ENGINEERING, CIVIL -ASSOCIATE IN SCIENCE IN ENGINEERING



ENCI

Successful completion of this program enables qualified students to transfer to an accredited engineering curriculum and apply most credits to a Bachelor of Science degree in engineering. This program provides a firm background in basic engineering principles. The curriculum includes a strong foundation in mathematics, the basic sciences and engineering fundamentals, as well as liberal arts courses that are applicable to most Bachelor of Science degree programs.

Entrance to the program requires a mathematics placement examination at a calculus level (student is ready to take Calculus I (MATH 2141) or the completion of Pre-Calculus Mathematics (MATH 2111)). It is recommended that all applicants take a mathematics placement examination prior to the summer session.

For courses to transfer to accredited engineering programs, it is important that students adhere to the required prerequisites and corequisites. When in doubt, refer to the course descriptions (https:// catalog.ccri.edu/course-descriptions/).

Although most courses apply to the curriculum of many B.S. in engineering programs, the course sequences and schedules listed on the following pages will allow students to apply their studies toward one of nine University of Rhode Island engineering programs. These course sequences are for full-time, day students who enter in the fall semester, allowing them to complete the Associate in Science degree requirements at CCRI in four semesters and transfer to the University of Rhode Island as a junior. For the first semester, all engineering students take all the same courses. In all other semesters, the required courses will depend upon the desired engineering program. For most engineering programs, students are required to take courses only offered by URI. For CCRI students taking 12 or more credits, up to seven of these credits can be taken per semester at URI under the inter-institutional agreement at no additional cost. See description of the agreement on this page (https:// catalog.ccri.edu/academic-information/).

Note: Many courses require prerequisites, corequisites and/or testing. See course descriptions for details (https://catalog.ccri.edu/course-descriptions/).

Please see Physics and Engineering Department (https://www.ccri.edu/ physandengr/engt/) webpage for program changes and updates.

Requirements

Code

Title

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General Education	n Requirements	
CHEM 1030	General Chemistry I	5
ECON 2030	Principles of Microeconomics	3
ENGL 1010	Composition I (or ENGL 1010A)	3
MATH 2141	Calculus I	4
MATH 2142	Calculus II	4

Hours

MATH 2243	Calculus III	4
	Social Science Elective (https://catalog.ccri.edu/ nation/general-education/course-attributes/)	3
Subtotal		26
Core Requireme	nts	
ENGR 1020	Introduction to Engineering & Technology	3
ENGR 2160	Introduction to Engineering Analysis	2
MATH 2362	Advanced Engineering Mathematics	4
PHYS 1150 & PHYS 1151	University Physics I and University Physics I Laboratory (Formerly PHYS 1100)	4
PHYS 1500 & PHYS 1501	University Physics II and University Physics Lab II (Formerly ENGR 2150/2151)	4
Subtotal		17
Civil Concentrat	ion (ENCI)	
CHEM 1100	General Chemistry II	5
ENGR 2050	Engineering Mechanics Statics	3
ENGR 2060	Engineering Mechanics Dynamics	3
ENGR 2540	Mechanics of Materials for Engineering	3
ENGR 2620	Linear Electrical Systems and Circuit Theory for Engineers	3
GEOL 1010	Introduction to Geology - How the Earth Works	4
CVE 205	Basic Surveying (URI-Fall only) ¹	1
CVE 230	Mechanics of Materials Lab (URI-Spring only) $^{ m 1}$	1
CVE 250	CADD for Civil Engineers (URI-Spring only) ¹	3
STA 409	Statistical Methods in Research I (URI) $^{ m 1}$	3
Subtotal		29
Total Hours		72

This course must be taken at URI. For CCRI students taking 12 or more credits, up to seven of these credits can be taken per semester at URI, under the inter-institutional agreement, at no additional cost. See description of the agreement on this page (https://catalog.ccri.edu/academic-information/).

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Recommended Course Sequence

Course	Title	Hours
Prerequisites		
MATH 2111	Pre-Calculus Mathematics	4
	Hours	4
	Total Hours	4
Course	Title	Hours
Year 1		
Semester 1		
Fall:		
CHEM 1030	General Chemistry I	5
ECON 2030	Principles of Microeconomics	3
ENGL 1010	Composition I (or ENGL 1010A)	3
ENGR 1020	Introduction to Engineering & Technology	3

MATH 2141	Calculus I	4
	Hours	18
Semester 2		
Spring:		
CHEM 1100	General Chemistry II	5
ENGR 2160	Introduction to Engineering Analysis	2
MATH 2142	Calculus II	4
PHYS 1150 & PHYS 1151	University Physics I and University Physics I Laboratory (Formerly PHYS 1100)	4
	Social Science Elective (https://catalog.ccri.edu/ mation/general-education/course-attributes/)	3
	Hours	18
Year 2		
Semester 1		
Fall:		
ENGR 2050	Engineering Mechanics Statics	3
ENGR 2540	Mechanics of Materials for Engineering	3
MATH 2243	Calculus III	4
PHYS 1500 & PHYS 1501	University Physics II and University Physics Lab II (Formerly ENGR 2150/2151)	4
CVE 205	Basic Surveying (URI-Fall only) ¹	1
STA 409	Statistical Methods in Research I (URI) ¹	3
	Hours	18
Semester 2 Spring:		
ENGR 2060	Engineering Mechanics Dynamics	3
ENGR 2620	Linear Electrical Systems and Circuit Theory for Engineers	3
GEOL 1010	Introduction to Geology - How the Earth Works	4
MATH 2362	Advanced Engineering Mathematics	4
CVE 230	Mechanics of Materials Lab (URI-Spring only) $^{ m 1}$	1
CVE 250	CADD for Civil Engineers (URI-Spring only) $^{ m 1}$	3
	Hours	18
	Total Hours	72

¹ This course must be taken at URI. For CCRI students taking 12 or more credits, up to seven of these credits can be taken per semester at URI, under the inter-institutional agreement, at no additional cost. See description of the agreement on this page (https://catalog.ccri.edu/ academic-information/).

Transfer

If you are interested in earning a bachelor's degree, please meet with an Academic Advisor (https://ccri.edu/advising/) who can help you select the courses that best prepare you for transfer to a four-year college or university.

If you are interested in transferring to Rhode Island College or the University of Rhode Island, check out the Joint Admissions Agreement (https://ccri.edu/jaa/). Transfer information, events and articulations can be found on the Transfer Center website (https://ccri.edu/oes/ transfer_center/).