The School of Civil & Environmental (CEE) Engineering
Georgia Institute of Technology
Presentation Outline

- Overview of School
- About Advising
- Degree Opportunities
- Extracurricular Opportunities
- Choosing Electives
- Some Tips & Some Rules
overview of

SCHOOL
Overview

Student Population
904 Undergraduate Students (Fall 2009)
345 Graduate Students (Fall 2009)
60 Faculty Members

U.S. News and World Report 2010 Rankings
Undergraduate Program in CE  3rd
Undergraduate Program in EnvE  5th
Graduate Program in CE  3rd
Graduate Program in EnvE  5th
Dr. Joseph B. Hughes  
Chair

Dr. Reginald DesRoches  
Associate Chair

Dr. Paul A. Work  
Associate Chair  
GTSavannah

Dr. Donald Webster  
Associate Chair  
Undergraduate Programs

Dr. Kenneth M. Will  
Associate Chair  
Graduate Studies

+ Principle CEE Buildings

Mason Building

Sustainable Education Building

Daniel Laboratory

Georgia Tech Savannah Building

Ford Environmental Science & Technology Building

Structures Laboratory

SCHOOL OF CIVIL & ENVIRONMENTAL ENGINEERING | COLLEGE OF ENGINEERING
+ Dual Advisement System

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Student Services Office</th>
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</thead>
<tbody>
<tr>
<td>Technical electives</td>
<td>General program advice</td>
</tr>
<tr>
<td>Professional mentorship</td>
<td>Registration</td>
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<td>Research</td>
<td>Overloads, permits</td>
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<tr>
<td>Graduate school</td>
<td>Petitions to the faculty</td>
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<tr>
<td>Employment advice</td>
<td>Retention, readmission</td>
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<td>Graduation</td>
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*In 2005 and 2007, the CEE Student Services Office was rated as one of the top advising units on campus and was the best office in the College of Engineering.*

*Rob Hudgins won the award for Best Advisor in the Institute in 2009!*
**Advising**

**Undergraduate Student Services Office:**  
111 Mason Building

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**Dr. Donald Webster**  
Associate Chair  
- Coordinates Policy  
- Authorizes petitions, degrees, re-admits

222 Mason  
dwebster@ce.gatech.edu

**Rob Hudgins**  
Academic Advisor  
- Principal staff advisor  
- Registration advisement  
- Monitor progress towards graduation

111 Mason, 404-894-0233  
rob.hudgins@ce.gatech.edu
Mary George
Academic Advisor
• Advisement support
• Registration assistance/Permits
• FE Fundamentals Exam
111 Mason, 404-894-2293
mary.george@ce.gatech.edu

Carol Eason
Academic Assistant
• Schedules appointments
• Front desk
• General forms
111 Mason, 404-894-2246
carol.eason@ce.gatech.edu
opportunities in DEGREES
Degree Options in CEE

Civil Engineering (BSCE) + Environmental Engineering (BSEnvE)

+ Bachelor of Science

+ Bachelor of Science Co-operative Designation
  - Work experience integrated with education
  - [http://www.profpractice.gatech.edu](http://www.profpractice.gatech.edu)

Bachelor of Science International Plan
- [http://www.internationalplan.gatech.edu](http://www.internationalplan.gatech.edu)

+ Bachelor of Science Research Plan
  - [http://undergradresearch.gatech.edu](http://undergradresearch.gatech.edu)

+ BS/MS Program
  - 5 year program combining bachelors and masters
  - Minimum GPA of 3.5
# Bachelor of Science in Civil Engineering

## 2010-11 Requirements

### FIRST YEAR - FALL

<table>
<thead>
<tr>
<th>Course</th>
<th>CRN</th>
<th>Hrs</th>
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<tbody>
<tr>
<td>MATH 1501 CALCULUS I</td>
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<tr>
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<td>ENGL 1101 ENGLISH COMPOSITION I</td>
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<tr>
<td>CS 1371 COMPUTING FOR ENGINEERS</td>
<td></td>
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<tr>
<td>HIST 2111 or 2112 or POL 1101 or PUBP 3000 or INTA 1200</td>
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### FIRST YEAR - SPRING

