OUTLINE

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12 Elective Choices
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26 Honor Code
BY THE NUMBERS

901
UNDERGRADUATE students

No. 3
CIVIL ENGINEERING undergraduate & graduate programs

331
GRADUATE students

No. 5
ENVIRONMENTAL ENGINEERING undergraduate & graduate programs

$21 MILLION
in new research funding FY 2010

54
tenure-track FACULTY

29%
FEMALE undergraduate student body

3
CORE VALUES: Rigor, Diversity, Entrepreneurial spirit
## Faculty:
- Technical electives
- Professional mentorship
- Research
- Graduate school
- Employment advice

## Student Services Office:
- General program advice
- Registration
- Overloads, permits
- Petitions to the faculty
- Retention, readmission
- Graduation

CEE’s Student Services Office is continuously ranked as one of the best advising units at Georgia Tech, earning multiple awards and accolades from the College of Engineering and the Institute since 2005.
### CEE @ GT

#### Advising

#### BS CE / BS ENVE FLOW CHARTS

![Flow Chart Image]

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**BS CE / BS ENVE Curricular Requirements**

<table>
<thead>
<tr>
<th>Categories</th>
<th>Requirements</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Major</strong></td>
<td>Must have 4 courses in 12 credit hours</td>
<td></td>
</tr>
<tr>
<td><strong>Math &amp; Science</strong></td>
<td>Must have 4 courses in 24 credit hours</td>
<td></td>
</tr>
<tr>
<td><strong>Other</strong></td>
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<td><strong>Electives</strong></td>
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**End Curricular Flow Chart**

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<td><strong>BS CE / BS ENVE</strong></td>
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</table>
Transfer Credit Issues BSCE & EnvE

Computer Science Requirements
- CS 1371
- CS 1301/1321 + CS 1171
- CS 13X1 + CS 1171
- CS 15XX + CS 1171

Calculus II
- Math 1502
- Math 15X2 + Math 1522

General Chemistry I
- Chem 1310
- Chem 1211K
- Chem 12X1

+ 60 hours in residence for graduation with honors
All courses taken on letter-grade basis (except CS 1171)

“C” or better in:

MATH 1501, 1502,
CHEM 1310,
PHYS 2211,
COE 2001

Minimum degree cumulative GPA: 2.0
Minimum CEE GPA for graduation: 2.0

Any course deviations must be approved by CEE/Institute
**REGISTRATION TIPS**

- **Protect your GPA.**
- **Retake Math 1501 if you have AP credit.**
- **Take a conservative course load!**

**SUGGESTED FALL FRESHMAN YEAR SCHEDULES:**

<table>
<thead>
<tr>
<th>BS CE</th>
<th>BS EnvE</th>
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<tr>
<td>CS 1371 or CEE 1770</td>
<td>CS 1371 or Hist/Gov’t</td>
</tr>
<tr>
<td>Math 1501 or Math 1502</td>
<td>Math 1501 or Math 1502</td>
</tr>
<tr>
<td>Chem 1310 or CEE 1770</td>
<td>Chem 1310 or Biol 1510</td>
</tr>
<tr>
<td>ENGL 1101 or ENGL 1102</td>
<td>ENGL 1101 or ENGL 1102</td>
</tr>
</tbody>
</table>
Required 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

+ Structural Systems
+ Geotechnical Systems
+ Infrastructure Systems
+ Environmental Systems
STRUCTURAL SYSTEMS TRACK
HOW TO SELECT CIVIL ENGINEERING ELECTIVES

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
GEOTECHNICAL SYSTEMS TRACK
HOW TO SELECT CIVIL ENGINEERING ELECTIVES

CEE Breadth Courses

CEE 3055 Structural Analysis
CEE 4405 Geotechnical Engng

Choose 2 from:
CEE 4100 Const Management
CEE 4200 Hydraulic Engng
CEE 4300 Environ Engng Syst
CEE 4600 Transport Engng

CEE Technical Electives

CEE 4210 Hydrology
CEE 4320 Hazardous Subst Engng
CEE 4410 Geosystems Design
CEE 4420 Subsurface Charact
CEE 4430 Environ Geotechnics
CEE 4520 Reinforced Concrete
CEE Graduate Courses
CEE 4699 Undergrad Research
INFRASTRUCTURE SYSTEMS TRACK
HOW TO SELECT CIVIL ENGINEERING ELECTIVES

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 4640 Freeway & Interch Design
CEE 4650 Site Design in Transp
CEE Graduate Courses
CEE 4699 Undergrad Research
ENVIRONMENTAL SYSTEMS TRACK
HOW TO SELECT CIVIL ENGINEERING ELECTIVES

CEE Breadth Courses
CEE 4200 Hydraulic Engng
CEE 4300 Environ Engng Systems
CEE 4405 Geotechnical 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

CEE @ GT

ELECTIVES
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

EnvE Technical Elective (choose one)
CEE 4210 Hydrology
CEE 4405 Geotechnical Engineering
CEE 4620 Environ Impact Assessment
CEE 4795 Ground Water Hydrology

EnvE Design Elective (choose one)
CEE 4310 Water Quality Engineering
CEE 4320 Hazardous Substance Engng
CEE 4330 Air Pollution Engineering
CEE 4395 Environ Systems Design Project
## HOW TO SELECT ENV ENG ELECTIVES

