

ME International Plan (IP) Undergraduate Curriculum (Catalog: 2009-10)

Freshman	Fall	CHEM 1310 General Chemistry 3-3-4	MATH 1501 Calculus 1 (Minimum Grade C) 4-0-4	CS 1371 Introduction to Computing 3-0-3	ENGL 1101 English Composition 1 [Humanities] 3-0-3	Humanities Elective IP Optional Language Class 3-0-3	= 17 hours
	Spring	PHYS 2211 Physics 1 3-3-4 MATH 1501	MATH 1502 Calculus 2 (Minimum Grade C) 4-0-4 MATH 1501	ME/CEE 1770 Engineering Graphics (See Note 1, No W's) 2-3-3	ENGL 1102 English Composition 2 [Humanities] 3-0-3 ENGL 1101	Humanities Elective IP Optional Language Class 3-0-3	
Sophomore	Fall	PHYS 2212 Physics 2 3-3-4 PHYS 2211	MATH 2401 Calculus 3 (Minimum Grade C) 4-0-4 MATH 1502	ME 2110 Creative Decisions and Design (See Note 1, No W's) 2-3-3 ME/CEE 1770, COE 2001*	COE 2001 Statics 2-0-2 MATH 1502, PHYS 2211	Free Elective IP Optional Language Class (See Note 3) 3-0-3	= 16 hours
	Spring	ECE 3710 Circuits & Electronics 2-0-2 PHYS 2212	MATH 2403 Differential Equations (Minimum Grade C) 4-0-4 MATH 1502	ME 2202 Dynamics of Rigid Bodies 3-0-3 COE 2001	ME 2016 Computing Techniques 3-0-3 CS 1371, MATH 1502, MATH 2403*	MSE 2001 Engineering Materials 3-0-3 CHEM 1310	= 15 hours
Junior - ABROAD	Fall	COE 3001 Mechanics of Deformable Bodies 3-0-3 COE 2001, MSE 2001*, MATH 2403*	ME 3322 Thermodynamics 3-0-3 PHYS 2211, MATH 2403	ME 3340 Fluid Mechanics 3-0-3 ME 2202, ME 3322*, MATH 2403	Free Elective IP Regional or Country Elective (See Notes 2, 3 & 7) 3-0-3	Economics IP Global Economics (See Notes 2 & 7) 3-0-3	= 15 hours
	Spring	ME 3015 System Dynamics & Control 4-0-4 ME 2202, ME 2016, MATH 2403, ECE 3710	ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2403	MATH/ISYE 3770 Statistics 3-0-3 MATH 2401	Ethics INTA 2030 or HTS 2084 (See Note 8) 3-0-3	Social Science IP International Relations Elective (See Note 2) 3-0-3	= 16 hours
Senior	Fall	Design Elective ME 3180 (Machine Design) or ME 4315 (Energy Sys Design) 3-0-3 ME 2110, ME 3345 (for ME 4315 only), COE 3001 (for ME 3180 only)	ME 4210 Manufacturing Processes & Engineering 3-0-3 COE 3001, ME 3345, MATH/ISYE 3770	ME 3057 Experimental Methods Lab (See Note 1, No W's) 2-3-3 COE 3001, ME 3015, ME 3340, ME 3345*, MATH/ISYE 3770*	ISYE 3025 Engineering Economics 1-0-1 (ECON 2100, 2101, 2105 or 2106)	HISTORY HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBB 3000 (Social Sci, See Note 5) 3-0-3	HPS 1040 Wellness 2-0-2
	Spring	ME 4053 ME Systems Lab (See Note 1, No W's) 1-2-2 ME 3057, ME 3345, MATH/ISYE 3770	ME 4182 IP Capstone Design (See Note 1, No W's) 1-6-3 ME 2110, ME 4210*, (ME 3180 or ME 4315)	ME Elective 4000 Level or Above ME Class (See Note 4) 3-0-3	ME Elective 4000 Level or Above ME Class (See Note 4) 3-0-3	Science Elect. CHEM 1311 & 1312, BIOL 1510, BIOL 1520, EAS 1600, EAS 1601 or PHYS 2213 X-X-3	ECE 3741 Instrument & Electronics Lab 0-3-1 ECE 3710

126 Total Hours

NOTES:

