

**BS Civil Engineering Undergraduate Curriculum (Catalog Year: 2014 - 2015)**

<b>FRESHMAN</b>	Fall Semester	<b>MATH 1501</b> Calculus I Minimum Grade C (4-0-4)	<b>CHEM 1310</b> General Chemistry Minimum Grade C (3-3-4)	<b>CS 1371</b> Computing for Engineers (3-0-3)	<b>ENGL 1101</b> English Comp. I (3-0-3)	<b>U.S. PERSPECTIVES</b> Social Science (See Note 7) (3-0-3)	<b>= 17 Hours</b>
	Spring Semester	<b>MATH 1502</b> Calculus II Minimum Grade C (4-0-4) MATH 1501	<b>PHYS 2211</b> Intro Physics I Minimum Grade C (3-3-4) MATH 1501	<b>CEE/ME 1770</b> Intro to Engineering Graphics (2-3-3)	<b>ENGL 1102</b> English Comp. II (3-0-3) ENGL 1101	<b>HUMANITIES ELEC</b> (3-0-3)	<b>= 17 Hours</b>
<b>SOPHOMORE</b>	Fall Semester	<b>MATH 2401</b> Calculus III (4-0-4) MATH 1502	<b>PHYS 2212</b> Intro Physics II (3-3-4) PHYS 2211	<b>ECONOMICS</b> Econ 2100, 2101, 2105, or 2106 (see Note 1) (3-0-3)	<b>COE 2001</b> Statics Minimum Grade C (2-0-2) MATH 1502, PHYS 2211	<b>CEE 2300</b> Env Engr Princ (3-0-3) CHEM 1310, MATH 1502, PHYS 2211	<b>= 16 Hours</b>
	Spring Semester	<b>MATH 2403</b> Differential Equations (4-0-4) MATH 1502	<b>Science Elective</b> BIOL 1510, 1520, or EAS 2600 (3-3-4) Course Specific	<b>CEE 3000</b> Civil Engineering Systems (3-0-3) MATH 1501	<b>CEE 2040</b> Dynamics (2-0-2) COE 2001	<b>ETHICS REQ</b> (See Note 8) (3-0-3)	<b>= 16 Hours</b>
<b>JUNIOR</b>	Fall Semester	<b>COE Tech Elect</b> MSE 3001, ME 3322, or CHBE 2110 (3-0-3) Course Specific	<b>CEE 3020</b> Civil Engineering Materials Lab (2-3-3) COE 3001	<b>COE 3001</b> Deformable Bodies (3-0-3) MATH 2403, COE 2001	<b>CEE 3040</b> Fluid Mechanics (3-0-3) CEE 2040, MATH 2401	<b>SOC SCIENCE ELEC</b> (see Note 2) (3-0-3)	<b>WELLNESS ELEC</b> APPH 1040 or APPH 1050 (2-0-2)
	Spring Semester	<b>CEE/ISYE 3770</b> Statistics & Applications (3-0-3) MATH 2401	<b>CEE Breadth Elec</b> (See Note 3) (3-0-3) Course Specific	<b>CEE Breadth Elec</b> (See Note 3) (3-0-3) Course Specific	<b>CEE Breadth Elec</b> (See Note 3) (3-0-3) Course Specific	<b>CEE Breadth Lab</b> CEE4200 or 4405 (See Note 4) (2-3-3) Course Specific	<b>= 17 Hours</b> <b>= 15 Hours</b>
<b>SENIOR</b>	Fall Semester	<b>CEE Technical Elec</b> (See Note 5) (3-0-3) Course Specific	<b>CEE Technical Elec</b> (See Note 5) (3-0-3) Course Specific	<b>CEE Technical Elec</b> (See Note 5) (3-0-3) Course Specific	<b>CEE Technical Elec</b> (See Note 5) (3-0-3) Course Specific	<b>APPROVED ELEC</b> (see Note 6) (3-0-3)	<b>= 15 Hours</b>
	Spring Semester	<b>CEE Technical Elec</b> (See Note 5) (3-0-3) Course Specific	<b>CEE Technical Elec</b> (See Note 5) (3-0-3) Course Specific	<b>CEE 4090</b> Capstone Design (2-3-3) Senior Status	<b>APPROVED ELEC</b> (see Note 6) (3-0-3)	<b>SOC SCIENCE ELEC</b> (see Note 2) (3-0-3)	<b>= 15 Hours</b>

This is not an official record. Verify course requirements through GT catalog.

**Required Degree Hours = 128**

- Students can receive credit for only one of ECON 2100, ECON 2101, ECON 2105, or ECON 2106. The only exception is that students can receive 6 hours credit for both ECON 2105 and ECON 2106.
- Humanities Electives and Social Science Electives. See Page 2 for a link to the list of classes.
- CEE Breadth Electives: Choose 3 of 6 from CEE 3055, 4100, 4200, 4300, 4405, and 4600.
- CEE Breadth Lab Elective: Choose CEE 4200 or 4405.
- Any 3000 level or higher CEE course with the exception of CEE 4801, CEE 8811, and CEE 8812. See additional notes on page 2.
- Approved Electives. Maximum 3 hrs CEE 2699. MATH 1113, PHYS 2802, one-hour MUSI courses, GT 1000, and FREE XXXX are not allowed.
- HIST 2111 or HIST 2112 or INTA 1200 or POL 1101 or PUBP 3000. Cannot use credit for both INTA 1200 and POL 1101.
- Ethics Requirement. PHIL 3105 or PHIL 3109 or PHIL 3127.
- 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 link to list of classes.

<b>REQUIRED Overlay</b>
<b>Global Perspectives</b>
<b>YES/NO</b>
(see Note 9)
(3-0-3)

## Undergraduate CE Curriculum Notes

Class Number	→	<b>PHYS 2211</b>	
		Intro Physics I	← Class Name
Notes	→	Minimum Grade C	(Lecture hours/lab hours) per week
		(3-3-4)	← Course credit hrs in bold
Pre-requisites	→	MATH 1501	

The pre-requisite must be completed before you can take this class  
A co-requisite can be taken in the same semester or before the class.

CE has a minimum 5 semester prerequisite chain - plan your courses carefully!

### GPA & Grade Requirements

1. All classes taken for BSCE must be taken LETTER GRADE. No Pass/Fail.
2. **Overall GPA:** Must be 2.00 or above at graduation.
3. **Required grades:**  
-Minimum grade of D or better is required except as noted.
4. **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>
2. **Social Science Electives:** The current list can be found at: <http://catalog.gatech.edu/students/ugrad/core/coree.php>
3. **Ethics Requirement** PHIL 3105 or PHIL 3109 or PHIL 3127.
4. **Global Perspectives Overlay:** <http://catalog.gatech.edu/students/ugrad/core/gp.php>

### CEE Technical Electives

Any 3000 level or higher CEE course with the exception of CEE 4801, CEE 8811, and CEE 8812.  
Maximum of 3 hours CEE 4699 and 4900.  
Non-CEE courses allowed are: COA 4010, CP 4010, CP 4020, CP 4310, and CP 4510.

### 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.