

Transmittal Memo and Proposal Summary

Establish Course: MCED 4/50045: Teaching Mathematics in the Intermediate Years (grades 4-5)

1. Need, audience, and precursors for the course:

This three-credit hour course was created to fulfill the mathematics methods course component for the requirements for early childhood majors and teachers who have an early childhood teacher education license to receive an endorsement to teach in fourth and fifth grade. This endorsement was created by the state to be added onto the early childhood license so these teachers could teach at 4/5 grade level in Ohio. No other mathematics education course currently on the books would serve this need. Students who complete the Kent State University program in Early Childhood Education as well as former graduates from our program in Early Childhood Education and graduates from other early childhood education programs in Ohio will be the targeted audience. Currently, a majority of our students completing the program here have indicated an interest in seeking this endorsement. Former graduates and graduates from other programs have also expressed interest in completing this endorsement.

2. Effect on current offerings:

This course will not decrease the need for current offerings in other mathematics education courses. It has been created to fulfill a specific endorsement requirement.

3. Effect on staffing:

Offering this course will mean an additional class that needs to be staffed by mathematics education faculty but since this course will most likely be delivered to cohorts of students during the summer, staffing will only occur if enrollment supports faculty salary; further, if this course is offered during the academic year, it does not necessarily mean additional faculty would be required as careful attention is being given to strategic scheduling, i.e., courses may be offered less frequently, meaning that a wider variety of courses can be offered at no additional cost to the department.”

However, not offering it would mean that our students enrolled in the early childhood education program would not have the opportunity, on completing their program, to obtain this 4/5 grade endorsement through Kent State University. As other universities in the local area are offering this endorsement, this could mean that, not only would these students transfer to another institution to complete this endorsement but that prospective early childhood education majors may choose to complete their degrees at another institution where they could continue with this endorsement.

4. Effect on other units or programs and the curricular bodies that have reviewed and approved this action:

This course has been developed as a cross listed undergraduate/graduate course for two reasons: students completing their degree in early childhood education could elect to take this at either the undergraduate or graduate level; the advantage of the graduate level is that several concentration areas in the C&I Masters program have indicated that this would count towards their Masters in C&I, thus it could potentially increase the enrollment in our masters program. Offering it at the graduate level is intended to also attract teachers in the field who have an early childhood license and seek the 4/5 grade endorsement; again, this has the potential to increase enrollment in our C&I Masters program.

The proposed effective date for the new course is Spring 2010.

This proposal was approved by TLCS Curriculum Committee on March 9, 2009.

KENT STATE UNIVERSITY CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **9-Feb-09** Curriculum Bulletin _____

Effective Date **Fall 2009** Approved by EPC _____

Spring 2010

Department **TLCS**
 College **EH - Education, Health and Human Services**
 Proposal **Establish Course**
 Course Subject **MCED** Course Number **40045**
 Course Title **Teaching Mathematics in the Intermediate Years (grades 4-5)**
 Minimum Credits **03** Maximum Credits **03**

- | | | |
|---------------|--|---|
| | <input checked="" type="checkbox"/> Subject | <input checked="" type="checkbox"/> Cross-Listed / Slash |
| | <input checked="" type="checkbox"/> Number | <input checked="" type="checkbox"/> Grade Rule |
| | <input checked="" type="checkbox"/> Title | <input type="checkbox"/> Credit by Exam |
| Checked items | <input type="checkbox"/> Title Abbreviation | <input checked="" type="checkbox"/> Course Content |
| are new | <input checked="" type="checkbox"/> Credit Hours | <input type="checkbox"/> Liberal Education Requirements (LER) |
| or revised | <input type="checkbox"/> Prerequisites | <input type="checkbox"/> Writing-Intensive (WIC) |
| | <input checked="" type="checkbox"/> Description | <input type="checkbox"/> Diversity |
| | <input type="checkbox"/> Schedule Type | <input type="checkbox"/> Other |

Describe impact on other policies, programs or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need, audience, prerequisites; teacher education licensure):
Mathematics methods course needed to fulfill the requirements for early childhood majors and teachers who have an Early Childhood teacher education license to receive an endorsement to teach in fourth and fifth grade (new state requirement)

Units consulted (other departments, programs or campuses affected by this proposal):
ECED, MCED, TLCS

REQUIRED ENDORSEMENTS

Department Chair / School Director / Campus Dean	<u>3 / 16 / 09</u>
College Dean	<u> / / </u>
Executive Dean of Regional Campuses / Dean of Graduate Studies	<u> / / </u>
Senior Vice President for Academic Affairs and Provost	<u> / / </u>

BASIC DATA SHEET

Complete all fields. Data entered below should reflect new/revised information.

Preparation Date **9-Feb-09** Requested Effective Term ~~Fall-2009~~ **Spring 2010**

Course Subject **MCED** Course Number **40045**

Course Title **Teaching Mathematics in the Intermediate Years (grades 4-5)**

Title Abbreviation **Teaching Math Intermediate**
NOTE: Maximum 30 spaces, with no punctuation or special characters (exception: forward slash "/" is allowed with no spaces before or after the slash)

Slash Course **4 / 5 /** Cross-listed with **MCED 50045** Cross-list Banner code _____
4/5, 4/5/7 or 6/8 NOTE: To be completed by Curriculum Services.

