NUCLEAR ENGINEERING: RADIATION SCIENCES

FOUR-YEAR PLAN

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SAMPLE FOUR-YEAR PLAN

First Year

Fall	Credits	Spring	Credits
CHEM 109[1]	5	E M A 201[3]	3
MATH 221	5	MATH 222	4
Communications A	3	M E 231	3
Liberal Studies Elective	3	M S & E 350	3
		N E 231	3
	16		**16**

Second Year

Fall	Credits	Spring	Credits
MATH 234	4	MATH 320	3
PHYSICS 202	5	PHYSICS 241 or 205	3
E M A 202[4]	3	M E 361	3
STAT 324[5]	3	E M A 303[4]	3
INTEREGR 275	2	N E 424	1
		Liberal Studies Elective	3
	17		**16**

Third Year

Fall	Credits	Spring	Credits
N E 305	3	N E 405	3
MATH 321	3	N E 408	3
E P 271	3	PHYSICS 322	3
Technical Elective[6]	2	Computing Elective	3
Liberal Studies Elective	4	E C E 376[2]	3
		Free Elective	1
	15		**16**

Fourth Year

Fall	Credits	Spring	Credits
N E 427	2	N E 412	5
MED PHYS/ B M E/H ONCOL/ PHYSICS 501	3	N E 571	3
Medical Physics Elective	3	N E 428	2
Medical Physics Elective	3	Medical Physics Elective	3
Liberal Studies Elective	3	Liberal Studies Elective	3
INTEREGR 397	3		
	17		**16**

Total Credits 129

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 PHYSICS 321 Electric Circuits and Electronics is an acceptable substitute for E C E 376 Electrical and Electronic Circuits

3 Students may substitute PHYSICS 201 General Physics, 5 credits, for E M A 201 Statics, 3 credits, with the approval of their advisor.

4 After completing E M A 201 Statics, students may complete E M A 202 Dynamics and E M A 303 Mechanics of Materials in either order or concurrently.

5 STAT 311 Introduction to Theory and Methods of Mathematical Statistics I or STAT/M E 424 Statistical Experimental Design are acceptable substitutes.

6 PHYSICS 623 Electronic Aids to Measurement is recommended for students in the Radiation Sciences focus area.