

Southern Illinois University Edwardsville
BACHELOR OF SCIENCE - PHYSICS

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	ENG 101 English Composition I 3 CHEM 121a General Chemistry I (Intro NSM) 4 CHEM 125a General Chemistry Lab I 1 MATH 150 Calculus I (Intro NSM) 5 SPC 103, 104, or 105 Speech Communication 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 16	PHYS 211a University Physics I 4 PHYS 212a University Physics Lab I 1 CHEM 121b General Chemistry II 4 CHEM 125b General Chemistry Lab II 1 ENG 102 English Composition II 3 MATH 152 Calculus II (Dist NSM) 5 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 18
2	PHYS 211b University Physics II 4 PHYS 212b University Physics Lab II 1 MATH 250 Calculus III 4 PHIL 106 Critical Thinking or MATH 106 Deductive Reasoning 3 STAT 107 Concepts of Statistics or CS 140 Intro to Computing I (recom) 3-4 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 15-16	PHYS 301 Waves 3 PHYS 302 Modern Physics 4 MATH 305 Differential Equations 3 Intro Fine Arts & Humanities 3 Intro Social Sciences 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 16
3	PHYS 303 Thermal Physics 3 PHYS 318 Electronic Measurements 3 Intro Fine Arts & Hum or Intro Soc Sci 3 ELECTIVE 3 ELECTIVE 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 15	PHYS 308 Intro to Classical Mechanics 4 PHYS 312 Intermediate Physics Lab 3 Interdisciplinary Studies (IS 364 recom) 3 Dist Fine Arts & Humanities 3 Dist Social Sciences 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 16
4	PHYS 405a Electromagnetic Field Theory 3 PHYS 416 Principles of Quantum Mechanics 4 PHYS Elective [^] 3 International Issues/Culture (II/IC)* 3 ELECTIVE 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 16	PHYS 405b Electromagnetic Field Theory 3 PHYS 497 Senior Experimental Project or PHYS 498 Senior Theoretical Project 2-3 Intergroup Relations (IGR)* 3 ELECTIVE 4 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 12-13

* Courses taken to fulfill this requirement may also satisfy another General Education requirement. Refer to the SIUE Undergraduate Catalog for a list of approved courses.

[^] Choose from MATH 465, PHYS 410, PHYS 450, or PHYS 43X.

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

Declaring a Physics Major: To declare a major in Physics 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 minimum grade point average of 2.0 in science and mathematics courses completed as well as a cumulative grade point average of at least 2.0 (on a 4.0 scale) in all courses taken at SIUE;
4. Transfer students must have a 2.0 GPA in science and mathematics courses taken at other institutions as well as a 2.0 GPA in other transferrable course work.

For further information, contact the Physics Department, SL 2331, 650-2472.