## Construction Engineering B.S.Con.E.

### Degree Requirements: 130 Credit Hours

See Core Curriculum for required courses in Area A1 through Area E.

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<th>Credit Hours</th>
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- CENG 1133 Engineering Graphics for Civil and Construction Engineers
- or ENGR 1133 Engineering Graphics
- CENG 1731 Civil Engineering Computations
- CHEM 1310 Comprehensive General Chemistry
- MATH 2242 Calculus II
- STAT 1401 Elementary Statistics

Carryover from Area A2

### Specific Requirements

Carryover from Area D

- ENGR 2231 Engineering Mechanics I
- ENGR 3233 Mechanics of Materials

Total Specific Requirements: 7

### Major Requirements

Carryover from Area D

- CENG 2131 Civil Engineering Fluid Mechanics
- CENG 2231 Surveying
- or TCM 2233 Construction Surveying
- CENG 3131 Introduction to Environmental Engineering
- CENG 3135 Construction Cost Control and Finance
- or TCM 3331 Construction Finance
- CENG 3232 Soil Mechanics
- CENG 3233 Civil Engineering Materials
- CENG 3331 Structural Analysis
- CENG 3333 Reinforced Concrete Design
- CENG 4135 Highway Design
- CENG 4331 Structural Steel Design
- CENG 4518 Introduction to Senior Project
- CENG 4539 Senior Project
- TCM 2430 Construction Safety
- TCM 3330 Quantity Estimating
- TCM 3332 Construction Equipment Management
- TCM 4710 Construction Internship
- TCM 5431 Construction Cost Estimating
- TCM 5433 Proj Planning/Scheduling

Total Major Requirements: 50

### Construction Electives

Select 6 credit hours from the below listing of Construction Electives:

- CENG 4133 Transportation Systems
- CENG 4730 Experiential Learning in Civil and Construction Engineering - COOP
- CENG 4890 Special Problems in Civil Engineering
- CENG 5090 Selected Topics in Civil Engineering
- CENG 5133 Water Supply and Wastewater Collection Systems
- CENG 5136 Watershed Management
- CENG 5137 Engineering Hydrology and Hydraulics
- CENG 5138 Water and Sanitation for International Development
- CENG 5139 Advanced Water and Wastewater Treatment
- CENG 5231 Pavement Analysis and Design
- CENG 5232 Foundation Design
- CENG 5234 Asphalt Mix Design
- CENG 5331 Advanced Structural Analysis
- CENG 5332 Prestressed Concrete Design
- CENG 5333 Advanced Reinforced Concrete Design
- CENG 5334 Advanced Structural Steel Design
- CENG 5335 Structural Dynamics
- CENG 5336 Introduction to Finite Elements
- CENG 5337 Advanced Strength
- CENG 5338 Theory of Elasticity
- CENG 5339 Theory of Elastic Stability
- CENG 5431 Advanced Surveying
- CENG 5432 Introduction to GIS in Surveying-Geomatics and Transportation
- CENG 5433 Drainage & Erosion Control
- CENG 5434 Surveying History & Law
- CENG 5435 Introduction to Terrestrial LiDAR
- CENG 5436 Introduction to Close-Range Photogrammetry
- LSTD 3230 Building Construction Law
- TCM 3333 Building Codes
- TCM 4090 Selected Topics in Construction
- TCM 4432 Construction Administration
- TCM 5330 Green Building and Sustainable Construction
- TCM 5333 Building Information Modeling
- TCM 5431 Construction Cost Estimating
- TCM 5433 Proj Planning/Scheduling
- or other appropriate topics as otherwise approved by the Department Chair

Select 3 credit hours of Free Electives

Total Credit Hours: 130

1. While Calculus I (MATH 1441) is a 4 credit hour course, only 3 credit hours will count toward fulfilling Area A2. The remaining credit hour will be applied toward Specific Requirements.

### Other Program Requirements

- A minimum grade of "C" is required for all CENG courses.
- A minimum grade of "C" is required for all TCM courses.
- At least 33 credit hours of approved upper division Engineering credit hours must be earned at Georgia Southern.
- At least 100 hours of Departmental pre-approved community service must be completed prior to graduation clearance.
- Students must take the Fundamentals of Engineering (FE) Exam prior to Graduation.
Honors in Civil Engineering
To graduate with Honors in Civil Engineering a student must:

• Be admitted to the University Honors Program

• Complete a Honors thesis (in a minimum of two regular semesters) for a total of 3-credit hours in Honors Research (UHON 4999) (http://catalog.georgiasouthern.edu/search/?P=UHON%204999)

• Maintain a 3.3 institution grade point average, including a 3.5 minimum GPA in all major courses applied towards graduation.

Advisement
Statesboro: CoEC Student Services Center, IT Building 1208, PO Box 7996, 912-478-4877