠ No
Describe impact on enrollment and staff No impact on other	ing considerations;	need; audience;	es (e.g., encro prerequisites;	achment and duplication issues; teacher education licensure):
Units consulted (oth School of SPA and		ograms or campu	ses affected by	y this proposal):
1 1 1 1/1	<u> </u>	REQUIRED EN	DORSEMEN	TS
141110	1			3,10,09
Department Chair /	School Director / C	ampus Dean		
•				, ,
College Dean				
				/
Executive Dean of F	Regional Campuses	/ Dean of Gradu	ate Studies	
	·			
Senior Vice Preside	nt for Academic Aff	airs and Provost		



Requirement Sheet

Student Name:	
Campus:	

Bachelor of Radiologic and Imaging Sciences Technology

Diagnostic Medical Sonography (DMS) Concentration for Associate of Applied Science in Radiologic Technology Graduates 2008-2009

OptionIV	,
Emphasis A	

	DEVELOPMENTAL PRESCRIPTION COURSES Determined by Basic Skills Assessment (Check Required Courses)	LER DIVERSITY REQUIREMENT** All students must complete a two-course diversity req course must come from the LER requirement; the sec	cond course	The first e may be
Б U	Course Credit Sem./Yr. Dept. Number Title Hours Complete ENG 11001 Intro. to Coll. Writing S (3) ENG 11002 College Writing I – Stretch (3) 6	One course must address domestic (US) divers	ity issues	
000	MATH 10031 Fundamentals of Math I 1 MATH 10032 Fundamentals of Math II 1 MATH 10033 Fundamentals of Math III 1	One course must address global diversity issue 8. AAS in Radiologic Technology (54 hours).	s 	
	MATH 10034 Fundamentals of Math IV 1 MATH 10035 Fundamentals of Math V 1 MATH 10036 Fundamentals of Math VI 1 US 10003 Read, Strat, for Coll, Suc. 3	Attach program requirement sheet. Date awarded		
1.	US 10006 Study Strat. for Coll. Suc. 3 US 10097 First Year Exp. FLASH Point 1	9. Professional Level Courses	Sei	m/ }
2.	LIBERAL EDUCATION REQUIREMENTS Composition (6 hours) ENG 11011 College Writing I 3 ENG 21011 College Writing II 3		Credit Yr. Hours Cm 3 3 2 2	Grd Oth
3.	Mathematics, Critical Reasoning (3-4 hours) Select from the following MATH 11009 Modeling Algebra (4) MATH 11010 Algebra for Calculus (3)	RIS 34055 US Clinical Education II RIS 34062 OB-Gyn Sonography I RIS 34065 US Clinical Education III RIS 34082 Small Parts Sonography RIS 34083 Sectional Anatomy	3 3 2 1 3 3	25 C C C C C C C C C C C C C C C C C C C
4.	*Humanities and Fine Arts (9 hours) Minimum one course from Humanities and one course from Fine Arts category required.	RIS 44072 OB-Gyn Sonography II RIS 44074 Vascular Sonography RIS 44075 US Clinical Education IV RIS 44083 Pathophysiology/Med. Im. RIS 44084 US Image Evaluation RIS 44085 US Clinical Education V	3 2 3 3 1 1	CR CR CR CR
5.	*Social Science (6 hour) Courses must be selected from two curricular areas PSYC 11762 General Psychology 3	Total Professional Level Course Hours 10. Required Writing Intensive Course RIS 44098 Research in Med. Imaging	38	GPA
6.	*Basic Sciences (6-7 hour) CHEM 10050 Fundamentals of Chem. 3	TOTAL REQUIREMENTS 133	3-134	
	Select one lab from CHEM 10031 Chemistry in our World (1) PHY 21041 Phys. in Entertain. & Arts (1)			
7.	*Additional LER's (6 hours) Must be selected from two different categories. COMM 15000 and PHIL 11009 may also be taken within this	Student Signature	Date	
	category.	Advisor Signature	Date	
*Se	al LER Hours 37-38 lect from the University's LER list in the Undergraduate Catalog. be Undergraduate Catalog for the list of courses.			

A minimum of 41 semester hours of upper division courses is required.

A minimum of 133 semester hours is required for graduation.

A minimum of 2.00 overall grade point average is required.

A minimum of 2.00 overall grade point average is required.

A minimum of 2.75 is required in the professional level courses.

Only general elective courses may be taken pass fail.

NOTES

Issued by the Office of the Executive Dean for Regional Campuses



Requirement Sheet

Student Name:	
Campus:	

Bachelor of Radiologic and Imaging Sciences Technology

Diagnostic Medical Sonography (DMS) Concentration for Hospital-Based Certificate Program and ATS Graduates 2008-2009

option IV	
Emphasis	В

	DEVELOPMENTAL PRESCRIPTION COURSES Determined by Basic Skills Assessment	LER DIVERSITY REQUIREMENT** All students must complete a two-course diversity requirement; the second course must come from the LER requirement; the second course must come from the LER requirement; the second course must come from the LER requirement; the second course must come from the LER requirement; the second course must consider the second course must	irement. The first
	(Check Required Courses) Course Credit Sem./Yr.	taken as a second LER, within a minor, or as a genera	
n	Dept. Number Title Hours Complete ENG 11001 Intro. to Coll. Writing S (3)	One course must address domestic (US) diversit	ty issues
	ENG 11002 College Writing I – Stretch (3) 6 MATH 10031 Fundamentals of Math I 1 MATH 10032 Fundamentals of Math II 1	One course must address global diversity issues	
00000	MATH 10033 Fundamentals of Math III 1 MATH 10034 Fundamentals of Math IV 1 MATH 10035 Fundamentals of Math V 1 MATH 10036 Fundamentals of Math VI 1 US 10003 Read. Strat. for Coll. Suc. 3 US 10006 Study Strat. for Coll. Suc. 3	ATS Radiologic Technology, Nuclear Medici Medical Sonography from hospital-based ce (32 hours). Attach program requirement she Date awarded	rtificate program
1.	US 10097 First Year Exp. FLASH Point 1	Required course from associate degree COMT 11000 Intro. to Computer Systems	3
	LIBERAL EDUCATION REQUIREMENTS	10. Lower Division Electives (7 hours)	
2.	Composition (6 hours) ENG 11011 College Writing I 3 ENG 21011 College Writing II 3		
3.		14 Professional Laura Courses	
	Select from the following	11. Professional Level Courses	Sem/
	MATH 11010 Algebra for Calculus (3)		Credit Yr. Grd Qlty Hours Cmpl 10-4 Pts.
4	*Mumonities and Fine Arts (O house)	RIS 34042 Abdominal Sonography I	3 TF
4.	*Humanities and Fine Arts (9 hours) Minimum one course from Humanities and one course from	RIS 34044 US Physics & Instrument.	3 <u>F</u>
	Fine Arts category required.	RIS 34045 US Clinical Education I RIS 34052 Abdominal Sonography II	2 Tr 3 Tr
		RIS 34055 US Clinical Education II	3 7
	Additional and an analysis of the state of t	RIS 34062 OB-Gyn Sonography I	3 7-
		RIS 34065 US Clinical Education III	2: 7
5.	*Social Science (6 hour)	RIS 34082 Small Parts Sonography RIS 34083 Sectional Anatomy	1 7
	Courses must be selected from two curricular areas PSYC 11762 General Psychology 3	RIS 44072 OB-Gyn Sonography II	3 77
	r5 to 11702 General Esychology 5	RIS 44074 Vascular Sonography	2 Tr-
		RIS 44075 US Clinical Education IV	3 7-
6.	*Basic Sciences (6-7 hour)	RIS 44083 Pathophysiology/Med.lm.	3
	CHEM 10050 Fundamentals of Chem. 3	RIS 44084 US Image Evaluation RIS 44085 US Clinical Education V	1 7F
	Select one lab from CHEM 10031 Chemistry in our World (1)	RIS 44085 US Clinical Education V : Total Professional Level Course Hours	3 TF:
	PHY 21041 Phys. in Éntertain. & Arts (1)		
7.	*Additional LER's (6 hours) Must be selected from two different categories.	12. Required Writing Intensive Course RIS 44098 Research in Med. Imaging	3
	COMM 15000 and PHIL 11009 may also be taken within this category.	TOTAL REQUIREMENTS 121	-122
Tot	tal LER Hours 37-38	Student Signature	Date
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
**S	lect from the University's LER list in the <i>Undergraduate Catalog</i> , eee <i>Undergraduate Catalog</i> for list of courses.	Advisor Signature	Date

A minimum of 41 semester hours of upper division courses is required.

A minimum of 121 semester hours is required for graduation.

A minimum of 2.00 overall grade point average is required.

A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.



Requirement Sheet

Stud	ent	Name
Cam	pus	i:

Bachelor of Radiologic and Imaging Sciences Technology

Diagnostic Medical Sonography (DMS) Concentration for Associate of Applied Science in Radiologic Technology Graduates 2008-2009

Option II Emphasis C

		MENTAL PRESCRIPTION					omplete a two-course diversity	cognicoment 1	The firet
		nined by Basic Skills Assess	inent		COURSE I	niis musi o niist come	from the LER requirement; the	second course	may he
	Course	(Check Required Courses)	Condit	Sem./Yr.			LER, within a minor, or as a ger		ittay aa
	Dept. Numbe			Complete					
	ENG 11001	Intro. to Coll. Writing S (3)		Complete	One co	urse must	t address domestic (US) dive	ersity issues	
	ENG 11001		/2\C					•	
0	MATH 10031				One co	urse must	address global diversity iss	ues	
0	MATH 10031								
Ω	MATH 10033			· · · · · · · · · · · · · · · · · · ·					
r.	MATH 10033				8. AA	S in Radio	ologic Technology (54 hours	s).	
C	MATH 10034						am requirement sheet.	,	
	MATH 10035				1				
	US 10003				Da	te awarde	ed		
٥	US 10003								
ß	03 10006	Study Strat. for Coll. Suc.	ა.		9. Pr	ofessional	Level Courses		
	US 10097	First Year Exp. FLASH Po						Sen	n/ 📒 🗀
1.	US 10097	FIRST Year EXP. FLASH PC	int i '			Cours	e ·	Credit Yr.	Grd Qlty
	LIDEDA		*E*ITO		De	pt. Numb	er Title	Hours Cm	pl 0.4 Pts.
^		L EDUCATION REQUIREM	NEN12		R	S 34042	2 Abdominal Sonography		CORE
2.	Composition (6		•		R	S 34044		t. 3	CR.
	ENG 11011	College Writing I	3.		R	S 3404	5 US Clinical Education I	2	C/2.
	ENG 21011	College Writing II	3.		R	S 34052		11 3 :	CAL
^		3.11. 1.5			R	S 34055		3 :	10 12
3.		Critical Reasoning (3-4 hour following	S)		R			3:	CRE
	Select from the	tollowing			R			2 ;	CR.
	MATH 11009				R				CBE
	MATH TIQIO	Algebra for Calculus (3)			R			3:	CBE
	ante de la companya del companya de la companya del companya de la				1	S 44072	•	3	CPE
4.		nd Fine Arts (9 hours)		•	R			2:	
		course from Humanities and	one cou	urse from	ŧ			······································	
	Fine Arts categ	jory required.			1	S 44075			<u> </u>
					3	S 44083			-
			-		R			1	CR
					R	S 44085	5 US Clinical Education V	3	CR
p	*0 1 - 1	- (0)>							
5.			,		To	tal Profes	ssional Level Course Hour	s 38	GPA
		be selected from two curricu			40 0				
			J.				iting Intensive Course		
		***************************************		***************************************	RI	5 4409	8 Research in Med. Imagi	ng 3	
0	*Dania Caianaa	- (C 7 h)						100 101	
Ф.	*Basic Science	s (b-/ nour)	^		TOTAL	REQUIR	EMENTS .	133-134	
	CHEM 10000	Fundamentals of Chem.	3.						
	Calandanalah	for an	*********						
	Select one lab	trom							
	CHEM 10031	Chemistry in our World (1))						
	PHY 21041	Phys. in Éntertain. & Arts	(1)						
7	*Additio=all+P*	2'n /6 haum)			Studen	t Signature	e	Date	
7.	*Additional LEF	TS (O HOURS)	_:						
	COMMUNE SELECT	ed from two different catego	nes.	tale tim ale ti					
		and PHIL 11009 may also b	е такел	within this		0:		F) = 1 -	
	category.				Adviso	Signature	•	Date	
					1				

Total LER Hours

37-38

*Select from the University's LER list in the Undergraduate Catalog.
**See Undergraduate Catalog for the list of courses.