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<tr>
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<tr>
<td>PHYS 2211 INTRODUCTORY PHYSICS I</td>
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<td>ENGL 1102 ENGLISH COMPOSITION II</td>
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<tr>
<td>CEE 1770 ENGINEERING GRAPHICS &amp; VISUALIZATION</td>
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<td>HUMANITIES ELECTIVE</td>
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<td>PHYS 2212 INTRODUCTORY PHYSICS II</td>
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<td>CEE 2300 ENVIRONMENTAL ENGINEERING PRINCIPLES</td>
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<td>ECON 2100 or 2105 or 2108</td>
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<td>COE 2001 STATICS</td>
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<tr>
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<tr>
<td>BIOL 1510 or BIOL1520 or EAS2600</td>
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<tr>
<td>CEE 2040 DYNAMICS</td>
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<td>CEE 3000 CIVIL ENGINEERING SYSTEMS</td>
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<td>PST 3105 or 3109 or 3127 (Ethics Elective)</td>
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<td>COE 3001 MECHANICS OF DEFORMABLE BODIES</td>
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<td>MSE 3000 or ME 3322 or CHBE 2110 (COE Elective-Group A)</td>
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<td>CEE 3055 or 4100 or 4200 or 4300 or 4405 or 4600 (Breadth Electives)</td>
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<td>CE/MATH/ISYE 3770 STATISTICS &amp; APPLICATIONS</td>
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### FOURTH YEAR - FALL

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**Total Program Hours = 126 Semester Hours plus Wellness (2 Hours)**

* at least one of the four courses must include a physical laboratory section, i.e. CEE 4200 and CEE 4405.

Available at:
http://www.catalog.gatech.edu/colleges/coe/ce/ugrad/bsce/bsce.php
# Bachelor of Science in Environmental Engineering 2010-11 Requirements

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<td>MATH 1501 CALCULUS I</td>
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<tr>
<td>CEE 4200 HYDRAULIC ENGINEERING</td>
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<td>CEE 3340 ENVIRONMENTAL ENGINEERING LAB</td>
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**TOTAL PROGRAM HOURS = 126 SEMESTER HOURS PLUS WELLNESS (2 HOURS)**

*at least one of the four courses must include a physical laboratory section, i.e. CEE 4200 and CEE 4405.*

Available at: http://www.catalog.gatech.edu/colleges/coe/ce/ugrad/bsce/bsce.php
opportunities in
EXTRACURRICULARS
Co-Operative Experience
Work terms alternating with school in sophomore/junior year resulting in co-op designation on degree.

Internships
Provides practical work experience in a professional setting related to the student’s field of study.

Co-Op Director: Wayne Thompson
Intern Director: Mary Fisher
+Co-Ops & Internships

More Information:
http://www.profpractice.gatech.edu/
Study Abroad

Study CE at:
- GT Lorraine
- Oxford
- Shanghai
- Pacific Rim

More Information:
http://www.oie.gatech.edu/
Joe S. Mundy Global Learning Experience Endowment Fund

- Funding designated for CEE students to participate in an International Learning Experience during their enrollment.
- Provides opportunity to gain insight into other cultures, giving a competitive advantage in today’s global marketplace and increasing the value of the CEE degree.

Application process includes:
- Statement of learning goals, Budget, Expected outcomes of travel, Travel Plan

More Information: [http://www.ce.gatech.edu/academics/mundy](http://www.ce.gatech.edu/academics/mundy)

Priority given to undergraduate students... Use it!
Examples of funded projects:

. Lynne Schleffarth traveled to Shanghai and Beijing, China to study how port systems respond to earthquakes.

