Program Description
The physics area of concentration is a transfer program that provides the first two years of courses necessary for a four-year baccalaureate degree in physics.

Program Outcomes
Upon completion of this program a student will be able to:

- Identify, formulate, and solve basic physics problems.
- Integrate natural sciences to build solid foundation in physics applications using appropriate mathematical skills.
- Use appropriate and varied computer application software in physics.
- Design, perform, collect, and analyze data for simple physics experiments using the scientific method.
Suggested Course Sequence

A suggested course sequence for full-time students follows. All students should review this advising guide and consult an advisor.

**First Semester**

- ENGL 101 - Introduction to College Writing 3 semester hours *
- MATH 181 - Calculus I 4 semester hours (MATF)
- CMSC 140 - Introduction to Programming 3 semester hours
- Behavioral and Social Sciences Distribution 3 semester hours (BSSD) **

Program Elective, 3 semester hours †

**Third Semester**

- PHYS 262 - General Physics II: Electricity and Magnetism 4 semester hours (NSLD)
- MATH 280 - Multivariable Calculus 4 semester hours
- MATH 282 - Differential Equations 3 semester hours
- Arts Distribution 3 semester hours (ARTD)

Program Elective, 3 semester hours †

**Second Semester**

- English Foundation 3 semester hours (ENGF)
- PHYS 161 - General Physics I: Mechanics and Heat 3 semester hours (NSND/GEEL)
- MATH 182 - Calculus II 4 semester hours
- Program Elective, 3 semester hours †

**Fourth Semester**

- PHYS 263 - General Physics III: Waves, Optics, and Modern Physics 4 semester hours (NSLD)
- MATH 284 - Linear Algebra 4 semester hours
- Behavioral and Social Sciences Distribution 3 semester hours (BSSD) **
- Humanities Distribution 3 semester hours (HUMD)

**Total Credit Hours: 60**

* ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective. English course placement is determined by Accuplacer English/Reading Test, AP/IB, or transfer credits.

** Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.

† Program electives from the following disciplines: BIOL, CHEM, CMSC, DATA, ENES, ENEE, GEOL, depending on your transfer institution.