NOTES

A minimum of 41 semester hours of upper division courses is required. A minimum of 133 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.

Issued by the Office of the Executive Dean for Regional Campuses



Requirement Sheet

Student Name:	
Campus:	

Bachelor of Radiologic and Imaging Sciences Technology

Diagnostic Medical Sonography (DMS) Concentration for Hospital-Based Certificate Program and ATS Graduates

Option IV Emphasis D

Date

	2008-	-2009 EMMUSIS NO
	DEVELOPMENTAL PRESCRIPTION COURSES Determined by Basic Skills Assessment (Check Required Courses) Course Credit Sem./Yr.	LER DIVERSITY REQUIREMENT** All students must complete a two-course diversity requirement. The first course must come from the LER requirement; the second course may be taken as a second LER, within a minor, or as a general elective.
С	Dept. Number Title Hours Complete ENG 11001 Intro. to Coll. Writing S (3)	One course must address domestic (US) diversity issues
Ω Ω	ENG 11002 College Writing I – Stretch (3) 6 MATH 10031 Fundamentals of Math I 1	One course must address global diversity issues
0000000	MATH 10032 Fundamentals of Math II 1 MATH 10033 Fundamentals of Math III 1 MATH 10034 Fundamentals of Math IV 1 MATH 10035 Fundamentals of Math V 1 MATH 10036 Fundamentals of Math VI 1 US 10003 Read, Strat, for Coll. Suc. 3 US 10006 Study Strat, for Coll. Suc. 3	8. ATS Radiologic Technology, Nuclear Medicine or Diagnostic Medical Sonography from hospital-based certificate program (32 hours). Attach program requirement sheet. Date awarded
1.	US 10097 First Year Exp. FLASH Point 1	Required course from associate degree COMT 11000 Intro. to Computer Systems 3
	LIBERAL EDUCATION REQUIREMENTS	10. Lower Division Electives (7 hours)
2.	Composition (6 hours) ENG 11011 College Writing I 3 ENG 21011 College Writing II 3	
3.	Mathematics, Critical Reasoning (3-4 hours) Select from the following MATH 11009 Modeling Algebra (4) MATH 11010 Algebra for Calculus (3)	11. Professional Level Courses Course Cedit Yr. Grd Qlt Dept. Number Title Hours Cmpl 0-4 Pts
4.	*Humanities and Fine Arts (9 hours) Minimum one course from Humanities and one course from Fine Arts category required.	RIS 34042 Abdominal Sonography I 3 TC RIS 34044 US Physics & Instrument. 3 TC RIS 34045 US Clinical Education I 2 TC RIS 34052 Abdominal Sonography II 3 TC RIS 34055 US Clinical Education II 3 TC
5.	*Social Science (6 hour) Courses must be selected from two curricular areas PSYC 11762 General Psychology 3	RIS 34062 OB-Gyn Sonography I 3 7
6.	*Basic Sciences (6-7 hour) CHEM 10050 Fundamentals of Chem. 3	RIS
	Select one lab from CHEM 10031 Chemistry in our World (1) PHY 21041 Phys. in Entertain. & Arts (1)	Total Professional Level Course Hours 38 GPA
7.	,	12. Required Writing Intensive Course RIS 44098 Research in Med. Imaging 3 TOTAL REQUIREMENTS 121-122
То	tal LER Hours 37-38	Student Signature Date

Advisor Signature

*Select from the University's LER list in the *Undergraduate Catalog*.
**See *Undergraduate Catalog* for list of courses.

NOTES

A minimum of 41 semester hours of upper division courses is required.

A minimum of 121 semester hours is required for graduation.

A minimum of 2.00 overall grade point average is required.

A minimum of 2.75 is required in the professional level courses.

Only general elective courses may be taken pass fail.



Requirement Sheet

Student Name: _ Campus:

Bachelor of Radiologic and Imaging Sciences Technology

Diagnostic Medical Sonography (DMS) Concentration for

potron II

Date

gioz	ral Campuser	Freshman E	ntry or Associate	of S	cience		Graduates		hesis	رع
caanaacaaa	Deter Cours	er Title Intro. to Coll. Writing S (3) College Writing I – Stretch Fundamentals of Math I Fundamentals of Math III Fundamentals of Math IVI Fundamentals of Math V Fundamentals of Math V Fundamentals of Math V Read. Strat. for Coll. Suc.	ment Credit Sem./Yr. Hours Complete	LE All cou tak On	R DIVE students irse mus en as a e cours e cours Assocrequii	s must const come from the come from the conduction of the come from the	REQUIREMENT.** nplete a two-course of the LER requirements, within a minor, or diddress domestic (address global diversioned (31 hours). neet. Date awarde - OR - Ty Lower Division	diversity requent; the secret as a general US) divers ersity issue: Attach pred	uirement. cond cours al elective ity issues s	The first se may be s
1.	US 10097	First Year Exp. FLASH Po	int 1							
	LIBER	AL EDUCATION REQUIREN	IENTS							
2.	ENG 21011	(6 hours) College Writing I College Writing II Critical Reasoning (3-4 hours	3 3	9.	COM	T 11000	ted Courses (9 ho	urs) ter System		
		ne following Modeling Algebra (4) Algebra for Calculus (3)		10			Medical Termine Introduction to F evel Courses			em/; ;
4.	Minimum one	and Fine Arts (9 hours) course from Humanities and egory required.			Dept. RIS RIS RIS RIS RIS	Course Number 34042 34044 34045 34052 34055	Title Abdominal Sono US Physics & In: US Clinical Educ Abdominal Sono US Clinical Educ	graphy I strument cation I graphy II	Credit Yr	
5.		ce (6 hour) t be selected from two curricu General Psychology	ılar areas 3		RIS RIS RIS RIS	34062 34065 34082 34083	OB-Gyn Sonogra US Clinical Educ Small Parts Sono Sectional Anator	aphy I cation III ography my	3; 2; 1; 3;	Tr
6.	hours total red BSCI 20020 PHY 13001	es (6-7 hour minimum require quired by program) Biological Structure & Fun General College Physics I Gen. College Physics I Lai	c. 5				OB-Gyn Sonogra Vascular Sonogra US Clinical Educ Pathophysiology US Image Evalua US Clinical Educ ional Level Cours	aphy ation IV /Med. Im. ation ation V	3 2 3 3 1 3 3 3 3 3 3 3	Tr Tr GPA
7.		R's (6 hours) ted from two different catego and PHIL 11009 may also b			Requ RIS	red Writi	ng Intensive Cours Research in Me	se d. Imaging		~. ~.
_			alelinearere abstructional and aleganical							
То	tal LER Hours	•	11-42	Stu	ident S	gnature			Date	

Advisor Signature

*Select from the University's LER list in the Undergraduate Catalog.
**See Undergraduate Catalog for list of courses.

NOTES

A minimum of 41 semester hours of upper division courses is required.

A minimum of 121 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.



Requirement S

Student Name: Campus:

Bachelor of Radiologic and Imaging Sciences Technology

2008-2009

Nuclear Medicine (NM) Concentration for
Associate of Applied Science in Radiologic Technology Graduates

Option II Emphasis A

DEVELOPMENTAL PRESCRIPTION COURSES

Determined by Basic Skills Assessment
(Check Required Courses)

		((Check Required Courses)		
		Course	Name 1 a		Sem,/Yr,
	Dept.	Number 11001	<u>Title</u> Intro. to Coll. Writing S (3)	Hours	Complete
D D	ENG ENG	11001	College Writing 1 – Stretch	/3) 6	
. · D		10031	Fundamentals of Math I	1	
	MATH		Fundamentals of Math II	1	
_		10033	Fundamentals of Math III	1	
	MATH	10034	Fundamentals of Math IV	1	·
n		10035	Fundamentals of Math V	1	
C)		10036	Fundamentals of Math VI	1	
C	US US	10003 10006	Read, Strat. for Coll. Suc. Study Strat. for Coll. Suc.	3 3	
D		10000			
1.	US	10097	First Year Exp. FLASH Po	int 1	
		LIBERAL	EDUCATION REQUIREM	IENTS	•
2.	•	sition (6	•		
	ENG	11011	College Writing	3	
	ENG	21011	College Writing II	3	
3.			ritical Reasoning (3-4 hours		
			following		
		11009	Modeling Algebra (4) Algebra for Calculus (3)		
	1917-1-11	11010	Algebra for Calculus (3)	***************************************	
4.	*Huma	nities and	f Fine Arts (9 hours)		
			ourse from Humanities and	one co	urse from
	Fine A	rts catego	ory required.		
		***************************************	······································	—	

5.	*Social	Science	(6 hour)		
			e selected from two curricu		as '
	PSYC	11762	General Psychology	3	
ŝ.	*Basic	Sciences	(6-7 hour)		
	CHEM	10050	Fundamentals of Chem.	. 3	
	Select	one lab f	rom		
		10031			
			Phys. in Entertain. & Arts (
7.	*Additie	onal LER	's (6 hours)		
•			d from two different categor	ries.	
	COMM	15000 a	nd PHIL 11009 may also b	e taken	within this
	catego		•		

Total LER Hours

38-39

*Select from the University's LER list in the *Undergraduate Catalog*.

**See Undergraduate Catalog for list of courses.

NOTES

A minimum of 39 semester hours of upper division courses is required. A minimum of 131 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.

Issued by the Office of the Executive Dean for Regional Campuses

LER DIVERSITY REQUIREMENT**

All students must complete a two-course diversity requirement.	The first
course must come from the LER requirement; the second cours	e may be
taken as a second LER, within a minor, or as a general elective	

One course must address domestic (US) diversity issues

One course must address global diversity issues

Attach program requirement sheet.

AAS in Radiologic Technology (54 hours).

