**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</td>
<td>6 hours</td>
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<tr>
<td>(courses must be completed with a grade of “C” or better)</td>
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<tr>
<td>GHS Global and Historical Studies</td>
<td>6 hours</td>
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<tr>
<td>ICR Indianapolis Community Requirement (ED 418S, ED 228S)</td>
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<tr>
<td>BCR Butler Cultural Requirement (8 events prior to graduation)</td>
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<tr>
<td>WAC Writing across the Curriculum (ED434WC)</td>
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<tr>
<td>SAC Speaking across the Curriculum (ED434WC)</td>
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<tr>
<td>SJD Social Justice and Diversity (ED398)</td>
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**6 Areas of Inquiry:**

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 [see Content Requirements-Section B]
5. **AR:** Analytical Reasoning [see Content Requirements-Section B]
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
B. CONTENT AREA COURSES

(courses must be completed with a grade of “C” or better to meet COE standard)

CHEMISTRY License Requirements for Grades 5-12

Required Chemistry Courses (12 hours)
CH 105    General Chemistry I and Lab (4)
CH 106    General Chemistry II and Lab (4)

OR
CH 107    Advanced Placement General Chemistry (5)

CH 351    Organic Chemistry I (4)
CH 352    Organic Chemistry II (4)

Elective Chemistry Courses (20 hours minimum)
(Must include 2 of the 4 areas)
Analytical Chemistry:
CH 321    Analytical Chemistry I (4)
CH 422    Analytical Chemistry II (3)
CH 424    Instrumental Analysis Laboratory (3)

Biological Chemistry:
CH 361    Introduction to Biochemistry (3)
CH 462    Biochemistry Laboratory I (4)
CH 463    Biochemistry IIA (3)

Inorganic Chemistry:
CH 331    Inorganic Chemistry (3)
CH 431    Advanced Inorganic Chemistry (3)

Physical Chemistry:
CH 471 or 472    Physical Chemistry I (3)
CH 473 or 474    Physical Chemistry Laboratory I (3)

Required Allied and Science Support Courses (9 hours)
MA 106    Calculus and Analytic Geometry I [meets AR Core requirement] (4)
NW 260    COE Earth Systems Science (5)

C. PROFESSIONAL EDUCATION COURSES 51 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.

Updated Fall 2020
**COE CORE II:**
ED 299   Integrated Foundations of Teacher Education (6)
ED 242   Foundations of Special Education (2) *Required co-enrollment with 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 227   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 418S  Teaching Science and Social Studies: Middle Childhood (3)
          Prerequisites ED 227 and ED 228S--Spring Sophomore or Fall Junior year
ED 491   Behavior Management for Inclusive Classrooms (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;
          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>15 hours</th>
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Candidates are encouraged, but not required, to utilize elective hours to complete the requirements for a Diverse Learners Minor OR the additional requirements for a second major in Chemistry through the College of Liberal Arts and Sciences.

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)

Chemistry Major in CLAS course requirements beyond those already in included in the College of Education program:
PH 107 and PH 108   Elementary Physics (8)
          OR
PH 201 and PH 202   Analytical Physics (10)
FL (6)

Updated Fall 2020
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 Science 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. removing 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.

Updated Fall 2020