



## **Streamlined 5-year B.S./M.S. Track in Civil and Environmental Engineering**

The goal of FastTRAC5 is to enable students to attain the body of knowledge required for entry into civil engineering practice at the professional level. The traditional 4-year B.S. degree will no longer be sufficient to practice civil engineering at the professional level. By 2015, the National Council of Examiners for Engineering and Surveying (NCEES) will change its model law to *require* a B.S. and M.S./30 credits for licensure

### **ELIGIBILITY:**

Students must have junior standing in Civil and Environmental Engineering (minimum of 62 credits) and have an overall cumulative grade point average of 3.00 for admission into the program. Students must maintain a cumulative grade point average of 3.00 during their participation in the program. Otherwise, a student must separately apply to the graduate program at the end of their undergraduate program and undergo a formal review process.

### **TERMS OF THE PROGRAM:**

The FastTRAC5 program provides students with opportunities to

- Gain professional training by working at a RI engineering consulting firm or governmental agency
- Gain research experience by working with a faculty mentor
- Prepare for the FE Exam

Students are expected to be full-time students during their enrollment in the program including the summers following their junior and senior year. Students are also required to pass the FE exam. The FE exam is offered twice annually by the RI Board of Professional Engineers.

### **APPLICATION PROCESS:**

Application packets should include

- a completed application including a one-page personal statement
- unofficial transcript showing junior-level status (minimum of 62 credits)
- two letters of recommendation (at least one from a URI CVE faculty)

The applications will be reviewed by a committee of faculty members of the Civil and Environmental Engineering department.



## Accelerated 5-year B.S./M.S. Track Curriculum

First Year, Fall (16 cr)			First Year, Spring (16 cr)			First Year, Sum	
CHM 101	General Chemistry	3	ECN 201	Prin of Economics	3		
CHM 102	Chemistry Lab	1	EGR 106	Foundations of Eng II	2		
EGR 105	Foundations of Engineering	1	MTH 142	Calculus II	4		
MTH 141	Calculus I	4	PHY 204	Physics II	3		
PHY 203	Physics I	3	PHY 274	Physics II Lab	1		
PHY 273	Physics I Lab	1		General Education	3		
	General Education (Com 100/Wrt 104)	3					
Second Year, Fall (17 credits)			Second Year, Spring (16 cr)			Second Year, Sum	
CVE 205	Introduction to Civil Engineering Tools	1	CVE 220	Mech. of Materials	3		
MCE 262	Statics	3	CVE 230	Mech. of Mat. Lab	1		
MTH 243	Calculus III	3	MCE 263	Dynamics	3		
GEO 103	Geological Earth Science	4	MTH 244	Calculus IV	3		
	General Education	3		General Education	3		
	General Education	3		General Education	3		
Third Year, Fall (17 cr)			Third Year, Spring (17 cr)			Third Year, Sum (6 cr)	
CVE 346	Transportation Eng.	3	CVE 347	Highway Eng.	3	CVE 493 Civil Eng. Design Studies                      6  Professional Experience	
CVE 354	Structural Eng.	3	CVE 348	Highway Eng. Lab	1		
CVE 355	Structural En. Lab	1	CVE 370	Hydraulic Eng.	3		
CVE 374	Environmental Eng.	3	CVE 375	Environmental Lab	1		
CVE 381	Geotechnical Eng.	3	STA 409	Statistics	3		
CVE 382	Geo. Eng. Lab	1		General Education	3		
MCE 354	Fluid Mechanics	3		Engineering Elective	3		
Fourth Year, Fall (17 cr)			Fourth Year, Spring (15 cr)			Fourth Year, Sum (6 cr)	
CVE 465	Reinforced Concrete	3	CVE 498	Senior Design II	3	CVE 591 Special Problems and/or Graduate Courses                      6  Research Experience	
CVE 497	Senior Design I	2	CVE 483	Foundation Engineering	3		
	Professional Elective	3		Professional Elective	3		
	Professional Elective	3		Professional Elective	3		
	General Education	3		Take FE Exam			
GRAD	Graduate Course	3	GRAD	Graduate Course	3		
Fifth Year, Fall (10 cr)			Fifth Year, Spring (10 cr)			Fifth Year, Sum	
CVE 601	Graduate Seminar	1	CVE 602	Graduate Seminar	1		
GRAD	Graduate Course	3	GRAD	Graduate Course	3		
GRAD	Graduate Course	3	GRAD	Graduate Course	3		
	Non-Thesis: Graduate Course	3		Non-Thesis: Graduate Course	3		
GRAD	Thesis: CVE 599 M.S. Research		GRAD	Thesis: CVE 599 M.S. Research			
				Pass FE Exam			