Why The Citadel is Right for You

Students are our Focus
We believe that education, development, empowerment, and welfare of our students are the primary focus of our efforts.

Construction Engineers as Principled Leaders
We believe the engineering profession requires the highest professional and ethical standards, which we seek to model, teach and prepare our graduates to embrace.

Collaborative Teaching and Learning Environment
We believe a collaborative collegial environment among our faculty, staff and students is critical in sustaining advancement in educational excellence.

Growth through Assessment
We believe in data-driven feedback and improvement will lead us to sustained advancement in cutting edge curriculum.

The South Carolina Corps of Cadets

BACHELOR OF SCIENCE IN CONSTRUCTION ENGINEERING

Program Objectives
Success in the practice of construction engineering, by ethically and judiciously applying knowledge of science, mathematics, and engineering methods to solve problems facing a technologically complex construction process.

Positions to apply and operate current engineering and analysis tools and equipment to conduct and/or lead construction operations.

Self-Development to value and pursue lifelong learning, not only to keep current in the construction engineering field, but also to sustain awareness of engineering-related issues facing contemporary society through formal and informal opportunities.

Graduate education and/or professional registration as desired or required.

Roles as principled leaders with strong communications and team-building skills to lead people, manage resources, solve complex problems, communicate information, and influence decisions.

Your Undergraduate Experience
The ever changing engineering workforce has led to a job market with companies looking to hire people who possess a technical and professional skillset. The Construction Engineering program will prepare you for career advancement in industry or the military.

• A faculty adviser assigned to you will create a student experience around your career goals, which allows you to obtain the exact knowledge and skills needed to move your career forward in an innovative world.
• Within the School of Engineering, faculty are primarily focused on teaching in their discipline.
• The School of Engineering has been ranked in the Top 25 U.S. News & World Report (2014, 2015, 2016, 2017, 2018) for best undergraduate engineering programs at schools offering up to a masters degree.
• Our graduates thrive in the competitive job market, graduate programs, or the military.

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For more information on Construction Engineering: www.citadel.edu/construction-engineering

Contact Program Director:
Dr. Jeff Davis
jeff.davis@citadel.edu
(843)953-7687

To apply to The Citadel contact The Citadel Admissions at:
Phone: (843)953-5230
Email: admissions@citadel.edu

Or apply online at: www.citadel.edu/admissions
Student Outcomes
Graduates of the Bachelor of Science degree program in Construction Engineering will, by the time of graduation demonstrate:

- Apply knowledge of mathematics, science, and engineering
- Design and conduct experiments, as well as to analyze and interpret data
- Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- Function on multidisciplinary teams
- Identify, formulate, and solve engineering problems
- Comprehend professional and ethical responsibility
- Communicate effectively
- Comprehend the impact of engineering solutions in a global, economic, environmental, and societal context through a broad education
- Recognize the need for and engage in lifelong learning
- Apply knowledge of contemporary issues within solutions
- Use the techniques, skills, and modern engineering tools necessary for engineering practice.

BACHELOR OF SCIENCE IN CONSTRUCTION ENGINEERING CURRICULUM

Freshmen Year

Fall Semester
- BIOL 150 Biology for Engineers—3
- BIOL 151 Biology for Engineers Lab—1
- CIVL 103 Introduction to Civil Engineering—1
- ENGL 101 Composition and Literature I—I—3
- HIST Western or World Civilization—I—3
- LDRS 101 First Year Seminar—I
- MATH 119 Precalculus—I—4
- RPED 250 Required Physical Education—I—2

Spring Semester
- CIVL 101 Engineering Drawing—I—2
- ENGL 102 Composition and Literature II—I—3
- HIST Western or World Civilization—I—3
- LDRS 111 First Year Seminar—I—0
- MATH 131 Analytic Geometry and Calculus I—I—4
- PHYS 221 Physics with Calculus I—I—3
- PHYS 271 Physics with Calculus I Lab—I—1
- RPED 251 Required Physical Education—I—2

Sophomore Year

Fall Semester
- BADM 202 Principles of Microeconomics—I—3
- CHEM 151 General Chemistry—I—3
- CHEM 161 General Chemistry I Lab—I—1
- CIVL 205 Surveying
- CIVL 210 Computer Appl for Civil/Env
- CIVL 235 Surveying I Lab
- LDRS 201/11 Sophomore Seminar/Lab—I—1
- MATH 132 Analytic Geometry and Calculus II—I—4

Spring Semester
- BADM 205 Business Statistics—I—I—3
- CHEM 152 General Chemistry II—I—3
- CHEM 162 General Chemistry II Lab—I—1
- CIVL 202 Statics—I—3
- CIVL 208 Geospatial Representation—I—3
- CIVL 239 Geomatics Laboratory—I—1
- ENGL 260 Technical Writing
- RPED Required Physical Education—I—0

Junior Year

Fall Semester
- CIVL 304 Mechanics of Materials—I—3
- CONE 302 Engr/Com. Law/Ethics/Safety Contracts—I—4
- CONE 311 Resource Estimating—I—3
- CONE 320 Engr Materials & Methods w/Lab—I—3
- CONE 330 Quality Management/Labor Relations—I—3
- LDRS 311 Junior Ethics Enhancement Seminar—I

Spring Semester
- BADM 211 Intro to Financial Acct & Reporting—I—3
- CIVL 314 Engineering Economy
- CONE 312 Advanced Estimating
- CONE 340 Structural Analysis and Design—I—4
- CONE 350 Commercial Const/Engr Equip—I—3
- CONE 360 Soils and Foundations w/Lab—I—3
- RPED Required Physical Education—I—0

Senior Year

Fall Semester
- CONE 410 Project Scheduling—I
- CONE 415 Project Management & Engr Admin—I—3
- CONE 440 Constr Methods & Temp Str Design—I—3
- CONE 450 Mechanical/Electrical Systems—I—3
- CONE 481 Senior Design I—I—2
- LDRS 411 Senior Leadership Integration Seminar—I

Spring Semester
- (XXX) Social Science Core Course—I—3
- CONE 450 Facilities Op and Maint (BIM)—I—3
- CONE 470 Prod Processes/Rapid Dev w/Lab—I—3
- CONE 482 Senior Design II—I—3
- ENGL XXX British/American/World Literature—I—3

*Basic ROTC during each semester of freshmen and sophomore years. Advanced ROTC or Leadership required each semester junior and senior year.
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