

ENGINEERING PHYSICS, B.S.

FOUR-YEAR PLAN

SAMPLE FOUR-YEAR PLAN

First Year

Fall	Credits	Spring	Credits
CHEM 109 ¹		5 E M A 201	3
MATH 221		5 MATH 222	4
Communications A		3 PHYSICS 202	5
INTEREGR 170 ² or Liberal Studies Elective		3 Liberal Studies Elective INTEREGR 170 ²	3
	16		15

Second Year

Fall	Credits	Spring	Credits
MATH 319		3 MATH 234	4
PHYSICS 241 or 205		3 PHYSICS 322 ⁴	3
PHYSICS 311		3 M S & E 351 or CBE 440	3
E P 271 or COMP SCI 310		3 E M A 303	3
E P D 275 or COM ARTS 105		2 E M A/M E 307	1
STAT 324		3 Liberal Studies Elective	3
E P 468 ³		1 E P 469	1
	18		18

Third Year

Fall	Credits	Spring	Credits
N E 305 or PHYSICS 531 ⁵		3 Technical Elective	3
E P Focus Area Course		3 INTEREGR 397 (was EPD 397)	3
MATH 321		3 E C E 376 or PHYSICS 321	3-4
M E 361 or M S & E 330		3-4 MATH 340 or 341	3
Computing Elective		3 Liberal Studies Elective	3
	15-16		15-16

Fourth Year

Fall	Credits	Spring	Credits
E P 568		3 E P 569	3
M E 363		3 E P Focus Area Course	2
E P Focus Area Course		3 M E 364 or M S & E 331	3
E P Focus Area Course		3 Technical Elective	3
Liberal Studies Elective		4 E P Focus Area Course Liberal Studies Elective	3 3
	16		17

Total Credits 130-132

1

It is recommended that students take CHEM 109 Advanced General Chemistry for 5 credits. However, depending on their high school chemistry experience, students may substitute this with CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits.

2

Students who were not able to take INTEREGR 170 Design Practicum as freshmen may, with the approval of their advisor, substitute a course offered in the College of Engineering or in the departments of Chemistry, Computer Sciences, Mathematics, and Physics.

3

Students are encouraged to take E P 468 Introduction to Engineering Research during their second year to allow for more flexibility in the research sequence.

4

Topics from MATH 321 Applied Mathematical Analysis are applied in PHYSICS 322 Electromagnetic Fields, and some students may find it helpful to take PHYSICS 322 Electromagnetic Fields after MATH 321 Applied Mathematical Analysis if PHYSICS 322 Electromagnetic Fields is not required for focus area courses.

5

Students in the nanoengineering focus area should take PHYSICS 531 Introduction to Quantum Mechanics.