Suggested four-year plan for the BS in Physics

First Year - First Semester

- ENG 101 - College Composition Credits: 3
- MAT 126 - Calculus I Credits: 4
- PHY 100 - Introduction to Physics and Astronomy Credits: 1
- PHY 121 - Physics for Engineers and Physical Scientists I Credits: 4
- Human Values/Social Context and Ethics Elective I Credits: 3

First Year - Second Semester

- COS 125 - Introduction to Problem Solving Using Computer Programming Credits: 4
- or
- COS 220 - Introduction to C++ Programming Credits: 3
- MAT 127 - Calculus II Credits: 4
- PHY 122 - Physics for Engineers and Physical Scientists II Credits: 4
- Human Values/Social Context and Ethics Elective II Credits: 3

Second Year - First Semester

- CHY 121 - General Chemistry I Credits: 3
- CHY 123 - General Chemistry Laboratory I Credits: 1
- MAT 228 - Calculus III Credits: 4
- PHY 200 - Career Preparation in Physics and Engineering Physics I Credits: 1
- PHY 261 - Physical Measurements Laboratory I Credits: 2
- PHY 236 - Introductory Quantum Physics Credits: 3

Second Year - Second Semester

- MAT 259 - Differential Equations Credits: 3
- PHY 223 - Special Relativity Credits: 1
- PHY 231 - Mathematical Methods in Physics Credits: 3
- PHY 241 - Computational Physics Credits: 3
- PHY 262 - Electronics Credits: 2
- Human Values/Social Context and Ethics Elective I or Elective Credits: 3

Third Year - First Semester

- PHY 364 - Modern Experimental Physics Credits: 2
- PHY 451 - Mechanics Credits: 3
- PHY 454 - Electricity and Magnetism I Credits: 3
- PHY 472 - Geometrical and Fourier Optics Credits: 3
- Human Values/Social Context and Ethics Elective I or Elective Credits: 3
Third Year - Second Semester

- **PHY 365 - Mechanics Laboratory** Credits: 2
- **PHY 455 - Electricity and Magnetism II** Credits: 3
  Mathematics Elective Credits: 3
- Human Values/Social Context and Ethics Elective(s) and/or Elective(s) and/or Physics Elective Credits: 9

Fourth Year - First Semester

- **PHY 400 - Career Preparation in Physics and Engineering Physics II** Credits: 1
- **PHY 469 - Quantum and Atomic Physics** Credits: 3
- **PHY 480 - Physics of Materials** Credits: 3
- **PHY 481 - Project Laboratory in Physics I** Credits: 3
- Human Values/Social Context and Ethics Elective(s) and/or Elective(s) and/or Physics Elective Credits: 6

Fourth Year - Second Semester

- **PHY 463 - Statistical Mechanics** Credits: 3
  Human Values/Social Context and Ethics Elective(s) and/or Elective(s) and/or Physics Elective Credits: 12