Date awarded _____

Professional Level Courses

			t	OCHIN	¢	
	Course		Credit	Yr.	Grd	Olty
Dept.	Number	Title	Hours	Cmpl	0-4	Pts.
RIS	44001	NM Patient Management	3		BE	į
RIS	44002	NM Procedures I	3		05	;
RIS	44005	NM Clinical Education I	3	:	R	:
RIS	44006	NM Physics/Instrument.	4		CR	
RIS	44010	NM Clinical Education II	3	; (FR	1 1 1
RIS	44011	NM Radiopharmacy	4	: (SAS	j S
RIS	44012	NM Procedures II	3	: (BE	†
RIS	44014	NM Physics/Instrument. II	3	:	CR	
RIS	44015	NM Clinical Education III	2	_	<u> </u>	
RIS	44016	NM Procedures III	3		CBO	=
RIS	44017	NM Radiation Safety	3	_ (BE	i
RIS	44020	NM Clinical Education IV	2		R	

Total Professional Level Course Hours 36 GPA___

10. Required Writing Intensive Course RIS 44098 Research in Med. Imaging

ing 3 _____

TOTAL REQUIREMENTS

131-132

Student Signature Date

Advisor Signature Date



Requirement Sheet

Student Name: Campus:

Bachelor of Radiologic and Imaging Sciences Technology

Nuclear Medicine (NM) Concentration for Associate of Applied Science in Radiologic Technology Graduates 2008-2009

Option IV Emphasis B

Date

DEVELOPMENTAL PRESCRIPTION COURSES

Determined by Basic Skills Assessment

	. (1	Direck Required Courses;		
MATH MATH MATH MATH	Course Number 11001 11002 10031 10032 10033 10034 10035	<u>Title</u> Intro. to Coll. Writing S (3)	Hours	Sem./Yr. Complete
US	10097	First Year Exp. FLASH Po	int 1	
	L!BERAL	EDUCATION REQUIREM	ENTS	
	11011	College Writing !	3 3	
Select MATH	from the 11009	following Modeling Algebra (4)		
Minimu	m one co	ourse from Humanities and	one co	urse from
Course	s must be	e selected from two curricu	lar are: 3	as
			3	
CHEM	10031	Chemistry in our World (1)	1)	
Must be COMM	e selecteo 15000 a	d from two different categor	ries. e taken ——	within this
	ENG ENG MATH MATH MATH MATH MATH MATH MATH US US Compo ENG ENG ENG Mather Select MATH MATH *Huma Minimu Fine Ar *Social Course PSYC *Basic CHEM PHY *Addition Must be COMM	Course Dept. Number ENG 11001 ENG 11002 MATH 10031 MATH 10032 MATH 10034 MATH 10035 MATH 10036 US 10006 US 10007 LIBERAL Composition (6 ENG 11011 ENG 21011 Mathematics, C. Select from the MATH 11009 MATH 11010 *Humanities and Minimum one coffine Arts category "Social Science Courses must be PSYC 11762 *Basic Sciences CHEM 10050 Select one lab fr CHEM 10031 PHY 21041 *Additional LER' Must be selected	Course Dept. Number Title ENG 11001 Intro. to Coll. Writing S (3) ENG 11002 College Writing I – Stretch MATH 10031 Fundamentals of Math II MATH 10032 Fundamentals of Math II MATH 10034 Fundamentals of Math II MATH 10035 Fundamentals of Math V MATH 10036 Fundamentals of Math V MATH 10036 Fundamentals of Math V US 10003 Read. Strat. for Coll. Suc. US 10006 Study Strat. for Coll. Suc. US 10007 First Year Exp. FLASH Po LIBERAL EDUCATION REQUIREM Composition (6 hours) ENG 11011 College Writing I ENG 21011 College Writing II Mathematics, Critical Reasoning (3-4 hours Select from the following. MATH 11009 Modeling Algebra (4) MATH 11010 Algebra for Calculus (3) *Humanities and Fine Arts (9 hours) Minimum one course from Humanities and Fine Arts category required. *Social Science (6 hour) Courses must be selected from two curricular College Virian II *Social Science (6 hour) Courses must be selected from two curricular College Virian II *Social Science (6 hour) Courses must be selected from two curricular College Virian II *Additional LER's (6 hours) Must be selected from two different category COMM 15000 and PHIL 11009 may also be COMM 15000 and PHIL 11009 may also be	Course Number Title ENG 11001 Intro. to Coll. Writing S (3) ENG 11002 College Writing I – Stretch (3) 6 MATH 10031 Fundamentals of Math I 1 MATH 10032 Fundamentals of Math II 1 MATH 10033 Fundamentals of Math III 1 MATH 10034 Fundamentals of Math IV 1 MATH 10035 Fundamentals of Math IV 1 MATH 10036 Fundamentals of Math V 1 MATH 10036 Fundamentals of Math V 1 US 10003 Read. Strat. for Coll. Suc. 3 US 10006 Study Strat. for Coll. Suc. 3 US 10097 First Year Exp. FLASH Point 1 LIBERAL EDUCATION REQUIREMENTS Composition (6 hours) ENG 11011 College Writing I 3 ENG 21011 College Writing I 3 Mathematics. Critical Reasoning (3-4 hours) Select from the following. MATH 11009 Modeling Algebra (4) MATH 11010 Algebra for Calculus (3) "Humanities and Fine Arts (9 hours) Minimum one course from Humanities and one co Fine Arts category required. "Social Science (6 hour) Courses must be selected from two curricular area PSYC 11762 General Psychology 3 "Basic Sciences (6-7 hour) CHEM 10050 Fundamentals of Chem. 3 Select one lab from CHEM 10031 Chemistry in our World (1) PHY 21041 Phys. in Entertain. & Arts (1) "Additional LER's (6 hours) Must be selected from two different categories. COMM 15000 and PHIL 11009 may also be taken

Total LER Hours

38-39

*Select from the University's LER list in the Undergraduate Catalog. **See Undergraduate Catalog for list of courses.

A minimum of 39 semester hours of upper division courses is required. A minimum of 131 semester hours is required for graduation.

A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses.

Only general elective courses may be taken pass fail.

Issued by the Office of the Executive Dean for Regional Campuses

Advisor Signature

	ddress domestic (US) divers	sily 1551	162		
se must a	ddress global diversity issue	es			
awarded	· · · · · · · · · · · · · · · · · · ·				
ssional L	evel Courses				
44001 44002 44005 44006 44010 44011 44012 44014 44015 44016	NM Patient Management NM Procedures I NM Clinical Education I NM Physics/Instrument. I NM Clinical Education II NM Radiopharmacy NM Procedures II NM Physics/Instrument. II NM Clinical Education III NM Procedures III	Credit Hours 3 3 4 4 3 4 3	Yr. Cmpl	OHER TREETER	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Professi	onal Level Course Hours	36	G	3PA	
ired Writi	ng Intensive Course	3			
EQUIRE	MENTS 13	1-132			
	in Radiokah program awarded essional La Course Number 44001 44005 44006 44010 44011 44012 44014 44015 44016 44017 44020 I Professi	in Radiologic Technology (54 hours). In program requirement sheet. awarded essional Level Courses Course Number Title 44001 NM Patient Management 44002 NM Procedures I 44005 NM Clinical Education I 44006 NM Physics/Instrument. I 44010 NM Clinical Education II 44011 NM Radiopharmacy 44012 NM Procedures II 44014 NM Physics/Instrument. II 44015 NM Clinical Education III 44016 NM Procedures III 44016 NM Procedures III 44017 NM Radiation Safety 44020 NM Clinical Education IV I Professional Level Course Hours 11 Intensive Course 44098 Research in Med. Imaging	course Number Title A4001 NM Patient Management A4002 NM Procedures I A4006 NM Physics/Instrument I A4010 NM Clinical Education II A4011 NM Radiopharmacy A4012 NM Procedures II A4010 NM Clinical Education II A4011 NM Radiopharmacy A4012 NM Procedures II A4014 NM Physics/Instrument II A4015 NM Clinical Education III A4016 NM Procedures III A4017 NM Radiation Safety A4017 NM Radiation Safety A4020 NM Clinical Education IV A4020 NM Clinical Education IV A4030 NM Clinical Education IV A4040 NM Clinical Education IV A405 NM Clinical Education IV A406 NM Procedures III A407 NM Radiation Safety A408 Research in Med. Imaging A4098 Research in Med. Imaging	in Radiologic Technology (54 hours). th program requirement sheet. awarded essional Level Courses Course Number Title 44001 NM Patient Management 44002 NM Procedures I 44005 NM Clinical Education I 44010 NM Clinical Education II 3 44011 NM Radiopharmacy 44012 NM Procedures II 3 44014 NM Physics/Instrument. II 3 44015 NM Clinical Education II 3 44016 NM Procedures II 3 44017 NM Radiation Safety 44017 NM Radiation Safety 44010 NM Clinical Education III 2 44016 NM Procedures III 3 44017 NM Radiation Safety 44020 NM Clinical Education IV 2 I Professional Level Course 44098 Research in Med. Imaging 3 irred Writing Intensive Course 44098 Research in Med. Imaging 3	in Radiologic Technology (54 hours). th program requirement sheet. awarded essional Level Courses Course Number Title 44001 NM Patient Management 44002 NM Procedures I 44005 NM Clinical Education I 44006 NM Physics/Instrument. I 44010 NM Clinical Education II 3 TR 44010 NM Clinical Education II 3 TR 44011 NM Radiopharmacy 4 TR 44012 NM Procedures II 3 TR 44014 NM Physics/Instrument. II 3 TR 44015 NM Clinical Education III 2 TR 44016 NM Procedures III 3 TR 44017 NM Radiation Safety 44017 NM Radiation Safety 44017 NM Radiation Safety 44020 NM Clinical Education IV I Professional Level Course Hours GPA_ sired Writing Intensive Course 44098 Research in Med. Imaging 3



Requirement Sheet

Student Name: ______
Campus:

Bachelor of Radiologic and Imaging Sciences Technology

Nuclear Medicine (NM) Concentration for Hospital-Based Certificate Program and ATS Graduates 2008-2009

Option IV Emphasis C

	DEVELOPMENTAL PRESCRIPTION COURSES Determined by Basic Skills Assessment (Check Required Courses) Course Credit Sem./Yr.	LER DIVERSITY REQUIREMENT** All students must complete a two-course diversity requirement. The first course must come from the LER requirement; the second course may be taken as a second LER, within a minor, or as a general elective.
	Dept. Number Title Hours Complete	
Ľ	ENG 11001 Intro. to Coll. Writing S (3)	One course must address domestic (US) diversity issues
	ENG 11002 College Writing I – Stretch (3) 6 MATH 10031 Fundamentals of Math I 1 MATH 10032 Fundamentals of Math II 1	One course must address global diversity issues
	MATH 10032 Fundamentals of Math II 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ATS Radiologic Technology, Nuclear Medicine or Diagnostic Medical Sonography from hospital-based certificate program (32 hours). Attach program requirement sheet.
D D.	US 10003 Read. Strat. for Coll. Suc. 3	Date awarded
1.	US 10097 First Year Exp. FLASH Point 1	Required course from Associate Degree (3 hours) COMT 11000 Intro. to Computer Systems 3
	LIBERAL EDUCATION REQUIREMENTS	10. Lower Division Electives (9 hours)
2.		
	ENG 11011 College Writing I 3 ENG 21011 College Writing II 3	
3.	Mathematics, Critical Reasoning (3-4 hours)	11. Professional Level Courses : : Sem/: :
	Select from the following	Course (Creat ; i) Gra ; and
	MATH 11010 Algebra for Calculus (3)	Dept. Number Title Hours Cmpl :0-4 Pts RIS 44001 NM Patient Management 3 DE
		RIS 44002 NM Procedures 3 CBE
4.	*Humanities and Fine Arts (9 hours)	RIS 44005 NM Clinical Education I 3 CR
	Minimum one course from Humanities and one course from Fine Arts category required.	RIS 44006 NM Physics/Instrument. I 4 CR
	Fine Ans Category required.	RIS 44010 NM Clinical Education II 3 CR
		RIS 44011 NM Radiopharmacy 4 CBE
		RIS 44012 NM Procedures II 3 CBE
		RIS 44014 NM Physics/Instrument. II 3 C.C.
5.	*Social Science (6 hour)	RIS 44015 NM Clinical Education III 2: CR:
	Courses must be selected from two curricular areas	RIS 44016 NM Procedures III 31 CAS.
	PSYC 11762 General Psychology 3	RIS 44017 NM Radiation Safety 3: CBE
		RIS 44020 NM Clinical Education IV 2 £ R
6.	*Basic Sciences (6-7 hour) CHEM 10050 Fundamentals of Chem. 3	Total Professional Level Course Hours 36 GPA
		12. Required Writing Intensive Course
	Select one lab from CHEM 10031 Chemistry in our World (1) PHY 21041 Phys. in Entertain. & Arts (1)	RIS 44098 Research in Med. Imaging 3 TOTAL REQUIREMENTS 121-122
	*A table and I CDI. (O because)	
7.	*Additional LER's (6 hours) Must be selected from two different categories. COMM 15000 and PHIL 11009 may also be taken within this	Student Signature Date
	category.	
	-UFD Haves	Advisor Signature Date
lot	al LER Hours 37-38	

*Select from the University's LER list in the *Undergraduate Catalog*.
**See *Undergraduate Catalog* for list of courses.
NOTES

A minimum of 39 semester hours of upper division courses is required. A minimum of 121 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses.