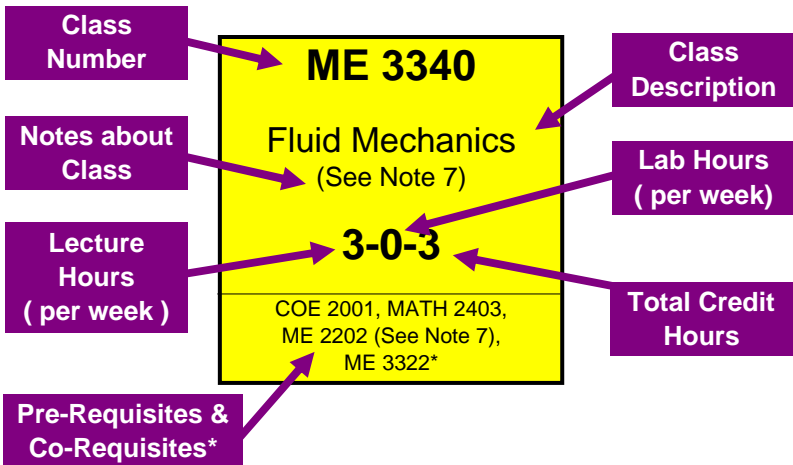
- ME 1770, 2110, 3057, 4053 & 4182 cannot be dropped after registration without documented medical reasons.
 - Classes that satisfy the international plan (IP) requirements and additional IP rules are <http://www.internationalplan.gatech.edu/students/requirements.html>
 - Free Electives must be 2000 level or above and may not duplicate any other material used for your BSME.
 - ME Electives are any 4000 level ME class, excluding ME 4741 & ME 4742. Students may take both design electives (ME 3180 & ME 4315); one will be the design elective and the other an ME Elective.
 - Credit is only awarded for INTA 1200 or POL 1101, not both. Classes are exactly the same.
 - Credit is awarded for Econ 2100, Econ 2101 or (Econ 2105 and/or Econ 2106).
 - Either Global Economics or Country & Regional Elective must be a social science.
 - If Global Economics and Country/Regional Elective are both social sciences, then ethics can be selected from:
Ethics - PST 3105, 3109, 3127 & 4176 (humanities); HTS 2084 & INTA 2030 (social sciences).
- * Class co-requisites have an asterick (*) after the class. These classes can be taken at the same time.

General Requirements

- All classes must be taken LETTER GRADE.
- Minimum grade of D required for each class, except as noted.
- Overall GPA must be greater than 2.00 to graduate.
- ME GPA (includes all ME and COE classes) must be greater than 2.00 at graduation.

Undergraduate Curriculum Sheet Explained

Understanding the Curriculum Guide



Pre-requisites: These classes must be completed before you can take the class.
***Co-requisites:** These classes can be taken at the same time or before the class. You must register for the co-req first to avoid registration errors.

Core Classes

Humanities Electives (12 hours total)

- ENGL 1101 (3 hrs)
- ENGL 1102 (3 hrs)
- Humanities Elective (3 hrs)
- * Humanities Elective (3 hrs)

Social Science Electives (12 hours total)

- Economics (3 hrs) - ECON 2100, ECON 2105 or ECON 2106
- History (3 hrs) - HIST 2111, HIST 2112, POL 1101, INTA 1200 or PUBP 3000
- Social Science Elective (3 hrs)
- * Social Science Elective (3 hrs)

*** Note:** One humanities or social science elective must be ethics. Ethics must be selected from:

- PST 3105 (Humanities) PST 4176 (Humanities)
- PST 3109 (Humanities) INTA 2030 (Social Science)
- PST 3127 (Humanities) HTS 2084 (Social Science)

Electives: Classes that satisfy social science electives and humanities electives can be found at:

<http://www.catalog.gatech.edu/students/ugrad/core/core.php>

ME Electives

1. **ME Electives:** A list of ME Electives (including their pre-reqs) offered each semester can be found listed at: <http://www.me.gatech.edu/undergraduate/registration.shtml>
2. **Design Elective (ME 3180 / ME 4315):** Students may take both design electives, ME 3180 & ME 4315. One class will satisfy the design elective and the other class satisfies an ME Elective.
3. **Research:** Students may use up to 4 hours of ME 4699/4903 for ME elective credit. In addition, up to 6 hours of 2699/4699/4903 from any department may be used as free elective credit. More information about research is at: http://www.me.gatech.edu/docs/special_problem_form.pdf
4. **Minors:** Students who successfully complete a Ga. Tech minor **approved by the ME department** are allowed to substitute courses required for the minor for up to six hours of ME elective credit. If a student does not complete the minor, then this substitution is disallowed and the student must complete six hours of ME elective credit.

ME Approved Minors:	Biomedical Engineering	Materials Science and Engineering
Aerospace Engineering	Computing Science	Mathematics
Biology	Earth and Atmospheric Sciences	Nuclear and Radiological Engineering

Pre-Requisites

Upon completion of these classes, you will have a minimum of (...) semesters remaining until graduation.

Machine Design (ME 3180) for the Design Elective	Minimum # of Semesters	Energy Systems Design (ME 4315) for the Design Elective
	7	MATH 1501
MATH 1501	6	MATH 1502, PHYS 2211
MATH 1502, PHYS 2211	5	COE 2001
COE 2001, PHYS 2212, CS 1371	4	ME 2202, MATH 2403, CS 1371, PHYS 2212
CHEM 1310, MATH 2403, ME 1770, ME 2016, ME 2202, ECE 3710	3	CHEM 1310, ECE 3710, ME 1770, ME 2016, ME 3322, ME 3340
ME 2110, ME 3015, ME 3322, ME 3340, COE 3001, MSE 2001, MATH 2401	2	COE 3001, MSE 2001, MATH 2401, ME 2110, ME 3015, ME 3345,
ME 3180 **, ME 3057, ME 3345, MATH/ISYE 3770	1	ME 4315 **, ME 3057, MATH/ISYE 3770
ME Electives, ECE 3741, ME 4182, ME 4053, ME 4210, ISYE 3025	0	ME Electives, ECE 3741, ME 4182, ME 4053, ME 4210, ISYE 3025