

# ME Undergraduate Curriculum (2006-2007)

Rev. 11  
9/8/06

<b>Freshman</b>	<b>Fall</b>	<b>CHEM 1310</b> General Chemistry 3-3-4	<b>MATH 1501</b> Calculus 1 (Minimum Grade C) 4-0-4	<b>HISTORY</b> HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBP 3000 (Social Scien, See Note 4) 3-0-3	<b>HPS 1040</b> Wellness 2-0-2	<b>ENGL 1101</b> English Composition 1 [ Humanities ] 3-0-3	<b>= 16 hours</b>	
	<b>Spring</b>	<b>PHYS 2211</b> Physics 1 3-3-4 MATH 1502*	<b>MATH 1502</b> Calculus 2 (Minimum Grade C) 4-0-4 MATH 1501	<b>CS 1371</b> Introduction to Computing 3-0-3	<b>ME/CEE 1770</b> Engineering Graphics (See Note 6, No W's) 2-3-3	<b>ENGL 1102</b> English Composition 2 [ Humanities ] 3-0-3 ENGL 1101		<b>= 17 hours</b>
<b>Sophomore</b>	<b>Fall</b>	<b>PHYS 2212</b> Physics 2 3-3-4 PHYS 2211	<b>MATH 2401</b> Calculus 3 (Minimum Grade C) 4-0-4 MATH 1502	<b>ME 2016</b> Computing Techniques 3-0-3 MATH 1502, CS 1371	<b>MSE 2001</b> Engineering Materials 3-0-3 CHEM 1310	<b>COE 2001</b> Statics 2-0-2 MATH 1502, PHYS 2211	<b>= 16 hours</b>	
	<b>Spring</b>	<b>ECE 3710</b> Circuits & Electronics 2-0-2 PHYS 2212	<b>MATH 2403</b> Differential Equations (Minimum Grade C) 4-0-4 MATH 1502	<b>ME 2202</b> Dynamics of Rigid Bodies 3-0-3 COE 2001	<b>ME 2110</b> Creative Dec. & Design (See Note 6, No W's) 2-3-3 ME/CEE 1770, COE 2001*, ME 2016*	<b>Science Elect.</b> CHEM 1311 & 1312, BIOL 1510, BIOL 1520, EAS 1600, EAS 1601 or PHYS 2213 X-X-3		<b>= 15 hours</b>
<b>Junior</b>	<b>Fall</b>	<b>ECE 3741</b> Instrument & Electronics Lab 0-3-1 ECE 3710	<b>COE 3001</b> Mechanics of Deformable Bodies 3-0-3 COE 2001, MSE 2001*, MATH 2403*	<b>ME 3322</b> Thermodynamics 3-0-3 PHYS 2211, MATH 2403	<b>ME 3340</b> Fluid Mechanics 3-0-3 ME 2202, ME 3322*	<b>Economics</b> ECON 2100, ECON 2105 or ECON 2106 [ Social Science ] (See Note 5) 3-0-3	<b>Social Science Elective</b> (See Note 9) 3-0-3	<b>= 16 hours</b>
	<b>Spring</b>	<b>ME 3015</b> System Dynamics & Control 4-0-4 ME 2202, ME 2016, MATH 2403, ECE 3710	<b>ME 3345</b> Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2403	<b>MATH/ISYE 3770</b> Statistics 3-0-3 MATH 2401	<b>ISYE 3025</b> Engineering Economics 1-0-1 (ECON 2100, 2105 or 2106)	<b>Ethics</b> HTS 2084, INTA 2030, PST 3105, PST 3109, PST 3127 or PST 4176 (SS or HUM, See Note 1) 3-0-3	<b>Humanities Elective</b> (See Note 9) 3-0-3	
<b>Senior</b>	<b>Fall</b>	<b>Design Elective</b> ME 3180 (Machine Design) or ME 4315 (Energy Sys Design) 3-0-3 ME/CEE 1770, ME 2110 COE3001(3180) or ME3345(4315)	<b>ME 4210</b> Manufacturing Processes & Engineering 3-0-3 ME 3345, MATH/ISYE 3770	<b>ME 3057</b> Experimental Methods Lab (See Note 6, No W's) 2-3-3 COE 3001, ME 3345*, ME 3015, MATH/ISYE 3770*	<b>ME Elective</b> 3000 Level or Above ME Class (See Notes 2 & 8) 3-0-3	<b>Free Elective</b> 2000 Level or Above (See Notes 7 & 8) 3-0-3	<b>= 15 hours</b>	
	<b>Spring</b>	<b>ME 4053</b> ME Systems Lab (See Note 6, No W's) 1-2-2 ME 3057, ME 3345, MATH/ISYE 3770	<b>ME 4182</b> Capstone Design (See Note 6, No W's) 1-6-3 ME 2110, ME 4210*, (ME 3180 or ME 4315)	<b>ME Elective</b> 3000 Level or Above ME Class (See Notes 2 & 8) 3-0-3	<b>Social Science or Humanities Elective</b> (See Notes 3 & 9) 3-0-3	<b>Free Elective</b> 2000 Level or Above (See Notes 7 & 8) 3-0-3		<b>= 14 hours</b>