Only general elective courses may be taken pass fail.

Issued by the Office of the Executive Dean for Regional Campuses



5.

6.

7

Total LER Hours

DEVELOPMENTAL PRESCRIPTION COURSES

Requirement Sheet

Student Name:	
Campus:	

Bachelor of Radiologic and Imaging Sciences Technology

Nuclear Medicine (NM) Concentration for Hospital-Based Certificate Program and ATS Graduates 2008-2009

maging Sciences Technology		_
M) Concentration for	OptionI	7
Program and ATS Graduates		
-2009	Emphasis	\mathcal{L}
LER DIVERSITY REQUIREMENT	ist	

Date

	De		ned by Basic Skills Assessi Theck Required Courses)	ment		cour	se mus	t come fro	m the LER requirement; the se	econd co	urse m	
	Cou	urse	,	Credit	Sem./Yr.	take	n as a s	econd LE	R, within a minor, or as a gene	eral electi	ive.	
	Dept. Nur	mber	<u>Title</u>	Hours	<u>Complete</u>	0				14		
CJ	ENG 110	001	Intro. to Call. Writing S (3)			One	cours	e must a	ddress domestic (US) dive	Sity ISSt	ıes	
C.)			College Writing I – Stretch	(3)6		0			dalara a Jahal disperalisa inca			
	MATH 100		Fundamentals of Math I	1		Une	cours	e must a	ddress global diversity issu	es		
E.J	MATH 100		Fundamentals of Math II	1							******	
	MATH 100		Fundamentals of Math III	1		8.	ATC	adialani	- Tachnology, Nuclear Mac	lícina ar	Disa	nontic
	MATH 100		Fundamentals of Math IV	1	***************************************	8.			c Technology, Nuclear Med raphy from hospital-based			
£.J	MATH 100		Fundamentals of Math V	1		İ			ach program requirement s		ite pro	grain
1.7	MATH 100		Fundamentals of Math VI	1		1	(52.110	ranaj. r titi	son program requirement s	11001.		
<u>_</u>			Read. Strat. for Coll. Suc.	3			Date a	warded				
	05 100	006	Study Strat, for Coll. Suc.	د						-		
1.	US 100	097	First Year Exp. FLASH Poi	nt 1		9.	•		se from Associate Degree (Intro. to Computer Systei)	
	LIBI	ERAL	EDUCATION REQUIREM	ENTS		10.	Lower	Division	Electives (9 hours)			
2.	Compositio	on (6 t	nours)									
	ENG 110		College Writing I	3		1						
	ENG 210		College Writing II	3						-		
			9 9									
3.	Mathematic	ics, Cr	itical Reasoning (3-4 hours	.)		11.	Profes	ssional Le	evel Courses			
	Select from	n the f	ollowing					Course			Sem/	Gra QII
	MATH 110	009	Modeling Algebra (4)]	Dent	Number	Title			10-4 Pts
	MÁTH 110	010	Algebra for Calculus (3)				RIS	44001	NM Patient Management	3		ing "
							RIS	44002	NM Procedures I	3		HR:
4.			Fine Arts (9 hours)			Ì	RIS	44005	NM Clinical Education I	3		tir:
			urse from Humanities and	oue co	urse from		RIS	44006	NM Physics/Instrument. I	4		TIE:
	Fine Arts c	catego	ry required.			1	RIS	44010	NM Clinical Education II	3	ļ .	TR
							RIS	44011	NM Radiopharmacy	4	-	TVC:
							RIS	44012	NM Procedures II	3		372

Find 8 de category rogistod	1		
Fine Arts category required.	RIS 44010 NM Clinical Education II	3	TR:
	RIS 44011 NM Radiopharmacy	4	TYC:
	RIS 44012 NM Procedures II	3	374
and the state of t	RIS 44014 NM Physics/Instrument.	11 3	TRI
*Social Science (6 hour)	RIS 44015 NM Clinical Education III	2:	TRI
Courses must be selected from two curricular areas	RIS 44016 NM Procedures III	3 :	TR:
PSYC 11762 General Psychology 3	RIS 44017 NM Radiation Safety	3 :	ir Ki
	RIS 44020 NM Clinical Education N	2	TR:
*Basic Sciences (6-7 hour) CHEM 10050 Fundamentals of Chem. 3	Total Professional Level Course Hour	s 36	GPA
One W 10000 Tandamentals of One in.	12. Required Writing Intensive Course		
Select one lab from	RIS 44098 Research in Med. Imagi	ng 3 _	
CHEM 10031 Chemistry in our World (1)			
PHY 21041 Phys. in Entertain. & Arts (1)	TOTAL REQUIREMENTS	121-122	
*Additional LER's (6 hours)			
Must be selected from two different categories.			
COMM 15000 and PHIL 11009 may also be taken within this	Student Signature	Date	
category.			

Advisor Signature

*Select from the University's LER list in the Undergraduate Catalog. **See Undergraduate Catalog for list of courses.

37-38

A minimum of 39 semester hours of upper division courses is required. A minimum of 121 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.

Issued by the Office of the Executive Dean for Regional Campuses



Requirement Sheet

44098 Research in Med. Imaging

121-123

Date

Date

TOTAL REQUIREMENTS

Student Signature

Advisor Signature

Bachelor of Radiologic and Imaging Sciences Technology

Nuclear Medicine (NM) Concentration for Freshman Entry or Associate of Science Degree Graduates 2008-2009

Option IV Emphasis E

	DEVELOPMENTAL DEFONDED AND ACCIDATE	LED DIVERGITY DEGLEDERSCHEN
	DEVELOPMENTAL PRESCRIPTION COURSES	LER DIVERSITY REQUIREMENT**
	Determined by Basic Skills Assessment	All students must complete a two-course diversity requirement. The first course must come from the LER requirement; the second course may be
	(Check Required Courses)	taken as a second LER, within a minor, or as a general elective.
	Course Credit Sem./Yr.	One course must address domestic (US) diversity issues
	Dept. Number Title Hours Complete	One bodise had address domestic (ob) diversity issues
()	ENG 11001 Intro. to Coll. Writing S (3)	One course must address global diversity issues
	ENG 11002 College Writing I – Stretch (3) 6	One course must address ground diversity issues
(2)	MATH 10031 Fundamentals of Math I 1	
Ð	MATH 10032 Fundamentals of Math II 1	8. Associate of Science (35 hours). Attach program
	MATH 10033 Fundamentals of Math III 1	requirement sheet. Date awarded
	MATH 10034 Fundamentals of Math IV 1	- OR -
C	MATH 10035 Fundamentals of Math V 1	Freshman Entry Lower Division Electives (35 hours)
0	MATH 10036 Fundamentals of Math Vi 1	Tresmitan thay tower bivision ticouves (33 hours)
E:3	US 10003 Read. Strat. for Coll. Suc. 3	
\Box	US 10006 Study Strat. for Coll. Suc. 3	
1.	US 10097 First Year Exp. FLASH Point 1	
٠.		
	LIBERAL EDUCATION REQUIREMENTS	
2.	Composition (6 hours)	
	ENG 11011 College Writing I 3 SNG 21011 College Writing II 3	
		NATION AND AND AND AND AND AND AND AND AND AN
3.	Mathematics, Critical Reasoning (3-4 hours)	
	Select from the following	
	MATH 11009 Modeling Algebra (4)	Required Related Courses (6 hours)
	MATH 11010 Algebra for Calculus (3)	COMT 11000 Intro. to Computer Systems 3
		HED 14020 Medical Terminology 3
4.	*Humanities and Fine Arts (9 hours)	10. Professional Level Courses
	Minimum one course from Humanities and one course from	Sem/
	Fine Arts category required.	Course Credit Yr. Grd Olty
		Dept. Number Title Hours Cmpl 0-4 Pts.
		RIS 44001 NM Patient Management 3 TK
		RIS 44002 NM Procedures i 3 TR
		RIS 44005 NM Clinical Education I 3: TK
5.	*Social Science (6 hour)	RIS 44006 NM Physics/Instrument 4 TTR
	Courses must be selected from two curricular areas	RIS 44010 NM Clinical Education II 3
	PSYC 11762 General Psychology 3	
6.	Basic Sciences (6-7 hour minimum required by LER 10-11	RIS 44014 NM Physics/Instrument. II 3: TR
	hours total required by program)	RIS 44015 NM Clinical Education III 2 T8
	BSCI 20020 Biological Structure & Func. 5	RIS 44016 NM Procedures III 3
	Choose one group from the following	RIS 44017 NM Radiation Safety 3 丁パー
	CHEM 10054 Gen/Elem. Organ. Chem. (5)	RIS 44020 NM Clinical Education IV 2 17 (C)
	OR	Total Professional Level Course Hours 36 GPA
	CHEM 10050 Fundamentals/Chem (3)	_
	CHEM 10052 Intro to Organic Chem. (2)	11. Required Writing Intensive Course

Total LER Hours

category.

41-43

*Select from the University's LER list in the *Undergraduate Catalog*.

**See *Undergraduate Catalog* for list of courses.

COMM 15000 and PHIL 11009 may also be taken within this

CHEM 10053 Inorganic/Organ, Lab (1)

Must be selected from two different categories.

*Additional LER's (6 hours)

NOTES

A minimum of 39 semester hours of upper division courses is required.

A minimum of 121 semester hours is required for graduation.

A minimum of 2.00 overall grade point average is required.

A minimum of 2.75 is required in the professional level courses.

Only general elective courses may be taken pass fail.



