Butler University
College of Education
Teacher Licensing
Curriculum Sheets

License Requirements for students entering Program Fall 2017 and later

Butler University Major: Middle/Secondary Education
Butler University Degree: Bachelor of Science (COE); second major (LAS)*
License: MATHEMATICS Teaching Content Area
Grades: 5-12
*see LAS advisor for additional requirements

SECTION A. GENERAL EDUCATION REQUIREMENTS

Required Courses 12 hours

FYS First-Year Seminar – Self, Community, and the World (6 credit hours)
(courses must be completed with a grade of “C” or better)

GHS Global and Historical Studies (6 credit hours)

ICR Indianapolis Community Requirement (ED 227S, ED 228S)

BCR Butler Cultural Requirement (8 events prior to graduation)

WAC Writing across the Curriculum (ED434WC)

SAC Speaking across the Curriculum (ED434WC)

6 Areas of Inquiry: 12 hours

1. TI: Text and Ideas - Humanities 3 hours

2. PCA: Perspectives in the Creative Arts – Fine Arts 3 hours

3. SW: Perspectives in the Social World – Social Sciences 0 hours

College of Education students are exempt from this area of inquiry

4. NW: The Natural World – Natural Sciences 5 hours

5. AR: Analytical Reasoning [MA 106 required for major] 0 hours

6. PWB: Physical Well Being 1 hour

Contact: Teacher Licensing, College of Education – Jordan Hall 184A
4600 Sunset Avenue, Indianapolis, IN 46208  317-940-9331

Updated Fall 2017- Subject to change pending modification by the Indiana Department of Education
**SECTION B. CONTENT AREA COURSES**
(courses must be completed with a grade of “C” or better)

**MATHEMATICS License Requirements Grades 5-12**

Major Field Test – senior year – **Fall** - Required during ED 433 enrollment

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MA 106</td>
<td>Calculus and Analytic Geometry I (5)</td>
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<tr>
<td>MA 107</td>
<td>Calculus and Analytic Geometry II (4)</td>
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<tr>
<td>MA 162</td>
<td>Statistical Methods (3)</td>
<td></td>
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<tr>
<td>MA 200</td>
<td>Basics of Advanced Mathematics (3)</td>
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<tr>
<td>CS 142</td>
<td>Introduction to Computer Programming (3)</td>
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<tr>
<td>MA 108/308</td>
<td>First Year Problem Solving (1)</td>
<td>Fall only, First Year only <strong>OR</strong></td>
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<tr>
<td></td>
<td>MA 308 Problem Solving *required if major is declared after fall</td>
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<tr>
<td></td>
<td>first year term</td>
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<tr>
<td>MA 205</td>
<td>Discrete Mathematics I (3)</td>
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<tr>
<td>MA 208</td>
<td>Calculus and Analytic Geometry (3)</td>
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<tr>
<td>MA 215</td>
<td>Linear Algebra (3)</td>
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<tr>
<td>MA 301*</td>
<td>History of Mathematics (3)</td>
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<tr>
<td>MA 312</td>
<td>Modern Algebra I (3) Spring only</td>
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<tr>
<td>MA 326</td>
<td>Real Analysis I (3) Fall only</td>
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<tr>
<td>MA 313</td>
<td>Modern Algebra II (3) Fall only</td>
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<td><strong>OR</strong></td>
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<tr>
<td>MA 327</td>
<td>Real Analysis II (3) Spring only</td>
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<tr>
<td>MA 330</td>
<td>Complex Analysis (3) Spring only</td>
<td></td>
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<tr>
<td>MA 351*</td>
<td>Geometry (3) Spring only</td>
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<td>*count as upper division electives for mathematics majors</td>
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</tbody>
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**NOTE:** For Mathematics and Education double major in LAS and COE:

- **FL** 6 hours
- *1 additional upper division course
C. PROFESSIONAL EDUCATION COURSES 45 Hours
(courses must be completed with a grade of “C” or better)

**COE CORE I:**
ED 112 Introduction to the Profession of Teaching (2)
ED 245 Introduction to Computers in Education (3) *(should be taken in the same semester as ED112)*

Must Complete COE CORE I classes with a C (2.0) or better and pass CASA or other accepted benchmark indicators before moving into COE CORE II.

**COE CORE II:**
ED 299 Integrated CORE II Block (8)
**OR**
ED 241 Developmental Theory and Application in Education (3)
ED 242 Educating Children with Special Needs (2)
ED 244 Concepts of Education (3)

At the completion of COE CORE II student must apply to be admitted to Teacher Education/COE CORE III.

**COE CORE III:** *(must be admitted to Teacher Education)*
ED 227S Introduction to Middle-Secondary Students and Schools (3)
ED 228S Content Area Literacy in Middle-Secondary Curriculum (3)
ED 398 Multilingual Learners and Their Cultural Contexts (3)
ED 498 Methods for Teaching Multilingual Learners (3)
ED 492 Special Education Law (1)
*(can be taken during COE CORE II or COE CORE III)*

ED 327 Curriculum and Instructional Strategies for Middle Schools (3):
Prerequisites ED 227S and ED 228S – Spring Junior year is optimal
ED 433 Content Area Methods for High School (4) – Fall only in Senior year
Prerequisite ED 327

**COE CORE IV:** Student Teaching Courses
ED 434WC Secondary Student Teaching Professional Seminar (2)
ED 423 Student Teaching (5)(Middle Level Student Teaching)
ED 425 Secondary Student Teaching (5) (High School)

D. ELECTIVES

NOTE: 126 hours are required for graduation from the University. At least 40 of the 126 hours needed for graduation must be in upper division courses – courses numbered 300 or above.

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E. TESTING REQUIREMENTS

The Pearson CASA basic skills exam or other accepted benchmark indicator must be received 1 week prior to admission to COE CORE II classes. Information will be available through the COE website and your advisor.

A Pedagogy Exam and Indiana Core Content Tests are required for teaching licensure in the state of Indiana. The tests measure understanding of the content and methods applicable to the specific subject areas. Test preparation materials and registration are available at http://www.in.nesinc.com/Home.aspx.

F. CPR/HEIMLICH/AED and SUICIDE AWARENESS/PREVENTION

Applicants who receive an ‘initial’ teacher’s license must have successfully completed training in:

1. cardiopulmonary resuscitation that includes a test demonstration on a mannequin;
2. moving a foreign body causing an obstruction in an airway, and Heimlich Maneuver;
3. AED; and
4. suicide awareness/prevention

A copy of your CPR/Heimlich/AED certification is required for original licensure.

A certificate verifying your successful completion of a suicide awareness/prevention module is required for original licensure.

Please note: If you follow this specified plan you will have met the core curriculum course requirements, the Butler University graduation course requirements, and the initial Indiana licensing course requirements.