SYNOPSIS OF THE B.S. CURRICULUM IN PHYSICS (NUCLEAR)

FOURTH (FRESHMAN) CLASS

First Semester

	Subject	Semester Hrs. Credit
CH 111	Lab for CH 131	1
CH 131	Chemical Science I	3
WR 101	English Composition I*	3
HI 103	World History	3
MA 123	Calc. with An. Geom. I*	3
PY 160	General Physics I	3
PY 155	Lab for General Physics I	1
	AS, MS, or NS	1
TOTAL		**18**

Second Semester

	Subject	Semester Hrs. Credit
CH 112	Lab for CH 132	1
CH 132	Chemical Science II	3
WR 102	English Composition II*	3
HI 104	World History	3
MA 124	Calc. with An. Geom. II*	3
PY 161	General Physics II	3
PY 156	Lab for General Physics II	1
PE 101/102	Swimming or Boxing	1/2
	AS, MS, or NS	1
TOTAL		**18 1/2**

THIRD (SOPHOMORE) CLASS

First Semester

	Subject	Semester Hrs. Credit
MA 103	Matrix Algebra	2
MA 215	Calc with An. Geom. III	4
PY 238	Laboratory Techniques	2
PY 254	Optics	3
PY 253W	Optics Lab	1
PE 200	Drug and Alcohol Awareness	1/2
	Free Elective	3
	AS, MS, or NS	1
TOTAL		**16 1/2**

Second Semester

	Subject	Semester Hrs. Credit
MA 311	Elem. Dif. Eq.	3
ME 311	Thermodynamics I	3
PY 223	Programming & Data Analysis.	2
PY 257	Electronics and Interfacing	4
PS 344	Leadership in Organizations	3
PE 101/102	Swimming or Boxing	1/2
	AS, MS, or NS	1
TOTAL		**16 1/2**

SECOND (JUNIOR) CLASS

First Semester

	Subject	Semester Hrs. Credit
MA 301	Higher Math Engr. Sc.	3
ME 314	Fluid Mechanics	3 1/2
PY 333W	Modern Physics Lab	1
PY 335	Modern Physics I	3
PE 300	Prin. Physical Cond.	1
	Hum. or Soc. Science Elective.	3
	AS, MS, or NS	2
TOTAL		**16 1/2**

Second Semester

	Subject	Semester Hrs. Credit
ME 336	Heat and Mass Transfer	3 1/2
PY 336	Modern Physics II	3
PY 441	Classical Mechanics I	3
PY 344	Nuclear Physics	3
	Free Elective	3
PE 211	Wrestling	1/2
	AS, MS, or NS	2
TOTAL		**18**

FIRST (SENIOR) CLASS

First Semester

	Subject	Semester Hrs. Credit
PY 420	Capstone I	2
	Physics Elective	3
	Nuclear Energy Elective**	3
	Tech Elective	3
	Free Elective	3
	Physical Education	1/2
	AS, MS, or NS	2
TOTAL		**16 1/2**

Second Semester

	Subject	Semester Hrs. Credit
PY 421	Capstone II	1
SE 300	Public Speaking	1
	Physics Elective	3
	Tech Elective	3
	Free Elective	3
	Hum. or Soc. Science Elective	3
	Physical Education	1/2
	AS, MS, or NS	2
TOTAL		**16 1/2**

Total Hours: 137 (includes 42-45 hours of physics courses)

***Minimum grade of C required**

****Chosen from PY 453 Nuclear Reactor Engineering or ME 431 Power Plant Design (note additional ME prerequisites for this course).**