R2

ME Undergraduate Curriculum (Catalog: 2018 - 2019)

	8	ME Undergraduate Curriculum (Catalog: 2018 - 2019)					
		CHEM 1310	MATH 1551	MATH 1553		ENGL 1101	
		General	Differential	Linear Algebra	Legislative	English	Wellness
	Fall	Chemistry	Calculus	Lineal Algebia	HIST 2111, HIST 2112, POL 1101, INTA 1200,	Composition 1	APPH 1040 or
II⊆	щ	(See Note 2)	(Minimum Grade C)	(Minimum Grade C)	or PUBP 3000	Composition	APPH 1050
Year		3-3-4	2-0- 2	2-0- 2	[Social Science] 3-0-3	3-0- 3	2-0- 2
		PHYS 2211	MATH 1552	CS 1371	ME 1770	ENGL 1102	= 16 hours
1st	Spring	Physics 1	Integral Calculus		Intro to	English	
		(Minimum Grade C)	(Minimum Grade C)	Computing for Engineers	Engineering Graphics	Composition 2	= 17 hours
		3-3- 4	4-0- 4	Engineers	(See Note 3, No W's)	3-0- 3	= 17 110415
		MATH 1551, MATH 1552*	MATH 1551	3-0- 3	2-3- 3	ENGL 1101	
		PHYS 2212	MATH 2551	ME 2110	MSE 2001	COE 2001	
	g Fall		Multivariable	Creative Decisions	Engineering	Statics	
		Physics 2	Calculus	and Design	Materials		
		0.04	(Minimum Grade C)	(See Note 3, No W's)		(Minimum Grade C)	= 16 hours
B B		3-3-4 PHYS 2211	4-0-4 MATH 1552, MATH 1553	2-3-3 ME 1770, COE 2001*	3-0-3 CHEM 1310	2-0-2 MATH 1552, PHYS 2211	
2nd Year		ECE 3710	MATH 2552	ME 2016	ME 2202	MATH 1932, PH13 2211	
I _E			Differential				
2	Spring	Circuits &	Equations	Computing	Dynamics of	Social Science	= 15 hours
	pri	Electronics	(Minimum Grade C)	Techniques	Rigid Bodies	Elective	
	S	2-0 -2	4-0- 4	3-0- 3	3-0- 3	(See Note 6)	
		PHYS 2212	MATH 1552, MATH 1553	MATH 1552, MATH 1553, MATH 2552*, CS 1371	COE 2001, MATH 1553*	3-0 -3	= 16 hours
	Fall	ECE 3741	COE 3001	ME 3322	ME 3340		
		Instrument &	Mechanics of	Thermo-	Fluid	Economics	Humanities
		Electronics Lab	Deformable	dynamics	Mechanics	ECON 2100, 2101,	Elective
	Ϋ́		Bodies	-		2105, or 2106	
a a		0-3-1	3-0- 3	3-0 -3	3-0- 3	(See Note 5)	(See Note 6)
Ø			COE 2001.				'
_		ECE 3710	COE 2001, MATH 2552*	PHYS 2211, MATH 2552	ME 2202, MATH 2551 MATH 2552, ME 3322*	3-0- 3	3-0-3
٦		ME 3017		PHYS 2211, MATH 2552 ME 3057	ME 2202, MATH 2551	3-0- 3 MATH 3670	'
3rd Y	g	ME 3017	ME 3345	PHYS 2211, MATH 2552 ME 3057 Experimental	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering	MATH 3670 Statistics &	'
3rd Year	ring		MATH 2552*	PHYS 2211, MATH 2552 ME 3057 Experimental Methods Lab	ME 2202, MATH 2551 MATH 2552, ME 3322*	MATH 3670	3-0-3
3rd Y	Spring	ME 3017	ME 3345	ME 3057 Experimental Methods Lab (See Note 3, No W's) 2-3-3	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering	MATH 3670 Statistics &	3-0-3 Social Science
3rd Y	Spring	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016,	ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340,	ME 3057 Experimental Methods Lab (See Note 3, No W's) 2-3-3 COE 3001, ME 3340,	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101,	MATH 3670 Statistics & Applications 3-0-3	3-0-3 Social Science Elective (See Note 6)
3rd Y	Spring	ME 3017 System Dynamics 3-0-3	ME 3345 Heat Transfer 3-0-3	ME 3057 Experimental Methods Lab (See Note 3, No W's) 2-3-3	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1	MATH 3670 Statistics & Applications	3-0-3 Social Science Elective
3rd Y	Spring	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016,	ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340,	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 4056	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106	MATH 3670 Statistics & Applications 3-0-3 MATH 2551	3-0-3 Social Science Elective (See Note 6)
3rd Y	Spring	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 Design Elective ME 3180 or ME 4315	MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210	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 4056 ME Systems	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective	MATH 3670 Statistics & Applications 3-0-3 MATH 2551	3-0-3 Social Science Elective (See Note 6) 3-0-3
3rd Y	Sprin	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 Design Elective ME 3180 or ME 4315 3180: Machine Design	MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210 Design, Materials	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 4056 ME Systems Lab	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or	3-0-3 Social Science Elective (See Note 6) 3-0-3 = 16 hours
3rd Y	Fall Spring	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 Design Elective ME 3180 or ME 4315 3180: Machine Design 4315: Energy Sys Design	MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210 Design, Materials & Manufacture	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 4056 ME Systems Lab (See Note 3, No W's)	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or Above	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or Above	3-0-3 Social Science Elective (See Note 6) 3-0-3
	Fall Sprin	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 Design Elective ME 3180 or ME 4315 3180: Machine Design 4315: Energy Sys Design 3-0-3	MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210 Design, Materials	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 4056 ME Systems Lab (See Note 3, No W's) 2-3-3	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or	3-0-3 Social Science Elective (See Note 6) 3-0-3 = 16 hours
	Fall Sprin	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 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),	MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210 Design, Materials & Manufacture	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 4056 ME Systems Lab (See Note 3, No W's)	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or Above	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or Above	3-0-3 Social Science Elective (See Note 6) 3-0-3 = 16 hours
