

ENGINEERING TRANSFER (ENGN)

ASSOCIATE IN SCIENCE (A.S.) DEGREE

Knight Campus, Warwick only

Successful completion of this program enables qualified students to transfer to an accredited engineering curriculum and applying most credits to a Bachelor of Science 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 a good portion of liberal arts courses required by most Bachelor of Science degrees.

Entrance to the program requires a mathematics placement examination at a pre-calculus level (student is ready to take CCRI Calculus I, MATH 1910) or the completion of CCRI Pre-calculus (MATH 1900). It is recommended that all applicants take the 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.

Although most courses apply to the curriculum of many B.S. in engineering programs, the course sequences and schedule listed below will allow students to plan their studies toward one of ten University of Rhode Island engineering programs. This course sequence is for full-time day students, allowing them to complete the CCRI A.S. requirements in four semesters and transferring 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

(continued on page 79)

Recommended Courses For Students Planning To Transfer To URI Engineering Program

Some courses may be taken at CCRI. Others are only offered at URI First, select the Engineering Program option at URI to which you plan to transfer. Dots (•) indicate recommended course for your chosen degree option. If you are unsure about course selection, contact the CCRI Department of Engineering and Technology.

CCRI COURSE	URI COURSE**	COURSE TITLE	CREDITS	URI Engineering Program Option										
				BIOMEDICAL	CHEMICAL	CHEM-BIOLOGY	CHEM-OCEAN	CIVIL	COMPUTER	ELECTRICAL	INDUSTRIAL	MECHANICAL	OCEAN	
FALL - I														
<input type="checkbox"/> CHEM 1030		General Chemistry	5	•	•	•	•	•	•	•	•	•	•	•
<input type="checkbox"/> ENGL 1010*		Composition I	3	•	•	•	•	•	•	•	•	•	•	•
<input type="checkbox"/> ENGR 1020		Intro to Engineering and Technology	3	•	•	•	•	•	•	•	•	•	•	•
<input type="checkbox"/> MATH 1910*		Calculus I	4	•	•	•	•	•	•	•	•	•	•	•
<input type="checkbox"/> PHYS 1100	C	Engineering Physics (co-req. MATH 1910)	4	•	•	•	•	•	•	•	•	•	•	•
Fall-I Total				19	19	19	19	19	19	19	19	19	19	19
SPRING - I														
<input type="checkbox"/> BIOL 1002		General Biology	4			•								
<input type="checkbox"/> BIOL 1300		Orientation to Biotechnology	1	•										
<input type="checkbox"/> CHEM 1100		General Chemistry II	5		•	•								
<input type="checkbox"/> CHEM 1190		Health Science Chemistry III	5	•										
<input type="checkbox"/> ECON 2030		Principles of Microeconomics	3	•	•	•	•	•	•	•	•	•	•	•
<input type="checkbox"/> ENGR 2150	P	Intro to Electrical Engineering	3	•	•		•	•	•	•	•	•	•	•
<input type="checkbox"/> ENGR 2151		Intro to Electrical Engineering Lab	1	•	•		•	•	•	•	•	•	•	•
<input type="checkbox"/> ENGR 2160	P	Intro to Engineering Analysis	2	•	•	•	•	•	•	•	•	•	•	•
<input type="checkbox"/> MATH 1510	P	Scientific Programming	3							•				
<input type="checkbox"/> MATH 1920	P	Calculus II	4	•	•	•	•	•	•	•	•	•	•	•
	<input type="checkbox"/> OCE 101	P Intro to Ocean Engineering	1											•
<input type="checkbox"/> General Education Elective			3	•	•	•	•	•	•	•	•	•	•	•
Spring-I Total				16	16	12	16	16	16	19	16	16	17	

* Placement test required (•) Dot indicates recommended course

(continued on page 79)

ENGINEERING TRANSFER (ENGN) (continued)

(continued from page 78)

offered by URI. For students taking 12 or more credits, up to seven URI credits can be taken per semester under the interinstitution agreement at no additional cost. (See the agreement on page 24 of the catalog.)

Note: Part-time and evening students should refer to the Department of Engineering and Technology Web site, www.ccri.edu/engt, for the recommended course sequence and scheduling.

Some courses may be taken at CCRI. Others are only offered at URI First, select the Engineering Program option at URI to which you plan to transfer. Dots (•) indicate recommended courses for your chosen degree option. If you are unsure about course selection, contact the CCRI Department of Engineering and Technology.

