CURRICULUM FOR ENGINEERING PHYSICS WITH CONCENTRATION IN AEROSPACE ENGINEERING

(127 Credits)

Introduction to AE & ME AENG/MENG 1001 1 1 1 1 1 1 1 1	PROFESSIONAL ORIENTATION (1 C	r. Required) Selected from the fo	llowing						
Introduction to ECE ECE 1001 1 1 1 1 1 1 1 1			_						
Introduction to ECE ECE 1001 1 1 1 1 1 1 1 1	Biomedical Engineering Orientation	BME 1000	1						
BASIC SCIENCE & MATHEMATICS (43 Cr.) (ABET Minimum = 32 Cr.)		ECE 1001	1						
General Chemistry I/Lab	Introduction to Physics	PHYS 1110	1						
General Chemistry I/Lab		(12 G) (1 PPT) 1	22 (2)						
Calculus I MATH 1510 4 Calculus III MATH 1520 4 Calculus III MATH 2530 4 Differential Equations I MATH 3550 3 Advanced Mathematics for Engineers MATH 3270 3 Probability & Statistics for Engineers MATH 4880 3 Numerical Analysis MATH 3240 3 Engineering Physics II/Lab PHYS 1610/1620 4 Engineering Physics II/Lab PHYS 1630/1640 4 Modern Physics/Lab PHYS 2610/2620 4 Quantum Mechanics PHYS 4610 3 ENGINEERING PHYSICS & ENGINEERING TOPICS (58 CR.) (ABET Minimum = 48 Cr.) Computer-Aided Engineering Design AENG 1002 1 Flight Vehicle Analysis & Design I, II AENG 4004, 4014 6 Intro. to CS: Scientific Programming CSCI 1060 3 Statics ESCI 2100 3 Dynamics ESCI 2300 3 Fluid Dynamics/Lab ESCI 3300 3 Fluid Dynamics/Lab ESCI 3300 3			, , , , , , , , , , , , , , , , , , ,						
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Track 2 Astronautics

	Track 2 Astronautics	
Intro. to Aeronautics & Astronautics	AENG 2000	3
Astrodynamics	AENG 3150	3
Orbital Mechanics	AENG 4150	3
2 Upper Division Engineering Courses	AENG/ESCI 3XXX, 4XXX	6
	,	15
GENERAL EDUCATION (22 Cr.)		
Written Communication	ENGL1900 or 1920	3
Small Group Presentation	CMM 2200	1
Theological Foundations	THEO 1000	3
Ethics	PHIL 2050	3
Ethics & Engineering	PHIL 3400	3
Humanities Elective		3
Social/Behavioral Sciences Elective		3
Cultural Diversity Elective		3
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OPEN ELECTIVE (3 Cr.)		
One Course		3
		$2\overline{5}$

Freshman Year:

Semester 1:	CR	Semester 2:	CR
Professional Orientation	1	PHYS 1610 Engineering Physics I	3
CHEM 1110/1115 General Chemistry I/Lab	4	PHYS 1620 Engineering Physics I Laboratory	1
ENGL 1900 or 1920 Adv. Strategies of Rhetoric	3	MATH 1520 Calculus II	4
& Research or Adv. Writing for Professionals			
MATH 1510 Calculus I	4	CSCI 1060 Intro. to CS: Scientific Programming	3
Humanities Elective	3	THEO 1000 Theological Foundations	3
		AENG 1002 Computer-Aided Eng. Design	1
Total Credit Hours	15	Total Credit Hours	15

Sophomore Year:

Semester 1:	CR	Semester 2:	CR
PHYS 1630 Engineering Physics II	3	PHYS 2610 Modern Physics	3
PHYS 1640 Engineering Physics II Laboratory	1	PHYS 2620 Modern Physics Laboratory	1
MATH 2530 Calculus III	4	MATH 3240 Numerical Analysis	3
CMM 2200 Small Group Presentation	1	MATH 3550 Differential Equations I	3
ESCI 2100 Statics	3	ESCI 2300 Thermodynamics	3
Social Science Elective	3	ESCI 2150 Dynamics	3
Open Elective	3		
Total Credit Hours	18	Total Credit Hours	16

Junior Year:

Semester 1:	CR	Semester 2:	CR
PHIL 2050 Ethics	3	PHYS 4210 Electricity & Magnetism I	3
AENG Track Course	3	PHYS 3310 Optics	3
PHYS 3510 Analog & Digital Electronics/Lab	4	PHYS 3320 Optics Laboratory	1
MATH 3270 Advanced Mathematics for	3	MATH 4880 Probability & Statistics for	3
Engineers		Engineers	
ESCI 3200 Fluid Dynamics	3	ESCI 3300 Linear Vibrations	3
ESCI 3201 Fluid Dynamics Lab	1	AENG Track Course	3
Total Credit Hours	17	Total Credit Hours	16

Senior Year:

Semester 1:	CR	Semester 2:	CR
AENG Track Course	3	AENG 4014 Flight Vehicle Analysis & Design II	3
Engineering Physics Elective	3	ESCI or AENG Upper Division Course	3
AENG 4004 Flight Vehicle Analysis & Design I	3	ESCI or AENG Upper Division Course	3
PHYS 4610 Quantum Mechanics	3	Engineering Physics Elective	3
PHIL 3400 Ethics & Engineering	3	Cultural Diversity Elective	3
Total Credit Hours	15	Total Credit Hours	15

Total Credit Hours: 127