

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 or PHYSICS 201	3-5
MATH 221	5	MATH 222	4
Communications A	3	N E 231 ²	3
N E 231 ²	3	or Liberal Studies Elective	
or Liberal Studies Elective		STAT 324	3
16		13-15	

Second Year

Fall	Credits	Spring	Credits
E P 468 ³	1	MATH 319	3
MATH 234	4	PHYSICS 205 or 241	3
PHYSICS 202	5	E M A 202 or PHYSICS 311	3
M S & E 351	3	E M A 303	3
E P D 275	2	E M A/M E 307	1
E P 271	3	Liberal Studies Elective	3
18		16	

Third Year

Fall	Credits	Spring	Credits
N E 305 ⁵	3	PHYSICS 531 ⁵	3
or Technical Elective		or Technical Elective	
MATH 321	3	MATH 340 or 341	3
M E 361 or M S & E 330	3-4	Liberal Studies Elective	4
PHYSICS 322 ⁴	3	Advanced Computer Science	3
E C E 376 or PHYSICS 321	3-4	E P Focus Area Course	3
E P 469	1		
16-18		16	

Fourth Year

Fall	Credits	Spring	Credits
E P 568	3	E P 569	3
M E 363	3	M E 364 or M S & E 331	3
E P Focus Area Course	3	E P Focus Area Course	2
E P Focus Area Course	3	E P Focus Area Course	3
Technical Elective	3	INTEREGR 397	3
Liberal Studies Elective	3	Liberal Studies Elective	3
18		17	

Total Credits 130-134

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 an introductory engineering course 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.