

Applied Physics Plan of Study

NOTES: Physics 3X0 = Statistical Mechanics, and Classical Mechanics; Physics 4X0 = Quantum Mechanics, and Electromagnetic Theory. Only one of these four courses is required, but any of these courses and Advanced Laboratory (Physics 384) can be taken any time after the second semester of the second year. Physics 3XX = Astrophysics, or Nuclear and Particle. Exact rotation depends on the student's year of major declaration.

| | | |
|---------------------------|---------------------------------------|-----------|
| Freshman | | |
| <i>Fall Semester</i> | | |
| FSEM 100 | First-Year Seminar | 3 |
| Physics 190 | Physics PEER Journey | 1 |
| Physics 105 | University Physics I | 4 |
| Math 121 | Calculus I | 4 |
| General Education Courses | | 3 |
| | | 15 |
| <i>Spring Semester</i> | | |
| Physics 106 | University Physics II | 4 |
| Math 122 | Calculus II | 4 |
| General Education Courses | | 6 |
| | | 15 |
| Sophomore | | |
| <i>Fall Semester</i> | | |
| Physics 211 | Modern Physics | 3 |
| Physics 290 (recommended) | Math Methods for Physics | 3 |
| General Education Courses | | 9 |
| | | 15 |
| <i>Spring Semester</i> | | |
| Physics 220 | Materials, Fluids, and Thermodynamics | 3 |
| General Education Courses | | 12 |
| | | 15 |
| Junior | | |
| <i>Fall Semester</i> | | |
| Physics 290 | Math Methods for Physics | 3 |
| Physics 283 or 300 | Electronics or Optics** | 4 |
| General Education Courses | | 9 |
| | | 16 |
| <i>Spring Semester</i> | | |
| Physics 3X0 or 4X0 | Upper-level Theory Elective | 4 |
| General Education Courses | | 9 |
| | | 13 |
| Senior | | |
| <i>Fall Semester</i> | | |
| Physics 283 or 300 | Electronics or Optics** | 4 |
| Physics 471 or 3XX | Special Topics Elective | 3 |
| General Education Courses | | 8 |

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|------------------------------------------------------|------------------|------------|
| | | 15 |
| <i>Spring Semester</i> | | |
| Physics 482 | Senior Seminar | 2 |
| Physics 3X0 or 4X0 | Physics Elective | 3 or 4 |
| Electives | | 9 |
| | | 15 |
| | | |
| Total Credits | 15 | 12 |
| | | |
| | | 120 |
| | | |
| ** These courses are offered every other year | | |

