ME Undergraduate Curriculum: International Plan (2006-2007)

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	Language 2nd Level [Humanities] (See Note 9) 3-0-3	= 17 hours
PHYS 2211 Physics 1 <u>3-3-4</u> MATH 1502*	MATH 1502 Calculus 2 (Minimum Grade C) 4-0-4 MATH 1501	ME/CEE 1770 Engineering Graphics (See Note 2, No W's) 2-3-3	ENGL 1102 English Composition 2 [Humanities] <u>3-0-3</u> ENGL 1101	Language 3rd Level [Humanities] (See Note 9) 3-0-3	= 17 hours
PHYS 2212 Physics 2 3-3-4 PHYS 2211 ECE 3710 Circuits & Electronics 2-0-2	MATH 2401 Calculus 3 (Minimum Grade C) 4-0-4 MATH 1502 MATH 2403 Differential Equations (Minimum Grade C) 4-0-4	ME 2016 Computing Techniques 3-0-3 MATH 1502, CS 1371 ME 2202 Dynamics of Rigid Bodies 3-0-3	COE 2001 Statics 2-0-2 MATH 1502, PHYS 2211 ME 2110 Creative Dec. & Design (See Note 2, No W's) 2-3-3 ME/CEE 1770,	Language 4th Level [Free Elective] (See Notes 3, 4 & 9) 3-0-3 MSE 2001 Engineering Materials 3-0-3	= 16 hours = 15 hours
COE 3001 Mechanics of Deformable Bodies <u>3-0-3</u> COE 2001, MSE 2001*, MATH 2403*	ME 3322 Thermo- dynamics 3-0-3 PHYS 2211, MATH 2403	ME 3340 Fluid Mechanics 3-0-3 ME 2202, ME 3322*	Regional or Country Elect. [Free Elective] (See Notes 1, 3, 4, 5 & 6) 3-0-3	Global Economics [Social Science] (See Notes 1, 5 & 6) 3-0-3	= 15 hours
ME 3015 System Dynamics & Control 4-0-4 ME 2202, ME 2016, MATH 2403, ECE 3710	ME 3345 Heat Transfer <u>3-0-3</u> ME 3322, ME 3340, MATH 2403	MATH/ISYE 3770 Statistics 3-0-3 MATH 2401	Ethics HTS 2084 or INTA 2030 [Social Science] (See Note 7) 3-0-3	International Relations [Social Science] (See Notes 1 & 5) 3-0-3	= 16 hours
Design Elective ME 3180 (Machine Design) or ME 4315 (Energy Sys Design) <u>3-0-3</u> ME/CEE 1770, ME 2110 COE3001(3180) or ME3345(4315)	ME 4210 Manufacturing Processes & Engineering <u>3-0-3</u> ME 3345, MATH/ISYE 3770	ME 3057 Experimental Methods Lab (See Note 2, No W's) <u>2-3-3</u> COE 3001, ME 3345*, ME 3015, MATH/ISYE 3770*	ISYE 3025 Engineering Economics 1-0-1 (ECON 2100, 2105, 2106 or Global Econ)	HPS 1040 Wellness 2-0-2	HISTORY HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBP 3000 [Social Science] 3-0-3
ME 4053 ME Systems Lab (See Note 2, No W's) <u>1-2-2</u> ME 3057, ME 3345, MATH/ISYE 3770	ME 4179 International Capstone Dsgn (See Notes 2 & 5, No W's) <u>1-6-3</u> ME 2110, ME 4210*, (ME 3180 or ME 4315)	ME Elective 3000 Level or Above ME Class (See Notes 4 & 8) 3-0-3	ME Elective 3000 Level or Above ME Class (See Notes 4 & 8) 3-0-3	ECE 3741 Instrument & Electronics Lab 0-3-1 ECE 3710	Science Elect. CHEM 1311 & 1312, BIOL 1510, BIOL 1520, EAS 1600, EAS 1601 or PHYS 2213 X-X-3 126 Total Hours
	General Chemistry 3-3-4 PHYS 2211 Physics 1 3-3-4 MATH 1502* PHYS 2212 PHYS 2212 Physics 2 3-3-4 MATH 1502* PHYS 2212 Physics 2 3-3-4 PHYS 2212 Circuits & Electronics 2-0-2 PHYS 2212 OCE 3001 Mechanics of Deformable Bodies 3-0-3 COE 2001, MSE 2001*, MATH 2403* ME 3015 System Dynamics & Control 4-0-4 ME 2002, ME 2016, MATH 2403* ME 3180 (Machine Design) or ME 4315 (Energy Sys Design) 3-0-3 ME/CEE 1770, ME 2110 COE3001(1300 or ME 3345(6315) ME Systems Lab (See Note 2, No W's) 1-2-2 ME 3057, ME 3345,	General ChemistryCalculus 1 (Minimum Grade C) 4-0-43-3-4MATH 1502Physics 1Calculus 2 (Minimum Grade C) 3-3-43-3-4MATH 1501Physics 1MATH 2401 Calculus 3 (Minimum Grade C) 4-0-4Physics 2MATH 1501Physics 2(Minimum Grade C) 4-0-43-3-44-0-4Physics 2MATH 1501Physics 2MATH 1502Calculus 3 (Minimum Grade C) 4-0-4Calculus 3 (Minimum Grade C) 4-0-4PHYS 2211MATH 1502ECE 3710 Circuits & ElectronicsMATH 2403 Differential Equations (Minimum Grade C) 4-0-4PHYS 2212MATH 1502Mechanics of Deformable Bodies 3-0-3ME 3322 Thermo- dynamics 3-0-3COE 2001, MSE 2001*, MATH 2403ME 3345 Heat Transfer 3-0-3ME 3015 System Dynamics & ControlME 3345 Heat Transfer 3-0-3ME 3180 (Machine Design) or ME 4315 (Energy Sys Design) G-3-3ME 4210 Math 2403ME 4053 ME Systems Lab (See Note 2 & 5, No Ws) (See Note 