PHYSICS (BS)

Guidelines for Acceptance to a Physics & Astronomy Department Major

In order to ensure that students are on a successful academic trajectory, it is recommended that students who have not earned at least a C average in both PHYS-2100 Classical Physics I, Classical Physics I, and PHYS-2110 Classical Physics II, Classical Physics II, should not declare a major in the Physics & Astronomy Department. Students who have not achieved this minimum grade guideline but who still seek acceptance to a major in the Physics & Astronomy Department must meet with and receive approval from the Department Chair.

Program Requirements

| Code | Title | Hours |
|-------------------|--|-------|
| Requirements (4 | 6 hours) | |
| PHYS-2100 | Classical Physics I | 4 |
| & PHYS-2101 | and Classical Physics I Lab | |
| PHYS-2110 | Classical Physics II | 4 |
| & PHYS-2111 | and Classical Physics II Lab | 0 |
| PHYS-3200 | Relativity & Atomic Physics | 3 |
| PHYS-3201 | Modern Physics Lab | 1 |
| PHYS-3210 | Nuclear & Elementary Particle Physics | 2 |
| PHYS-3211 | Modern Physics Lab II | 1 |
| PHYS-4100 | Mechanics I | 3 |
| PHYS-4110 | Mechanics II | 3 |
| PHYS-3500 | Electronics | 4 |
| PHYS-4600 | Electricity & Magnetism I | 3 |
| PHYS-4610 | Electricity & Magnetism II | 3 |
| PHYS-4800 | Quantum Mechanics | 3 |
| PHYS-4400 | Thermodynamics | 3 |
| PHYS-4300 | Optics | 4 |
| & PHYS-4301 | and Optics Laboratory | |
| PHYS-4700 | Condensed Matter Physics | 3 |
| PHYS-COMP | Senior Comprehensive Exam | 0 |
| PHYS-4900 | Physics Colloquium | 0 |
| PHYS-4901 | Physics Colloquium | 0 |
| PHYS-4902 | Physics Colloquium | 0 |
| PHYS-4903 | Physics Colloquium | 0 |
| PHYS-4910 | Physics & Astronomy Research | 1 |
| Required Suppor | ting Courses (25-27 hours) | |
| CHEM-1200 | General Chemistry I Lecture | 3 |
| CHEM-1210 | General Chemistry II Lecture | 3 |
| CHEM-1201 | General Chemistry I Laboratory | 1 |
| CHEM-1211 | General Chemistry II Lab | 1 |
| Select one of the | e following: | 2-4 |
| CSCI-2300 | Programming for Scientists & Engineers | |
| CSCI-1140 | Introduction to Computer Science I | |
| ENGR-2000 | Computer Applications in Engineering | |
| MATH-1300 | Calculus I | 4 |
| MATH-1350 | Calculus II | 4 |
| MATH-2300 | Calculus III | 4 |
| | | |

| Recommended Supporting Courses | | | |
|--------------------------------|------------------------------------|-------|--|
| MATH-2500 | Linear Algebra | | |
| MATH-2550 | Discrete Mathematical Structures I | | |
| MATH-3200 | Probability & Statistics | | |
| MATH-3300 | Numerical Computation | | |
| Total Hours | | 70-72 | |