

**Community College Program of Study for Transfer to a Chemical Engineering Program**

**FRESHMAN YEAR**

First Semester (Fall)		Second Semester (Spring)	
Course	SCH	Course	SCH
MATH 2413 Calculus I	4	MATH 2414 Calculus II	4
CHEM 1311 General Chemistry I	3	PHYS 2325 University Physics I	3
CHEM 1111 Chemistry I Laboratory	1	PHYS 2125 University Physics I Laboratory	1
ENGR 1201 Introduction to Engineering <sup>2</sup>	2	CHEM 1312 General Chemistry II	3
XXXX ##### Texas Core Curriculum Requirement	3	CHEM 1112 Chemistry II Laboratory	1
XXXX ##### Texas Core Curriculum Requirement	3	XXXX ##### Technical or Texas Core Curr. Requirement <sup>4</sup>	3
Semester Credit Hours	16	XXXX ##### Texas Core Curriculum Requirement	3
		Semester Credit Hours	18

**SOPHOMORE YEAR**

First Semester (Fall)		Second Semester (Spring)	
Course	SCH	Course	SCH
MATH 2415 Multi-Variable Calculus (Calculus III) <sup>3</sup>	4	MATH 2320 Differential Equations	3
PHYS 2326 University Physics II	3	CHEM 2325 Organic Chemistry II	3
PHYS 2126 University Physics II Laboratory	1	CHEM 2125 Organic Chemistry II Laboratory	1
CHEM 2323 Organic Chemistry I	3	ENGR ##### Thermodynamics I	3
CHEM 2123 Organic Chemistry I Laboratory	1	XXXX ##### Technical or Texas Core Curr. Requirement <sup>4</sup>	4
ENGR ##### Stoichiometry/Mass Balance	3	XXXX ##### Texas Core Curriculum Requirement	3
XXXX ##### Texas Core Curriculum Requirement	3	Semester Credit Hours	17
Semester Credit Hours	18		

**Notes:**

- 1 Texas Common Course Numbers are used for all TCCN-numbered courses.
- 2 This is a 1 hr course for some chemical engineering programs.
- 3 Most chemical engineering programs will accept the course MATH 2415/2515 for transfer credit and as applicable to the chemical engineering major, while some will accept the course for transfer credit only. The student is advised to check with the school to which he or she intends to transfer for specific applicability of this course to the
- 4 Some chemical engineering programs will accept the courses ENGR 2304 (programming), ENGR 2305/2105 (electrical circuits with laboratory) or ENGR 2303 or 2403 (statics & dynamics) for transfer credit and as applicable to the chemical engineering major, while some will accept the courses for transfer credit only. The student is advised to
- 5 Some chemical engineering programs require a separate introductory course on computing, while others incorporate the same material into other lower-level courses.