2 & 5, No Ws) (See Note 2 & 5, No Ws) (See Note 2 & 5, No Ws)ME 3057, ME 3345, (See Note 2 & 5, No Ws)ME 2110, ME 4210*,	General Chemistry 3-3-4Calculus 1 (Minimum Grade C) 4-0-4Introduction to Computing 3-0-3PHYS 2211 Physics 1 3-3-4MATH 1502 Calculus 2 (Minimum Grade C) 4-0-4ME/CEE 1770 Engineering Graphics (See Note 2, No Ws) 2-3-3PHYS 2212 PHYS 2211MATH 1501ME 2016 Calculus 3 (Minimum Grade C) 3-3-4ME 2016 Computing Techniques 3-0-3PHYS 2211 Physics 2MATH 1502ME 2016 Calculus 3 (Minimum Grade C) 3-3-4ME 2016 Computing Techniques 3-0-3PHYS 2211 Circuits & Electronics 2-0-2MATH 2403 Differential Equations (Minimu Grade C) 4-0-4ME 2022 Dynamics of Rigid Bodies 3-0-3MCCE 3001 Mechanics of Deformable Bodies 3-0-3ME 3322 A-0-3ME 3340 Fluid Mechanics 3-0-3ME 3015 System Dynamics & Control MATH 2403ME 3345 MATH 2403MATH/ISYE 3770 Experimental Met 3345ME 3015 ME 3180 (MATH 2403ME 3345 MATH 2403MATH/ISYE 3770 MATH 2403Design Elective MATH 2403 (Math 2403ME 3057 ME 3045 MATH 2403ME 3057 ME 3045 MATH 2403ME 4053 (See Note 2, No Ws) 1-2-3ME 4210 ME 4345 (See Note 2, No Ws) 3-0-3ME 4210 ME 2355, No Ws) ME 2015, MATH/ISYE 3770ME 4035 (See Note 2, No Ws) 1-2-2ME 4345 ME 2355, ME 43179 ME 2355, ME 4345, ME 2310, ME 4345, MATH/ISYE 3770ME Elective 3000 Level or Above ME Class (See Note 2, No Ws) 3-0-3	General Chemistry 3-3-4Calculus 1 (Minimum Grade C) 4-0-4Introduction to Computing 3-0-3English Composition 1 [Humanities] 3-0-3PHYS 2211 Physics 1 3-3-4MATH 1502 Calculus 2 (Minimum Grade C) MATH 1501ME/CEE 1770 Calculus 2 (Minimum Grade C) 3-3-4ENGL 1102 Engineering Graphics (See Note 2, No Ws) 2-3-3ENGL 1102 English Composition 2 English Composition 2 (Humanities] 3-0-3PHYS 2212 PHYS 2212 PHYS 2211MATH 4201 Calculus 3 (Minimum Grade C) 4-0-4ME 2016 Computing Techniques 3-3-3COE 2001 Statics 2-0-2PHYS 2211 Circuits & Electronics CoE 3001 Mechanics of Deformable Bodies 3-0-3MATH 4203 CoE 2011ME 2012 MATH 1502ME 2012 Coe 2011COE 3001 Mechanics of Deformable Bodies 3-0-3ME 3340 ME 3345ME 3340 MATH 1502ME 2012 Coe 2011ME 2016 Coe 2011Coe 2011 Creative Dec. & Design (Smith 2007) (See Note 2, No Ws) 3-0-3ENGL 110 Creative Dec. & Design (Smith 2007) (See Note 2, No Ws) 3-0-3ME 3340 ME 2022ME 2022 ME 2021ME 2016 Coe 2001ME 2016 Coe 2001Coe 2001 Coe 2001 (See Note 3, 4, 5, 6, 6) 3-0-3Design Elective (Math 2037) (Math 2037) (Math 2038) (Math 2038)ME 4335 MATH 2030 (See Note 3, 4, 5, 6, 6) 3-0-3ME 4336 Coe 2031ME 4336 (See Note 3, 4, 5, 6, 6) 3-0-3Ethics Engineering Engineering 2-3-3ISYE 3025 Engineering Engineering 2-3-3Design Elective Legines (Math 2038) (Math 2038)ME 4179 Mat 2030 	General Chemistry 3-3-4Calculus 1 (Minimum Grade C) 4-0-4Introduction to Computing 3-0-3English Composition 1 (Humanities)Language 2nd Level (Humanities)PHYS 2211 Physics 1MATH 1502 Calculus 2 (Minimum Grade C)ME/CEE 1770 Engineering Graphics (Be Note 2, No WS)ENGL 1102 Engineering (Be Note 2, No WS)Language Srd Level (Humanities)PHYS 2212 Physics 2 (Minimum Grade C) 3-3-4 PHYS 2211MATH 2401 Calculus 3 (Minimum Grade C)ME 2016 Computing TechniquesCOE 2001 StaticsLanguage Srd Level (Humanities)PHYS 2212 Physics 2 Calculus 3 (Minimum Grade C) 2-0-2MATH 2401 Calculus 3 (Minimum Grade C)ME 2016 Computing TechniquesCOE 2001Language (Be Note 2, No WS)ECE 3710 Clircults & Electronics Lectonics 4 Electronics 4 Deformable Bodies 3-0-3MATH 1502 (Math 1502, CS 1371ME 2100 (Math 1502, CS 1371ME 2100 (Math 1502, CS 1371COE 3001 Mechanics of Deformable Bodies 3-0-3ME 3340 (Math 1502, CS 1371ME 2100 (Math 1502, CS 1371ME 2100 (Math 1502, CS 1371COE 3001 Mechanics of Deformable Bodies 3-0-3ME 3340 (Mechanics of ME 2301, ME 2101, MATH 2403) (Mechanics of S 0-3-3ME 3340 (Math 1502, CS 1371ME 3340 (Math 1502, CS 1371ME 3015 ME 3015ME 3345 (Math 1502, CS 1371ME 3340 (Math 260, CS 300, ME 3010, SC 2004 or (Math 260, SG 3-0-3)ME 3340 (Math 260, SG 3-0-3)Global Economics (See Notes 1, 56 6) 3-0-3COE 3001, ME 3010, ME 3010, ME 3010, ME 301

