## **INDUSTRIAL AND SYSTEMS ENGINEERING 2022-2023**

CCRI students who wish to transfer to URI's Bachelor of Science (B.S.) degree program in Industrial & Systems 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. Industrial & Systems Engineering		
CONCENTRATION FOR TRANSFERRING TO URI (Math, Science, and Engineering Courses)				MATHEMATICS, SCIENCE, and ENGINEERING		
MATHEMATIC	S					
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 Elect	tive (1)	
SCIENCE			SCIENCE			
CHEM 1030	General Chemistry I (5)	[GE-M/S]	CHM 101	General Chemistry I (3) +	[GE-A1]	
		[02-101/3]	CHM 102	General Chemistry I Lab (1) + CHM 1XX Elective (1)		
PHYS 1150	University Physics I (3)	[GE-M/S]	PHY 203	Elementary Physics I (3) +	[GE-A1]	
PHYS 1151	University Physics I Lab (1)		PHY 273	Elementary Physics I Lab (1)	[GE-A1]	
PHYS 1500	University Physics II (3)		PHY 204	Elementary Physics II (3)	[GE-A1]	
PHYS 1501	University Physics II Lab (1)		PHY 274	Elementary Physics II Lab (1)	[GE-A1]	
Choose One (1) of the Following Three (3) Courses:			Science Elective			
BIOL 1005	Biology in the Modern World (4)	[GE-M/S]	NRS 100	Natural Resource Conservation (3) + XXX 1XX Elective (1)	[GE-A1]	
CHEM 1100	General Chemistry II (5)	[GE-M/S]	CHM 112	General Chemistry II (+ CHM 112 Lab (1) and CHM 1XX E	lective (1) )	
PHYS 2000	University Physics III (3)	[GE-M/S]	PHY 205	Elementary Physics III (3)	[GE-A1, B3]	
PHYS 2001	University Physics III Lab (1)	[GE-M/S]	PHY 275	Elementary Physics III Lab (1)	[GE-A1, B3]	
ENGINEERING			ENGINEERING			
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 1030	Engineering Graphics (3)		MCE 201	Engineering Graphics (3)		
ENGR 2050	Engineering Mechanics-Statics (3)		MCE 262	Statics (3)		
Choose Two (2) of the Following Three (3) Courses:			Technical Electives			
ENGR 2540	Mechanics of Materials for Engineering (3)		CVE 220	Mechanics of Materials (3)		
ENGR 2620	Linear Electrical Systems and Circuit Theory for Engineers (3	3)	ELE 220	Passive and Active Circuits (3)		
ENGR 2060	Engineering Mechanics-Dynamics (3)		MCE 263	Dynamics (3)		
No Equivalency [Take these courses at URI]			ISE 240 (3)/ISE 241 (1), ISE 261G (3) Fall only, EGR 316G (3) Spring only			
GENERAL EDUCATION			GENERAL EDUCATION			
HUMANITIES						
♦ENGL 2100	Technical Report Writing (3)	[GE-H]	WRT 332	Technical Writing (3)	[GE-B1, B2]	
SOCIAL SCIENC	CE					
ECON 2030*	Principles of Microeconomics (3) *[Required for most Engineering	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: <u>CCRI General Education Key</u> – [GE-H] Humanities; [GE-M/S] Mathematics and Science; [GE-S] Social Science (consult current CCRI catalog for other courses) URI General Education Outcomes Key – [GE-A1] Science, Technology, Engineering, and Mathematical (STEM); [GE-A2] Social and Behavioral Sciences;

[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

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