

# Texas A&M University-Kingsville®

## College of Engineering

### Bachelor of Science, Chemical Engineering

#### Four-Year Academic Map 2019-2020

<b>YEAR 1</b>	<b>Semester 1 Fall</b>		<b>Semester 2 Spring</b>			
	CHEM 1311 & CHEM 1111 - General Inorganic Chem I & Lab		CHEM 1312 & CHEM 1112 - General Inorganic Chem II & Lab			
	ENGL 1301 - Rhetoric and Composition		CHEM 1311 & CHEM 1111 - General Inorganic Chem & Lab			
	MATH 2413 - Calculus I		MATH 2414 - Calculus II			
	POLS 2301 - Government and Politics of US		PHYS 2325 & PHYS 2125 - University Physics I & University Physics I Lab			
	UNIV 1201 - Learning in Global Context					
	Semester Hours	16	Semester Hours	15	Total	31
<b>YEAR 2</b>	<b>Semester 1 Fall</b>		<b>Semester 2 Spring</b>			
	CHEM 3323 & CHEM 3123 - Organic Chem I & Organic Chem Lab I		CHEM 3325 & CHEM 3125 - Organic Chem II and Organic Chem Lab II			
	CHEN 2371 - Conservation Principles I		CHEN 2372 - Conservation Principles II			
	HIST 1301 - American History to 1877		MATH 3415 - Calculus III			
	MATH 3320 - Differential Equations		MEEN 2355 - Statics and Dynamics			
	Language, Philosophy and Culture		PHYS 2326 & PHYS 2126 - University Physics II & University Physics II Lab			
	Semester Hours	16	Semester Hours	18	Total	34
<b>YEAR 3</b>	<b>Semester 1 Fall</b>		<b>Semester 2 Spring</b>			
	CHEM 3331 - Physical Chemistry I		CHEM 3332 - Physical Chemistry II			
	CHEN 3347 - Chem Eng Thermodynamics I		CHEN 3310 - Heat Transport Phenomena			
	CHEN 3392 - Fluid Transport Phenomena		CHEN 3315 - Chemical Process Design I			
	POLS 2302 Government and Politics of TX		CHEN 3321 - Process Simulation			
	Communications		CHEN 3371 - Chemical Thermodynamics II			
Social and Behavioral Sciences		CHEN 4399, or CHEN 4120, or CHEN 4130				
	Semester Hours	18	Semester Hours	16	Total	34
<b>YEAR 4</b>	<b>Semester 1 Fall</b>		<b>Semester 2 Spring</b>			
	BIOL 1306 - General Biology I		CHEN 4279 - Unit Operations Lab			
	CHEN 4278 - Unit Operations		CHEN 4311 - Biochemical Engineering			
	CHEN 4316 - Chemical Process Design II		CHEN 4317 - Chem Process Design III (WI)			
	CHEN 4373 - Chemical Reactor Engineering		CHEN 4392 - Process Dynamics and Control			
	CHEN 4389 - Mass Transport Phenomena		HIST 1302 - American History since 1877			
	Semester Hours	14	Semester Hours	17	Total	31

\*State of Texas Core Curriculum

Students should meet with their academic advisor to formulate their own plan.