### Focus Area Electives (choose four)

<table>
<thead>
<tr>
<th>BIOL 2335 General Ecology</th>
<th>CEE 4795 Ground Water Hydrology</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3380 Introductory Microbiology</td>
<td>CHBE 3200 Transport Processes I</td>
</tr>
<tr>
<td>BIOL 4010 Aquatic Ecology</td>
<td>CHEM 3281 Instrumental Analysis for Engineers</td>
</tr>
<tr>
<td>BIOL 4430 Environmental Sustainability</td>
<td>CHEM 3511 Survey of Biochemistry</td>
</tr>
<tr>
<td>BMED 3400 Introduction to Biomechanics</td>
<td>CHEM 4740 Atmospheric Chemistry</td>
</tr>
<tr>
<td>BMED 4757 Biofluid Mechanics</td>
<td>CP 4210 Environ Planning &amp; Impact Assessment</td>
</tr>
<tr>
<td>BMED 4758 Biosolid Mechanics</td>
<td>CP 4510 Fundamentals of GIS</td>
</tr>
<tr>
<td>CEE 3010 Geomatics</td>
<td>EAS 4110 Resources, Energy &amp; Environment</td>
</tr>
<tr>
<td>CEE 4100 Construction Engng and Management</td>
<td>EAS 4300 Oceanography</td>
</tr>
<tr>
<td>CEE 4210 Hydrology</td>
<td>EAS 4410 Climate &amp; Global Change</td>
</tr>
<tr>
<td>CEE 4230 Environmental Transport Modeling</td>
<td>EAS 4420 Environmental Field Methods</td>
</tr>
<tr>
<td>CEE 4310 Water Quality Engineering</td>
<td>EAS 4430 Remote Sensing and Data Analysis</td>
</tr>
<tr>
<td>CEE 4320 Hazardous Substance Engineering</td>
<td>EAS 4610 Earth Systems Modeling</td>
</tr>
<tr>
<td>CEE 4330 Air Pollution Engineering</td>
<td>EAS 4625 Water Quality Modeling</td>
</tr>
<tr>
<td>CEE 4405 Geotechnical Engineering</td>
<td>EAS 4740 Atmospheric Chemistry</td>
</tr>
<tr>
<td>CEE 4420 Subsurface Characterization</td>
<td>ECE 3710 Circuits and Electronics</td>
</tr>
<tr>
<td>CEE 4430 Environ Geotechnics</td>
<td>ECE 3741 Instrumentation and Electronics Lab</td>
</tr>
<tr>
<td>CEE 4600 Transportation Plan, Oper &amp; Design</td>
<td>ME 4171 Environ Conscious Design and Manufac</td>
</tr>
<tr>
<td>CEE 4620 Environmental Impact Assessment</td>
<td>ME 4172 Designing Sustainable Engng Systems</td>
</tr>
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BS CE / BS EnvE

Bachelor of Science

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

Bachelor of Science International Plan
http://www.internationalplan.gatech.edu

Bachelor of Science Research Plan
http://undergradresearch.gatech.edu

BS/MS Program
5-year program combining Bachelor’s and Master’s degrees (Minimum GPA of 3.5)
http://www.catalog.gatech.edu/colleges/coe/ce/ugrad/bsms.php
Enhancing your Education

Internships
Study or Work Abroad
Undergraduate Research
Student Organizations

CEE @ GT
Co-Operative Experience:
Work terms alternating with school in sophomore/junior year resulting in co-op designation on degree.

Wayne Thompson
Asst Director, Prof Practice
103 Savant Building,
404-894-3320
wayne.thompson@dopp.gatech.edu

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

Mary Fisher
Asst Director, UG Intern
112 Savant Building,
404-894-3320
mary.fisher@dopp.gatech.edu

http://www.profpractice.gatech.edu/
CEE students may pursue summer, semester, or year-long international programs through the Office of International Education’s (OIE) Study Abroad Program. If you choose a program offering Civil or Environmental engineering courses, CEE will work with you to determine how the credits will apply towards the degrees.

**CE students can participate in 41 Study Abroad programs for credit towards their degree; EnvE students can participate in 29!**

http://www.oie.gatech.edu/sa/
Funding designated for CEE students to participate in an international learning experience during their enrollment. Priority is given to undergraduate students!

Examples of funded projects:

+ Brandon Strellis traveled to Norway to study hydropower, including simulations in the River Nidelva

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

Deadlines and information: http://www.ce.gatech.edu/academics/overview
UNDERGRADUATE RESEARCH

CEE 2698/4698 Undergraduate research for pay
CEE 2699/4699 Undergraduate research for credit
CEE 4900 CEE Honors Research by invitation of the faculty
PUQA President’s Undergraduate Research Award

http://www.ce.gatech.edu/academics/undergraduate/research
American Society of Civil Engineers
Association of Environmental Engineers and Scientists
Chi Epsilon
Engineering Students Without Borders
Earthquake Engineering Research Institute
Institute of Transportation Engineers

http://www.ce.gatech.edu/academics/student-organizations
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.

http://www.honor.gatech.edu
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.
ANY QUESTIONS?