

B.A. in Physics, Engineering (Five-Year [3-2] Program)

Sample Program Outline/Advising Guide

Fall		Spring	
FIRST YEAR			
PHYS 120: Physics First Year Experience	1	PHYS 125: Analytical Physics II	3
PHYS 123: Analytical Physics I (NLEC)	3	PHYS 126: Analytical Physics II Laboratory	1
PHYS 124: Analytical Physics I Lab (NLAB)	1	MATH 222: Calculus II	4
MATH 221: Calculus I (REAS)	4	World Language 102 (LANG)	4
WRTG 105: Writing Seminar: (subtitle)	4	Global Society (CAI)	3
World Language 101 (LANG)	4		
Total	17	Total	15
SECOND YEAR			
PHYS 223: Analytical Physics III	3	PHYS 224: Analytical Physics IV	3
PHYS 226: Optics & Modern Phys Lab	1	PHYS 228: Math Methods in Physics	2
MATH 223: Calculus III	4	PHYS 261: Programming in Physics	3
Global Society (CGC)	3	MATH 326: Differential Equations	3
Global Society (SST)	3	Global Society (WCV)	4
Global Society (DPP)	3		
Total	17	Total	15
THIRD YEAR			
PHYS 311: Classical Mechanics	3	PHYS 341: Seminar in Physics	1
PHYS 352: Quantum Mechanics I	3	PHYS 363 or 372 or 384	2
PHYS 362: Intermediate Laboratory	3	PHYS 300-level Elective	3
CHEM 116: Chemistry I	3	Lab Science II	4
CHEM 119: Introductory Chemistry Lab	1	Integrative and Applied Learning	3
Total	13	Total	13

Total Credits = **90**

Gen Ed Subtotal = **36**

Special Instructions:

Must complete all Gen Ed requirements

6 additional PHYS 300-level elective credits are required. With departmental permission, physics or engineering courses may be taken at the Engineering School to fulfill this requirement.

General Education Requirements

1. Communication and Scientific Literacy (CSL)

- INTD 105, Lang, Quant, and Nat Sci with Lab

2. Participation in Global Society (PGS)

- DPP, WCIV, CGC, CAI, and SST

Rules:

At least 4 unique courses for PGS

No more than one course used twice in PGS

Only one course from your major may be used for PGS

Courses used to satisfy CSL cannot double dip for PGS