

Physics Bachelor of Science with Professional Emphasis Plan

The suggested schedule shown below should be used in conjunction with the major requirement sheet at:
<http://www.usu.edu/majorsheets/>

Students should consult with their advisor to develop an individualized plan of study which is applicable to their interests and degree track.

Freshman Year (30 credits)

Fall Semester (15 credits)

PHYS 2210 (QI) General Physics—Science and Engineering I	4
MATH 1210 (QL) Calculus I	4
College of Science sequence requirement	4
University Studies Breadth course	3

Spring Semester (15 credits)

PHYS 2220 (BPS/QI) General Physics—Science and Engineering II	4
MATH 1220 (QL) Calculus II	4
College of Science sequence requirement	4
University Studies Breadth course	3

Sophomore Year (31 credits)

Fall Semester (15 credits)

PHYS 2500 Introduction to Computer Methods in Physics	2
PHYS 2710 Introductory Modern Physics	3
MATH 2210 (QI) Multivariable Calculus	3
ENGL 1010 (CL1) Introduction to Writing: Academic Prose	3
University Studies Breadth course	3
Elective course	1

Spring Semester (16 credits)

PHYS 3710 Intermediate Modern Physics	3
PHYS 3750 Foundations of Wave Phenomena	3
MATH 2250 (QI) Linear Algebra and Differential Equations	4
University Studies Breadth courses	6

Junior Year (30 credits)

Fall Semester (15 credits)

PHYS 3550 Intermediate Classical Mechanics	3
PHYS 3600 Electromagnetism I	3
PHYS 3870 (CI) Intermediate Physics Laboratory	2
ENGL 2010 (CL2) Intermediate Writing: Research Writing in a Persuasive Mode	3
University Studies Depth course	3
Elective course	1

Spring Semester (15 credits)

PHYS 3700 Thermal Physics	3
PHYS 3880 (CI) Advanced Physics Laboratory	2
PHYS 4600 Electromagnetism II	3
University Studies Breadth course	3
University Studies Depth course	3
Elective course	1

Senior Year (30 credits)

Fall Semester (15 credits)

PHYS 4650 Optics I	3
PHYS 4700 Quantum Mechanics I	3
PHYS 4900 (CI) Research in Physics	2
Elective courses	7

Spring Semester (15 credits)

PHYS 4710 Quantum Mechanics II	3
PHYS 4900 (CI) Research in Physics	2
Elective courses	10