BS Civil Engineering Undergraduate Curriculum (Catalog Year: 2015 - 2016)

FRESHMAN	Fall Semester	**MATH 1551** Differential Calculus **Minimum Grade C** (2-0-**2**)	**MATH 1553** Intro Linear Algebra **Minimum Grade C** (2-0-**2**)	**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. Constitution/Hist** Social Science (See Note 7) (3-0-**3**)
	Spring Semester	**MATH 1552** Integral Calculus **Minimum Grade C** (4-0-**4**) MATH 1551	**PHYS 2211** Intro Physics I **Minimum Grade C** (3-3-**4**) MATH 1551	**CEE 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** **= 15 Hours**
SOPHOMORE	Fall Semester	**MATH 2551** Multivariable Calculus (4-0-**4**) MATH 1552	**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 1552, PHYS 2211	**CEE 2300** Env Engr Princ (3-0-**3**) CHEM 1310, MATH 1552, PHYS 2211	**= 16 Hours**
	Spring Semester	**MATH 2552** Differential Equations (4-0-**4**) MATH 1552	**Science Elective** BIOL 1510, 1520, or EAS 2600 (3-3-**4**) Course Specific	**CEE 3000** Civil Engineering Systems (3-0-**3**) MATH 1551	**CEE 2040** Dynamics (2-0-**2**) COE 2001	**HUMANITIES ELEC** Ethics Requirement (See Note 8) (3-0-**3**)	**= 16 Hours**
JUNIOR	Fall Semester	**COE Tech Elect** MSE 3001, 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 2552, COE 2001	**CEE 3040** Fluid Mechanics (3-0-**3**) CEE 2040, MATH 2551	**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 2551	**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**

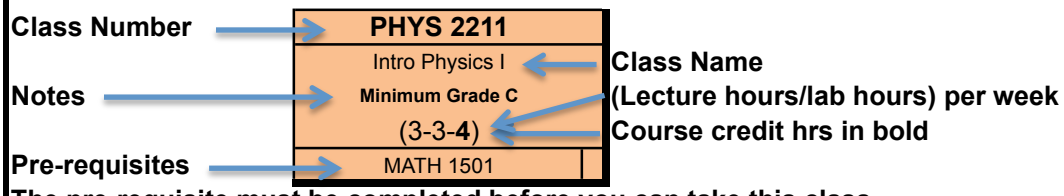
This is not an official record. Verify course requirements through GT catalog.

Required Degree Hours = 128

1. 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.
2. Humanities Electives and Social Science Electives. See Page 2 for a link to the list of classes.
3. CEE Breadth Electives: Choose 3 of 6 from CEE 3055, 4100, 4200, 4300, 4405, and 4600.
4. CEE Breadth Lab Elective: Choose CEE 4200 or 4405.
5. Any 3000 level or higher CEE course with the exception of CEE 4801, CEE 8811, and CEE 8812. See additional notes on page 2.
6. Approved Electives. Maximum 3 hrs CEE 2699. MATH 1113, PHYS 2802, one-hour MUSI courses, GT 1000, and FREE XXXX 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 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 link to list of classes.~~

REQUIRED Overlay
Global Perspectives
Removed
Spring 2016

Undergraduate CE Curriculum Notes



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.