**CURRICULUM GUIDE**  
**Biology, B.S. (Teaching Concentration)**  
**2020-2021**  
Website: www.biology.eku.edu  
Email Contact: biology@eku.edu

The schedule below is an EXAMPLE of how you can arrange your class schedule. Please consult your advisor for specific changes that may need to be made.

### Upper Division Courses

- All students are required to have a minimum of 42 hrs. upper division (300 level or above) courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories.

Refer to the University Catalog at http://wwwкаталоги.еку.еду/ regarding University and General Education Requirements. All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103. Writing intensive courses are designated with the suffix "WI" following the course prefix and number (e.g. HUM 300WI).

### Applied Critical & Creative Thinking (ACCT) Requirement

Biology majors will fulfill ACCT with one of the following: BIO 320, 349, 598, HON 420 with a thesis topic approved by the Biology department, a program-approved leadership experience, or a program-approved study abroad experience. (Credit hours are incorporated into program requirements.)

### Core Course Requirements

1. **Core Course Requirements**

   - BIO 111 General Chemistry I (3)
   - CHE 111L General Chemistry Lab I (1)
   - CHE 112 General Chemistry II (3)
   - CHE 112L General Chemistry Lab II (1)
   - CHE 361 Organic Chemistry I (3)
   - CHE 361L Organic Chemistry Lab I (1)
   - CHE 362 Organic Chemistry II (3)
   - CHE 362L Organic Chemistry Lab II (1)
   - CHE 111 Cell and Molecular Biology (4)
   - BIO 112 Ecology and Evolution (4)
   - BIO 315 Genetics (4)
   - BIO 316 Ecology (4)
   - BIO 318 Botany (4)
   - BIO 319 Zoology (4)
   - BIO 320 Principles of Microbiology (4)
   - BIO 495 Evolution Theory and Application (1)

   Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

### Supporting Course Requirements

- **Supporting Course Requirements**

  - CHE 111 General Chemistry I (3)
  - CHE 111L General Chemistry Lab I (1)
  - CHE 112 General Chemistry II (3)
  - CHE 112L General Chemistry Lab II (1)
  - CHE 361 Organic Chemistry I (3)
  - CHE 361L Organic Chemistry Lab I (1)
  - CHE 362 Organic Chemistry II (3)
  - CHE 362L Organic Chemistry Lab II (1)
  - CHE 111 Cell and Molecular Biology (4)
  - BIO 112 Ecology and Evolution (4)
  - BIO 315 Genetics (4)
  - BIO 316 Ecology (4)
  - BIO 318 Botany (4)
  - BIO 319 Zoology (4)
  - BIO 320 Principles of Microbiology (4)
  - BIO 495 Evolution Theory and Application (1)

   **Bracketed items must be taken concurrently.**

   **PROFESSIONAL EDUCATION REQUIREMENTS**

   - EDC 300 Differentiation Inclusive Classrooms (3)
   - EDF 203 Philosophical & Historical Found. of Ed. (3)
   - EDF 301 Emerging Instructional Technologies (2)
   - EDF 219 Human Development and Learning (3)
   - EDF 413 Assessment in Education (3)
   - EMS 300W Curriculum & Instructional Design (3)
   - EMS 474 Teaching Content Reading (3)
   - ESE 490 Classroom & Behavior Management in P-12 (3)
   - ESE 561 Teaching Science in the Secondary Schools (3)
   - EDC 300 Differentiation Inclusive Classrooms (3)
   - EDF 203 Philosophical & Historical Found. of Ed. (3)
   - EDF 301 Emerging Instructional Technologies (2)
   - EDF 219 Human Development and Learning (3)
   - EDF 413 Assessment in Education (3)
   - EMS 300W Curriculum & Instructional Design (3)
   - EMS 474 Teaching Content Reading (3)
   - ESE 490 Classroom & Behavior Management in P-12 (3)
   - ESE 561 Teaching Science in the Secondary Schools (3)
   - EDC 300 Differentiation Inclusive Classrooms (3)

      **PLUS ELEVEN (11) HOURS OF CLINICAL EXPERIENCES TO INCLUDE:**

- **PLUS ELEVEN (11) HOURS OF CLINICAL EXPERIENCES TO INCLUDE:**

  - CED 100 Clinical I: Intro to the Education Prof. (0)
  - CED 200 Clinical II: Understanding the Learner (0)
  - CED 300 Clinical III: Curriculum & Instruct. Des. (0.5)
  - CED 400 Clinical IV: Diagnosis & Perception (0.5)
  - CED 450 Clinical V: Practicing Teaching (1 fall only)
  - CED 499 Supervised Student Teaching P-12 (0.5)

   **Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.**

### Examples of Degree Completion

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