Butler University
College of Education
Teacher Licensing
Curriculum Sheets
License Requirements for students entering Program Fall 2019 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

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>12 hours</th>
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<tbody>
<tr>
<td>FYS First-Year Seminar – Self, Community, and the World (6 credit hours) (courses must be completed with a grade of “C” or better)</td>
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<tr>
<td>GHS Global and Historical Studies (6 credit hours)</td>
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<td>ICR Indianapolis Community Requirement (ED 227S, ED 228S)</td>
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<td>BCR Butler Cultural Requirement (8 events prior to graduation)</td>
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<td>WAC Writing across the Curriculum (ED434WC)</td>
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<td>SAC Speaking across the Curriculum (ED434WC)</td>
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6 Areas of Inquiry:  12 hours
1.   TI: Text and Ideas - Humanities
2.   PCA: Perspectives in the Creative Arts – Fine Arts
3.   SW: Perspectives in the Social World – Social Sciences
    College of Education students are exempt from this area of inquiry
4.   NW: The Natural World – Natural Sciences
5.   AR: Analytical Reasoning [MA 106 required for major]
6.   PWB: Physical Well Being

SECTION B.  CONTENT AREA COURSES

Contact:  Curriculum Coordinator, College of Education – SCMB 229
         4250 Haughey Ave., Indianapolis, IN 46208   317-940-6967

Updated Fall 2019- Subject to change pending modification by the Indiana Department of Education
(courses must be completed with a grade of “C” or better)

**MATHEMATICS License Requirements Grades 5-12**

NOTE: A portfolio documenting proficiency on NCTM Content Standards is a required component of ED 433. Mathematics Education majors should be documenting progress on these standards across entire program within the e-portfolio designed in COE CORE I courses. by selecting key evidence from each mathematics course taken in the program.

**Required Courses:**

- **MA 106**  Calculus and Analytic Geometry I (4) - if not taken for AR credit
- **MA 107**  Calculus and Analytic Geometry II (4)
- **MA 108/308**  First Year Problem Solving (1) Fall only for First Years OR
  **MA 308**  Problem Solving *required if major is declared after fall first year
- **CS 142**  Introduction to Computer Programming (3)
- **MA 200**  Basics of Advanced Mathematics (3)
- **MA 205**  Discrete Mathematics I (3) Fall only
- **MA 208**  Calculus and Analytic Geometry (3)
- **MA 215**  Linear Algebra (3)
- **ED 419***  Thinking Mathematically (3) Spring
- **MA 312**  Algebra: Groups (3) Spring only
- **MA 326W**  Analysis: Theory of Calculus (3) Fall only
- **MA 313**  Algebra: Rings and Fields (3) Fall only
  OR
- **MA 327**  Analysis: Lebesque Integration (3) Spring only Alternating
- **MA 330**  Complex Analysis (3) Spring only
- **MA 351*  Geometry (3) Spring only Alternating
- **MA 359*  Probability and Statistics (3)

*counts as upper division electives for COE candidates double majoring in mathematics.

**NOTE:** For Mathematics and Education double major in LAS and COE:

- **FL** 6 hours
C. PROFESSIONAL EDUCATION COURSES

(courses must be completed with a grade of “C” or better)

**COE CORE I:**

ED 199 Exploring Educator Identity (5)

**COE CORE II:**

ED 299 Integrated Foundations of Teacher Education (6)
ED 242 Foundations of Special Education (2) *Required co-enrollment w/ ED 299

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

Must purchase Taskstream subscription. May purchase subscription each year or one-time multi-year subscription.

**COE CORE III Program Specific:** (must be admitted to Teacher Education/COE CORE III)

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)
ED 327 Curriculum and Instructional Strategies for Middle Schools (3): Prerequisites ED 227S and ED 228S – Spring only--Junior year is optimal*

*Students planning on student teaching next academic year must attend information sessions and submit specific documents to the College of Education in order to ensure proper and appropriate placement.

ED 433 Content Area Methods for High School (4) – Fall only in Senior year Prerequisite ED 327

A portfolio documenting proficiency on NCTM Content Standards is a required component of ED 433.

**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.

E. TESTING REQUIREMENTS
Information will be available through the COE website and the Director of Student Personnel Services in the College of Education SCMB 105: 317-940-9331.

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.

**edTPA for Secondary Mathematics is required to be submitted to Pearson for national scoring during Phase I of Student Teaching.**

**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.