### BS Env Engineering Undergraduate Curriculum (Catalog Year: 2013 - 2014)

**Required Degree Hours = 129 / Engineering Hours = 52**

### Freshman
- **Fall Semester**
  - MATH 1501: Calculus I (4-0-4)
  - CHEM 1310: General Chemistry (3-3-4)
  - CS 1371: Computing for Engineers (3-0-3)
  - ENGL 1101: English Comp. I (3-0-3)
  - HUMANITIES ELEC: 17 Hours

- **Spring Semester**
  - MATH 1502: Calculus II (4-0-4)
  - PHYS 2211: Intro Physics I (3-3-4)
  - CHEM 1315: Survey of Organic Chemistry (3-0-3)
  - ENGL 1102: English Comp. II (3-0-3)
  - WELLNESS ELEC: 16 Hours

### Sophomore
- **Fall Semester**
  - MATH 2401: Calculus III (4-0-4)
  - PHYS 2212: Intro Physics II (3-3-4)
  - BIOL 1510: Biological Principles (3-3-4)
  - ENGL: 3-0-3
  - CEE 4300: Env Engr Systems Materials Lab (3-0-3)
  - CEE 3000: Civil Engineering Systems (3-0-3)

- **Spring Semester**
  - MATH 2402: Differential Equations (3-0-3)
  - EAS 2600: Earth Processes (3-0-3)
  - CEE 2300: Civil Engineering Lab (2-3-3)
  - CEE 3001: Deformable Bodies (3-0-3)
  - MATH 1501: Elementary Differential Equations (3-0-3)

### Junior
- **Fall Semester**
  - CEE 4300: Env Engr Systems Lab (3-0-3)
  - CEE 3020: Deformable Bodies (3-0-3)
  - CEE 3001: Fluid Mechanics (3-0-3)
  - SOC SCIENCE ELEC: 12 Hours

- **Spring Semester**
  - MATH 1502: Calculus II (3-0-3)
  - ENGL: 3-0-3
  - PHYS CHEM I: Engr Engineering Lab (3-0-3)
  - PHYS 2211: Survey of Proc (3-0-3)
  - MATH: 3-0-3

### Senior
- **Fall Semester**
  - CEE 4XXX: EnvTech Elect (see Note 4) (3-0-3)
  - TECH ELEC FOCUS: 15 Hours
  - TECH ELEC FOCUS: 15 Hours
  - APPROVED ELEC: 12 Hours
  - U.S. PERSPECTIVES: (See Note 6) (3-0-3)
  - ETHICS REQ: TBD

- **Spring Semester**
  - CEE 4XXX: EnvTech Design Elect (see Note 5) (3-0-3)
  - TECH ELEC FOCUS: 15 Hours
  - TECH ELEC FOCUS: 15 Hours
  - APPROVED ELEC: 12 Hours
  - SOC SCIENCE ELEC: (See Note 8) (3-0-3)

### Notes
1. Students can receive credit for only one of ECON 2100, ECON 2101, ECON 2105, or ECON 2106.
2. Humanities Electives and Social Science Electives. See Page 2 for a link to the list of classes.
3. See Page 2 for list of classes.
4. CEE 4210 or CEE 4405 or CEE 4620 or CEE 4795.
5. CEE 4310 or CEE 4320 or CEE 4330 or CEE 4395.
6. Approved Electives. Maximum 3 hrs CEE 2699. MATH 1113, PHYS 2802, one-hour MUSI courses, GT 1000, and FREE XXX are not allowed.
7. HIST 2111 or HIST 2112 or INTA 1200 or POL 1101 or PUBP 3000. Cannot use credit for both INTA 1200 and POL 1101.
8. Ethics Requirement. PHIL 4176 (recommended) or PHIL 3105 or PHIL 3109 or PHIL 3127.
9. Overlay Area: A course in Global Perspectives must be taken as part of the curriculum. It can be an Approved Elective, Humanities, Economics, Humanities, or Social Science Elective. See page 2 for list of classes.
10. Engineering credit hours must total 52. 40 hours are set. Remaining 12 hours to be chosen from Phys Chem I, Tech Elec Focus and/or Approved Elect. This is not an official record. Verify course requirements through GT catalog.
**GPA & Grade Requirements**

1. **Overall GPA:** Must be 2.00 or above at graduation.
2. **Required grades:**
   - Minimum grade of D or better is required except as noted.
3. **Major GPA:**
   - Must be 2.00 or above at graduation.
   - Classes used to calculate major GPA include those with CEE prefix.

**Humanities, Social Science, and Overlay Requirements (Ethics and Global Perspectives)**

1. **Humanities Electives:** The current list can be found at: [http://catalog.gatech.edu/students/ugrad/core/corec.php](http://catalog.gatech.edu/students/ugrad/core/corec.php)
2. **Social Science Electives:** The current list can be found at: [http://catalog.gatech.edu/students/ugrad/core/coree.php](http://catalog.gatech.edu/students/ugrad/core/coree.php)
3. **Ethics Overlay:** PHIL 4176 (recommended) or PHIL 3105 or PHIL 3109 or PHIL 3127.
4. **Global Perspectives Overlay:** [http://catalog.gatech.edu/students/ugrad/core/gp.php](http://catalog.gatech.edu/students/ugrad/core/gp.php)

**CEE Technical Elective Focus Area**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>BIOL 2335</td>
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<td>CEE 4803</td>
<td>Special Topics</td>
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<td>BIOL 3380</td>
<td>Intro Microbiology</td>
<td>CEE 6XXX</td>
<td>Graduate Courses</td>
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<td>CHBE 3200</td>
<td>Transport Processes I</td>
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<td>CHEM 3281</td>
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<td>EAS 4110</td>
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<td>Ground Water Hydro</td>
<td>ME 4782</td>
<td>Biosystems Analysis</td>
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| CEE 4699    | Undergrad Research          | **Note:** Additional courses may be considered by the faculty.

**Approved Electives**

Up to 3 hours of VIP credit can be used as Technical Elective Focus Area; after earning those 3 credits, any additional VIP credits can be used only as approved elective credits.