

ME Undergraduate Curriculum (Catalogs: 2006-07 and 2007-08)

Data Rev. 1
XLS Rev. 1

Freshman	Fall	CHEM 1310 General Chemistry 3-3-4	MATH 1501 Calculus 1 (Minimum Grade C) 4-0-4	HISTORY HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBP 3000 (Social Scien, See Note 4) 3-0-3	HPS 1040 Wellness 2-0-2	ENGL 1101 English Composition 1 [Humanities] 3-0-3	= 16 hours	
	Spring	PHYS 2211 Physics 1 3-3-4 MATH 1502*	MATH 1502 Calculus 2 (Minimum Grade C) 4-0-4 MATH 1501	CS 1371 Introduction to Computing 3-0-3	ME/CEE 1770 Engineering Graphics (See Note 6, No W's) 2-3-3	ENGL 1102 English Composition 2 [Humanities] 3-0-3 ENGL 1101		= 17 hours
Sophomore	Fall	PHYS 2212 Physics 2 3-3-4 PHYS 2211	MATH 2401 Calculus 3 (Minimum Grade C) 4-0-4 MATH 1502	ME 2016 Computing Techniques 3-0-3 MATH 1502, CS 1371	MSE 2001 Engineering Materials 3-0-3 CHEM 1310	COE 2001 Statics 2-0-2 MATH 1502, PHYS 2211	= 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 2110 Creative Decisions & Design (See Note 6, No W's) 2-3-3 ME/CEE/AE 1770, COE 2001*	Science Elect. CHEM 1311 & 1312, BIOL 1510, BIOL 1520, EAS 1600, EAS 1601 or PHYS 2213 X-X-3	= 15 hours	
Junior	Fall	ECE 3741 Instrument & Electronics Lab 0-3-1 ECE 3710	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	Economics ECON 2100, ECON 2105 or ECON 2106 [Social Science] (See Note 5) 3-0-3	Social Science Elective (See Note 9) 3-0-3	= 16 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	ISYE 3025 Engineering Economics 1-0-1 (ECON 2100, 2105 or 2106)	Ethics HTS 2084, INTA 2030, PST 3105, PST 3109, PST 3127 or PST 4176 (See Notes 1 & 3) 3-0-3	Humanities Elective (See Note 9) 3-0-3	= 17 hours
Senior	Fall	Design Elective ME 3180 (Machine Design) or ME 4315 (Energy Sys Design) 3-0-3 ME/CEE 1770, ME 2110, ME 3345 (for ME 4315 only), COE 3001 (for ME 3180 only)	ME 4210 Manufacturing Processes & Engineering 3-0-3 ME 3345, MATH/ISYE 3770	ME 3057 Experimental Methods Lab (See Note 6, No W's) 2-3-3 COE 3001, ME 3015, ME 3340, ME 3345*, MATH/ISYE 3770*,	ME Elective 3000 Level or Above ME Class (See Notes 2 & 8) 3-0-3	Free Elective 2000 Level or Above (See Notes 7 & 8) 3-0-3	= 15 hours	
	Spring	ME 4053 ME Systems Lab (See Note 6, No W's) 1-2-2 ME 3057, ME 3345, MATH/ISYE 3770	ME 4182 Capstone Design (See Note 6, No W's) 1-6-3 ME 2110, ME 4210*, (ME 3180 or ME 4315)	ME Elective 3000 Level or Above ME Class (See Notes 2 & 8) 3-0-3	Social Science or Humanities Elective (See Notes 3 & 9) 3-0-3	Free Elective 2000 Level or Above (See Notes 7 & 8) 3-0-3	= 14 hours	

NOTES:

