

Course	Title	Credits
First Year Fall		
Phys 207	Fundamentals of Physics I	4
Phys 169	Prospectives on Physics	1
Math 241	Analytic Geometry and Calculus A	4
Chem 103	General Chemistry	4
Univ101	First Year Experience	1
Breadth		3
Total		17

Sophomore Year Fall		
Phys 211	Waves and Oscillations	3
Phys 310	Introduction to Thermal Physics	3
Math 243	Analytic Geometry and Calculus C	4
Math 349	Elementary Linear Algebra	3
Breadth		3
Total		16

Junior Year Fall		
Phys 424	Quantum Mechanics	3
Phys 607	Mathematical Methods of Physics	3
Math 503	Advanced Calculus	3
CISC 220	Data Structures	3
Breadth		3
Total		15

Senior Year Fall		
Phys 468	Introduction to Research	3
Phys 616	Statistical Physics and Thermodynamics	3
MATH 42€	Computational Mathematics I	3
Breadth		3
Elective		3
Total		15

Course	Title	Credits
First Year Spring		
Phys 208	Fundamentals of Physics II	4
Math 242	Analytic Geometry and Calculus B	4
Cisc 106	General Computer Science for Engineers	3
Engl 110	Critical Reading and Writing	3
Phys 311	Aspects of Modern Physics	3
Total		17

Sophomore Year Spring		
Phys 309	Physics of the Twentieth and Twenty-First Centuries	3
Phys 313	Physical Optics	4
Math 302	Differential Equations	3
CISC 181	Introduction to Computer Science II	3
Breadth		3
Total		16

Junior Year Spring		
Phys 419	Classical Mechanics	3
Phys 603	Electricity and Magnetism I	3
Phys 333	Fundamentals of Astrophysics	3
Math 535	Partial Differential Equations	3
Breadth		3
Total		15

Senior Year Spring		
Phys 460	Computational methods of Physics	3
Phys 425	Quantum Mechanics II*	3
Phys 469	Instrumentation for Scientists	3
Elective		3
Elective		3
Total		15

Total credits 126

Notes:

12-17 Credits/semester considered "Full Time Student"

Students Need 6 Credits in each group A,B,C,D ("breadth requirement")

Physics Electives: Need 12+ Credits at 333 or 400+ level

* Offered every other year

Phys460,480,626,650 Fulfill second writing requirement

Phys468 Fulfills DLE requirement

PHYS460/468 Fulfills CAPSTONE requirement

MATH 512/518 Fulfills DLE requirement

Phys 333 Fulfills Astronomy Concentration
 Phys 460
 Phys 469
 Phys 434
 Phys 633

Potential Elective List

Math 535 Fulfills Math Minor
 Math 503

Cisc 181 With Cisc106 Fulfills Foreign Language Requirement
 Cisc 220
 Cisc 200+

Cisc 320 With Above Fulfills CISC Minor
 Cisc 372

Chem 104 Fulfills Pre-Med Requirements
 Chem 321
 Chem 322
 Bio 207
 Bio 208

MSEG 302 Fulfills MSEG Minor
 ELEG 450
 ELEG 340
 ELEG 340
 PHYS 616

Total Credits to Graduate 124