

**Three choices in Physics Degree paths:
BS Physics-General, BS Physics-Teaching Certification, or BS Physics-Engineering**

Current Requirements for all students:

PHY 230 & 231
PHY 309* & 370 [*PHY309 is usually offered as a W course]
PHY 461 & 471
MAT 150, 151, 252 & 245
CHE 120 & 121

Additional Requirements for each path:

BS Physics-General: PHY 400, 401, 406, 3 credits CSC, & 12 credits of physics electives

BS Physics-Certification: PHY 400, 406, 6 credits of physics electives, EDU 201, EDU 413, IDS 470/471, PSY 370, SED 482, & one semester of student teaching

BS Physics-Engineering: PHY 355, EGR 151, EGR 251, 6 credits CSC and 9 credits of physics electives & a minor in computer science, chemistry or general management **or** an additional 12 credits in physics, engineering, or math. – we need to rethink this a potentially repackaged [e.g., Nanotech, computer/electrical, management]

Sequence of Physics courses for 4-year plan

BS Physics-General

Year	Fall	Spring
1	PHY 230, MAT 150, CSC	PHY 231, MAT 151
2	PHY 309, MAT 252, CHE 120	PHY 370, CHE 121, PHY ELEC
3	PHY 461, MAT 245, PHY ELEC	PHY 400, PHY ELEC
4	PHY 401, PHY 406	PHY 471, PHY ELEC

BS Physics-Certification

Year	Fall	Spring
1	PHY 230, MAT 150	PHY 231, MAT 151
2	PHY 309, MAT 252, CHE 120	PHY 370, CHE 121, EDU 201
3	PHY 461, MAT 245, PHY ELEC, PSY 370	PHY 400, PHY 471, SED 482
4	PHY 406, PHY ELEC, IDS 470/471, EDU 413	Student Teaching

BS Physics-Engineering

Year	Fall	Spring
1	PHY 230, MAT 150, CSC	PHY 231, MAT 151, EGR 151
2	PHY 309, MAT 252, CHE 120	PHY 370, EGR 251, CHE 121
3	PHY 461, MAT 245, PHY 355	PHY ELEC, CSC (if not earlier)
4	PHY 471, PHY ELEC	PHY ELEC

Regular Schedule of Physics Course Offerings

Each Fall Semester

PHY 100/103/123/111/120/200/210
PHY 230
PHY 309(W)
PHY 355
PHY 406
PHY 461
EGR 151
Elective(s)

Each Spring Semester

PHY 100/103/123/111/120/201/210
PHY 231
PHY 370
PHY400
EGR151
EGR 251
Elective(s)

Fall Semester of Every Other Year

PHY 401 (Every odd year; starting Fall 2011)
PHY 430 (Every even year; starting Fall 2012)

Physics Electives (offered based on student/faculty interests and projected enrollments)

PHY 120 (Nanotechnology)	EGR 232 (The Science and Engineering of Materials)
PHY 340 (Lasers and Fiber Optics)	EGR 398 (Special Topics (sometimes offered as W))
PHY 356 (Electronics Instrumentation)	PHY 507 (Graduate Seminar)
PHY 398 (Special Topics (sometimes offered as W))	PHY 512 (Methods of Theoretical Physics)
PHY 405 (Scientific Computer Interfacing)	PHY 519 (Nanotech I: Fundamentals of Nanotech)
PHY 410/411 (Optics/Optics Laboratory)	PHY 521 (Nanotech II: NanoCharacterization)
PHY 415 (Solid State/Nanotech III)	PHY 523 (Nanotech IV: Nanosystems Lab)
PHY 440 (Quantum Mechanics)	PHY 530 (Optics and Detector Physics)
PHY 499 (Independent Study and Research)	PHY 531 (Interferometric Imaging)

Tentative Physics Electives Schedule for 2013 – 2016

Fall '13

PHY 340 (Lasers and Fiber Optics)
PHY 401 (Classical Mechanics II)
PHY 440 (Quantum Mechanics)
PHY 507 (Graduate Seminar)**
PHY 530 (Optics and Detector Physics)**

Spring '14

PHY 415 (Solid State/Nanotech III)
EGR 232 (Science and Engineering of Materials)
PHY 531 (Interferometric Imaging)**
PHY 519 (Fundamentals of Nanoscience)**

Fall '14

PHY 401 (Classical Mechanics II)
PHY 430 (Thermodynamics)
PHY 507 (Graduate Seminar)**
PHY 521 (NanoCharacterization)**

Spring '15

EGR 232 (Science and Engineering of Materials)
PHY 398 (Special Topics)
PHY 440 (Quantum Mechanics)
PHY 512 (Methods of Theoretical Physics)**
PHY 298 (Physics for Sci. and Engineers III)
PHY 405 (Scientific Computer Interfacing)

Fall '15

PHY 340 (Lasers and Fiber Optics)
PHY 401 (Classical Mechanics II)
PHY 519 and/or PHY 530

Spring '16

PHY410/411 (Optics and Optics Lab)
PHY 531 and/or PHY 521

** Undergraduate students must file a "petition for irregular schedule" with the Dean of Arts and Sciences

Course offerings subject to change based on major changes in student interests and/or enrollments

Note: Students must complete the University/LEP Requirements appropriate to their specific degree program and should consult with their faculty advisor to select the appropriate courses for this purpose. To be awarded credit towards a degree in physics, a grade of "C-" or higher must be earned in each of the following courses: PHY 230, 231, 309 and 370