License Requirements for students entering Program Fall 2020 and later

Butler University Major: Middle/Secondary Education
Butler University Degree: Bachelor of Science (COE)
License: MATHEMATICS Teaching Content Area
Grades: 5-12
*For second major in (LAS) 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 (courses must be completed with a grade of “C” or better)</td>
<td>6 hours</td>
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<tr>
<td>GHS Global and Historical Studies</td>
<td>6 hours</td>
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<td>ICR Indianapolis Community Requirement (ED 414S, 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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<td>SJD Social Justice and Diversity (ED398)</td>
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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: Curriculum Coordinator, College of Education – SCMB 229
4250 Haughey Ave., Indianapolis, IN 46208   317-940-6967

Updated Fall 2020- Subject to change pending modification by the Indiana Department of Education
SECTION B. CONTENT AREA COURSES 36 hours
(courses must be completed with a grade of “C” or better to meet COE standard)

MATHEMATICS License Requirements Grades 5-12

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 MA308
  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)

MA 312 Algebra: Groups (3) Spring only
MA 326W Analysis: Theory of Calculus (3) Fall only

OR

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

SECTION C. PROFESSIONAL EDUCATION COURSES 54 Hours
(courses must be completed with a grade of “C” or better)

COE CORE I:
ED 199 Exploring Educator Identity (5)

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

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

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

COE CORE III Program Specific: (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 414S Teaching Mathematics: Middle Childhood (3)

Updated Fall 2020
ED 419 Thinking Mathematically (3) (Spring)
ED 491 Behavior Management for Inclusive Classrooms (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

**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**

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<tr>
<th>Elective hours in Program</th>
<th>12 hours</th>
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<td>Candidates are encouraged, but not required, to utilize elective hours to complete the requirements for a <strong>Diverse Learners Minor</strong> OR the additional requirements for a second major in Mathematics through the College of Liberal Arts and Sciences.</td>
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The **Diverse Learner Minor** course required beyond those already included in the program requirements include:
ED 243 Methods and Materials: Strategies for Teaching Students with Mild Disabilities (3)

**Mathematics Major in LAS** course requirements beyond those already in included in the College of Education program:
3 Upper Division Mathematics electives (9)
FL (6)
*Candidates are encouraged to declare the double major as soon as possible to support best advising and course sequencing options.

**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.

Updated Fall 2020
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.