R12 3/18/15							
lla	CHEM 1310 General Chemistry (See Note 2) 3-3-4	MATH 1501 Calculus 1 (Minimum Grade C) 4-0-4	US Perspective HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBP 3000 [ Social Science ] 3-0-3	Wellness APPH 1040, APPH 1050 or HPS 1040 2-0-2	ENGL 1101 English Composition 1 3-0-3	= 16 hours	
Freshman Spring Fa	PHYS 2211 Physics 1 3-3-4 MATH 1501	MATH 1502 Calculus 2 (Minimum Grade C) 4-0-4 MATH 1501	CS 1371 Introduction to Computing 3-0-3	ME/CEE 1770 Engineering Graphics (See Note 3, No W's) 2-3-3	ENGL 1102 English Composition 2 3-0-3 ENGL 1101	= 17 hours	
Sophomore ring 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 3, No W's) 2-3-3 ME/CEE 1770, COE 2001*	MSE 2001 Engineering Materials 3-0-3 CHEM 1310	COE 2001           Statics           2-0-2           MATH 1502, PHYS 2211	= 16 hours	
Sophc Spring	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 <u>3-0-3</u> CS 1371, MATH 1502, MATH 2403*	Science Elective BIOL 1510, BIOL 1520, EAS 1600, EAS 1601 or PHYS 2213 (See Note 7) X-X-3	= 15 hours = 16 hours	
lunior Fall	ECE 3741 Instrument & Electronics Lab 0-3-1 ECE 3710	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           Fluid         Mechanics           3-0-3         ME 2202, MATH 2403           MATH 2401, ME 3322*         MATH 2401, ME 3322*	Economics ECON 2100, 2101, 2105, or 2106 (See Note 5) 3-0-3	Humanities Elective (See Note 6) 3-0-3	
Ju Spring	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2403, ECE 3710	ME 3345 Heat Transfer <u>3-0-3</u> ME 3322, ME 3340, MATH 2403	MATH 3670           Statistics           (ISYE 3770 is also accepted)           3-0-3           MATH 2401	ISYE 3025 Engineering Economics <u>1-0-1</u> (ECON 2100, 2101, 2105 or 2106)	Social Science Elective (See Note 6) 3-0-3	Humanities Elective (See Note 6) 3-0-3	
lior Fall	Design Elective           ME 3180 or ME 4315           3180: Machine Design           4315: Energy Sys Design           3-0-3           ME 2110,           ME 345 (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 3, No W's)           2-3-3           COE 3001, ME 3340, ME 3017*, ME 3345*, MATH 3670*	ME Elective 3000 Level or Above ME Class (See Note 4) 3-0-3	Free Elective 2000 Level or Above (See Note 1) 3-0-3	= 16 hours = 15 hours	
Senior Spring	ME 4056           ME Systems           Lab           (See Note 3, No W's)           2-3-3           ME 3057, ME 3345,           ME 3017, MATH 3670	ME 4182 Capstone Design (See Note 3, No W's) <u>1-6-3</u> COE 3001, ME 3345, ME2110, ME3210, ME3017, MATH 3670, Design Elect.	ME Elective 3000 Level or Above ME Class (See Note 4) 3-0-3	Social Science Elective (See Note 6) 3-0-3	Free Elective 2000 Level or Above (See Note 1) 3-0-3	= 15 hours	
	* Class co-requisites have a Electives: Free electives r	126 Total Hours					

2. CHEM 1310: CHEM 1211K can substitute for CHEM 1310. CHEM 1211K & 1212K are recommended for pre-health students.

3. ME 1770, 2110, 3057, 4056 & 4182 cannot be dropped after phase 2 registration closes without documented medical reasons.

