

SAMPLE FOUR-YEAR CURRICULUM

B. S. - Engineering Physics with Electrical Engineering Minor

First Year

<u>First Semester</u>			<u>Second Semester</u>		
PHY 181.F	The Physical World	4	PHY 182.F	The Physical World	4
PHY 183	Physics Laboratory	1	PHY 184	Physics Laboratory	1
MTH 151 or 153	Calculus I	4-5	MTH 251	Calculus II	4
Foreign Lang		4	Foreign Lang		3
ENG 111	College Composition	3	ENG 112	Composition & Literature	3
16-17			15		

Second Year

<u>First Semester</u>			<u>Second Semester</u>		
PHY 291	Contemporary Physics	4	PHY 292	Electronic Instrumentation	3
PHY 293	Contemporary Physics Laboratory	2	PHY 294	Electronic Instrumentation Lab	2
MTH 252	Calculus III	4	PHY 286	Computational Physics	3
MTH 222	Linear Algebra	3	CSA 174	Fundamentals of Programming and Problem Solving	3
Foreign Lang		3	MTH 245 or 347	Differential Equations	3
16			Miami Plan Foundation		3
16			17		

Third Year

<u>First Semester</u>			<u>Second Semester</u>		
PHY 341	Mathematical Methods in Physics	4	PHY 400	Seminar	1
PHY 400	Seminar	1	ECE 305	Electric Circuit Analysis II	3
ECE 287	Digital Systems Design	4	Miami Plan Foundation		3
Miami Plan Foundation		3	Miami Plan Foundation		3
Miami Plan Foundation		3	Electives		7
15			17		

Fourth Year

<u>First Semester</u>			<u>Second Semester</u>		
PHY 400	Seminar	1	PHY 400	Seminar	1
ECE 306	Signals and Systems	3	Capstone		3
ECE elective for minor		3	ECE elective for minor		3
Miami Plan Foundation		3	Miami Plan Foundation		3
Electives		6	Electives		6
16			16		

Note: The Thematic Sequence requirement is satisfied by MTH 222, 252, and 347 or by the minor in electrical engineering.