- 1. Classes which satisfy the international plan are found at:
- http://www.registrar.gatech.edu/degreg/internationalplan.php 2. ME 1770, 2110, 3057, 4053 and 4182 cannot be dropped after registration closes without documented reasons
- 3. Free electives must be at the 2000 level or above, no exceptions.
- 4. Free Electives & ME Electives may not duplicate any other material used for your BSME
- 5. Each course for the international plan must have a minimum grade of C, and an average GPA of 3.0 This includes Global Econ, Country/Regional Elect, Int'l Relations and Int'l Capstone
- 6. Either Global Economics or Country & Regional Elective must be a social science.
- 7. If Global Economics and Country/Regional Elective are both social science electives, then ethics
- may be selected from PST 3105, PST 3109, PST 3127, PST 4176, HTS 2084 or INTA 2030. ME Electives are any 3000 level ME class or above, excluding ME 3720. Students who take both 8.
- ME 3180 and ME 4315 may use one class for the design elective and the other class for an ME Elective 9. Language classes are not required if students can demonstrate proficiency in language. If language classes
- are not required, then indicated electives must be taken instead (humanities or free electives)
- Class co-requisites have an asterick (*) after the class. Pre-reqs do not have an asterick behind the class.

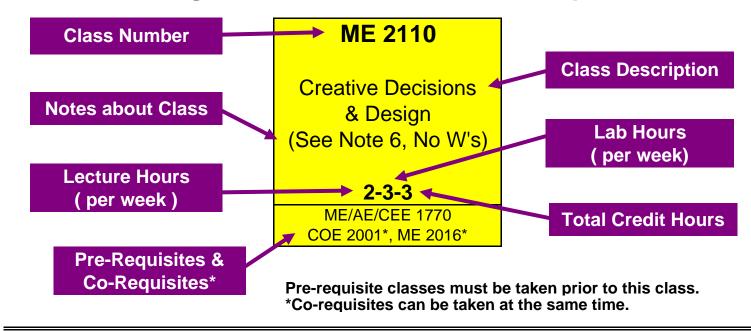
Graduation Requirements

- 1. All classes must be taken as LETTER GRADE.
- 2. Minimum grade of D required for each class, except as noted.
- 3. Overall GPA must be greater than 2.00.
- 4. ME GPA (including all ME and COE classes) must
- be greater than 2.00.
- 126 Total Hours

Rev. 3

8/17/06

Undergraduate Curriculum Sheet Explained



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.