ME Undergraduate Curriculum (Catalog: 2020 - 2021)								
1st Year Spring Fall	CHEM 1310         General           General         Chemistry           (See Note 2)         3-3-4           PHYS 2211         Physics 1           (Minimum Grade C)         3-3-4           MATH 1551, MATH 1552*         MATH 1551, MATH 1552*	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 Graphcs & Design (Same as ME 1770) (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 or           APPH 1050           2-0-2           = 16 hours           = 17 hours	
2nd Year g Fall	PHYS 2212           Physics 2           3-3-4           PHYS 2211           ECE 3710	MATH 2551 Multivariable Calculus (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	MSE 2001 Engineering Materials 3-0-3 CHEM 1310 ME 2202	COE 2001 Statics (Minimum Grade C) 2-0-2 MATH 1552, PHYS 2211		= 16 hours	
2 Spring	Circuits & Electronics 2-0-2 PHYS 2212	Differential Equations (Minimum Grade C) 4-0-4 MATH 1552, MATH 1553 4	Computing Techniques 3-0-3 MATH 1552, MATH 1553, MATH 2552°, CS 1371	Dynamics of Rigid Bodies <u>3-0-3</u> COE 2001, MATH 1553*	Social Science Elective (See Page 2) 3-0-3	3	= 15 hours = 16 hours	
rear Fall	ECE 3741 Instrument & Electronics Lab 0-3-1 ECE 3710	COE 3001 Mechanics of Deformable Bodies 3-0-3 COE 2001, MATH 2552*	ME 3322 Thermo- dynamics 3-0-3 PHYS 2211, MATH 2552	ME 3340 Fluid Mechanics <u>3-0-3</u> ME 2202, MATH 2551 MATH 2552, ME 3322*	Economics ECON 2100, 2101, 2105, or 2106 (See Note 1) 3-0-3		Humanities Elective (See Page 2) 3-0-3 3	
3rd Year Spring	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710	ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, 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*	ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106	MATH 3670 Statistics & Applications 3-0-3 MATH 2551		Social Science (See Page 2) 3-0-3 3	
Year Fall	Design Elective           ME 3180 or ME 4315           3180: Machine Design           4315: Energy Sys Design           3-0-3           ME 2110,           ME 2345 (for ME 4315 only),           COE 3001 (for ME 3180 only)	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	= 16 hours = 15 hours = 18 hours	
4th Spring	Constana Design	ME Elective 3000 Level or Above ME Class (See Page 2) 3-0-3	Humanities Elective (See Page 2) 3-0-3 3	Free Elective 2000 Level or Above (See Page 2) 3-0-3 3	Free Elective 2000 Level or Above (See Page 2) 3-0-3	3	Free Elective 2000 Level or Above (See Page 2) 3-0-3 3	
	Overlay Area       NOTES: * Class co-requisites have an asterisk (*) after it. These classes can be taken prior to or at the same time.       129 Total Hours         Ethics							

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	2	• Overall GPA: Must be 2.00 or above (truncated) at graduation.						
Notes about Creative Decisions	3	Required Grades:						
Cloud ve Decisione		- Minimum grade of a D or better is required except as noted.						
and Design		If a pre-requisite for an ME class requires a C or better, the C						
Lecture Hours (See Note 3, No We)	Total Credit	is required before taking the next class. Ex: A grade of C or						
2-3-3	better is required in COE 2001 before taking ME 2202.							
Pre-Requisites &	moradoa m	Major GPA:						
Co-Requisites* ME 1670, COE 2001*		- Must be 2.00 or above (truncated) at graduation.						
Pre-requisites: These classes must be	filled in with dark color	Classes used to calculate it are all ME and COE classes 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 sa	ame time or before	- Among the courses used to compute this, all courses must be						
the class. You must register for the co-req first to avo		completed with a C-or-better with the exception up to 9 credit						
errors.	ia regionation	hours, that can be satisfied with a grade of D.						
	Sciences and O							
Humanities, Social Sciences and Overlay Requirement (Ethics)           1. Humanities Electives: See http://catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-c/								
<ol> <li>Humanities Electives: See <a href="http://catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-c/">http://catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-c/</a></li> <li>Social Science Electives: See <a href="http://catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-e/">http://catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-c/</a></li> </ol>								
Social Science Electives: See <u>http://catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-e/</u> Ethics Overlay: A 3 hour class selected from <u>http://catalog.gatech.edu/academics/undergraduate/core-curriculum/ethics/</u>								
4. Ethics overlay is taken as a free, humanities of		-						
	ME Electiv							
1. A list of ME Electives offered each semester is	s at <u>nttp://www.me.gat</u>	ecn.edu/undergraduate/registration#sp 1 3700 3720 3743 3744 4600 4741 4742 4753 4003 & ME						
<ol> <li>ME electives are 3000-level or above ME classes, excluding ME 3141, 3700, 3720, 3743, 3744, 4699, 4741, 4742, 4753, 4903 &amp; ME 4803 (patent class). Other excluded classes may be added to the list throughout the year as new courses are created.</li> </ol>								
<ul><li>4803 (patent class). Other excluded classes may be added to the list throughout the year as new courses are created.</li><li>3. ME electives cannot duplicate any material taken in other classes used for your BSME degree.</li></ul>								
<ul> <li>A. Research and VIP cannot be used to satisfy the ME Elective. They can only be used as free electives (see section below for rules).</li> </ul>								
-	•	ill satisfy the design elective & the other will satisfy the ME						
	Free Electiv							
1. Students can use either a max of 6 credits of		ed Project) courses or a max of 6 credits of research / special						
problems courses (2699, 4699 & 4903) as free	e electives. If doing be	oth types of courses, a total of 9 credits is allowed.						
<ol> <li>At least 9 hours of free electives must be at the 2000 level or above with the exception of 4 hours that may be satisfied with the</li> </ol>								
		BIOS 1208/1208L, BIOL 1501, BIOL 1520 or CHEM 1212K.						
3. Free electives may not duplicate any material								
		I - Not Required)						
		Manufacturing, Mechanics of Materials, Micro- & Nano-						
Engineering, Nuclear Energy, Thermal Fluid & Energy		.me.gatech.edu/undergraduate/ug-curr/concentrations						
Pre-Requisites								
1. The ME curriculum has a 7 or 8 semester pre-requisite chain, depending on the design class selected.								
2. Students can select either ME 3180 or ME 43								
		ule in advance and have it checked by an advisor!						
Upon completion of these classes, you will have a								
minimum of () semesters remaining 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,		ME 1670, ME 3322, ME 3340, CS 1371,						
ME 2202, CS 1371, ME 1670, CHEM 1310	3							
ME 2202, CS 1371, ME 1870, CHEM 1310 ME 2110, ME 3322, ME 3340, ME 2016	2	PHYS 2212, CHEM 1310 COE 3001, ME 2110, ME 3345, ME 2016,						
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						
ME Elect, ME 4182 or 4723, ME 4056,	0	ME Elect, ME 4182 or 4723, ME 4056, ISYE						
ECE 3741, ISYE 3025	0	3025,						