- 4. ME Elective: Any ME class that is 3000 level or above, excluding ME 3141, 3700, 3720, 3743, 3744,
- 4741, 4742 and 4753. See page 2 for ME Elective requirements and classes available.
- 5. Economics: Students can receive credit for only one of ECON 2100, ECON 2101, ECON 2105 & ECON 2106. The only exception is that students can receive 6 hours credit for both ECON 2105 and ECON 2106.
- 6. Humanities Electives and Social Science Electives: See page 2 for a link to the list of classes.
- 7. Science Elective: CHEM 1212K can satisfy the science elective.

8. Overlay Areas: Global Perspective and Ethics must both be taken as parts of the curriculum. They can be free electives, economics, humanities or social science electives. See page 2 for details.

Required Overlay Areas						
Ethics HTS 2084, INTA 2030, PHIL 3105, PHIL 3109, PHIL 3127, or PHIL 4176 (See Note 8) <b>3-0-3</b>	Global Perspective					

Undergraduate	e Curriculum S	Sheet Explanation - Page 2					
Understanding the Curriculum	Guide	GPA & Grade Requirements					
Class Number	Class	<ul> <li>All classes taken for the BSME degree must be taken LETTER GRADE. This includes all electives.</li> </ul>					
ME 2110		<b>Overall GPA</b> : Must be 2.00 or above (truncated) at graduation.					
Notes about Creative Decisions and Design	Lab Hours	<ul> <li>Required Grades:</li> <li>Minimum grade of a D or better is required except as noted.</li> <li>If a pre-requisite for an ME class requires a C or better, the C</li> </ul>					
(per week)	Total Credit	is required before taking the next class. Ex: A grade of C or better is required in MATH 2403 before taking ME 3322.					
Pre-Requisites & ME/CEE 1770 Co-Requisites*	Major GPA if	<ul> <li>4. Major GPA:</li> <li>- Must be 2.00 or above (truncated) at graduation.</li> </ul>					
Pre-requisites: These classes must be	dark color	<ul> <li>Classes used to calculate it are all ME and COE classes required by name and number plus the Design Elective and</li> </ul>					
completed before you can take the class.		ME Electives.					
*Co-requisites: These classes can be taken at the sa	ame time or before						
the class.							
•		irements (Ethics & Global Perspective)					
<ol> <li>Humanities Electives: A current list is at <u>http</u></li> <li>Social Science Electives: A current list is at</li> </ol>							
3. Overlay Areas: The overlay areas (global pe							
-		lective of social science elective.					
		w.catalog.gatech.edu/students/ugrad/core/gp.php					
	ME Electiv						
1. A list of ME Electives offered each semester is							
		1, 3700, 3720, 3743, 3744, 4741, 4742 & 4753.					
<ol> <li>Design Elective (ME 3180 / ME 4315): Students may take both design electives, ME 3180 &amp; ME 4315. One class will satisfy the design elective and the other class satisfies an ME Elective.</li> </ol>							
		E elective credit. In addition, up to 6 hours of 2699/4699/4903					
from any department may be used as free ele		mation about research is at:					
<ul> <li><u>https://www.me.gatech.edu/undergraduat</u></li> <li>5. Minors: Students who successfully complete</li> </ul>		roved by the MF department are allowed to substitute courses					
required for the minor for up to six hours of MI	5. 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.						
	medical Engineering	Materials Science and Engineering					
	mputing Science	Mathematics					
Biology Ea	Biology Earth and Atmospheric Sciences Nuclear and Radiological Engineering						
1. The ME curriculum has a 7 or 8 semester p	Pre-Requis	ites pending on the design class selected. Plan carefully!					
<ol> <li>Students can select either ME 3180 or ME 43</li> </ol>	-						
	0	le in advance and have it checked by an advisor.					
Upon comple	tion of these cla	asses, you will have a					
minimum of () semesters remaining until graduation.							
Machine Design (ME 3180)	, Minimum #	Energy Systems Design (ME 4315)					
	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,		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		COE 3001, ME 2110, ME 3345, ME 2016,					
ECE 3710, COE 3001, MSE 2001	2	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,		ME Elect, ME 4182, ME 4056, ISYE 3025,					
ECE 3741, ISYE 3025	0	ECE 3741					