

BS Civil Engineering Undergraduate Curriculum (Catalog Year: 2012 - 2013)

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

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.

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

Undergraduate CE Curriculum Notes

Class Number	→	PHYS 2211	
		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.