

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

**(Indiana Physics Grades 5-12) revised 5/2020**

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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, Mathematical and Scientific Methods (3 required with three different prefixes) | 1 | CHEM 161, BIO 161, AST 165/166 all required |
| SM- Algorithmic, Mathematical and Scientific Methods | 1 | MAT 121 |
| SM- Algorithmic, Mathematical and 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 Required)** | 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 CERTIFICATION WITH SECONDARY ED DUAL MAJOR** |

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

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

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| **Physics Major Requirements for Bachelor of Arts** | **Units** | **Course Semester** |
| PHY 162 | 1 |  |
| PHY 186 | 1 |  |
| PHY 225 | 1 |  |
| PHY 245 | 1 |  |
| PHY 3O1 SEMINAR TERM 1 | .25 |  |
| PHY 301 SEMINAR TERM 2 | .25 |  |
| PHY 320 | 1 |  |
| PHY 331 | 1 |  |
| PHY 332 | 1 |  |
| PHY 340 REQUIRED FOR MAJOR BUT NOT ON EDU MATRIX | 1 |  |
| PHY 471 Culminating Experience (REQUIRED FOR EDU CERTIFICATION) | 1 |  |
| PHY499 Comprehensive Exam | - |  |
| **COGNATE COURSES** |  |  |
| MAT 121 | 1 |  |
| MAT 122 | 1 |  |
| **ADDITIONAL COURSES FOR EDU CERTIFICATION** |  |  |
| **CS 220 Recommended FOR EDU CERTIFICATION** | **1** |  |

***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, 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 PHYSICS DEPT \_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_**

**NOTES:**