## 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 this class. 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>

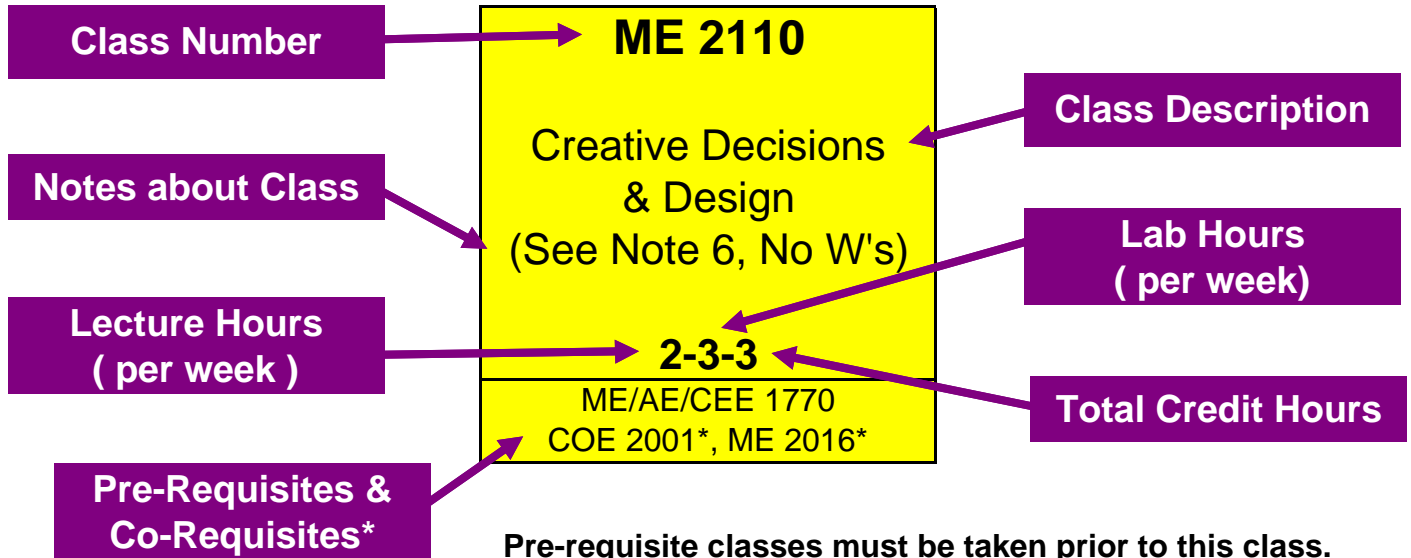
\* Class co-requisites have an asterisk (\*) after the class. These classes can be taken at the same time.

**126 Total Hours**

## Graduation 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.
- ME GPA (including all ME and COE classes) must be greater than 2.00.

# Undergraduate Curriculum Sheet Explained



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

## Pre-Requisite Warning

The ME curriculum contains a 7 semester pre-requisite chain!!

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

\*\* Students who wish to take ME 4315 for the design elective, have an 8 semester pre-req sequence as shown on the curriculum guide. Students may take ME 3180 as the ME design elective, and then ME 4315 as an ME elective.