

COMPUTER ENGINEERING 2022-2023

SRN 8/22

CCRI students who wish to transfer to URI's Bachelor of Science (B.S.) degree program in Computer 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. Computer 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 3XX Elective (1)	
SCIENCE			SCIENCE		
CHEM 1030	General Chemistry I (5)	[GE-M/S]	CHM 101	General Chemistry I (3) +	[GE-A1]
COMI 2510	Advanced JAVA Programming (3) + Free Elective (1) (**see below)		CHM 102	General Chemistry I Lab (1) + CHM 1XX Elective (1)	
PHYS 1150	University Physics I (3)		CSC 211	Computer Programming (4)	
PHYS 1151	University Physics I Lab (1)	[GE-M/S]	PHY 203	Elementary Physics I (3) +	[GE-A1]
ENGR 2150	Introduction to Electrical Engineering (3)		PHY 273	Elementary Physics I Lab (1)	[GE-A1]
ENGR 2151	Introduction to Electrical Engineering Lab (1)		PHY 204	Elementary Physics II (3)	[GE-A1]
ENGINEERING			ENGINEERING		
ENGR 1020	Introduction to Engineering and Technology (3)		PHY 274	Elementary Physics II Lab (1)	[GE-A1]
ENGR 2160	Introduction to Engineering Analysis (2)		EGR 105	Foundations of Engineering I (1) + EGR 1XX Elective (2)	[GE-A4]
ENGR 2320	Digital Electronics (4)		EGR 106	Foundations of Engineering II (2)	[GE-A4]
ENGR 2520	Microprocessor and Microcomputers (4)		ELE 201	Digital Circuit Design (3) +	
ENGR 2620	Linear Electrical Systems and Circuit Theory for Engineers (3)		ELE 202	Digital Circuit Design Lab (1)	
ENGR 2621	Linear Circuits Lab (2)		ELE 208	Introduction to Computer Systems (3) +	
GENERAL EDUCATION			GENERAL EDUCATION OUTCOMES		
HUMANITIES					
ENGL 1010	Composition I (3)	[GE-H]	ELE 209	Introduction to Computer Systems Lab (1) +	
◆ENGL 2100	Technical Report Writing (3)	[GE-H]	ELE 212	Linear Circuit Theory (4)	
◆PHIL 2030	Ethics (3)	[GE-H]	ELE 215	Linear Circuits Lab (1)	
SOCIAL SCIENCE					
ECON 2030*	Principles of Microeconomics (3) *(Required for CPE 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 other courses*)

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

**CCRI recommends COMI 1510 "JAVA Programming" prior to taking COMI 2510 "Advanced JAVA Programming". COMI 1510 will not fulfill a requirement for the URI CPE B.S. Please consult your CCRI Engineering Advisor to determine if this recommended course is beneficial for you.