ENGINEERING AND COMPUTING SCIENCES | **BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (AEROSPACE)** | Admitted in 2014-2015 Academic Year

YEAR TERM		MAJOR					CORE		TOTAL CR.
YEAR 1	FALL	**ETCS 105** 2 CAREER DISCOVERY			**MATH 170** 4 CALCULUS I Pre-Req: Placement exam, MATH 141 OR TMAT 155	**PHYS 170** 4 GENERAL PHYSICS I Co-Req: MATH 170	**FCWR 101** 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement exam	**FCIQ 101** 3 FOUNDATIONS OF INQUIRY	16
	SPRING		**MENG 105** 2 ENGINEERING GRAPHICS	**CHEM 107** 4 ENGINEERING CHEMISTRY I Pre-Req: TMAT 135	**MATH 180** 4 CALCULUS II Pre-Req: MATH 170	**PHYS 180** 4 GENERAL PHYSICS II Co-Req: MATH 180 Pre-Req: PHYS 170		**FCSC 101** 3 FOUNDATIONS OF SCIENTIFIC PROCESS	17
YEAR 2	FALL		**IENG 240** 3 ENGINEERING ECONOMICS Pre-Req: MATH 141, OR TMAT 155	**MENG 211** 3 ENGINEERING MECHANICS I (Statics) Pre-Req: PHYS 170, MATH 180	**MATH 260** 4 CALCULUS III Pre-Req: MATH 180	**PHYS 225** 3 INTRODUCTION OF MODERN PHYSICS Pre-Req: PHYS 180	**FCWR 151** 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101		16
	SPRING	**MENG 270** 1 INSTRUMENTATION AND MEASUREMENT Pre-Req: PHYS 170	**MENG 221** 4 STRENGTH OF MATERIALS Pre-Req: MENG 211 & MATH 180	**MENG 212** 3 ENGINEERING MECHANICS II Co-Req: MATH 260 Pre-Req: MENG 211	**MATH 320** 3 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260	**MENG 240** 3 THERMODYNAMICS Pre-Req: PHYS 225, CHEM 107	**FCWR 304** 3 COMMUNICATION FOR TECHNICAL PROFESSIONS**		17
YEAR 3	FALL	**MENG 346** 4 ENERGY CONVERSION Pre-Req: MENG 240	**MENG 340** 3 FLUID MECHANICS Pre-Req: MENG 240	**MENG 321** 3 INTRODUCTION TO COMPUTER AIDED DESIGN Pre-Req: MENG 105, MENG 212, MENG 221	**MENG 310** 3 INTRODUCTION TO MATERIAL SCIENCE Pre-Req: CHEM 107 or CHEM 110	**CSCI 125** 3 PROGRAMMING I Pre-Req: MATH 141, OR TMAT 155		**FCSP 105** 3 FOUNDATIONS OF SPEECH COMMUNICATION Pre-Req: FCWR 101	19
	SPRING	**MENG 370** 4 MACHINE DESIGN Pre-Req: MENG 221	**MENG 324** 3 VIBRATIONS AND SYSTEM Pre-Req: MENG 212, MATH 320	**MENG 349** 3 HEAT TRANSFER Pre-Req: MENG 240, MATH 320	**EENG 201** 4 INTRODUCTION TO ELECTRICAL ENGINEERING* Pre-Req: MATH 170, PHYS 170		**ICLT 3XX** 3 LITERATURE CHOICE**		17
YEAR 4	FALL	**MENG 373** 3 ENGINEERING ANALYSIS Pre-Req: MATH 320	**MENG 343** 1 THERMOFLUID LABORATORIES Pre-Req: MENG 340, MENG 240	**AENG 360** 3 AERODYNAMICS Pre-Req: MENG 340, MATH 320	**AENG 463** 3 PROPULSION Pre-Req: MENG 340	**AENG 490** 4 FLIGHT VEHICLE DESIGN Pre-Req: MENG 340	**ICPH 3XX** 3 PHILOSOPHY CHOICE**		17
	SPRING	**IENG 245** 3 STATISTICAL DESIGN I Pre-Req: MATH 170 OR TMAT 235		**AENG 492** 4 SENIOR AEROSPACE DESIGN Pre-Req: AENG 490, Chairperson approval		3 **LIBERAL ARTS ELECTIVE**	**ICBS 3XX** 3 BEHAVIORAL SCIENCE CHOICE**	**ICSS 309** 3 SOCIAL SCIENCE: TECHNOLOGY AND GLOBAL ISSUES** * Junior or Senior status	16
CREDITS									**135**

*Students are able to take EENG 212 Electrical Circuits I and Engineering Tools in lieu of EENG 201. Seek Chairperson's permission for substitution.

** Pre-Req: FCIQ 101, FCSP 105, FCSC 101, FCWR 151

(Rev 3/15)

Course names, numbers and/or pre-requisites are subject to change.