INTEGRATED MATHEMATICS - B.S.E.

College of Education, Health and Human Services
School of Teaching, Learning and Curriculum Studies
404 White Hall
Kent Campus
330-672-2580
www.kent.edu/ehhs/tlcs

Description
The Bachelor of Science in Education degree in Integrated Mathematics prepares students for teacher licensure in grades seven to 12. Students complete most of their content coursework during their first three years; methods coursework typically begins during the spring of their third year. During the final year of the program, candidates complete remaining content courses, mathematics teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring.

Fully Offered At:
• Kent Campus

Accreditation
National Council for Accreditation of Teacher Education

Admission Requirements
Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirements of their intended major may enroll as into EHHS General until which time they have established a Kent State GPA of 2.750.

Current Kent State and Transfer Students: Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

English Language Proficiency Requirements for International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education’s admission website.

University Requirements
All students in a bachelor’s degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience

Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.

Diversity Domestic/Global (DIVD/DIVG)

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.

Experiential Learning Requirement (ELR)

Students must successfully complete one course or approved experience.

Kent Core (see table below)

Writing-Intensive Course (WIC)

Students must earn a minimum C grade in the course.

Upper-Division Requirement

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.

Total Credit Hour Requirement

Some bachelor’s degrees require students to complete more than 120 credit hours.

Kent Core Requirements

| Kent Core Composition (KCMP) | 6 |
| Kent Core Mathematics and Critical Reasoning (KMCR) | 3 |
| Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each) | 9 |
| Kent Core Social Sciences (KSS) (must be from two disciplines) | 6 |
| Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory) | 6-7 |
| Kent Core Additional (KADL) | 6 |
| Total Credit Hours: | 36-37 |

Program Requirements

Major Requirements

[BSE-IMTH]

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 10051</td>
<td>INTRODUCTION TO COMPUTER SCIENCE (KMCR)</td>
<td>4</td>
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<tr>
<td>MATH 12002</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I (KMCR)</td>
<td>5</td>
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<tr>
<td>MATH 12003</td>
<td>ANALYTIC GEOMETRY AND CALCULUS II</td>
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<td>MATH 21000</td>
<td>LINEAR ALGEBRA WITH APPLICATIONS</td>
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<td>MATH 22005</td>
<td>ANALYTIC GEOMETRY AND CALCULUS III</td>
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<td>MATH 30011</td>
<td>BASIC PROBABILITY AND STATISTICS</td>
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<td>MATH 31011</td>
<td>PROOFS IN DISCRETE MATHEMATICS</td>
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<td>MATH 34001</td>
<td>FUNDAMENTAL CONCEPTS OF ALGEBRA</td>
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<td>MATH 34002</td>
<td>FUNDAMENTAL CONCEPTS OF GEOMETRY</td>
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</table>
Students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA¹; Praxis Core scores; and performance in English and communication studies coursework. Applicants to the Integrated Mathematics major must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services’ Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with advanced study.

¹ Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

### Graduation Requirements

<table>
<thead>
<tr>
<th>Minimum Major GPA</th>
<th>Minimum Overall GPA</th>
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<tbody>
<tr>
<td>2.600</td>
<td>2.750</td>
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### Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major), or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major.
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
   a. ADED 42292 (or the equivalent required by the major outside the college)
   b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42357, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

### Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month
deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

**Roadmap**

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td><strong>Semester One</strong></td>
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<tr>
<td>COMM 15000</td>
<td>INTRODUCTION TO HUMAN COMMUNICATION (KADL)</td>
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<td>! CULT 29535</td>
<td>EDUCATION IN A DEMOCRATIC SOCIETY</td>
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<td>UC 10097</td>
<td>DESTINATION KENT STATE: FIRST YEAR EXPERIENCE</td>
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<td><strong>Semester Two</strong></td>
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<td>Requirement: pass Praxis Core Reading (156 score), Writing (162 score) and Mathematics (150 score)</td>
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<td>HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS</td>
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<td>! ADED 42292</td>
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<td>! ADED 49525</td>
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<td><strong>Minimum Total Credit Hours:</strong></td>
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