CCRI COURSE	URI COURSE**	COURSE TITLE	CREDITS	URI Engineering Program Option										
				BIOMEDICAL	CHEMICAL	CHEM-BIOLOGY	CHEM-OCEAN	CIVIL	COMPUTER	ELECTRICAL	INDUSTRIAL	MECHANICAL	OCEAN	
FALL-2														
<input type="checkbox"/> MATH 2910	<input type="checkbox"/> MTH 243	P Calculus III	4	•	•	•	•	•	•	•	•	•	•	•
	<input type="checkbox"/> BME 207**	P Introduction to Biomedical Engineering	3	•										
	<input type="checkbox"/> BME 281**	P Biomedical Engineering Seminar II	1	•										
	<input type="checkbox"/> CHE 212**	P Chemical Process Calculations	3		•	•	•							
<input type="checkbox"/> CHEM 2270	<input type="checkbox"/> CHM 227	P Organic Chemistry	3		•	•	•							
<input type="checkbox"/> COMI 1510	<input type="checkbox"/> CSC 211	P Java programming	3						•					
	<input type="checkbox"/> CVE205	P Introduction to Civil Engineering Tools	1					•						
	<input type="checkbox"/> CVE 230**	P Mechanics of Material Lab	1					•						
<input type="checkbox"/> ENGR 1030	<input type="checkbox"/> MCE 201	P Engineering Graphics	3									•	•	
<input type="checkbox"/> ENGR 2050	<input type="checkbox"/> MCE 262	P Engineering Mechanics - Statics	3					•				•	•	•
<input type="checkbox"/> ENGR 2320	<input type="checkbox"/> ELE 201/202	Digital Electronics	4	•					•	•				
<input type="checkbox"/> GEOL 1010	<input type="checkbox"/> GEO 103	P General Geology	4					•						
	<input type="checkbox"/> ISE 240**	P Manufacturing Processes and Systems	3									•	•	
	<input type="checkbox"/> ISE 241**	P Manufacturing Processes and Systems Lab	1									•	•	
	<input type="checkbox"/> OCE 205**	P Ocean Engineering Design Tools	3											•
	<input type="checkbox"/> OCE 215**	P Ocean Engineering Design I	1											•
<input type="checkbox"/> PHYS 2110	<input type="checkbox"/> PHY 205	P Topics in Acoustics, Optics and Thermodynamics	3									•	•	•
<input type="checkbox"/> PHYS 2111	<input type="checkbox"/> PHY 275	P Introduction to Acoustics and Optics Lab	1									•	•	•
<input type="checkbox"/> General Education Elective			3	•	•	•	•	•	•	•				
<input type="checkbox"/> General Education Elective			3	•	•	•	•	•	•	•				•
Fall-2 Total				18	16	16	16	19	17	18	18	18	18	18

* Placement test required ** URI Course. Must be taken at URI (•) Dot indicates recommended course

(continued on page 80)

C Corequisites: Take during the same semester. **P** This course has a prerequisite. See Course Descriptions section for class hours, prerequisites and corequisites.

ENGINEERING TRANSFER (ENGN) (continued)

Some courses may be taken at CCRI. Others are only offered at URI First, select the Engineering Program option at URI to which you plan to transfer. Dots (•) indicate recommended courses for your chosen degree option. If you are unsure about course selection, contact the CCRI Department of Engineering and Technology.

URI Engineering Program Option

CCRI COURSE	URI COURSE**	COURSE TITLE	CREDITS	URI Engineering Program Option										
				BIOMEDICAL	CHEMICAL	CHEM-BIOLOGY	CHEM-OCEAN	CIVIL	COMPUTER	ELECTRICAL	INDUSTRIAL	MECHANICAL	OCEAN	
SPRING 2														
<input type="checkbox"/> MATH-2990	<input type="checkbox"/> MTH 362	P Advanced Engineering Mathematics	4	•	•	•	•	•	•	•	•	•	•	•
<input type="checkbox"/> BIOL 1020	<input type="checkbox"/> BIO 242	P Human Physiology	3	•										
<input type="checkbox"/> BIOL 1010	<input type="checkbox"/> BIO 121	P Human Anatomy	4	•										
<input type="checkbox"/> BIOL 2480		P General Microbiology	4			•								
	<input type="checkbox"/> CHE 272**	P Intro to Chemical Engineering Calculations	3		•	•	•							
	<input type="checkbox"/> CHE 313**	P Chemical Engineering Thermodynamics I	3		•	•	•							
	<input type="checkbox"/> CHE 332**	P Physical Metallurgy	3		•	•	•							
<input type="checkbox"/> CHEM 2280	<input type="checkbox"/> CHM 228	P Organic Chemistry I I	3		•		•							
	<input type="checkbox"/> CSC 212**	P Data Structures and Abstractions	4						•					
<input type="checkbox"/> ENGR 2060	<input type="checkbox"/> MCE 263	P Engineering Mechanics - Dynamics	3					•			•	•	•	•
<input type="checkbox"/> ENGR 2520	<input type="checkbox"/> ELE 205/206	P Microprocessors and Microcomputers	4									•		
<input type="checkbox"/> ENGR 2540	<input type="checkbox"/> CVE 220	P Mechanics of Material for Engineers	3					•			•	•	•	•
<input type="checkbox"/> ENGR 2620	<input type="checkbox"/> ELE 212	P Linear Electrical Systems/Circuit Theory for Engineers	3	•						•	•	•	•	•
<input type="checkbox"/> ENGR 2621	<input type="checkbox"/> ELE 215	P Linear Electrical Systems/Circuit Theory Lab	2	•						•	•			
	<input type="checkbox"/> ISE 220**	P Industrial and Systems Engineering Seminar	1									•	•	
	<input type="checkbox"/> OCE 206**	P Ocean Instruments	3											•
	<input type="checkbox"/> OCE 216**	P Ocean Engineering Design I I	1											•
<input type="checkbox"/> General Education Elective			3					•	•	•	•	•	•	•
<input type="checkbox"/> General Education Elective			3					•		•				
Spring-2 Total				16	16	17	16	16	16	19	17	17	17	17
Total Program Credits				69	67	64	67	70	68	75	70	70	71	

* Placement test required ** URI Course. Must be taken at URI (•) Dot indicates recommended course

P This course has a prerequisite. See Course Descriptions section for class hours, prerequisites and corequisites.

Programs of Study