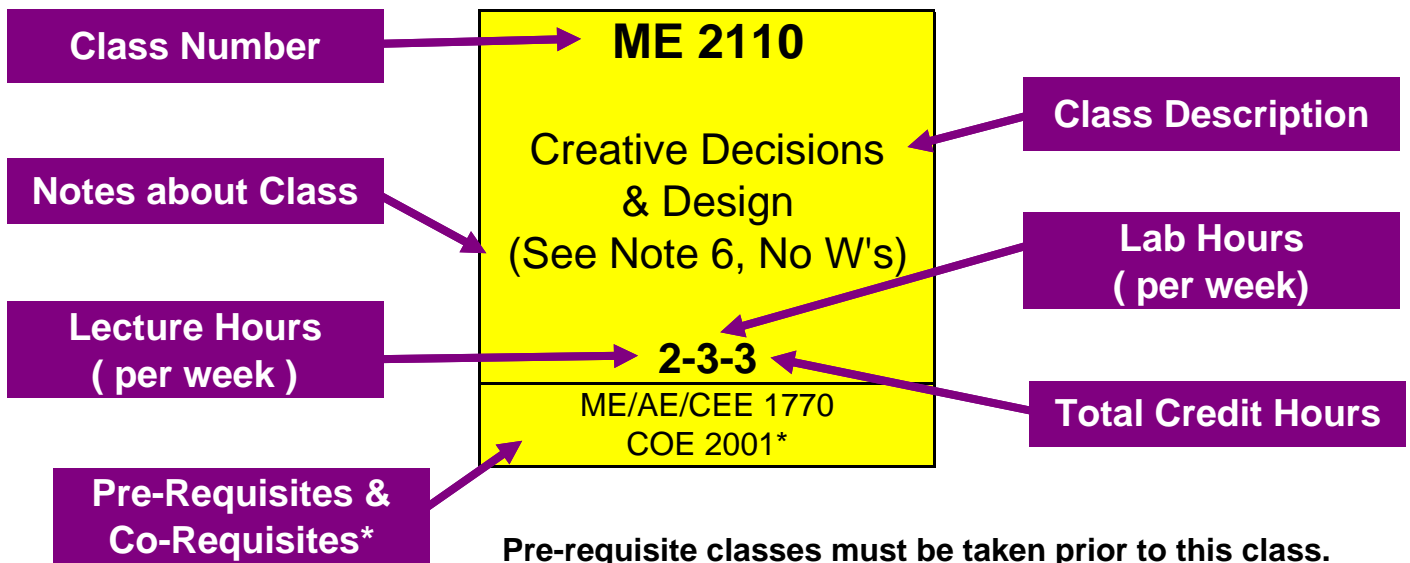
- PST 3105, 3109, 3127 & 4176 are humanities (HUM). HTS 2084 & INTA 2030 are social sciences (SS).
- ME Electives are any 3000 level ME class or above, excluding ME 3720. Students who take both ME 3180 and ME 4315 may use one class for the design elective and the other class for an ME Elective
- If ethics is humanities, social science elective is required for the SS or Hum Elective. If ethics is social science, humanities elective is required. All students need 12 hrs of social science & 12 hrs of humanities
- Credit is only awarded for INTA 1200 or POL 1101, not both. Classes are exactly the same
- No credit is awarded for (ECON 2105 or ECON 2106) if ECON 2100 is taken.
- ME 1770, 2110, 3057, 4053 & 4182 cannot be dropped after registration closes without documented reasons
- Free electives must be at the 2000 level or above, no exceptions.
- Free Electives & ME Electives may not duplicate any other material used for your BSME
- A list of classes that satisfy social science electives and humanities electives can be found at <http://www.registrar.gatech.edu/students/core.php>
- * Class co-requisites have an asterick (*) after the class. These classes can be taken at the same time.

126 Total Hours

General Requirements

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

Undergraduate Curriculum Sheet Explained



Pre-requisite classes must be taken prior to this class.
 *Co-requisite classes can be taken at the same time.

Pre-Requisite Warning

The ME curriculum contains a 7 or 8 semester pre-requisite chain, depending on the design elective you select.!!

Upon completion of these classes, you will have a minimum of (...) semesters remaining until graduation.			
Min. Sem	Students Selecting ME 3180 for the Design Elective	Students Selecting ME 4315 for the Design Elective	Min. Sem
7		MATH 1501	7
6	MATH 1501	MATH 1502, PHYS 2211	6
5	MATH 1502, PHYS 2211	COE 2001	5
4	COE 2001, PHYS 2212, CS 1371	ME 2202, MATH 2403, PHYS 2212, CS 1371	4
3	ME 1770, ME 2016, ME 2202, ECE 3710, CHEM 1310, MATH 2403	ME 1770, ME 2016, ME 3322, ME 3340, CHEM 1310, ECE 3710	3
2	COE 3001, ME 2110, ME 3015, ME 3322, ME 3340, MSE 2001, MATH 2401	COE 3001, ME 2110, ME 3015, ME 3345, MSE 2001, MATH 2401	2
1	ME 3180 **, ME 3057, ME 3345, MATH/ISYE 3770	ME 4315 **, ME 3057, MATH/ISYE 3770	1
0	ME 4182, ME 4053, ME 4210, ME Electives, ECE 3741, ISYE 3025	ME 4182, ME 4053, ME 4210, ME Electives, ECE 3741, ISYE 3025	0

** Students who wish to take both ME 3180 and ME 4315 may use one class for the design elective and the other class for an ME Elective.