

Southern Illinois University Edwardsville

BACHELOR OF SCIENCE - PHYSICS

Secondary Education Certification: Grades 6-12

This guide provides only a suggested course of study and should be used in consultation with an adviser and the SIUE Undergraduate Catalog available online at www.siu.edu/registrar/.

YEAR	FALL	SPRING
1	CHEM 121a General Chemistry (Intro NSM) 4 CHEM 125a General Chemistry Lab 1 ENG 101 English Composition I 3 MATH 150 Calculus I (Intro NSM) 5 IME 106 (recom), PHIL 106, or MATH 106 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 16	BIOL 120 Animal Systems 4 CHEM 121b General Chemistry 4 CHEM 125b General Chemistry Lab 1 ENG 102 English Composition II 3 MATH 152 Calculus II (Dist NSM) 5 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 17
2	PHYS 211a University Physics 4 PHYS 212a University Physics Lab 1 BIOL 121 Plant Systems 4 MATH 250 Calculus III 4 PSYC 111 (recom Intro Social Sciences) 3 SPC 103 Interpersonal Comm Skills (IGR) 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 19	PHYS 211b University Physics 4 PHYS 212b University Physics Lab 1 CHEM 241a Organic Chemistry 3 CS 140 Intro to Computing 4 ENG 111 Intro to Lit (recom Intro FA&H) 3 Intro Fine Arts & Humanities or Intro Social Sciences 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 18
3	PHYS 303 Thermal Physics+ 3 PHYS 318 Electronic Measurements+ 3 PHYS 356 Astronomy 3 BIOL 319 Cell and Molecular Biology+ 4 CI 200 Introduction to Education 2 IS 336, 363, or 364 (recom) (also meets II/IC) 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> Complete ICTS Basic Skills Test for Admission to the Teacher Cert. Program 18	PHYS 301 Waves# 3 PHYS 302 Modern Physics# 4 GEOG 210 Physical Geography 3 SCI 451 Integrated Science# 3 Dist Social Sciences 3 Dist Fine Arts & Humanities 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 19
4	PHYS 494 Methods of Teaching Physics+ 3 CI 315a Methods for Teaching in Sec Schools 2 CI 440 Teaching Reading in Sec School* 3 EPFR 315 Educational Psychology 3 EPFR 320 Found of Ed in a Multicultural Soc 3 SPE 400 Exceptional Child 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 17	CI 315b Methods for Teaching Sec Schools 2 CI 352q Secondary Student Teaching--Physics 10 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 12

+ Course offered only during Fall Semester.

* It is preferable to complete CI 440 *prior* to student teaching; however, if necessary, it is possible to take CI 440 during the semester in which student teaching is done.

Course offered only during Spring Semester.

Students may elect to take courses during the summer term to lessen the academic load.

Declaring a Physics Education Major: To declare a Physics Education major, it is necessary to have:

1. Completed all Academic Development courses required by the University;
2. Completed any required courses to address high school deficiencies;
3. A cumulative grade point average of 2.0 (on a 4.0 scale).

In order to be admitted into the teacher certification program, students must:

1. Receive a grade of C or above in ENG 101 and ENG 102;
2. Complete 43 semester hours of course credit and have a cumulative grade point average of 2.5 or higher (this includes work at other institutions);
3. Successfully complete the introductory course CI 200;
4. Pass the ICTS Basic Skills Test. Information about this test is available at: www.icts.nesinc.com.

For further information concerning Physics requirements, contact the Physics Department, SL 2315, 650-2472.

For additional information concerning teacher certification, consult Pamela Feters (last names A-K) or Elaine Farrar (last names L-Z), FH 1110, 650-3940.