

BIOMEDICAL ENGINEERING

JBA 5/20

CCRI students who wish to transfer to URI's Bachelor of Science (B.S.) degree program in Biomedical 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 2 years after arrival. 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. Biomedical 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 362	Advanced Engineering Mathematics I (3) + MTH 3XX Elective (1)		
SCIENCE				SCIENCE			
BIOL 2201	Human Anatomy & Physiology I (4)	[GE-M/S]		BIO 220	Fundamentals of Human Anatomy & Physiology I (3) +		
				BIO 221	Fundamentals of Human Anatomy & Physiology I Lab (1)		
BIOL 2202	Human Anatomy & Physiology II (4)	[GE-M/S]		BIO 222	Fundamentals of Human Anatomy & Physiology II (3) +		
				BIO 223	Fundamentals of Human Anatomy & Physiology II Lab (1)		
CHEM 1030	General Chemistry I (5)	[GE-M/S]		CHM 101	General Chemistry I (3) +		[GE-A1]
				CHM 102	General Chemistry I Lab (1) + CHM 1XX Elective (1)		
PHYS 1100	Engineering Physics (4)	[GE-M/S]		PHY 203	Elementary Physics I (3)+		[GE-A1]
				PHY 273	Elementary Physics I Lab (1)		[GE-A1]
ENGR 2150	Introduction to Electrical Engineering (3)			PHY 204	Elementary Physics II (3)		[GE-A1]
ENGR 2151	Introduction to Electrical Engineering Lab (1)			PHY 274	Elementary Physics II Lab (1)		[GE-A1]
No Equivalency [Take this course at URI]				CHM 124 (3)			
ENGINEERING				ENGINEERING			
BIOL 1300	Orientation to Biotechnology (1)			BME 181	Biomedical Engineering Seminar I (1)		
ENGR 1020	Introduction to Engineering and Technology (3)			EGR 105	Foundations of Engineering I (1) + EGR 1XX Elective (2)		[GE-A4]
ENGR 2160	Introduction to Engineering Analysis (2)			EGR 106	Foundations of Engineering II (2)		[GE-A4]
ENGR 2320	Digital Electronics (4)			ELE 201	Digital Circuit Design (3) +		
				ELE 202	Digital Circuit Design Lab (1)		
ENGR 2620	Linear Electrical Systems and Circuit Theory for Engineers (3)			ELE 212	Linear Circuit Theory (4)		
ENGR 2621	Linear Circuits Lab (2)			ELE 215	Linear Circuits Lab (1)		
No Equivalency [Take these courses at URI]				BME 281 (1) Fall only, BME 207 (3) Spring only			
GENERAL EDUCATION				GENERAL EDUCATION OUTCOMES			
HUMANITIES							
ENGL 1010	Composition I (3)	[GE-H]		WRT 104	Writing to Inform and Explain (3)		[GE-B1, B4]
◆ENGL 2100	Technical Report Writing (3)	[GE-H]		WRT 332	Technical Writing (3)		[GE-B1, B2]
◆PHIL 2030	Ethics (3)	[GE-H]		PHL 212	Ethics (3)		[GE-A3, C3]
SOCIAL SCIENCE							
ECON 2030*	Principles of Microeconomics (3) *[Required for BME at URI]	[GE-S]		ECN 201	Principles of Economics: Microeconomics (3)		[GE-A2]

◆Indicates a recommended course or course option. Consult a **CCRI Engineering Advisor** and the Transfer Guide in selecting a course to meet this requirement.

Note: CCRI General Education Key – [GE-H] Humanities; [GE-M/S] Mathematics and Science; [GE-S] Social Science (consult current CCRI catalog for additional categories)

URI General Education Outcomes Key – [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