



AA Pre-Engineering to BS Chemical Engineering
 Recommended 4-Year Course Sequence
 2024-2025 Catalog



FRESHMAN YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
ENGL 1301		Composition I	3	ENGL 1302		Composition II	3
MATH 2413		Calculus I	4	MATH 2414		Calculus II	4
CHEM 1411		General Chemistry	4	CHEM 1412		General Chemistry II	4
HIST 1301		US History I	3	PHYS 2425		University Physics	4
			14				15

SOPHOMORE YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
PHIL 2306		Intro to Ethics	3	CHEM 2425		Organic Chemistry II	4
SPCH 1315		Intro to Public Speaking	3	PHYS 2426		University Physics II	4
MATH 2415		Multivariate Calculus	4	MATH 2320		Ordinary Differential Equations	3
CHEM 2423		Organic Chemistry	4		CHEN 2310	Intro to Chemical Engineering	3
	ENGR 1201	Intro to Engineering	2		ENGR 2301	Engineering Mechanics: Statics	3
			16				17

JUNIOR YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
	CHEN 3330	Fluid Mechanics	3		CHEN 3360	Chemical Reaction Engineering	3
	CHEN 3302	Chemical Engineering Thermodynamics II	3		CHEN 3340	Heat Transfer	3
	CHEN 3310	Chemical Engineering Materials	3		CHEN 3320	Mass Transfer	3
	CHEM 3310/3111	Analytical Chemistry (Lecture & Lab)	4		Various	CHEN Approved Elective 3 hours	3
	MATH 3351	Probability and Statistics for Engineers and	3		Various	Creative Arts (Core, 3 hrs.)	3
					CHEN 3301	Chemical Engineering Thermodynamics I	3
			16				18

SENIOR YEAR

Fall				Spring			
TVCC	UT Tyler	Title	Hours	TVCC	UT Tyler	Title	Hours
	CHEN 4310	Separation Processes	3		CHEN 4109	Senior Seminar	1
	CHEN 4320	Chemical Engineering Laboratory I	3		CHEN 4371	Chemical Plant Design II	3
	CHEN 4330	Process Control and Safety	3		CHEN 4360	Chemical Engineering Laboratory II	3
	CHEN 4170	Chemical Plant Design I	1			CHEN Approved Elective 3 hours	3
	ECON 2301	Principles of Macroeconomics (or Principles of	3		HIST 1303	History of Technology and Innovation in U.S.	3
	POLS 2306	Introductory Texas Politics	3		POLS 2305	Introductory American Government	3
			16				16

Total Credit Hours at Trinity Valley Community College		62
Total Credit Hours at UT Tyler		66
Total Credit Hours		128

Courses highlighted in green are to be taken concurrently at UT Tyler.