Minimum Credit **03** to or Maximum Credit **03** (e.g., 3 to 3 credits, 1 to 12 credits, 2 or 4 credits)

Contact Hours Lecture Minimum Hours **03.00** to or Maximum Hours **3**
 Per Week Laboratory Minimum Hours to or Maximum Hours _____
 Other Minimum Hours to or Maximum Hours _____
NOTE: Contact hours should be per week.

Repeat Status **RP - Course may be repeated**
 If repeats, course limit _____ OR maximum hours _____

Course Level **UG - Undergraduate**

Grade Rule **C - Letter or In Progress (IP)**

Schedule Type(s) **LEC - Lecture**

Course Attribute(s) **none**

Credit By Exam **N - Credit by Exam Not Approved**

COMPLETE ONLY WHAT IS APPLICABLE TO THE COURSE

Prerequisite
 Course(s) **ECED 40147 with minimum grade of "C"**
NOTE: List minimum-grade requirement for course prerequisites if other than "D."

Test Score(s)
 Corequisite(s)

Registration is by special approval only Yes No
NOTE: Checking "yes" means all students must seek approval from department to register.

Restrict Registration
(e.g., VCD majors, East Liverpool Campus, junior level and above, graduate standing, BA-CHEM program)

COMPLETED BY CURRICULUM SERVICES	
OBR Program Code	_____
OBR Subsidy Code	_____
OBR Course Level	_____
CIP Code	_____

Catalog Description **To develop knowldege of the theories, materials and methods used to teach mathematics in the contemporary classroom for Grades 4-5 and develop skill in their use**
(do not include prerequisites)

Complete the following only if applicable:

Previous Title _____

Previous Subject _____ Previous Number _____

Term Start _____ Term End _____ NOTE: To be completed by Curriculum Services.

Content Outline (include contact hours for each section)

Contact Hours	Outline
3.00	ANALYZE AND UNDERSTAND SCIENTIFIC, RESEARCH-BASED THEORIES FOR TEACHING AND LEARNING OF MATHEMATICS WITH MIDDLE GRADES STUDENTS
3.00	PROBLEM SOLVING AND LOGICAL REASONING
3.00	MEANING, USE OF, AND COMPUTATION WITH WHOLE NUMBER
3.00	MEANING, USE OF, AND COMPUTATION WITH FRACTIONS AND DECIMALS
3.00	MEANING, USE OF, AND COMPUTATION WITH PERCENT, RATIO, AND PROPORTION
3.00	NUMBER SYSTEMS AND NUMBER THEORY
3.00	MENTAL COMPUTATION, ESTIMATION, AND NUMBER SENSE
3.00	PATTERNS, RELATIONS, AND FUNCTIONS
3.00	ALGEBRAIC CONCEPTS
3.00	GEOMETRY AND SPATIAL SENSE
3.00	PROBABILITY
3.00	DATA ANALYSIS/STATISTICS
3.00	ASSESSMENT IN THE MATHEMATICS CLASSROOM
3.00	EQUITY IN THE MATHEMATICS CLASSROOM
3.00	VARIOUS FORMS OF TECHNOLOGY USED IN MATHEMATICS

45 Total Contact Hours

Textbook(s) Used in this Course Van de Walle, J. & Lovin, L. (2006) Teaching student centered mathematics: Grades 3-5. Boston, Pearson.

National Council of Teachers of Mathematics, NCTM. (2000). Principles and Standards for School Mathematics. Reston, VA.

Ohio Academic Content Standards: Mathematics.

Writing Expectations

Instructor(s) Expected To Teach T. Koontz, G. Davis, M. Mikusa, A. Reynolds, J. Caniglia

Instructor(s) Contributing to Content T. Koontz, G. Davis, A. Reynolds

REQUIRED ENDORSEMENT

Miss J. Anderson
Department Chair / School Director / Campus Dean

3/16/09

Department of Teaching, Leadership and Curriculum Studies
Curriculum Committee 2008-2009

Members: Andrew Gilbert (Chair), Lisa Donnelly, Janice Hutchinson, Martha Lash, Gen Davis

Date: 3/9/09

Members present (on-line decision): Andrew Gilbert (Chair), Genevieve Davis, Lisa Donnelly, Janice Hutchinson, Martha Lash

New Business: Teaching Mathematics in the Intermediate Years (grades 4-5)
MCED 40045


Proposal submitted by: A. Reynolds

Comments:

The proposal passed unanimously. The committee feels that the course (as part of the future 4/5 generalist endorsement) will provide a needed enrollment boost and more importantly provide an important service for local schools and teachers.

Disposition:

- Approved
 Not Approved
 Will review re-submitted proposal

Signature: 
Andrew Gilbert, Ph.D.

Date: 3/9/09