



Russ College of Engineering and Technology

The scheduling scenario below is intended to present an example pattern by which this major can be completed in three years. Those interested in pursuing this option need to work with an academic advisor to develop a specific plan to earn the credit hours required for graduation.

BS7252: Civil Engineering

Post-Secondary Coursework or Transfer/AP/IB Credit

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
CHEM 1510 - Fundamentals of Chemistry I	4		
MATH 2301 - Calculus I	4		C
MATH 2302 - Calculus II	4		C
PHYS 2051 - General Physics	5		
Tier II: Cross Cultural Perspectives	2-3		
Tier II: Humanities and Literature	2-3		
Tier II: Social Science	2-3		
Tier II: Fine Arts	2-3		
ENG 1510 – Freshman Composition	3		
Total hours	28-32		

Semester 1: Fall

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
CE 2000 - Civil Engineering Fundamentals	1		
ETM 2220 - Civil Engineering Graphics	2		
ET 2200 – Statics	3		C
MATH 3300 - Calculus III	3		
PHYS 2052 - General Physics	5		
Total hours for semester	14		

Semester 2: Spring

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
CE 2160 - Construction Engineering and Management	3		
CE 2010 - Civil Engineering Computational Techniques	3		
ET 1500 - Engineering and Technology: Career Orientation	0.5		
ET 2220 - Strength of Materials	3		C
ET 2240 - Dynamics	3		C
GEOL 2830 - Geology for Engineers	4		
Total hours for semester	16.5		

Semester 4: Fall

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
CE 2100 - Elements of Land Surveying	3		
CE 3300 - Structural Theory I	3	Yes	
CE 3400 - Fluid Mechanics	3	Yes	
CE 3700 - Geotechnical Engineering	4	Yes	
CE 3710 - Soil Engineering Laboratory	1	Yes	
MATH 3400 - Elementary Differential Equations	3	Yes	
Total hours for semester	17		

Semester 5: Spring

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
CE 3110 - Route Engineering	3	Yes	
CE 3410 - Hydraulics Laboratory	1	Yes	
CE 3420 - Applied Hydraulics & Hydrology	3	Yes	
CE 3800 - Civil Engineering Materials	4	Yes	
CE 4000 - Societal Concerns in Civil Engineering	3	Yes	
Technical Elective	3	Yes	
Total hours for semester	17		

Semester 7: Fall

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
CE 3610 - Transportation Engineering	3	Yes	
CE 4280 - Experimental Methods in Civil Engineering	3	Yes	
CE 4320 - Structural Design in Concrete	3	Yes	
CE 4500 - Water & Wastewater Engineering	3	Yes	
CE Elective	3	Yes	
Total hours for semester	15		

Semester 8: Spring

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
CE 4330 - Structural Design in Steel	3	Yes	
ET 3132 - Basic Electrical Engineering I	2	Yes	
Senior Design Elective	3	Yes	
CE Elective	3	Yes	
CE Elective	3	Yes	
Total hours for semester	14		