

Name: _____

Exp. Grad.: Fall _____ / Spring _____

**Mechanical Engineering
Curriculum by Semester**
(For students entering Fall 2017 – Spring 2018)

Semester 1		Semester 2		Semester 3		Semester 4	
Course (cr. hr.)	X	Course (cr. hr.)	X	Course (cr. hr.)	X	Course (cr. hr.)	X
CHEM 105 (4)		CHEM 106 (4)		CEMS 214 (3)		ENGR 110 (4)	
ENGL 101 (4)*** (If needed)		ENGR 104 (2)		ENGR 360 (0)		ENGR 220 (4)	
ENGR 101 (2)		ENGR 160(0)		MATH 253 (4)		ENGR 360 (0)	
ENGR 102 (2)		MATH 152 (4)		MECH 211 (3)		MATH 271 (3)	
ENGR 160 (0)		PHYS 125 (4)		PHYS 126 (4)		MECH 212 (3)	
MATH 151 (4)		ENGR 11x* (1)		Hum/SS/Arts (4)		MECH 241 (3)	
Hum/SS/Arts (4)		ENGR 11x* (1)					
		*Select 2 ENGR 111-116 Engr Explorations Labs					
Total (16)		Total (16)		Total (18)		Total (17)	

***Credits do not count towards graduation

Semester 5		Semester 6		Semester 7		Semester 8	
Course (cr. hr.)	X	Course (cr. hr.)	X	Course (cr. hr.)	X	Course (cr. hr.)	X
ENGR 305 (3)		ENGR 395 (2)		ENGR 360 (0)		ENGR 360 (0)	
ENGR 306 (2)		ENGR 360 (0)		ENGR 490 (2)		ENGR 490 (2)	
ENGR 360 (0)		MATH 371 (4)		MECH 343 (2)		MECH 327 (2)	
MECH 320 (3)		MECH 321 (3)		MECH 366 (3)		MECH Elect. (3)	
MECH 324 (3)		MECH 326 (3)		MECH 417 (3)		TECH Elect. (3)	
MECH 362 (3)		MECH 364 (3)		TECH Elect. (3)		Hum/SS/Arts (4)	
Hum/SS/Arts (4)		MECH Elect. (3)					
Total (18)		Total (18)		Total (13)		Total (14)	

Additional Requirements:

1. AU Global Perspective
2. AU Physical Education Requirement
3. SOE Minimum Credit Requirement: At least 128 credits, excluding physical education
4. SOE GPA requirement and 'D' policy
5. SOE Written Communication Requirement: Typically ENGL 101 and ENGR 110. Some students may be exempt from ENGL 101, which does not count towards the minimum credits required for graduation.
6. SOE Humanities/Social Science/Arts Requirement

[Current SOE requirements](#)[Degree Evaluation](#)**Definitions of Electives:**

BIOL Electives: BIOL 302, BIOL 307, BIOL 308, BIOL 365, BIOL 402, BIOL 420, BIOL 422

MECH Electives: CEMS 336, RNEW 310, RNEW 322, RNEW 431, RNEW 432, RNEW 468, and any non-required 400 level courses designated MECH

Technical Electives: (1) Most 300- and 400-level courses designated CEMS, CHEM, ENGR, MATH, MECH, PHYS, or RNEW. Exceptions include MATH 331 and some special topic courses. (2) One of FIN 348 **OR** MGMT 328 for all majors except BME; (3) BIOL Electives listed above for BME only, (4) CEMS 203 for MSE majors only

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**Mechanical Engineering
Progress toward Degree (1/2)**
(For students entering Fall 2017 – Spring 2018)

Directions: Before submitting an *Application for Graduation* to the Registrar's Office, students should complete this *Progress toward Degree Form* in consultation with their advisor.

Written Communication Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
ENGL 101 or equivalent	0		
ENGR 110 – Technical Comm.	4		

Humanities / Social Science / Arts Requirement	Substitution/Waiver/Transfer & Institution, if not AU	Designation A,B,C,D,E, II	Cr. Hrs. or IP*
Hum/SS/ Arts Total (≥ 16 cr. hrs.)			

Humanities/Social Science/Arts Additional Requirement	Check if met (X or NA)
At least 16 credits (excluding ENGL 101 and ENGR 110)	
At least 3 Designated Areas	
No more than 4 credit hours of Arts counting towards 16 credits	
Courses not counted for credit if taken more than once (e.g. chorus)	

Mathematics Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
MATH 151	4		
MATH 152	4		
MATH 253	4		
MATH 271	3		
MATH 371	4		
ENGR 305	3		
Mathematics Total	22		

Chemistry Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
CHEM 105	4		
CHEM 106	4		
Chemistry Total	8		

Physics Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
PHYS 125	4		
PHYS 126	4		
Physics Total	8		

*Enter number of credit hours completed or IP=In progress

Name: _____

Exp. Grad.: Fall _____ / Spring _____

Mechanical Engineering
Progress toward Degree (2/2)
(For students entering Fall 2017 – Spring 2018)

Basic Engineering Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
ENGR 101	2		
ENGR 102	2		
ENGR 104	2		
ENGR 111-116 (select 2)	2		
Basic Engineering Total	8		

Mechanical Engineering Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
CEMS 214	3		
ENGR 220	4		
ENGR 306	2		
ENGR 395	2		
ENGR 490	4		
MECH 211	3		
MECH 212	3		
MECH 241	3		
MECH 320	3		
MECH 321	3		
MECH 324	3		
MECH 326	3		
MECH 327	2		
MECH 343	2		
MECH 362	3		
MECH 364	3		
MECH 366	3		
MECH 417	3		
Mechanical Elective I	3		
Mechanical Elective II	3		
Technical Elective I	3		
Technical Elective II	3		
Mechanical Engineering Total	64		

Additional Requirements	Substitution/ waivers, if any	Check if Met (X)
Engineering seminar		
Global Perspective		
ENGR GPA and "D" Policy	N/A	
Physical Education / Wellness I		
Physical Education / Wellness II		
Total Eligible Credits \geq 128	(excluding ENGL 101 & Phys. Ed. Credits)	

*Enter number of credit hours completed or IP=In progress