

CHEMICAL ENGINEERING - BIOLOGY or PHARMACEUTICAL TRACK

JBA 5/20

CCRI students who wish to transfer to URI's Bachelor of Science (B.S.) degree program in Chemical Engineering must have a minimum grade point average of 2.50 in the mathematics, science, and engineering courses being transferred. Your goal should be to complete all courses outlined below and seek to begin at URI for a **Fall semester** if you would like to finish the B.S. degree **within 3 years after arrival**. **You cannot complete the first two years of the CHE BS at CCRI**. To confirm all requirements to earn a CCRI A.S. in Engineering, consult the CCRI Engineering Department.

From: CCRI A. S. Engineering		To: URI B.S. Chemical Engineering	
CONCENTRATION FOR TRANSFERRING TO URI (Math, Science, and Engineering Courses)		MATHEMATICS, SCIENCE, and ENGINEERING	
MATHEMATICS		MATHEMATICS	
MATH 2141	Calculus I (4) [GE-M/S]	MTH 141	Calculus I (4) [GE-A1, B3]
MATH 2142	Calculus II (4) [GE-M/S]	MTH 142	Calculus II (4) [GE-A1, B3]
MATH 2243	Calculus III (4) [GE-M/S]	MTH 243	Multivariable Calculus (3) + MTH 2XX Elective (1) [GE-A1, B3]
MATH 2362	Advanced Engineering Mathematics (4) [GE-M/S]	MTH 244	Differential Equations (3) + MTH 2XX Elective (1)
SCIENCE		SCIENCE	
BIOL 1002	Introductory Biology: Cellular (4)	BIO 101	Principles of Biology I (3) + [GE-A1]
BIOL 2480	General Microbiology (4)	BIO 103	Principles of Biology I Lab (1) [GE-A1]
CHEM 1030	General Chemistry I (5) [GE-M/S]	CMB 211	Introduction to Microbiology (4)
CHEM 1100	General Chemistry II (5) [GE-M/S]	CHM 101	General Chemistry I (3) + [GE-A1]
CHEM 2250	Organic Chemistry I Lecture (3) [GE-M/S]	CHM 102	General Chemistry I Lab (1) + CHM 1XX Elective (1)
PHYS 1100	Engineering Physics (4) [GE-M/S]	CHM 112	General Chemistry II (3) +
ENGR 2150	Introduction to Electrical Engineering (3)	CHM 114	General Chemistry II Lab (1) + CHM 1XX Elective (1)
ENGR 2151	Introduction to Electrical Engineering Lab (1)	CHM 227	Organic Chemistry I (3)
ENGINEERING		ENGINEERING	
ENGR 1020	Introduction to Engineering and Technology (3)	PHY 203	Elementary Physics I (3) + [GE-A1]
ENGR 2160	Introduction to Engineering Analysis (2)	PHY 273	Elementary Physics I Lab (1) [GE-A1]
No Equivalency [Take these courses at URI]		PHY 204	Elementary Physics II (3) [GE-A1]
GENERAL EDUCATION		PHY 274	Elementary Physics II Lab (1) [GE-A1]
HUMANITIES		ENGINEERING	
ENGL 1010	Composition I (3) [GE-H]	EGR 105	Foundations of Engineering I (1) + EGR 1XX Elective (2) [GE-A4]
◆ENGL 2100	Technical Report Writing (3) [GE-H]	EGR 106	Foundations of Engineering II (2) [GE-A4]
◆PHIL 2030	Ethics (3) [GE-H]	CHE 212 (3) Fall only, CHE 213 (3), CHE 232 (3), & CHE 272 (3) all Spring only	
SOCIAL SCIENCE		GENERAL EDUCATION OUTCOMES	
ECON 2030*	Principles of Microeconomics (3) *[Required for CHE at URI] [GE-S]	WRT 104	Writing to Inform and Explain (3) [GE-B1, B4]
◆Indicates a recommended course or course option. Consult a CCRI Engineering Advisor and the Transfer Guide in selecting a course to meet this requirement.		WRT 332	Technical Writing (3) [GE-B1, B2]
Note: <u>CCRI General Education Key</u> – [GE-H] Humanities; [GE-M/S] Mathematics and Science; [GE-S] Social Science (<i>consult current CCRI catalog for other courses</i>)		PHL 212	Ethics (3) [GE-A3, C3]
<u>URI General Education Outcomes Key</u> – [GE-A1] Science, Technology, Engineering, and Mathematical (STEM); [GE-A2] Social and Behavioral Sciences; [GE-A3] Humanities;			
[GE-A4] Arts and Design (student must complete EGR 105 and 106 to satisfy this outcome); [GE-B1] Write Effectively; [GE-B2] Communicate Effectively;			
[GE-B3] Mathematical, Statistical, or Computational strategies; [GE-B4] Information Literacy; [GE-C3] Diversity and Inclusion			

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