# Engineering Studies Majors

## Degree Requirement Check Sheet, Effective June, 2010

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<th>Name</th>
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### Required Core Courses – 42 Hours

#### Area A – Essential Skills – 9 Hours
- ENGL 1101 or ENGL 1101H
- ENGL 1102 or ENGL 1102H
- MATH 1161 or MATH 1161H

#### Area B - Institutional Options – 4 Hours
- Programming Course - One course selected from:
  - CSCI 1301
  - CSCI 1371
  - ENGR 1371

  1 semester hour excess for MATH 1161 from core area A

#### Area C- Humanities & Fine Arts – 6 Hours
- **Ethics**
  - PHIL 2030

- **Art Music or Theatre** – One course selected from:
  - ARTS 1100
  - MUSC 1100
  - THEA 1200
  - ENGL 2100
  - ENGL 2100H

#### Area D – Science, Math, & Technology – 12 Hours
- Laboratory Science sequence – Sequence selected from:
  - CHEM 1211/1211L and CHEM 1212/1212L
  - PHYS 2211K and PHYS 2212K

- **Mathematics**
  - MATH 2072

#### Area E – Social Sciences – 12 Hours
- **Georgia or American History** – One course selected from
  - HIST 1100
  - HIST 1100H
  - POLS 1100
  - HIST 2111
  - HIST 2112

- **Economics** – One course selected from
  - ECON 2105
  - ECON 2106

- **History and Social Sciences** – Two courses selected from
  - ANTH 1102
  - HIST 1111
  - HIST 1112
  - HIST 112H
  - HIST 2111
  - HIST 2112
  - POLS 1200
  - PSYC 1101
  - PSYC 1101H
  - SOCI 1101

#### Physical Education - 3 Hours
- PEBC 2000

### Additional Courses Required by Major

#### Mathematics courses:
- MATH 2083
- MATH 2160
- MATH 3411

#### Laboratory Sciences – Two courses selected from:
- BIOL 1107
- CHEM 1211/1211
- CHEM 1212/1212L
- CHEM 1212H
- PHYS 2211K
- PHYS 2212K

Two of the lab sciences taken in Area D or here must be PHYS 2211K and PHYS 2212K

One of the lab sciences taken in Area D or here must be CHEM 1211/1211L or CHEM 1212H

Civil Engineers must take
- BIOL 1107

### Civil Engineering Major Courses
- ENGR 1100 (required of PENG)
- ENGR 1170/1170L
- ENGR 2001
- ENGR 2202
- ENGR 3322

### Computer and Electrical Engineering Major Courses
- ENGR 1100 (required of CPE)
- CSCI 1302
- CSCI 2410 (required of CPE)
- ENGR 2025
- ENGR 2030
- ENGR 2031
- ENGR 3100
- ENGR 3322

### Mechanical Engineering Major Courses
- ENGR 1100 (required of PENG)
- ENGR 1170/1170L
- ENGR 2000
- ENGR 2001
- ENGR 2010
- ENGR 2110
- ENGR 2202
- ENGR 3322