

**REQUIREMENTS FOR THE DEGREE OF
BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING**

At Texas A&M University-Kingsville

FRESHMAN YEAR

CHEM 1311 General Inorganic Chemistry I3 <i>(prereq: MATH 1314, HS chemistry or CHEM 1481)</i>	ENGL 1302 Rhetoric and Composition (<i>prereq: ENGL 1301</i>) 3
CHEM 1111 General Inorganic Chemistry Lab I (<i>coreq: CHEM 1311</i>)..... 1	HIST 1301 American History to 1877..... 3
ENGL 1301 Rhetoric and Composition 3	MATH 2414 Calculus II (<i>prereq: MATH 2413</i>)..... 4
MATH 2413 Calculus I (<i>prereq: MATH 1348</i>).....4	MEEN 1320 Elem Num Method & Eng Prob Solving 3
MEEN 1310 Engineering Graphics I3	PHYS 2325 University Phys. I..... 3
GEEN 1201 Engineering as a Career 2	<i>(prereq: PHYS 1305/1105 or 1375, coreq: MATH 2413, PHYS 2125)</i>
	PHYS 2125 University Phys. I Lab (<i>coreq: PHYS 2325</i>)..... 1
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16	17

SOPHOMORE YEAR

IEEN 2310 Applied Methods in Eng. Stat. I (<i>prereq: MATH 2413</i>) 3	IEEN 3321 Operation Research Methods in Eng. I (<i>prereq: MATH 2414</i>) 3
MATH 3320 Differential Equations (<i>prereq: MATH 2414</i>)..... 3	IEEN 3325 Eng. Econ. Analysis I..... 3
PHYS 2326 University Physics II..... 3	MEEN 2355 Statics and Dynamics..... 3
<i>(prereq: PHYS 2325/2125, coreq: MATH 2414)</i>	<i>(Prereq: PHYS 2325/2125 and MATH 2414)</i>
PHYS 2126 University Physics II Lab (<i>coreq: PHYS 2326</i>) 1	MEEN 3344 Materials Science 3
POLS 2301 Government & Politics of U.S 3	<i>(prereq: CHEM 1311/1111, MATH 2413, coreq: PHYS 2326)</i>
*Social/Behavioral Science Elective..... 3	^ Creative arts Elective..... 3
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16	15

JUNIOR YEAR

IEEN 3314 Eng. Methods in Quality Assurance (<i>prereq: IEEN 2310</i>) 3	EEEN 3331 Circuits and Electrmag Devices (<i>PHYS 2326/2126</i>)..... 3
IEEN 3315 Comp. Based Prod. and Invent. Cont. (<i>prereq: MATH 3320</i>) 3	IEEN 3310 Applied Methods in Eng. Stat. II 3
MATH 3415 Calculus III (<i>prereq: MATH 2414</i>) 4	<i>(prereq: IEEN 2310 and MATH 2414)</i>
MEEN 3347 Thermodynamics 3	IEEN 3341 Human Factors and Ergo 3
<i>(prereq: MATH 2414, PHYS 2325/2125)</i>	MEEN 3349 Fund. MFG Processes (<i>prereq: MEEN 3344</i>) 3
** Communication Elective (<i>ENGL 2374 or COMS2374 required</i>) 3	POLS 2302 Government and Politics of TX 3
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16	----
	18

SENIOR YEAR

IEEN 4163 Senior Design Project I (<i>prereq: IEEN 3310</i>)..... 1	IEEN 4354 Sys. Safety Eng 3
IEEN 4316 Facility Design and Plant Layout 3	IEEN 4264 Senior Design Project II (<i>prereq: IEEN 4163</i>) 2
IEEN 4328 App. Of Comp. Simulation (<i>prereq: IEEN 3310</i>) 3	Engineering Elective 3
IEEN 4332 Principles of Eng. Proj. Mgt 3	Engineering Elective 3
Engineering Elective 3	^ Language, Phil., and Culture 3
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13	14

Engineering electives: CSEN 4367, EEEN 4357, IEEN 4312, IEEN 4313, IEEN 4321, IEEN 4325, IEEN 4334, IEEN 4335, IEEN 4336, IEEN 4351, IEEN 4360, MEEN 4341, MEEN 4355, MEEN 4371, MEEN 4372, MEEN 4373 (Other courses must be approved in advance by Student's advisor).

*EVEN 2372 OR ECON 2301 recommended.

**ENGL 2374 or COMS 2374 is required unless otherwise approved by advisor and department chair.

^For courses listed under Core Curriculum "Components" see "General Requirements for Graduation with a Baccalaureate Degree" in an earlier section of this Catalog.