. Brandon Denny traveled through Europe and Scandinavia to study transportation technologies interconnecting the region in an effort to solve transportation problems.
Undergraduate Research

Types:
CEE 2698/4698 Undergraduate research for pay
CEE 2699/4699 Undergraduate research for credit
CEE 4900 CEE Honors Research by invitation of the faculty
PURA: President’s Undergraduate Research Award
+ Student Organizations

American Society of Civil Engineers

Chi Epsilon: The National CE Honor Society

Association of Environmental Engineers and Scientists

Engineering Students Without Borders

Earthquake Engineering Research Institute

Institute of Transportation Engineers
choosing ELECTIVES
How to select CEE Electives

**Required CEE Elective Courses**
- CEE 1770 Engng Graphics & Visual
- COE 2001 Statics
- CEE 2040 Dynamics
- CEE 2300 Environ Engng Principles
- CEE 3000 Civil Engng Systems
- COE 3001 Deformable Bodies
- CEE 3020 Civil Engng Materials
- CEE 3040 Fluid Mechanics
- CEE/XXX 3770 Stats & Appl
- CEE 4090 Capstone Design

**Advisement Tracks**
- Environmental Systems
- Geotechnical Systems
- Infrastructure Systems
- Structural Systems
+ How to select CEE Electives

Environmental Systems Track

CEE Breadth Courses
CEE 4200 Hydraulic Engng
CEE 4300 Environ Engng Systems
CEE 4405 Geotechnical Engng
CEE 4210 Hydrology
CEE 4225 Coastal Engng
CEE 4310 Water Quality
CEE 4320 Hazardous Subst Engng
CEE 4330 Air Pollution Engng

Choose 1 from:
CEE 3055 Structural Analysis
CEE 4100 Const Management
CEE 4600 Transport Engng

CEE Technical Electives
CEE 4210 Hydrology
CEE 4225 Coastal Engng
CEE 4310 Water Quality
CEE 4320 Hazardous Subst Engng
CEE 4330 Air Pollution Engng
CEE 4395 Environ Syst Design
CEE 4430 Environ Geotechnics
CEE 4620 Environ Imp Assess
CEE Graduate Courses
CEE 4699 Undergrad Research
How to select CEE Electives
Geotechnical Systems Track

CEE Breadth Courses
CEE 3055 Structural Analysis
CEE 4405 Geotechnical Engineering

Choose 2 from:
CEE 4100 Construction Management
CEE 4200 Hydraulic Engineering
CEE 4300 Environmental Engineering System
CEE 4600 Transport Engineering

CEE Technical Electives
CEE 4210 Hydrology
CEE 4320 Hazardous Substances Engineering
CEE 4410 Geosystems Design
CEE 4420 Subsurface Characterization
CEE 4430 Environmental Geotechnics
CEE 4520 Reinforced Concrete
CEE Graduate Courses
CEE 4699 Undergraduate Research
+ How to select CEE Electives
Infrastructure Systems Track

**CEE Breadth Courses**
- CEE 4100 Const Management
- CEE 4600 Transport Engng

**Choose 2 from:**
- CEE 3055 Structural Analysis
- CEE 4200 Hydraulic Engng
- CEE 4300 Environ Engng Syst
- CEE 4405 Geotechnical Engng

**CEE Technical Electives**
- CEE 3010 Geomatics
- CEE 4110 Const Plan, Est & Sched
- CEE 4120 Const Operations
- CEE 4610 Multimodal Transport
- CEE 4620 Environ Imp Assess
- CEE 4630 Site Engng
- CEE 4640 Freew & Interch Des
- CEE Graduate Courses
- CEE 4699 Undergrad Research
How to select CEE Electives

Structural Systems Track

CEE Breadth Courses
CEE 3055 Structural Analysis
CEE 4100 Const Management
CEE 4405 Geotechnical Engng

Choose 1 from:
CEE 4200 Hydraulic Engng
CEE 4300 Environ Engng Syst
CEE 4600 Transport Engng

CEE Technical Electives
CEE 4510 Structural Steel Design
CEE 4520 Reinforced Concrete Des
CEE 4530 Timber & Masonry Des
CEE 4540 Infrastructure Rehab
CEE 4550 Structural Analysis II
CEE Graduate Courses
CEE 4699 Undergrad Research
How to select CEE Electives
Environmental Engineering Track

**Required Courses**
- COE 2001 Statics
- CEE 2040 Dynamics
- CEE 2300 Environ Engng Principles
- CEE 3000 Civil Engineering Systems
- COE 3001 Deformable Bodies
- CEE 3020 Civil Engng Materials
- CEE 3040 Fluid Mechanics
- CEE 3340 Environ Engng Lab
- CEE/XXX 3770 Stats & Appls
- CEE 4300 Environ Engng Systems
- CEE 4200 Hydraulic Engineering
- CEE 4090 Capstone Design