Requirement Sheet

Student Name:

Bachelor of Radiologic and Imaging Sciences Technology

Radiation Therapy (RTH) Concentration for Associate of Applied Science in Radiologic Technology Graduates 2008-2009

Option IV Emphasis A

			:		2UU0-ZUU				į		
	DE		MENTAL PRESCRIPTION C					EQUIREMENT**		at Th	o Grat
			nined by Basic Skills Assess (Check Required Courses)	ment				nplete a two-course diversity re om the LER requirement; the se			
		Course	, ,	Credit Se	1			R, within a minor, or as a gene			,
	Dent	Number		Hours Cor	1117						
f		11001			Di	ne cours	se must a	ddress domestic (US) diver	sity issu	Jes	
C		11002									
	MATH	10031		1	0	ne cours	se must a	ddress global diversity issu	es		
[MATH	10032	Fundamentals of Math II								
С		10033		1	0	446	in Dadial	ogic Technology (54 hours).			
		10034		1	O.			n requirement sheet.			
£)		10035		1		Allao	ii biogiaii	i regulierilerit Sileet.			
1, }		10036		1		Date	awarded				
	US US		Read. Strat. for Coll. Suc. Study Strat. for Coll. Suc.	3 3					•		
	03		•		 9.	Profe	ssional L	evel Courses			
				/ 						Sem/	
1.	US	10097	First Year Exp. FLASH Po	int 1		Oant	Course	TWA	Credit		Grd Qlty
			,			RIS	Number 34003		3		0-4 Pis.
		LIBERA	L EDUCATION REQUIREM	ENTS		RIS	34004	- •			CBE!
						RIS	34008		3		CR
2.		sition (6				RIS	34030	RTh Clinical Education I	1	·	CR
			College Writing I	3		RIS	34083		3	·	CUSE
	ENG	21011	College Writing II	3	—	RIS	44013	RTh Principles/Practice II	: 3		COE
2	* fotbor	matica C	Critical December 12 4 hours				44018		3		Ce:
٠.٠.	Select	from the	Critical Reasoning (3-4 hours following	2)		RIS	44028		3		CR
			Modeling Algebra (4)			RIS	44029	RTh Pathology I	3		C.C.E.
	MATH	11010	Algebra for Calculus (3)		1	RIS	44038	RTh Physics III	3	:	CISE
		,,,,,,				RIS	44040	RTh Clinical Education II	1		CR!
4.	*Huma	nities an	d Fine Arts (9 hours)			RIS	44041	RTh Quality Management	2		CR!
			ourse from Humanities and	one course	om	RIS	44042		3		CBE!
	Fine A	rts categ	ory required.			RIS	44043		2		CP
						RIS	44050		1		CR
						RIS	44060	RTh Clinical Education IV	1		ich!
					—	RIS	44070	RTh Clinical Education V	1	<u> </u>	CR:
5.	*Coolal	Cainana	e (6 hour)								
5 .			e to nour) be selected from two curricu	lar areac	J	iotai	Professi	ional Level Course Hours	39	Ç	GPA
			General Psychology	3	10	Decu	irod Writis	ng Intensive Course			
				w <u> </u>	'	RIS		Research in Med. Imagini	a 3		
						1110	44000	reacaron in Med. Imagini	9 0		
6.			s (6-7 hour)		TO	OTAL R	EQUIREN	MENTS 13	4-135		
	CHEM	10050	Fundamentals of Chem.	3							
	0.1										
		one lab t	from								
		10031		4)							
	CHI	21041	Phys. in Entertain. & Arts (1	_		lanat: :==		D=1-		
7	Additio	nal I FR'	s (6 hours)		St	udent S	ignature		Date		
•			Intro. to Human Comm.	3							
			Intuitive Calculus	3							
					Ac	lvisor Si	ignature		Date		
Tot	al LER I	Hours	;	37-38	'"		J		_ 5.0		

*Select from the University's LER list in the Undergraduate Catalog.
**See Undergraduate Catalog for list of courses.

A minimum of 42 semester hours of upper division courses is required. A minimum of 134 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required.

A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.



Regional Compuser

Requirement Sheet

Student Name: _____ Campus:

Bachelor of Radiologic and Imaging Sciences Technology

Radiation Therapy (RTH) Concentration for Associate of Applied Science in Radiologic Technology Graduates 2008-2009

Option IV Emphasis B

	2008	3-2009
	DEVELOPMENTAL PRESCRIPTION COURSES	LER DIVERSITY REQUIREMENT**
	Determined by Basic Skills Assessment	All students must complete a two-course diversity requirement. The first
	(Check Required Courses)	course must come from the LER requirement; the second course may be
	Course Credit Sem./Yr.	taken as a second LER, within a minor, or as a general elective.
	Dept Number Title Hours Complete	
0	ENG 11001 Intro. to Coll. Writing S (3)	One course must address domestic (US) diversity issues
Π	ENG 11002 College Writing I - Stretch (3) 6	
С	MATH 10031 Fundamentals of Math I 1	One course must address global diversity issues
L	MATH 10032 Fundamentals of Math II 1	
C		
C	MATH 10033 Fundamentals of Math III 1 MATH 10034 Fundamentals of Math IV 1	AAS in Radiologic Technology (54 hours).
0	MATH 10035 Fundamentals of Math V 1	Attach program requirement sheet.
1.	MATH 10036 Fundamentals of Math VI 1	
П	US 10003 Read. Strat. for Coll. Suc. 3	Date awarded
C2	US 10006 Study Strat. for Coll. Suc. 3	
L.		9. Professional Level Courses
		Sem/ :
4	US 10097 First Year Exp. FLASH Point 1	Course Credit Yr. Grd QII
1.	03 10097 First real Exp. FLASH Foilit	Dept. Number Title Hours Cmpl 0-4 Pts
	LIDEDAL EDUCATION DECUMENTS	RIS 34003 RTh Principles/Practice 3 T2
	LIBERAL EDUCATION REQUIREMENTS	RIS 34004 RTh Patient Management : 3 Hpt
2	Opening (Objects)	RIS 34008 RTh Physics I 3 1 P
۷.	Composition (6 hours)	RIS 34030 RTh Clinical Education I 1 TR
	ENG 11011 College Writing I 3 ENG 21011 College Writing II 3	RIS 34083 Sectional Anatomy 3 Cもとって
	ENG 21011 College Writing II 3	RIS 44013 RTh Principles/Practice II 3 T2
	A PROPERTY OF THE PROPERTY OF	RIS 44018 RTh Dhysics II
3.	Mathematics, Critical Reasoning (3-4 hours)	RIS 44028 RTh Radiobiology 3: 174
	Select from the following	RIS 44029 RTh Pathology I 3 TV
	MATH 11009 Modeling Algebra (4)	
	MATH 11010 Algebra for Calculus (3)	
		RIS 44040 RTh Clinical Education II 1 TR
4.	*Humanities and Fine Arts (9 hours)	RIS 44041 RTh Quality Management 2 TP
	Minimum one course from Humanities and one course from	RIS 44042 RTh Pathology II 3: TE
	Fine Arts category required.	RIS 44043 RTh Principles/Practice III 2: + 2
	·	RIS 44050 RTh Clinical Education III 1: TR
		RIS 44050 RTh Clinical Education III 1 TR RIS 44060 RTh Clinical Education IV 1 TR
		RIS 44070 RTh Clinical Education V 1
		terransaman have not a submitted as
5.	*Social Science (6 hour)	Total Professional Level Course Hours 39 GPA
	Courses must be selected from two curricular areas	
	PSYC 11762 General Psychology 3	10. Required Writing Intensive Course
		RIS 44098 Research in Med, Imaging 3
		3.0
8.	*Basic Sciences (6-7 hour)	TOTAL REQUIREMENTS 134-135
	CHEM 10050 Fundamentals of Chem. 3	
	Select one lab from	
	CHEM 10031 Chemistry in our World (1)	
	PHY 21041 Phys. in Entertain. & Arts (1)	
	-	Student Signature Date
7.	Additional LER's (6 hours)	
	COMM 15000 Intro. to Human Comm. 3	
	MATH 11012 Intuitive Calculus 3	
		Advisor Signature Date

*Select from the University's LER list in the Undergraduate Catalog.
**See Undergraduate Catalog for list of courses.

37-38

NOTES

Total LER Hours

A minimum of 42 semester hours of upper division courses is required. A minimum of 134 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.



Requirement Sheet

Student Name:	
Campus:	

Bachelor of Radiologic and Imaging Sciences Technology

Radiation Therapy (RTH) Concentration for Hospital-Based Certificate Program and ATS Graduates 2008-2009

Option IV Emphasis C

Date

DEVELOPMENTAL PRESCRIPTION COURSES LER DIVERSITY REQUIREMENT** Determined by Basic Skills Assessment All students must complete a two-course diversity requirement. The first course must come from the LER requirement; the second course may be (Check Required Courses) taken as a second LER, within a minor, or as a general elective. Credit Sem./Yr. Course Dept. Number Title Hours Complete One course must address domestic (US) diversity issues Intro. to Coll. Writing S (3) ENG 11001 College Writing I - Stretch (3) 6 ENG 11002 One course must address global diversity issues Fundamentals of Math I MATH 10031 123 ["1 MATH 10032 Fundamentals of Math II MATH 10033 Fundamentals of Math III ATS Radiologic Technology, Nuclear Medicine or Diagnostic MATH 10034 Fundamentals of Math IV Medical Sonography from hospital-based certificate program MATH 10035 Fundamentals of Math V m (32 hours). Attach program requirement sheet. \Box MATH 10036 Fundamentals of Math VI Read. Strat. for Coll. Suc. US 10003 Date awarded ___ 10006 Study Strat, for Coll. Suc. Required course from Associate Degree (3 hours) COMT 11000 Intro. to Computer Systems 3 US 10097 First Year Exp. FLASH Point 1 10. Lower Division Electives (6 hours) LIBERAL EDUCATION REQUIREMENTS Composition (6 hours) ENG 11011 College Writing I 11. Professional Level Courses ENG 21011 College Writing II Sem/ Credit Yr. Grd Qity Course Mathematics, Critical Reasoning (3-4 hours) Dept. Number Title Hours Cmpl 0-4 Pis. Select from the following RIS 34003 RTh Principles/Practice I 3 MATH 11009 Modeling Algebra (4) RIS 34004 RTh Patient Management 3 OPE MATH 11010 Algebra for Calculus (3) RIS RTh Physics I 34008 3 RIS RTh Clinical Education I 34030 *Humanities and Fine Arts (9 hours) RIS 34083 Sectional Anatomy 3: CMMinimum one course from Humanities and one course from 44013 RTh Principles/Practice II RIS 3 CBE Fine Arts category required. RIS 44018 RTh Physics II 3 Cl RIS 44028 RTh Radioblology 3 RIS 44029 RTh Pathology I 3 CHE RIS 44038 RTh Physics III 3 CXRIS 44040 RTh Clinical Education II 1 *Social Science (6 hour) OR Courses must be selected from two curricular areas RIS 44041 RTh Quality Management 2 CR PSYC 11762 General Psychology RIS 44042 RTh Pathology II 3 3 CKE RIS 44043 RTh Principles/Practice III 2 ce RIS 44050 RTh Clinical Education III 1 *Basic Sciences (6-7 hour) RIS CR 44060 RTh Clinical Education IV 1: CHEM 10050 Fundamentals of Chem. CE RIS 44070 RTh Clinical Education V 1 Total Professional Level Course Hours GPA Select one lab from CHEM 10031 Chemistry in our World (1) 12. Required Writing Intensive Course PHY 21041 Phys. in Entertain. & Arts (1) RIS 44098 Research in Med. Imaging 3 7. Additional LER's (6 hours) **TOTAL REQUIREMENTS** 121-122 COMM 15000 Intro. to Human Comm. MATH 11012 Intuitive Calculus Student Signature Date

Advisor Signature

Revised 7-21-08

A minimum of 42 semester hours of upper division courses is required. A minimum of 121 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.

