

PHYSICS MAJOR - SECONDARY EDUCATION

Acceptance to Physics Major Requirements:

Code	Title	Hours
PHYS 191	Foundations of Physics I	4
PHYS 200	Foundations of Physics II	4
PHYS 211	Foundations of Physics III	4
PHYS 332	Intermediate Physics Laboratory	1
MATH 120	Calculus II	4
MATH 239	Linear Algebra	4

Minimum Grade and/or GPA for required courses: 2.50 GPA

Acceptance to Education Department

Students must make formal application to the Education Department for admission to the Teacher Education Program. Application is made while students are enrolled in EDUC 212 or EDUC 213. Descriptions of all admission requirements and the application process are specified on the Education Department's website at <https://www.csbsju.edu/education/student-resources/apply-to-the-program> (<https://www.csbsju.edu/education/student-resources/apply-to-the-program/>)

Due to the professional nature of this program, students must:

- Maintain a cumulative, content area, department, and additional license GPA of 2.50 or above. In addition, a grade of C or above is required in content area, minor, and additional license courses
- Successfully complete edTPA during student teaching
- Complete background checks as required by the districts in which students are placed for field and student teaching experiences. Individual schools and districts will determine student eligibility to participate in field experiences per their policies regarding background checks.
- Purchase liability insurance through Education Minnesota on an annual basis.
- Students should reference the Education Department website for additional information about requirements.

Please see Secondary Education Minor (<https://catalog.csbsju.edu/catalog/academic-departments/education/secondary-education-minor/#requirementstext>) for Education Department requirements.

Required Physics Major Courses

Code	Title	Hours
PHYS 191	Foundations of Physics I	4
PHYS 200	Foundations of Physics II	4
PHYS 211	Foundations of Physics III	4
PHYS 320	Modern Physics	4
PHYS 339	Physical Mechanics	4
PHYS 341	Electricity and Magnetism	4
PHYS 346	Quantum Mechanics I	4
PHYS 343	Thermodynamics	2
PHYS 344	Statistical Mechanics	2

PHYS 372 or PHYS 374	Senior Research Senior Engineering Design Project	1
PHYS 373	Senior Thesis	1
PHYS 332	Intermediate Physics Laboratory (two semesters) ¹	2
PHYS 370	Advanced Physics Laboratory (two semesters) ²	2
PHYS (300-Level) additional electives		6
MATH 119	Calculus I	4
MATH 120	Calculus II	4
MATH 239	Linear Algebra	4
MATH 305	Multivariable Calculus	4
PHYS XXX Comprehensive Exam ³		
Total Hours		60

¹ Take both semesters Sophomore year

² Take both semesters Junior year

³ The Major Field Test in Physics is to be taken in the spring semester of the senior year