R5 <u>3/18/15</u>	ME Interna	tional Plan (II	P) Undergrad	luate Curricu	lum (Cataloo	: 2010-11)
Freshman Ind Fall	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
Fres 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	= 17 hours
omore 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 4) 3-0-3	= 16 hours
Sophomore Spring Fa	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
	COE 3001 Mechanics of Deformable Bodies 3-0-3 COE 2001, MATH 2403*	ME 3322 Thermo- dynamics 3-0-3 PHYS 2211, MATH 2403	ME 3340 Fluid Mechanics <u>3-0-3</u> ME 2202, ME 3322*, MATH 2403	Free Elective IP Regional or Country Elective (See Notes 2, 4 & 7) 3-0-3	Economics IP Global Economics (See Notes 2 & 7) 3-0-3	= 15 hours
Junior - ABROAD Spring Fall	ME 3017 System Dynamics <u>3-0-3</u> ME 2202, ME 2016,	ME 3345 Heat Transfer <u>3-0-3</u> ME 3322, ME 3340,	MATH 3670 Statistics (ISYE 3770 is also accepted) 3-0-3	Ethics INTA 2030 or HTS 2084 (See Note 8) 3-0-3	Social Science IP International Relations Elective (See Note 2)	= 16 hours
	MATH 2403, ECE 3710	MATH 2403	MATH 2401		3-0- 3	= 15 hours
lior Fall	Design Elective ME 3180 or ME 4315 (3180: Machine Design, 4315: Energy Sys Dsgn) 3-0-3 ME 2110, ME 3345 (for ME 4315 only), COE 3001 (for ME 3180 only)	ME 3210 Design, Materials & Manufacture 3-0-3 MSE 2001, ME 2110	ME 3057 Experimental Methods Lab (See Note 1, No W's) 2-3-3 COE 3001, ME 3340, ME 3017*, ME 3345*, MATH 3670*	ISYE 3025 Engineering Economics 1-0-1 (ECON 2100, 2101, 2105 or 2106)	HISTORY HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBP 3000 (Soc Sci, See back page) 3-0-3	HPS 1040 Wellness 2-0-2
Senior Spring	ME 4056 ME Systems Lab (See Note 1, No W's) 2-3-3 ME 3057, ME 3345,	ME 4182 IP Capstone Design (See Note 1, No W's) 1-6-3 COE 3001, ME 3345, ME2110, ME3210, ME3017	ME Elective 3000 Level or Above ME Class (See Note 3 & back) 3-0-3	ME Elective 3000 Level or Above ME Class (See Note 3 & back) 3-0-3	Science Elect. CHEM 1311, PHYS 2213, BIOL 1510, BIOL 1520, EAS 1600 or EAS 1601 X-X-3	ECE 3741 Instrument & Electronics Lab 0-3-1 ECE 3710
NOTES	ME 3017, MATH 3670	MATH 3670, Design Elect.				
 ME Cla ME ele Free 	 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.catalog.gatech.edu/specialacademic/international.php ME Electives are any 3000 level ME class or above, excluding ME 3141, 3720, 3743, 3744, 3753, 4741, 4742 & 4753. Students may take both design electives (ME 3180 & ME 4315); one class will be the design elective and one an ME Elective. See backside for more information about ME electives. Free Electives must be 2000 level or above and may not duplicate any other material used for your BSME. CHEM 1211K can substitute for CHEM 1310. CHEM 1211K & 1212K are recommended for pre-health students. A. All classes must be taken LETTER GRADE. 					

CHEM 1211K can substitute for CHEM 1310. CHEM 1211K & 1212K are recommended for pre-health students. A. All classes must be taken LETTER GRADE. CHEM 1212K can sbustitute for the Science Elective for students who take CHEM 1211K in place of CHEM 131 B. Minimum grade of D required for each class, 5. 6. Credit is awarded for Econ 2100, Econ 2101 or (Econ 2105 and/or Econ 2106).

- 7. Either Global Economics or Country & Regional Elective must be a social science.
- 8. 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.

- except as noted. C. Overall GPA must be greater than 2.00 to
- D. ME GPA (includes all ME and COE classes) must be greater than 2.00 at graduation.

Undergraduate Curriculum Sheet Explanation							
Understanding the Curriculum	Core Classes						
Class Number Notes about Class Lecture Hours (per week) Pre-Requisites & Co-Requisites: These classes must be completed before y class. *Co-requisites: These classes can be taken at the same tir	Class Description Lab Hours (per week) Total Credit Hours	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, 2101, 2105 or 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) INTA 2030 (Social Science) PST 3109 (Humanities) HTS 2084 (Social Science) PST 3107 (Humanities) HTS 2084 (Social Science) ** Note - Credit is only awarded for one of INTA 1200 and POL 1101, not both. Classes are exactly the same. Electives: Classes that satisfy social science electives and humanities electives can be found at:					
You must register for the co-req first to avoid registration err	I	http://www.catalog.gatech.edu/students/ugrad/core/core.php					
ME Electives							
 ME Electives: A list of ME Electives (including their pre-reqs) offered each semester <u>can be found here</u>. ME 3141, 3720, 3743, 3744, 3753, 4741, 4742 & 4753 are NOT allowed to be used for ME electives. 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:							
 <u>http://www.me.gatech.edu/docs/special_problem_form.pdf</u> 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: Bio	medical Engineering	Materials Science and Engineering Mathematics					
	th and Atmospheric Sc						
	Pre-Requisi	ites					
 The ME curriculum has a 7 or 8 semester pre-requisite chain, depending on the design class selected. Students can select either ME 3180 or ME 4315 for the design elective. More students select ME 3180. Pre-reqs are strictly enforced in ME. Carefully plan your schedule and have it checked by an advisor. 							
Upon completion of these classes, you will have a							
		naining until graduation.					
Machine Design (ME 3180)	Minimum #	Energy Systems Design (ME 4315)					
for the Design Elective	of Semesters	for the Design Elective					
	7	MATH 1501					
MATH 1501	6	MATH 1502, PHYS 2211					
MATH 1502, PHYS 2211	5	COE 2001					
COE 2001	4	ME 2202, MATH 2401, MATH 2403					
MATH 2401, MATH 2403, PHYS 2212,	0	ME 1770, ME 3322, ME 3340, CS 1371,					
ME 2202, CS 1371, ME 1770, CHEM 1310	3	PHYS 2212, CHEM 1310					
ME 2110, ME 3322, ME 3340, ME 2016 ECE 3710, COE 3001, MSE 2001	2	COE 3001, ME 2110, ME 3345, ME 2016, ECE 3710, MSE 2001					
ME 3180, ME 3057, ME 3345, ME 3017		ME 4315, ME 3017, ME 3057, ME 3210,					
ME 3210, MATH 3670	1	MATH 3670					
ME Elect, ME 4182, ME 4056, ECE 3741, ISYE 3025	0	ME Elect, ME 4182, ME 4056, ISYE 3025, ECE 3741					