*Select from the University's LER list in the Undergraduate Catalog.

**See Undergraduate Catalog for list of courses.

Total LER Hours



Requirement Sheet

Student Name:

Bachelor of Radiologic and Imaging Sciences Technology

Radiation Therapy (RTH) Concentration for Hospital-Based Certificate Program and ATS Graduates 2008-2009

Option IV Emphasis D

DEVELOPMENTAL	PRESCRIPTION	COURSES
AP4 PP A > 14 (P) 4 (1.7P)	TICOUNT TION	

LER DIVERSITY REQUIREMENT** Determined by Basic Skills Assessment All students must complete a two-course diversity requirement. The first course must come from the LER requirement; the second course may be (Check Required Courses) taken as a second LER, within a minor, or as a general elective. Credit Sem./Yr. Course Dept. Number Title Hours Complete One course must address domestic (US) diversity issues **ENG** 11001 Intro. to Coll. Writing S (3) ٣. ENG 11002 College Writing I - Stretch (3) 6 One course must address global diversity issues MATH 10031 Fundamentals of Math I 173 ш MATH 10032 Fundamentals of Math II MATH 10033 Fundamentals of Math III C ATS Radiologic Technology, Nuclear Medicine or Diagnostic MATH 10034 Fundamentals of Math IV Medical Sonography from hospital-based certificate program Fundamentals of Math V MATH 10035 (32 hours). Attach program requirement sheet. MATH 10036 Fundamentals of Math VI Read. Strat. for Coll. Suc. US 10003 Date awarded _ 10006 Study Strat. for Coll. Suc. Required course from Associate Degree (3 hours) COMT 11000 Intro. to Computer Systems 3 US First Year Exp. FLASH Point 1 10. Lower Division Electives (6 hours) LIBERAL EDUCATION REQUIREMENTS Composition (6 hours) ENG 11011 College Writing I 11. Professional Level Courses ENG 21011 College Writing II Sem/ Credit Yr. 'Grd 'Qlty Course Mathematics, Critical Reasoning (3-4 hours) Hours Cmpl 0-4 Pts. Dept. Number Title Select from the following RTh Principles/Practice I RIS 34003 3 MATH 11009 Modeling Algebra (4) RTh Patient Management 3 RIS 34004 MATH 11010 Algebra for Calculus (3) RIS 34008 RTh Physics I 3 RIS 34030 RTh Clinical Education I 1 : *Humanities and Fine Arts (9 hours) Sectional Anatomy 3: RIS 34083 CBEOCITE Minimum one course from Humanities and one course from RIS 44013 RTh Principles/Practice II 3 : :14 Fine Arts category required RTh Physics II 3 RIS 44018 RIS 44028 RTh Radiobiology 3 3 RIS 44029 RTh Pathology I 12 RIS 44038 RTh Physics III 3 172 RTh Clinical Education II RIS 44040 1 *Social Science (6 hour) TK Courses must be selected from two curricular areas RIS 44041 RTh Quality Management 2 TE RTh Pathology II RIS 44042 3 PSYC 11762 General Psychology TK RIS 44043 RTh Principles/Practice III 2 RIS 44050 RTh Clinical Education III 1 TK *Basic Sciences (6-7 hour) RTh Clinical Education IV RIS 44060 1 CHEM 10050 Fundamentals of Chem. RIS 44070 RTh Clinical Education V 1 Total Professional Level Course Hours **GPA** Select one lab from CHEM 10031 Chemistry in our World (1) 12. Required Writing Intensive Course PHY 21041 Phys. in Entertain. & Arts (1) 44098 Research in Med. Imaging 3 7. Additional LER's (6 hours) **TOTAL REQUIREMENTS** 121-122 COMM 15000 Intro. to Human Comm. MATH 11012 Intuitive Calculus Student Signature Date Total LER Hours *Select from the University's LER list in the Undergraduate Catalog Advisor Signature Date **See Undergraduate Catalog for list of courses.

Revised 7-21-08

A minimum of 42 semester hours of upper division courses is required. A minimum of 121 semester hours is required for graduation. A minimum of 2.00 overall grade point average is required. A minimum of 2.75 is required in the professional level courses. Only general elective courses may be taken pass fail.



Requirement Sheet

Student Name: _________Campus:

Bachelor of Radiologic and Imaging Sciences Technology

Radiation Therapy (RTH) Concentration for Freshman Entry or Associate of Science Degree Graduates

— Option IV Emonasis E

Date

	DEVELOPMENTAL PRESCRIPTION	2008-			DEITY D	EQUIREMENT"	ti	nonas	15
	Determined by Basic Skills Asse					nplete a two-course d	iversity red	uirement.	The first
	(Check Required Courses		cours	se must	come fro	om the LER requireme	ent; the sec	cond course	e may be
	Course	Credit Sem./Yr.				R, within a minor, or ddress domestic (
	Dept. Number Title	Hours Complete	Onic	COURSE	inusi a	antega domestic /	Joj ulvers	ity issues	
C C	ENG 11001 Intro. to Coll. Writing S- ENG 11002 College Writing I – Stre	tch (3) 6	One	course	must a	ddress global dive	rsity issue	:s	
С	MATH 10031 Fundamentals of Math	1		A 00000	210 06 6	cience (32 hours).	Attach o		
Ľ	MATH 10032 Fundamentals of Math		Ο.	require	ement st	neet. Date awarde	Attaçii bi d	ogram	
0	MATH 10033 Fundamentals of Math MATH 10034 Fundamentals of Math			·oquit	J. (10) (10)	- OR -	~	***************************************	W-242/
	MATH 10034 Fundamentals of Math			Freshr	nan Ent	ry Lower Division E	lectives (32 hours)	
H	MATH 10036 Fundamentals of Math			<u></u>	***************************************				
∷	US 10003 Read. Strat. for Coll. St	ıc. 3							
	US 10006 Study Strat. for Coll. Su	ic. 3							
	* · · · · · · · · · · · · · · · · · · ·					***************************************			
1.	US 10097 First Year Exp. FLASH	Point 1							~~~
	LIBERAL EDUCATION REQUIR	EMENTS							
2.	Composition (6 hours)					***************************************			
	ENG 11011 College Writing I	3	_						
	ENG 21011 College Writing II	3			ed Rela 11000	ted Courses (6 hou Intro, to Comput		ns 3	
2	Mathematics, Critical Reasoning (3-4 ho	1(70)			14020	Medical Termino		3 _	
.J	Select from the following	u(5)							
	MATH 11009 Modeling Algebra (4)		10.	Profes	sional L	evel Courses		, ,,,,	ma f 3 - 4
	MATH 11010 Algebra for Calculus (3)				Course			Credit Yr	m/ Grd Olty
4.	*Humanities and Fine Arts (9 hours)			•	Number				npl:10-4 (Pts.
₹.	Minimum one course from Humanities a	nd one course from		RIS	34003	RTh Principles/Pr		3	ite
	Fine Arts category required,			RIS RIS	34004 34008	RTh Patient Man	agement	3	TR TR
		,		RIS	34030	RTh Clinical Educ	cation I	1	HP.
	***************************************			RIS	34083	Sectional Anatom		3 :	ICBEIOTI
				RIS	44013	RTh Principles/P	•	3 :	172
5.	*Social Science (6 hour)			RIS	44018	RTh Physics II		3	TP:
	Courses must be selected from two curr	ricular areas		RIS	44028	RTh Radiobiology	¥	3	TR
	PSYC 11762 General Psychology	3		RIS RIS	44029 44038	RTh Pathology I RTh Physics III		3	13
				RIS	44040	RTh Clinical Educ	cation II	1	TE
6.	Basic Sciences (6-7 hour minimum requ	ired by LER. 10		RIS	44041	RTh Quality Man		2	TR
	hours total required by program)			RIS	44042	RTh Pathology II	-	3	TR
	BSCI 20020 Biological Structure & F			RIS	44043	RTh Principles/Pr		2	ITR
	PHY 13001 General College Physic PHY 13021 Gen. College Physics I	s I 4 Lab 1		RIS	44050	RTh Clinical Educ		1 1	IP
	FITE 13021 Gen. Conege Fitysics I	Lay I		RIS	44060	RTh Clinical Educ RTh Clinical Educ		1:	异
7.	Additional LER's (6 hours)					ional Level Cours		39	GPA
	COMM 15000 Intro. to Human Comm.	—							··• <u></u>
	MATH 11012 Intuitive Calculus	3				ng Intensive Cours			
Tot	tal LER Hours	40-41		RIS	44098	Research in Med	ı. Imagıng	3	
•0	the state of the Helicanski de State of the		TOT	AL RE	QUIRE	MENTS	12	1-122	
	elect from the University's LER list in the <i>Under</i> giee <i>Undergraduate Calalog</i> for list of courses.	graduate Catalog.							
	TES		Stud	lent Sig	nature			Date	
	ninimum of 42 semester hours of upper division	courses is required.			-				
A m	ninimum of 121 semester hours is required for g	raduation.					***************************************		***************************************

Advisor Signature

A minimum of 2.00 overall grade point average is required.

A minimum of 2.75 is required in the professional level courses.

Only general elective courses may be taken pass fail.

will not count toward completion of the certificate requirements. If a student already has completed a program requirement by pass/fail or Credit-By-Exam, an alternative requirement will be designated.

To successfully earn a certificate, students must achieve a minimum 2.50 cumulative GPA in the courses required for the following programs: computer forensics and information security, database administrator, legal nurse consulting/nurse paralegal, solutions developer and systems engineer. All other certificates require a minimum cumulative GPA of 2.00 in the courses required for the programs.

Opportunities for Study Beyond the Associate's Degree Associate of Arts and Associate of Science degree programs can become the foundation for baccalaureate programs.

Many credits earned in a technical associate degree program are also applicable to baccalaureate degrees both at Kent State and at other colleges and universities. Which credits apply depend upon the associate degree earned and the baccalaureate degree toward which students wish to work. Working closely with an advisor is strongly suggested as students explore options for majors and plan their schedules.

The baccalaureate completion program permits students who hold an associate degree in an appropriate field to complete the Bachelor of Science in approximately two years of additional study. For additional information, please consult Page 394 of this Catalog.

Option IV: Completion of a certificate or associate of applied science degree in DMS, nm or RTH and who hold a current certification in their professional discipline, Contains five areas of emphasis in each concentration:

A: AAS in Radiologic Technology and certificate in OMS, NM, or RTH.

B: AAS in Radiologic Technology and AAS

in oms, nm or RTH.

C: Certificate in Radiologic Technology and

certificate in OMS, nM, or RTH.

D: Certificate in Radiologic Technology and academic credit in DMS, nM or RTH

E: Freshman Entry or AS and AAS in OMS, nM, or RTH

Credit Courses in each area will transfer based on course equivalency at KSU

Bachelor of Radiologic and Imaging Sciences Technology

The Salem Campus provides a Bachelor of Radiologic and Imaging Sciences Technology, designed for students pursuing studies related to medical imaging. Five concentrations are offered: computed tomography (CT), diagnostic medical sonography (DMS), magnetic resonance imaging (MRI), nuclear medicine technology (NMT) and radiation therapy (RTH). The options to pursue this major are the following:

- Option 1: Completion of the Associate of Applied Science in Radiologic Technology prior to acceptance into the major. Available in the following concentrations: CT, DMS, MRI, NMT or RTH.
- Option II: Completion of an Associate of Science degree or completion of electives (freshman entry) prior to acceptance into the major. Available in the following concentrations: DMS, NMT or RTH. No previous radiologic technology program is required prior to acceptance into this option.
- Option III: Graduation from a hospital-based certificate program in radiologic technology (32 semester credits will be awarded), successful completion of the American Registry of Radiologic Technologist (ARRT) certification exam and completion of the Associate of Technical Studies in Radiologic Technology (see Catalog) prior to acceptance into the major. Available in the following concentrations: CT, DMS, MRI, NMT or RTH.

