COMPUTER ENGINEERING

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 CHM 102	General Chemistry I (3) **+** General Chemistry I Lab (1) **+** CHM 1XX Elective (1)	**[GE-A1]**
COMI 2510	Advanced JAVA Programming (3) + Free Elective (1) (**see below)		CSC 211	Computer Programming (4)	
PHYS 1100	Engineering Physics (4)	**[GE-M/S]**	PHY 203 PHY 273	Elementary Physics I (3) **+** Elementary Physics I Lab (1)	**[GE-A1]** **[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]**
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 2320	Digital Electronics (4)		ELE 201 ELE 202	Digital Circuit Design (3) **+** Digital Circuit Design Lab (1)	
ENGR 2520	Microprocessor and Microcomputers (4)		ELE 208 ELE 209	Introduction to Computer Systems (3) **+** Introduction to Computer Systems 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)	
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 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: <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)*

<u>URI General Education Outcomes</u> 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.