

# NUCLEAR ENGINEERING, B.S.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
CHEM 109 <sup>1</sup>		5 E M A 201 <sup>3</sup>	3
MATH 221		5 MATH 222	4
Communication A		3 M E 231	3
Liberal Studies Elective		3 M S & E 350	3
		N E 231	3
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 234		4 MATH 320	3
PHYSICS 202		5 PHYSICS 241 or 205	3
E M A 202 <sup>4</sup>		3 M E 361	3
E P 271 or COMP SCI 310		3 E M A 303 <sup>4</sup>	3
E P D 275 or COM ARTS 105		2 N E 424	1
		Liberal Studies Elective	3
	<b>17</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
N E 305		3 N E 405	3
MATH 321		3 N E 408	3
STAT 324 <sup>5</sup>		3 CBE 320 <sup>6</sup>	4
Technical Elective		2 Computing Elective	3
Liberal Studies Elective		4 E C E 376	3
	<b>15</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
N E 411		3 N E 412	5
N E 427		2 N E 428	2
N E/M S & E 423		3 N E 571	3
Nuclear Engineering Elective		3 Nuclear Engineering Elective	3
Liberal Studies Elective		3 Liberal Studies Elective	3
INTEREGR 397		3	
	<b>17</b>		<b>16</b>

**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 CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits. Three credits of CHEM 103/CHEM 104 may be counted towards Technical Electives credits.

**2**

Students who were not able to take N E 231 Introduction to Nuclear Engineering 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 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 take 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**

M E 363 Fluid Dynamics and M E 364 Elementary Heat Transfer are acceptable substitutions for CBE 320 Introductory Transport Phenomena.