Graduation Requirements

To receive a Bachelor of Radiologic and Imaging Sciences Technology, students must satisfy the 37-hour minimum requirements stipulated in the Liberal Education Requirements (LER) and diversity requirement as indicated in this Catalog. Students must complete a minimum 39 upper-division (junior- and senior-level) courses. The cumulative grade point average must be minimum 2.00 for all coursework taken at Kent State University. Students must have minimum 2.75 GPA in the radiologic and imaging sciences technology core courses. Only general elective courses may be taken pass/fail. Students must complete all academic and clinical competencies in their core concentration.

	Computed Tomography Concentration		RIS 34084 CT/MRI Sectional Anatomy I
			34086 CT/MRI Sectional Anatomy II
	Students eligible for Option I or III may enroll in the computed		44021 Patient Management in Computed Tomography .3
	tomography (CT) concentration.		44022 Computed Tomography Procedures
			44024 Physical Principles of Computed Tomography3
I.	General College or University Requirements		44025 Computed Tomography Clinical Education 13
	US 10097 First Year Experience FLASH Point		44027 Computed Tomography Clinical Education II 3
11.	Liberal Education Requirements		44083 Pathophysiology for Medical Imaging
	A complete list of liberal education requirement (LER) courses is		44096 Individual Investigation in Medical Imaging
	on Pages 85-87.		Directed Readings
	Composition		44098* Research in Medical Imaging
	ENG 11011 College Writing I	٧.	Upper-Division Electives
	21011 College Writing II	• •	appar energical and areas are areas and areas areas areas areas and areas
	Mathematics and Critical Reasoning		OPTION I
	Choose from the following:		Additional Requirements
	MATH 11009 Modeling Algebra (4)		Technical requirements in radiologic technology
	11010 Algebra for Calculus (3)		See requirements under the A.A.S. in radiologic technology
	Humanities and Fine Arts		program in this Catalog
	Minimum one course from humanities category and minimum		TOTAL 132-133
	one course from fine arts category.		
	Social Sciences		OPTION III
	Must be selected from two curricular areas.		Additional Requirements
	PSYC 11762 General Psychology3		COMT 11000 Introduction to Computer Systems
	Social sciences LER course		Associate of Technical Studies in Radiologic Technology32
	Basic Sciences		Lower-division electives
	CHEM 10050 Fundamentals of Chemistry		TOTAL 122-123
	Basic sciences LER course		
	Choose from the following:		*Course fulfills writing-intensive requirement.
	CHEM 10031 Chemistry in Our World Laboratory (1)		
	PHY 21041 Physics in Entertainment and the Arts		Programme and State of the Company o
	Laboratory (1)		Olagnostic Medical Sonography Concentration
	Additional LER courses		
	Courses must be selected from two categories, above COMM		Students eligible for Options I, II or III may enroll in the diagnos-
	15000 Introduction to Human Communication and PHIL 11009		tic medical sonography (DMS) concentration.
	Principles of Thinking may also be taken within this category.		
	Diversity Requirement	l.	General College or University Requirements
	Students must complete a two-course diversity requirement.		US 10097 First Year Experience FLASH Point
	consisting of one with a domestic (U.S.) focus and one with a	Ħ.	Liberal Education Requirements
	global focus. One course must come from the LER; the second		A completé list of liberal education requirement (LER) courses is
	course may be taken as a second LER, within a minor or		on Pages 85-87.
	as a general elective. A complete list of diversity courses is on		Composition
	Pages 89-91.		ENG 11011 College Writing I
H.	Writing-Intensive Course Requirements		21011 College Writing II
	Students must complete a one-course writing-intensive require-		Mathematics and Critical Reasoning
	ment and earn minimum C (2.00) grade. This requirement is		Choose from the following:
	fulfilled in this concentration with RIS 44098. A complete list of		MATH 11009 Modeling Algebra (4)
	writing-intensive courses is on Pages 93-95.		11010 Algebra for Calculus (3)
	A 1 To 1 Section of any college and any		a ingonition outdine (a)

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Option IV - CBE: RIS 34042, 34052, 34062, 34082, 34083, 44072 CREDIT: RIS 34044, 34045, 34055, 34065, 44074, 44072 44075, 44084, 44085

Regional Campuses

			•	
	Humai	nities ar	nd Fine Arts	?
	Minum	ит опе	course from humanities category and minimum	
	one co	urse tro	om fine arts category.	
	Sociat	Science	es	
	Must b	e seleci	led from two curricular areas.	
	PSYC	11762	General Psychology	
			s LER course	
	Basic .	Science	rs	ı
	Studer	its musi	t choose the required courses for their option.	
		Option	l or III	
	CHEM	10050	Fundamentals of Chemistry	
			LER course	
			he following:	
			Chemistry in Our World Laboratory (1)	
	PHY		Physics in Entertainment and the Arts Laboratory (1)
			7	
		Option	•	
	BSCI		Biological Structure and Function	
	PHY		General College Physics I	
	, ,,,		General College Physics Laboratory I	
		10021		
			10	
	Additio	onal LE	R courses	i
	Course	s must	be selected from two categories, above. COMM	
	15000	Introdu	ction to Human Communication and PHIL 11009	
	Princip	iles of T	hinking may also be taken within this category.	
	Divers	ity Requ	uirement	
	Studer	its musi	t complete a two-course diversity requirement.	
	consis	ting of c	one with a domestic (U.S.) focus and one with a	
	global	tocus. (One course must come from the LER; the second	
	course	may be	taken as a second LER, within a minor or	
	as a ge	eneral el	lective. A complete list of diversity courses is on	
	Pages	89-91.	•	
Iß.	-		sive Course Requirements	
		_	t complete a one-course writing-intensive require-	
			minimum C (2.00) grade. This requirement is	
			concentration with RIS 44098. A complete list of	
	writing	-intensi	ive courses is on Pages 93-95.	
IV.	-		ements	. 41
	RIS	•	Abdominat Sonography	}
			Ultrasound Physics and Instrumentation 3	}
			Ultrasound Clinical Education I	
			Abdominal Sonography II	
			Ultrasound Clinical Education II	
			Obstetric-Gynecology Sonography (
			Ultrasound Clinical Education III	
			Small Parts Sonography	
			Sectional Anatomy in Medical Imaging	
			Obstetric-Gynecologic Sonography II	
			Vascular Sonography	
		नन्धा भ	γασφαίαι συπογιαμτής	

	44075	Ultrasound Clinical Education	IV	3	
	44083	Pathophysiology for Medical I	lmaging	3	
	44084	Ultrasound Image Evaluation		1	
	44085	Ultrasound Clinical Education	V	3	
		Research in Medical Imaging		3	
	11450	11030d1011111 Wothod 1111dging			
OPTIO	N i				
		quirements		54	
		irements in radiologic technologic			
		ents under the A.A.S. in radiolo			
program in this Calalog.		gic (cominand)	17		
progra	111 111 1111	o datalog.	_		
			TOTAL	133-134	
OPTIO	ki ir				
		quirements		30.48	
		Introduction to Computer Sys			
HED		Medical Terminology			
		Introduction to Patient Care .			
Associ	ate of S	cience or electives		.30-31	
			TOTAL	121-123	
OPTID	N III				
Additio	nal Re	quirements		.42	
		Introduction to Computer Sys			
		echnical Studies in Radiologic	•,	_	
FOMBL.	UNISIO	n electives		7	
ラ			TOTAL	121-122	
• 🗥	. 6.1621	uniting interpolar constants			
Course	? IUIIIIS	writing-intensive requirement.			
ار د نه	Manna	tic Resonance Imaging Co	ncentration		
	in let A to to	tik izadalibiran tumbuúb so			
Chudas					
	ite aliait	ble for Antion Lor III may apro-	II in the manue	tic	
resona		ble for Option I or III may enrol	II in the magne	tic	
		ble for Option I or III may enrol aging (MRI) concentration.	II in the magne	tic	
	nce ima	aging (MRI) concentration.			
	ince ima al Colle	aging (MRI) concentration. ge or University Requirement	s		
US	al Colle 10097	aging (MRI) concentration. age or University Requirement First Year Experience FLASH i	s		
US Libera	al Colle 10097 1 Educa	aging (MRI) concentration. ge or University Requirement First Year Experience FLASH i tlon Requirements	s	1 1 37-38	
US Libera	al Colle 10097 1 Educa	aging (MRI) concentration. age or University Requirement First Year Experience FLASH i	s	1 1 37-38	
US Libera A com	al Colle 10097 1 Educa	aging (MRI) concentration. ge or University Requirement First Year Experience FLASH in the Requirements	s	1 1 37-38	
US Libera A com on Pag	al Colle 10097 1 Educa plete lis	aging (MRI) concentration. ge or University Requirement First Year Experience FLASH in the Requirements	s		
US Libera A com on Pag	nce ima ai Colle 10097 I Educa plete lis ges 85-8 osftion	aging (MRI) concentration. Ige or University Requirement First Year Experience FLASH in the Requirements	\$ Point ent (LER) cours	1 37-38 ses is	
US Libera A com on Pay Compi	ai Colle 10097 1 Educa plete lis ges 85-8 osilion 11011	aging (MRI) concentration. Ige or University Requirement First Year Experience FLASH in the Requirements	\$ Point ent (LER) cours	1 37-38 ses is	
US Libera A com on Pay Compi	ai Colle 10097 1 Educa plete lis ges 85-8 osilion 11011	aging (MRI) concentration. Ige or University Requirement First Year Experience FLASH in the Requirements	\$ Point ent (LER) cours	1 37-38 ses is	
US Libera A com on Pag Compt ENG Mathe	ai Colle 10097 1 Educa plete lis ges 85-8 osttion 11011 21011	aging (MRI) concentration. Ige or University Requirement First Year Experience FLASH in the Requirements state of liberal education requirements. College Writing I Sollege	S Point ent (LEA) cours	137-38 ses is3	
US Libera A com on Pay Compoi ENG Mathe	ai Colle 10097 1 Educa plete lis ges 85-8 osilion 11011 21011 emalics e from t	aging (MRI) concentration. age or University Requirement First Year Experience FLASH in the Requirements set of liberal education requirements. College Writing I college Writing II and Critical Reasoning the following.	S Point ent (LEA) cours	137-38 ses is3	
US Libera A com on Pay Compoi ENG Mathe	ai Colle 10097 I Educa piete lis ges 85-6 osition 11011 21011 malics e from t 11009	aging (MRI) concentration. age or University Requirement First Year Experience FLASH I filion Requirements at of liberal education requirements College Writing I College Writing II and Critical Reasoning the following. Modeling Algebra (4)	S Point ent (LEA) cours	137-38 ses is3	
US Libera A com on Pay Compoi ENG Mathe	ai Colle 10097 I Educa piete lis ges 85-6 osition 11011 21011 malics e from t 11009	aging (MRI) concentration. age or University Requirement First Year Experience FLASH in the Requirements set of liberal education requirements. College Writing I college Writing II and Critical Reasoning the following.	S Point ent (LEA) cours	137-38 ses is3	

Minimum one course from humanities category and minimum

one course from fine arts category.