Year	Fall Sprin	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 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)	MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210 Design, Materials & Manufacture 3-0-3	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 4056 ME Systems Lab (See Note 3, No W's) 2-3-3 ME 3057, ME 3345,	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or Above (See Note 1)	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or Above (See Note 1)	3-0-3 Social Science Elective (See Note 6) 3-0-3 = 16 hours = 15 hours
Year	Fall Sprin	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 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) ME 4182	MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210 Design, Materials & Manufacture 3-0-3	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 4056 ME Systems Lab (See Note 3, No W's) 2-3-3 ME 3057, ME 3345, ME 3017, MATH 3670	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or Above (See Note 1)	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or Above (See Note 1)	3-0-3 Social Science Elective (See Note 6) 3-0-3 = 16 hours = 15 hours
	Fall Sprin	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 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)	MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 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 4056 ME Systems Lab (See Note 3, No W's) 2-3-3 ME 3057, ME 3345, ME 3017, MATH 3670 Humanities	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or Above (See Note 1) 3-0-3	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or Above (See Note 1) 3-0-3	3-0-3 Social Science Elective (See Note 6) 3-0-3 = 16 hours = 15 hours = 18 hours
Year	Fall Sprin	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 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) ME 4182 Capstone Design (See Note 3, No W's)	ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210 Design, Materials & Manufacture 3-0-3 MSE 2001, ME 2110 ME Elective 3000 Level or Above ME Class	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 4056 ME Systems Lab (See Note 3, No W's) 2-3-3 ME 3057, ME 3345, ME 3017, MATH 3670 Humanities Elective	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or Above (See Note 1) 3-0-3 Free Elective 2000 Level or Above	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or Above (See Note 1) 3-0-3 Free Elective 2000 Level or Above	3-0-3 Social Science Elective (See Note 6) 3-0-3 = 16 hours = 15 hours = 18 hours Free Elective 2000 Level or Above
Year	Fall Sprin	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 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) ME 4182 Capstone Design (See Note 3, No W's) 1-6-3	MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210 Design, Materials & Manufacture 3-0-3 MSE 2001, ME 2110 ME Elective 3000 Level or	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 4056 ME Systems Lab (See Note 3, No W's) 2-3-3 ME 3057, ME 3345, ME 3017, MATH 3670 Humanities	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or Above (See Note 1) 3-0-3 Free Elective 2000 Level or	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or Above (See Note 1) 3-0-3 Free Elective 2000 Level or	3-0-3 Social Science Elective (See Note 6) 3-0-3 = 16 hours = 15 hours = 18 hours Free Elective 2000 Level or
Year	Fall Sprin	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 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) ME 4182 Capstone Design (See Note 3, No W's) 1-6-3 COE 3001, ME 3345, ME 2110, ME 3210, ME 3017,	ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210 Design, Materials & Manufacture 3-0-3 MSE 2001, ME 2110 ME Elective 3000 Level or Above ME Class	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 4056 ME Systems Lab (See Note 3, No W's) 2-3-3 ME 3057, ME 3345, ME 3017, MATH 3670 Humanities Elective	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or Above (See Note 1) 3-0-3 Free Elective 2000 Level or Above	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or Above (See Note 1) 3-0-3 Free Elective 2000 Level or Above	3-0-3 Social Science Elective (See Note 6) 3-0-3 = 16 hours = 15 hours = 18 hours Free Elective 2000 Level or Above
4th Year	Spring Fall Sprin	ME 3017 System Dynamics 3-0-3 ME 2202, ME 2016, MATH 2552, ECE 3710 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) ME 4182 Capstone Design (See Note 3, No W's) 1-6-3 COE 3001, ME 3345, ME 2110, ME 3210, ME 3017, MATH 3670, Design Elective	MATH 2552* ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340, MATH 2552 ME 3210 Design, Materials & Manufacture 3-0-3 MSE 2001, ME 2110 ME Elective 3000 Level or Above ME Class (See Note 4) 3-0-3	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 4056 ME Systems Lab (See Note 3, No W's) 2-3-3 ME 3057, ME 3345, ME 3017, MATH 3670 Humanities Elective (See Note 6)	ME 2202, MATH 2551 MATH 2552, ME 3322* ISYE 3025 Engineering Economics 1-0-1 ECON 2100, 2101, 2105 or 2106 Free Elective 1000 Level or Above (See Note 1) 3-0-3 Free Elective 2000 Level or Above (See Note 1) 3-0-3	MATH 3670 Statistics & Applications 3-0-3 MATH 2551 Free Elective 1000 Level or Above (See Note 1) 3-0-3 Free Elective 2000 Level or Above (See Note 1) 3-0-3	3-0-3 Social Science Elective (See Note 6) 3-0-3 = 16 hours = 15 hours = 18 hours Free Elective 2000 Level or Above (See Note 1)

