Butler University
College of Education
Teacher Licensing
Curriculum Sheets
License Requirements for students entering Program Fall 2016 and later

Butler University Major: Middle/Secondary Education
Butler University Degree: Bachelor of Science (COE); Bachelor of Arts (LAS)*
License: CHEMISTRY 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:

7 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 [see Content Requirements-Section B]
5. AR: Analytical Reasoning [see Content Requirements-Section B]
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 2016- 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)

CHEMISTRY License Requirements for Grades 5-12
(Aligned to Chemistry Major Checklist)

54-56 hours

**Required Chemistry Courses, (24 hours)**
CH 105 General Chemistry I and Lab (5)
CH 106 General Chemistry II and Lab (5)

**OR**
CH 107 Advanced Placement General Chemistry (6)

CH 351 Organic Chemistry I (5)
CH 352 Organic Chemistry II (5)
CH 494 Undergraduate Research – 2 semesters (4)

**Elective Chemistry Courses (12 hours minimum)**
(Must include 2 of the 4 areas)
Inorganic Chemistry:
CH 332 Inorganic Chemistry (3)
CH 431 Advanced Inorganic Chemistry (3)
CH 432 Synthesis and Characterization (2)

Analytical Chemistry:
CH 321 Analytical Chemistry I (5)
CH 422 Analytical Chemistry II (3)

Biological Chemistry:
CH 361 Biochem I: Bio Organic (4)
CH 462 Biochem IIA: Central Metabolism (4)

Physical Chemistry:
CH 471 Physical Chemistry I (3)
CH 472 Physical Chemistry II (3)

**Required Allied and Science Support Courses (18-20 hours)**

MA 106 Calculus and Analytic Geometry I [meets AR Core requirement] (5)

PH 107 and PH 108 Elementary Physics (8)

**OR**
PH 201 and PH 202 Analytical Physics (10)

NW 260 COE Earth Systems Science (5)

**NOTE:** For Chemistry and Education double major in LAS and COE:
FL 6 hours

Updated Fall 2016
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) *(Must be taken in the same semester as ED 112)*

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

**COE CORE II:**

- ED 299 Integrated COE 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
  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.

Updated Fall 2016
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. 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.