ME Undergraduate Curriculum (Catalog: 2021 - 2022)

JIII/202	ME Undergraduate Curriculum (Catalog: 2021 - 2022)						
1st Year Spring Fall	3-3-4 PHYS 2211	MATH 1551 Differential Calculus (Minimum Grade C) 2-0-2 MATH 1552 Integral Calculus (Minimum Grade C) 4-0-4 MATH 1551	MATH 1553 Linear Algebra (Minimum Grade C) 2-0-2 CS 1371 Computing for Engineers 3-0-3	Legislative HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBP 3000 [Social Science] 3-0-3 ME 1670 Engineering Graphics & Design (See Note 3, No W's) 2-3-3	ENGL 1101 English Composition 1 3-0-3 ENGL 1102 English Composition 2 3-0-3 ENGL 1101	Wellness APPH 1040, 1050 or 1060 2-0-2 = 16 hours = 17 hours	
2nd Year Spring Fall	PHYS 2212 Physics 2 3-3-4 PHYS 2211 ECE 3710 Circuits & Electronics 2-0-2 PHYS 2212	MATH 2551 Multivariable Calculus (Minimum Grade C) 4-0-4 MATH 1552, MATH 1553 4 MATH 2552 Differential Equations (Minimum Grade C) 4-0-4 MATH 1552, MATH 1553 4	ME 2110 Creative Decisions and Design (See Note 3, No W's) 2-3-3 ME 1670, COE 2001* ME 2016 Computing Techniques 3-0-3 MATH 1552, MATH 1553,	MSE 2001 Engineering Materials 3-0-3 CHEM 1310 ME 2202 Dynamics of Rigid Bodies 3-0-3 COE 2001, MATH 1553*	COE 2001 Statics (Minimum Grade C) 2-0-2 MATH 1552, PHYS 2211 Social Science Elective (See Page 2) 3-0-3 3	= 16 hours = 15 hours = 16 hours	
3rd Year Spring Fall	ECE 3741 Instrument & Electronics Lab 0-3-1 ECE 3710 ME 3017 System Dynamics	COE 3001 Mechanics of Deformable Bodies 3-0-3 COE 2001, MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552	MATH 2552*, CS 1371 ME 3322 Thermo- dynamics 3-0-3 PHYS 2211, MATH 2552 ME 3057 Experimental Methods Lab (See Note 3, No W's) 2-3-3 COE 3001, ME 3340, ME 3017*, ME 3345*, MATH 3670*	ME 3340 Fluid Fluid Mechanics 3-0-3 ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106	Economics ECON 2100, 2101, 2105, or 2106 (See Note 1) 3-0-3 MATH 3670 Statistics & Applications 3-0-3 MATH 2551	Humanities Elective (See Page 2) 3-0-33Social Science Elective (See Page 2) 3-0-33	
4th Year pring Fall	Design Elective ME 3180 or ME 4315 3180: Machine Design 4315: Energy Sys Design 3-0-3 ME 2110, ME 3345 (for ME 4315 only), COE 3001 (for ME 3180 only) Capstone Design ME 4182: ME Design or ME 4723: Inter-	ME 3210 Design, Materials & Manufacture 3-0-3 MSE 2001, ME 2110, COE 3001	ME 4056 ME Systems Lab (See Note 3, No W's) 2-3-3 ME 3057, ME 3345, ME 3017, MATH 3670	Free Elective 1000 Level or Above (See Page 2) 3-0-3 3	Free Elective 1000 Level or Above (See Page 2) 3-0-3 3 Free Elective	= 16 hours = 15 hours = 18 hours	
ME ME	of WE 4725, Inter- disciplinary Design (See Note 3, No W's) 2-3-3 3210, (ME 3180 or ME 4315) : 3345, ME 3017, MATH 3670 COE 3001, ME 2110 Overlay Area Ethics (See Page 2) 3-0-3	prior to or at the same tin 1. Economics : Students The only exception is 2. CHEM 1310 : CHEM	ne. s can receive credit for only that students can receive 6 1211K can substitute for CH 7, 4056, 4182 & 4723 canno	2000 Level or Above (See Page 2)	2000 Level or Above (See Page 2) 3 3-0-3 3 be taken 1 2101, ECON 2105 & EC 2105 and ECON 2106. 1 1212K are recommended registration closes without 1	2000 Level or Above (See Page 2) 3-0-3 29 Total Hours ON 2106.	