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11.

OPTION III
Additional Requirements
COMT 11000 Introduction to Computer Systems
Associate of Technical Studies in Radiologic Technology32
Lower-division electives
TOTAL 121-122
The The
*Course fulfills writing-intensive requirement.
·
Nuclear Medicine Technology Concentration
Students eligible for Options I, II or III may enroll in the nuclear
medicine technology (NMT) concentration.
The state of the s
I. General College or University Requirements
US 10097 First Year Experience FLASH Point
If, Liberal Education Requirements
A complete list of liberal education requirement (LER) courses is
on Pages 85-87.
Composition
ENG 11011 College Writing I
21011 College Writing It
Mathematics and Critical Reasoning
Choose from the following:
MATH 11009 Modeling Algebra (4)
- 11010 Algebra for Calculus (3)
Humanilies and Fine Arts
Minimum one course from humanities category and minimum
one course from fine arts category.
Social Sciences
Must be selected from two curricular areas.
PSYC 11762 General Psychology3
Social sciences LER course
Basic Sciences7-11
Students must choose the required courses for their option
Option I or III
CHEM 10050 Fundamentals of Chemistry
Basic sciences LER course
Choose from the following: ,
CHEM 10031 Chemistry in Our World Laboratory (1)
PHY 21041 Physics in Entertainment and the Arts Laboratory (1)
7
Option II
BSCI 20020 Biological Structure and Function
Choose one group from the following:
CHEM 10054 General and Elementary Organic Chemistry (5)
Qf

	CHEM	10050	Fundamentals of Chemistry (3)	
		10052	Introduction to Organic Chemistry (2)	
		10053	Inorganic and Organic Laboratory (1)	
			10-1	1
	Additio	onal LE	R courses , ,	6
			be selected from two categories, above, COMM	
			iction to Human Communication and PHIL 11009	
	Princip	oles of 1	Thinking may also be taken within this category.	
	uirement			
		t complete a two-course diversity requirement.		
	consis	ting of	one with a domestic (U.S.) focus and one with a	
	global	focus.	One course must come from the LER: the second	
	course	may be	e taken as a second LER, within a minor or	
	as a ge	eneral e.	lective. A complete list of diversity courses is on	
	_	89-91.		
	Writin	q-intens	sive Course Requirements	`
	Studer	- ils mus	t complete a one-course writing-intensive require-	
			minimum C (2.00) grade. This requirement is	
			concentration with RIS 44098. A complete list of	
	writing	-intens	ive courses is on Pages 93-95.	
	_		emen(s ,	39
	RIS		Patient Management in Nuclear Medicine	
			Nuclear Medicine Procedures I	
		44005	Nuclear Medicine Clinical Education I	3
		44006	Nuclear Medicine Physics & Instrumentation I	4
		44010	Nuclear Medicine Clinical Education II	3
		44011	Nuclear Medicine Radiopharmacy	4
		44012	Nuclear Medicine Procedures II	3
		44014	Nuclear Medicine Physics & Instrumentation II	3
		44015	Nuclear Medicine Clinical Education III	2
		44016	Nuclear Medicine Procedures III	3
		44017	Nuclear Medicine Radiation Salety	3
		44020	Nuclear Medicine Clinical Education IV	2
		44098	*Research in Medical Imaging	3
	OPTIO	N f		
	Additio	nal Re	quirements	54
	Techni	cal requ	irements in radiologic technology	4
	See rei	quireme	ents under the A.A.S. in radiologic technology	
	progra	m in thi	is Catalog.	
			TOTAL 13	1-132
	OPTIO	N II		
	Additio	nal Re	quirements	41
			Introduction to Computer Systems	
			Medical Terminology	
			cience electives or freshman entry	

OPTION TU CBE-RIS 44001, 44002, 44011, 44012, 44016, 44017 CREDIT-RIS 44005, 44006, 44010, 44014, 44015, 44020

OPTION III		
Additional Requirements	. ,	44
COMT 11000 Introduction to Computer System	ns	3
Associate of Technical Studies in Radiologic Te	chnology .	32
Lower-division electives		9
<u> </u>	TOTAL	121-122

^{*}Course fulfills writing-intensive requirement.

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Radiation Therapy Concentration

Students eligible for Options I. If or III may enroll in the radiation therapy (RTH) concentration.

Genera	ıl Calle	ge or University Requirements
U\$	10097	First Year Experience FLASH Point
Libera	l Eduça	tion Requirements
A com,	olete lis	t of liberal education requirement (LER) courses is
on Pag	es 85-8	17.
Compo	sition	
ENG	11011	College Writing I
	21011	College Writing II
Mathe	matics .	and Critical Reasoning
Choose	from t	he following:
MATH	11009	Modeling Algebra (4)
	11010	Algebra for Calculus (3)
Humai	illies ai	nd Fine Arts
Minim	ım one	course from humanities category and minimum
one co	urse fro	ım fine arts calegory.
\$ocial	Scienc	eş
Must b	e seleci	led from two curricular areas.
PSYC	11762	General Psychology
Social	science	s LER course
Basic :	Science	s
Studen	ts mus	t choose the required courses for their option
	Option	l or III
CHEM	10050	Fundamentals of Chemistry3
Basic s	ciences	LER course
Choose	from I	he following:1
CHEM	10031	Chemistry in Our World Laboratory (1)
PHY	21041	Physics in Entertainment and the Arts Laboratory (1)
		7
	Option	li .
BSCI	20020	Biological Structure and Function
PHY	13001	General College Physics I
PHY	13021	General Gollege Physics Laboratory [
		10

TOTAL

121-123

Option IV

CBE-RIS 34003, 34004, 34083, 44029, 44038, 44040,

CREDIT- RIS 34008, 34030, 44018, 44028, 44040,

44041, 44043, 44050, 44060, 44070

Regional Campuses

Additional LER courses COMM 15000 Introduction to Human Communications 3 Diversity Requirement Students must complete a two-course diversity requirement. consisting of one with a domestic (U.S.) focus and one with a global locus. One course must come from the LER: the second course may be taken as a second LER, within a minor or as a general elective. A complete list of diversity courses is on Pages 89-91. III. Writing-Intensive Course Requirements Students must complete a one-course writing-intensive requirement and earn minimum C (2.00) grade. This requirement is fulfilled in this concentration with RIS 44098. A complete list of writing-intensive courses is on Pages 93-95. IV. Major Requirements 34003 Radiation Therapy Principles/Practice I 3 34004 Radiation Therapy Patient Management 3 34083 Sectional Anatomy in Medical Imaging 3

44013 Radiation Therapy Principles/Practice II 3

44040 Radiation Therapy Clinical Education II1

44041 Radiation Therapy Quality Management 2

44043 Radiation Therapy Principles/Practice III 2

Additional Requirements

HED 14020 Medical Terminology 3

TOTAL

TOTAL

134-135

121-122

See requirements under the A.A.S. in radiologic technology

OPTION

OPTION II

program in this Catalon.

		\	\	\	/	
.42						
	•					
.54						

_	→	TOTAL	121-122
	Lower-division electives	<u></u>	6
	Associate of Technical Studies in Radiologic T	echnology	32
	COMT 11000 Introduction to Computer System	3ms	3
	Additional Requirements		, ,41
0P1	FION III		

*Gourse fulfills writing-intensive requirement.

ASSOCIATE DEGREE REQUIREMENTS

General Academic Requirements

In addition to completing a minimum of 61 semester hours of approved coursework and meeting all program requirements, candidates for an associate degree, entering the university in the Fall Semester 1980 or later with freshman standing, also must complete First Year Experience FLASH Point (US 10097), a 1-hour course.

To graduate, students must attain a minimum cumulative GPA of 2.00 for all coursework taken at Kent State University. Candidates for the Associate of Applied Business and Associate of Applied Science must attain a 2.00 cumulative GPA in the technical courses.

If students are required to take additional coursework to raise the GPA in the technical core to 2.00, the course(s) will be selected in consultation with the program advisor and approved prior to registration. It is required that such coursework be in the technical area. Candidates for the Applied Science in Nursing degree must attain a grade of at least C (2.00) in each nursing, biology, chemistry and nutrition course. Candidates in the applied science early childhood education program must attain a C (2.00) grade in every technical course.

Program Requirements

Before or upon completion of 32 semester hours, associate degree students are required to contact the student services office at their campuses to obtain an official program requirement sheet. This sheet should be completed in consultation with the students' advisors and a copy returned to the Student Services office.

Requests for adjustments in program requirements must be approved prior to enrolling in a course that is not in the prescribed curriculum. Requests for adjustments will not be accepted during the semester in which the students expect to graduate, except when a course has been canceled at the beginning of that semester or upon determination of the campus dean that there have been mitigating circumstances.

Kent State University Salem Campus Nuclear Medicine Technology Program

2491 State Route 45 South Salem, Ohio 44460 330-337-4261

Memo

To: EPC

Re:

From: Janet Berger, Director, Nuclear Medicine Program, Salem Campus

Date: October 30, 2008

Option IV for Radiologic and Imaging Sciences: Nuclear Medicine Concentration

As program director for the Nuclear Medicine Technology Program at Kent State University, I would like to express my support for the proposed option IV program that would allow nuclear medicine technologists who graduated from a hospital-based education program to attain a Bachelor in Radiologic and Imaging Sciences, Nuclear Medicine concentration.

Option IV would require no additional staffing. The academic center would administer the exam and the program director would be responsible for grading the exam. In addition, grading of either option would be required. A graduation requirement sheet will be completed and signed by the student and advisor.



Memo

To: EPC

From: Cyndi Peterson, Program Director

Diagnostic Medical Sonography Program, Salem Campus

Date: November 3, 2008

Re: Option IV for Radiologic and Imaging Sciences: Diagnostic Medical

Sonography Concentration

I would like to express my support for the proposed Option IV program that would allow diagnostic medical sonographers who graduated from a hospital-based education program to attain a Bachelor in Radiologic and Imaging Sciences, Diagnostic Medical Sonography concentration. I have advised several students in the recent past who would benefit from such a program, some of whom have ultimately sought education at other institutions.

Option IV would require no additional staffing. The academic center would administer the exam and the program director would be responsible for grading the exam. A graduation requirement sheet will be completed and signed by the student and advisor.

Kent State University Salem Campus Radiation Therapy Program

2491 State Route 45 South Salem, Ohio 44460 330-337-4261

Memo

To: EPC

From: Victoria Migge, M.S., R.T. (R)(T), Radiation Therapy Program Director, Salem

Campus

Date: October 30, 2008

Re: Option IV for Radiologic and Imaging Sciences: Radiation Therapy Concentration

Ever since the radiation therapy program graduated its first class in December of 2007, there has been interest from the radiation therapy community regarding acquiring a bachelor's degree. The radiation therapists in Northeast Ohio have a strong desire to obtain the same degree as the new graduates from Kent State University.

As program director for the Radiation Therapy Program at Kent State University, I would like to express my support for the proposed Option IV program that would allow radiation therapists who graduated from a hospital-based education program or an associate's degree program to attain a Bachelor in Radiologic and Imaging Sciences, Radiation Therapy concentration.

Option IV would require no additional staffing. The academic center would administer the exam and the program director would be responsible for grading the exam. A graduation requirement sheet will be completed and signed by the student and advisor.