

# SAMPLE FOUR-YEAR CURRICULUM

## B. S. - Engineering Physics with Manufacturing 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.L	Physics Laboratory	1	PHY 184.L	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	EAS 102	Problem Solving and Design	3
Foreign Lang		3	MME 211	Static Modeling of Mechanical Systems	3
16			Miami Plan Foundation		3
			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	MME 231	Manufacturing Processes	3
MME 213	Computational Methods in Engineering	3	STA 368	Introduction to Statistics	4
MME 223	Engineering Materials	3	MTH 347	(Thematic Sequence course)	3
CHM 141	College Chemistry	3	Miami Plan Foundation		3
Miami Plan Foundation		3	Miami Plan Foundation		3
17			17		

### Fourth Year

<u>First Semester</u>			<u>Second Semester</u>		
PHY 400	Seminar	1	PHY 400	Seminar	1
MME 311	Dynamic Modeling of Mechanical Systems	3	MME 334	Quality Planning and Control	3
Miami Plan Foundation		3	Miami Plan Foundation		3
Miami Plan Foundation		3	Capstone		3
Electives		6	Electives		6
16			16		

Note that the Thematic Sequence requirement is satisfied by MTH 222, 252, and 347 or by the minor in manufacturing engineering.