Undergraduate Curriculum Sheet Explanation - Page 2							
Understanding the Curriculum		GPA & Grade Requirements					
		All classes taken for the BSME degree must be taken					
Class Number	Class	LETTER GRADE. This includes all electives.					
ME 2110		Overall GPA : Must be 2.00 or above (truncated) at graduation.					
Notes about Creative Decisions		Required Grades:					
and Design		- Minimum grade of a D or better is required except as noted.					
Lecture Hours (See Note 3, No Way		 If a pre-requisite for an ME class requires a C or better, the C is required before taking the next class. Ex: A grade of C or 					
(per week) 2-3-3	Total Credit	better is required in COE 2001 before taking ME 2202.					
Pre-Requisites &	Included in 4.	4. Major GPA:					
Co-Requisites* ME 1670, COE 2001*	Major GPA if	- Must be 2.00 or above (truncated) at graduation.					
		Classes used to calculate it are all ME and COE classes					
Pre-requisites: These classes must be	dark color	required by name and number plus MSE 2001, ECE 3710,					
completed before you can take the class.		ECE 3741, ISYE 3025, Design Elective and ME Elective.					
*Co-requisites: These classes can be taken at the s		- Among the courses used to compute this, all courses must be					
the class. You must register for the co-req first to avo	old registration	completed with a C-or-better with the exception up to 9 credit					
errors.	hours, that can be satisfied with a grade of D.						
		verlay Requirement (Ethics)					
Humanities Electives: See http://catalog.gat Social Science Electives: See http://catalog.gat							
-		du/academics/undergraduate/core-curriculum/ethics/					
4. Ethics overlay is taken as a free, humanities							
	ME Electiv						
1. A list of ME Electives offered each semester							
 ME electives are 3000-level or above ME classes, excluding ME 3141, 3700, 3720, 3743, 3744, 4699, 4741, 4742, 4753, 4903 & ME 4803 (patent class). Other excluded classes may be added to the list throughout the year as new courses are created. 							
 Abos (patent class). Other excluded classes ME electives cannot duplicate any material ta 							
		an only be used as free electives (see section below for rules).					
-		Il satisfy the design elective & the other will satisfy the ME					
J. Design Liectives. Students may take both u	Free Electives						
1. Students can use either a max of 6 credits of		ed Project) courses or a max of 6 credits of research / special					
		oth types of courses, a total of 9 credits is allowed.					
		with the exception of 4 hours that may be satisfied with the					
		BIOS 1208/1208L, BIOL 1510, BIOL 1520 or CHEM 1212K.					
3. Free electives may not duplicate any materia							
	trations (Optiona						
		Manufacturing, Mechanics of Materials, Micro- & Nano-					
Engineering, Nuclear Energy, Thermal Fluid & Energ		me.gatech.edu/undergraduate/ug-curr/concentrations					
	Pre-Requisi						
1. The ME curriculum has a 7 or 8 semester pre							
2. Students can select either ME 3180 or ME 43							
		le in advance and have it checked by an advisor!					
		isses, you will have a					
		aining until graduation.					
Machine Design (ME 3180) Minimum # Energy Systems Design (ME 4315)							
for the Design Elective	of Semesters	for the Design Elective					
	7	MATH 1551					
MATH 1551	6	MATH 1552, PHYS 2211					
MATH 1552, PHYS 2211	5	COE 2001, MATH 1553					
COE 2001, MATH 1553	4	ME 2202, MATH 2551, MATH 2552					
MATH 2551, MATH 2552, PHYS 2212,	3	ME 1670, ME 3322, ME 3340, CS 1371,					
ME 2202, CS 1371, ME 1670, CHEM 1310		PHYS 2212, CHEM 1310					
ME 2110, ME 3322, ME 3340, ME 2016		COE 3001, ME 2110, ME 3345, ME 2016,					
	2						
ECE 3710, COE 3001, MSE 2001		ECE 3710, MSE 2001					
ME 3180, ME 3057, ME 3345, ME 3017	1	ME 4315, ME 3017, ME 3057, ME 3210,					
ME 3210, MATH 3670		MATH 3670					
TIRAT TIA AND AND AN ATOO NAT AOPO		ME Elect, ME 4182 or 4723, ME 4056, ISYE 3025,					
ME Elect, ME 4182 or 4723, ME 4056, ECE 3741, ISYE 3025	0	ECE 3741					