**CEE Technical Electives**
*Choose 1 from:*
- CEE 4210 Hydrology
- CEE 4405 Geotechnical Engineering
- CEE 4620 Environ Impact Assessment
- CEE 4795 Ground Water Hydrology

**CEE Design Electives**
*Choose 1 from:*
- CEE 4310 Water Quality Engineering
- CEE 4320 Hazardous Substance Engng
- CEE 4330 Air Pollution Engineering
- CEE 4395 Environ Systems Design Project
How to select CEE Electives
Environmental Engineering Track

Focus Area Electives
Choose 4 from:
BIOL 2335 General Ecology
BIOL 3380 Introductory Microbiology
BIOL 4010 Aquatic Ecology
BIOL 4430 Environmental Sustainability
BMED 3400 Introduction to Biomechanics
BMED 4757 Biofluid Mechanics
BMED 4758 Biosolid Mechanics
CEE 3010 Geomatics
CEE 4100 Construction Engng and Mgmt
CEE 4210 Hydrology
CEE 4230 Environmental Transport Modeling
CEE 4310 Water Quality Engineering
CEE 4320 Hazardous Substance Engineering
CEE 4330 Air Pollution Engineering
CEE 4405 Geotechnical Engineering
CEE 4420 Subsurface Characterization
CEE 4430 Environmental Geotechnics
CEE 4600 Transportation Plan, Oper & Design
CEE 4620 Environmental Impact Assessment
CEE 4795 Ground Water Hydrology
CHBE 3200 Transport Processes I
CHEM 3281 Instrumental Analysis for Engineers
CHEM 3511 Survey of Biochemistry
CHEM 4740 Atmospheric Chemistry
CP 4210 Environ Planning & Impact Assessment
CP 4510 Fundamentals of GIS
EAS 4420 Environmental Field Methods
EAS 4430 Remote Sensing and Data Analysis
EAS 4610 Earth Systems Modeling
EAS 4740 Atmospheric Chemistry
ECE 3710 Circuits and Electronics
ECE 3741 Instrumentation and Electronics Lab
ME 4171 Environ Conscious Design and Manufac
ME 4172 Designing Sustainable Engng Systems
ME 4782 Biosystems Analysis
some tips
& SOME RULES
+General Program Rules

. All courses taken on letter-grade basis (except CS 1171 – transfer students with CS credit)
. “C” or better in MATH 1501, 1502, CHEM 1310, PHYS 2211, and COE 2001
. Minimum degree cumulative GPA: 2.0
. Minimum CEE GPA for graduation: 2.0
. Any course deviations must be approved by CEE/Institute
. Grade Substitution (freshmen only)
Honor Code

Georgia Tech Honor Challenge
I commit to uphold the ideals of honor and integrity by refusing to betray the trust bestowed upon me as a member of the Georgia Tech community.

Honor Agreement
Having read the Georgia Institute of Technology Academic Honor Code, I understand and accept my responsibility as a member of the Georgia Tech Community to uphold the Academic Honor Code at all times. In addition, I understand my options for reporting honor violations as detailed in the code.
Section 3. Student Responsibilities

Students are expected to act according to the highest ethical standards. The immediate objective of an Academic Honor Code is to prevent any Students from gaining an unfair advantage over other Students through academic misconduct. Academic misconduct is any act that does or could improperly distort Student grades or other Student academic records. Such acts include but need not be limited to the following:

- Possessing, using or exchanging improperly acquired written or verbal information in the preparation of any essay, laboratory report, examination, or other assignment included in an academic course;
- Substitution for, or unauthorized collaboration with, a Student in the commission of academic requirements;
- Submission of material that is wholly or substantially identical to that created or published by another person or person, without adequate credit notations indicating authorship (plagiarism);
- False claims of performance or work that has been submitted by the claimant;
- Alteration or insertion of any academic grade or rating so as to obtain unearned academic credit;
- Deliberate falsification of a written or verbal statement of fact to a member of the faculty so as to obtain unearned academic credit;
- Forgery, alteration or misuse of any Institute document relating to the academic status of the Student.
Questions?