

PHYSICS: SECONDARY TEACHER CERTIFICATION, BS

Example Plan of Study

Finish in Four Plan of Study

The plan below is an **example** of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

| Course | Title | Hours |
|--------------------------------------|--|-----------|
| Freshman | | |
| Fall | | |
| BIOL 1113 & BIOL 1111 | Introductory Biology (N) and Introductory Biology Laboratory (LN) | 4 |
| CHEM 1314 | Chemistry I (LN) | 4 |
| MATH 2144 | Calculus I (A) | 4 |
| SMED 1012 | Inquiry Approaches to Teaching | 2 |
| Hours | | 14 |
| Spring | | |
| CHEM 1515 | Chemistry II (LN) | 5 |
| MATH 2153 | Calculus II (A) | 3 |
| PHYS 2014 | University Physics I (LN) | 4 |
| General Education courses | | 3 |
| Hours | | 15 |
| Sophomore | | |
| Fall | | |
| MATH 2163 | Calculus III | 3 |
| PHYS 2114 | University Physics II (LN) | 4 |
| General Education courses | | 9 |
| Hours | | 16 |
| Spring | | |
| MATH 2233 | Differential Equations | 3 |
| PHYS 2203 | University Physics III | 3 |
| PHYS 3513 | Mathematical Physics | 3 |
| SMED 3013 | Knowing and Learning in Mathematics and Science | 3 |
| SPED 3202 | Educating Exceptional Learners (D) | 2 |
| Hours | | 14 |
| Junior | | |
| Fall | | |
| CIED 3313 | Field Experience in the Secondary Schools | 3 |
| PHIL 3933 | Creation and Evolution (August Pre-Session Only) | 3 |
| PHYS 3013 | Mechanics I | 3 |
| PHYS 3323 | Modern Laboratory Methods I | 3 |
| PHYS 3713 | Modern Physics | 3 |
| Hours | | 15 |
| Spring | | |
| CIED 4133 | Introduction to K-12 English Language Learners | 3 |
| PHYS 3623 | Modern Laboratory Methods II | 3 |
| SMED 4611 | Authentic Research in the Science Classroom | 1 |
| SMED 4613 | Teaching the Nature of Science Through an Inquiry Approach | 3 |
| Major, College, and Elective courses | | 6 |
| Hours | | 16 |
| Senior | | |
| Fall | | |
| PHYS 4113 | Electricity and Magnetism | 3 |

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| STAT 4013 | Statistical Methods I (A) | 3 |
| SMED 4023 | Problem-Based Learning in Mathematics and Science | 3 |
| SMED 4713 | Teaching and Learning Science in the Secondary School | 3 |
| | | 3 |
| Hours | | 15 |
| Spring | | |
| CIED 4720 | Internship in the Secondary Classroom | 6 |
| SMED 4723 | Senior Seminar in Secondary Mathematics and Science Education | 3 |
| Major, College, and Elective courses | | 6 |
| Hours | | 15 |
| Total Hours | | 120 |