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, 4699, 4741, 4742, 4753 and 4903. See backside for ME Elective requirements and a link to class options.
- 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 backside for a link to the list of classes.

7. Ethics Overlay is taken as part of the curriculum as a free elective, humanities or social science elective. See backside for details.

Overlay Area **Ethics** (See Note 7) 3-0-**3**

http://www.me.gatech.edu/undergraduate/ug-curr

Undergraduate Curriculum Sheet Explanation - Page 2 Understanding the Curriculum Guide Class Number Class ME 2110 **Notes about Creative Decisions** Lab Hours and Design **Lecture Hours** (See Note 3, No W') **Total Credit** (per week) 2-3-**3 Pre-Requisites &** Included in ME 1770, COE 2001* Co-Requisites* **Major GPA if** filled in with dark color Pre-requisites: These classes must be completed before you can take the class.

*Co-requisites: These classes can be taken at the same time or before

the class. You must register for the co-req first to avoid registration

errors.

GPA & Grade Requirements

- 1. All classes taken for the BSME degree must be taken LETTER GRADE. This includes all electives.
- 2. Overall GPA: Must be 2.00 or above (truncated) at graduation.
- 3. Required Grades:
- Minimum grade of a D or better is required except as noted.
- 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 better is required in COE 2001 before taking ME 2202.

4. Major GPA:

- Must be 2.00 or above (truncated) at graduation.
- Classes used to calculate it are all ME and COE classes required by name and number plus MSE 2001, ECE 3710, ECE 3741, ISYE 3025, Design Elective and ME Elective.
- Among the courses used to compute this, all courses must be completed with a C-or-better with the exception up to 9 credit hours, that can be satisfied with a grade of D.

Humanities, Social Sciences and Overlay Requirement (Ethics)

- Humanities Electives: See http://catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-c/
- Social Science Electives: See http://catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-e/
- 3. Ethics Overlay: A 3 hour class selected from http://catalog.gatech.edu/academics/undergraduate/core-curriculum/ethics/

ME Electives

- A list of ME Electives offered each semester is at http://www.me.gatech.edu/undergraduate/registration#sp
- ME electives are 3000-level or above ME classes, excluding ME 3141, 3700, 3720, 3743, 3744, 4699, 4741, 4742, 4753 & 4903. Other excluded classes may be added to the list throughout the year as new courses are created.
- ME electives cannot duplicate any material taken in other classes used for your BSME degree.
- Design Electives: Students may take both design electives. One class will satisfy the design elective and the other class can satisfy an ME Elective or Free Elective.

Free Electives

- Students can use either a max of 6 credits of VIP courses (ECE 2811, 381X, 481X) or a max of 6 credits of research / special problems courses (2699, 4699 & 4903) as free electives. If doing both types of courses, a total of 9 credits is allowed.
- 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 one of the following: BIOL 1510, BIOL 1520, or CHEM 1212K.
- Free electives may not duplicate any material taken in other classes used for your BSME degree.

Concentrations (Optional - Not Required)

Concentrations: Automation & Robotics, Automotive Engineering, Design, Manufacturing, Mechanics of Materials, Micro- & Nano-Engineering, Nuclear Energy, Thermal Fluid & Energy System See: www.me.gatech.edu/undergraduate/ug-curr/concentrations

Pre-Requisites

- 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-regs are strictly enforced in ME. Carefully plan your schedule 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) **Energy Systems Design (ME 4315)** Minimum # 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 ME 1770, ME 3322, ME 3340, CS 1371. MATH 2551, MATH 2552, PHYS 2212, 3 ME 2202, CS 1371, ME 1770, CHEM 1310 PHYS 2212, CHEM 1310 COE 3001, ME 2110, ME 3345, ME 2016, ME 2110, ME 3322, ME 3340, ME 2016 2 ECE 3710, COE 3001, MSE 2001 ECE 3710, MSE 2001 ME 3180, ME 3057, ME 3345, ME 3017 ME 4315, ME 3017, ME 3057, ME 3210, 1 ME 3210, MATH 3670 **MATH 3670** ME Elect, ME 4182, ME 4056, ISYE 3025, ME Elect, ME 4182, ME 4056, 0 ECE 3741, ISYE 3025 **ECE 3741**