

**Advising for Biology Major with Dual Secondary Education Major**

**(Indiana Life Science Certification Grades 5-12)** *Rev. 6.2020*

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| **Core Curriculum Requirement (CCRs)** | **Units Req.** | **Course** |
| FY Experience/FY Seminar  | 0.5 |  |
| LA-Literary and Artistic Perspectives #1 | 1 |  |
| LA-Literary and Artistic Perspectives #2 | 1 |  |
| HS-Historical and Social Perspectives #1 | 1 |  |
| HS-Historical and Social Perspectives #2 | 1 |  |
| RP- Philosophical Perspectives | 1 |  |
| RP-Religious Perspectives | 1 |  |
| SL-Algorithmic Methods | 1 |  |
| SM-Mathematical Methods | 1 |  |
| SM- Scientific Methods | 1 |  |
| WL-World Languages and Cultures #1 | 1 |  |
| WL-World Languages and Cultures #2 (sequential) | 1 |  |
| AF-Health and Fitness (Applied) #1 | 0.25 |  |
| AF-Health and Fitness (Applied) #2 | 0.25 |  |
| **Total CCR units** | **12 units** |  |
| **Areas of Competency and Engagement (ACES)** |  | **Course** |
| W1-Writing  | 1 |  |
| W2-Writing | 1 |  |
| S-Speaking | 1 |  |
| CP-Cultural Perspectives | 1 |  |
| QL- Quantitative Reasoning | 1 |  |
|  | **5 units** |  |

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| **Requirements for Licensing Certification with Dual Secondary Education Major** | **Units Req.** | **Course Semester** |
| EDU 221 Education and the American Culture | 1 |  |
| EDU 231 Education Law and Ethics | 1 |  |
| EDU 252 Professional Collaboration | 1 |  |
| EDU 255 Classroom Management & PBIS | 1 |  |
| EDU 226 Integrating Technologies in Instruction | 1 |  |
| **EDU 312 Urban Teaching** | 1 |  |
| **EDU 314 Teaching Middle School (EDU Admission Req)** | 1 |  |
| **EDU 315 Teaching High School (EDU Admission Required)** | 1 |  |
| **EDU 337 Secondary Methods in Sciences (EDU Admission Required)** | 1 |  |
| **EDU 455 Student Teaching in Secondary Schools (EDU Admission Required)** | 4 |  |
| **EDU 461 Senior Seminar** | 1 |  |
| **EDU 499 Comprehensive Examination** | - |  |
| **Cognate Courses (Required)** |  |  |
| PSY 111 Basic Principles of Psychology | 1 |  |
| PSY 244 Childhood and Adolescence | 1 |  |
|  | **16 total** | **EDUCATION COURSES WITH DUAL MAJOR** |

**Optional Dual Certification in Special Education Available (5 units)**

***\*See Teaching Diverse Learners Program Advising Sheet***

**Biology Major Course Requirements for Secondary Education Certification**

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| **Biology Major Requirements for Bachelor of Arts***(Consult Biology Faculty for Bachelor of Science Requirements)* | **Units** | **Course Semester** |
| BIO 161 | 1 |  |
| BIO 185 | 1 |  |
| BIO 221 | 1 |  |
| BIO 231 Required for EDU certification | 1 |  |
| BIO 235 Required for EDU certification | 1 |  |
| BIO 326 or 336 Required for EDU certification | 1 |  |
| Elective 4 | 1 |  |
| Elective 5 | 1 |  |
| BIO 462 CULMINATING EXPERIENCE | 1 |  |
| BIO 499 Comprehensive Exam | - |  |
| **COGNATE COURSES** |  |  |
| CHE 161  | 1 |  |
| CHE 185 | 1 |  |
| **Total for BIO major and Secondary Education Certification** | **11 TOTAL** |  |

***Please refer to the academic catalog for complete details on graduation requirements.***

***While the academic advisors and other personnel are available for assistance, the primary responsibility for taking appropriate and required courses to meet graduation requirements rests with the student.***

***Compliance with REPA content and pedagogy established by the Indiana Department of Education and the National Science Teachers Association (NSTA) and is required by the Educator Preparation Program’s policies, curricula, and course content regardless of the student’s admission date in the program.***

**REVIEWED WITH BIOLOGY DEPARTMENT \_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**NOTES:**