

Program:	Engineering - Associate in Science (AS) Degree
Meta-major:	Science, Technology, Engineering, & Math (STEM)



Summer Bridge (if necessary)	Fall Year 1	Winter Year 1	Spring Year 1	Summer Year 1	Fall Year 2	Winter Year 2	Spring Year 2
CHEM 060 INTRODUCTION TO GENERAL CHEMISTRY <i>Prerequisite: MATH 115</i> <i>Advisories: ENGLISH 028, ENGLISH 067, MATH 125</i> 5 units	CHEM 101 GENERAL CHEMISTRY I <i>Prerequisite: High school Chemistry or CHEM 060 or CHEM 065, and MATH 125</i> <i>Advisories: ENGLISH 028 and ENGLISH 067</i> 5 units	To reduce units in primary terms, it is suggested to take a GE course (3 units)	PHYSICS 101 PHYSICS FOR ENGINEERS AND SCIENTISTS I <i>Prerequisite: MATH 261</i> <i>Advisory: PHYSICS 011</i> Also fulfills Area A requirement 5 units	To reduce units in primary terms, it is suggested to take a GE course (3 units)	PHYSICS 102 PHYSICS FOR ENGINEERS AND SCIENTISTS II <i>Prerequisite: PHYSICS 101</i> <i>Corequisite: MATH 262</i> 5 units	ENG GEN 151 MATERIALS OF ENGINEERING <i>Prerequisites: CHEM 101, PHYSICS 101</i> 3 units	ENG ELEC 220 ELECTRICAL CIRCUITS I <i>Prerequisite: PHYSICS 102</i> <i>Corequisite: MATH 275</i> 4 units
MATH 260 PRECALCULUS <i>Prerequisite: MATH 240 or MATH 258 or Placement by multiple measures</i> 5 units	MATH 261 CALCULUS I <i>Prerequisite: MATH 260</i> Also fulfills Area D2 requirement 5 units		MATH 262 CALCULUS II <i>Prerequisite: MATH 261</i> 5 units		MATH 263 CALCULUS III <i>Prerequisite: MATH 262</i> 5 units		MATH 275 ORDINARY DIFFERENTIAL EQUATIONS <i>Prerequisite: MATH 262</i> 3 units
	ENG GEN 101 INTRODUCTION TO SCIENCE, ENGINEERING AND TECHNOLOGY 2 units		ENG GEN 120 INTRO TO PROGRAMMING CONCEPTS AND METHODOLOGIES FOR SCIENTISTS AND ENGINEERS <i>Prerequisite: MATH 260</i> 4 units		ENG GEN 131 STATICS <i>Prerequisite: PHYSICS 101</i> 3 units		ENG GEN 153 MATERIALS OF ENGINEERING LABORATORY <i>Prerequisite or Corequisite: ENG GEN 151</i> 1 unit
	ENG GEN 212 INTRODUCTION TO ENGINEERING DESIGN 3 units		Area D1: English Composition ENGLISH 101 COLLEGE READING AND COMPOSITION I <i>Prerequisite: ENGLISH 028 or ESL 008 or Placement by multiple measures;</i> <i>Advisory: ENGLISH 108</i> 3 units		*Area B1: American Institutions Choose any 3 units		*Area C: Humanities Choose any 3 - 5 units
							*Area B2: Social and Behavioral Sciences Choose any 3 units
Semester Units:	15		17		16	3	14 to 16
						Major Units:	53 (10 units also fulfill GE requirements)
*For the complete list of LACC General Education requirements, see the LACC Catalog, p.72. Area D1: English Composition (English 101) and Area D2: Communication and Analytical Thinking should be taken within the first year. All other GE courses can be taken in any semester. If appropriate, English and Math can be taken in the same semester.				Area E1/E2 units waived as this is a high-unit program	General Education (GE) Units (21 unit minimum):		22 to 24
Students who feel they need additional support in order to be successful in English and math should see a counselor for information about support courses, tutoring services, and boot camps.					Total Units (60 unit minimum):		65 to 67