

Major Program: Chemical Engineering

Name: \_\_\_\_\_

Concentration: N/A

ID#: \_\_\_\_\_

Program Code: ECMUG

Expected Graduation Term: \_\_\_\_\_

**Major Requirements**

Course Number	Credits (104)	Course Status Code M, R, P, WVD, SUB*
<b>Required Engineering Courses – 46 credits</b>		
CM 1000	1	
CM 2110	3	
CM 2120	3	
CM 3110	3	
CM 3120	3	
CM 3230	4	
CM 3215	2	
CM 3310	3	
CM 3510	3	
CM 4110	3	
CM 4120	3	
CM 4310	3	
CM 4855	3	
CM 4860	2	
CM 4861/4910	1/ (1-3)	
ENG 1101 <b>OR</b>	3 / 4	
ENG 1001 and ENG 1100		
ENG 1102	3	
<b>Required Math and Science Courses – 42 credits</b>		
CH 1150	3	
CH 1151	1	
CH 1153	1	
CH 1160	3	
CH 1161	1	
CH 2410	3	
CH 2411	1	
CH 3510	3	
CH 3511	2	
MA 1160/1161	4 / 5	
MA 2160	4	
MA 2320/2321/2330	2 / 3	
MA 3160	4	
MA 3520/3521/3530/3560	2 / 3	
PH 1100	1	
PH 1200	1	
PH 2100	3	
PH 2200	3	
<b>Required Communications Course – 3 credits</b>		
CM 3410	3	

Course Number	Credits (104)	Course Status Code M, R, P, WVD, SUB*
<b>Technical Elective Courses – 13 credits</b>		
3-4 credits of Organic Chemistry II or substitute		
CH 2420 <b>OR</b> BL 2100	3 / 4	
<b>OR</b> CM 4740		
4-6 credits of Core Engineering Electives from the following list: CM 2200, 3450, 3820, 3974, 4125, 4500, 4550, 4650, 4655, 4710, 4740, 4770, 4780, 5100, 5200, 5300, 5400, EE 3010, ENG 2120, ENT 3974, GE 4610, MEEM 2110, MY 4740. No more than six credits from the following: CM 4000, 4020, 4040, 4060		
3-6 credits of additional Technical Electives from the following list: BE 2110, 2400, 3500, 4100, 4300, BL 1040, 2010, 2011, 2020, 2021, 2100, 2200, 2210, 3210, 3310, 3640, 4010, 4020, 4030, 4220, 4380, 4470, 4610, 4620, 4631, 4820, 4840, CH 2212, 2420, 2421, 3520, 3521, 4110, 4120, 4212, 4222, 4310, 4311, 4320, 4412, 4430, 4510, 4710, 4720, CM 2200, 3450, 3820, 3974, 4125, 4500, 4550, 4610, 4620, 4631, 4650, 4655, 4710, 4740, 4770, 4780, 5100, 5200, 5300, 5400, CMU 8950U, CS 1111, 1121, 1131, EE 2174, 3010, 3120, 3140, EET 3373, ENG 2120, 4510, 5520, ENT 2950, 2960, 3950, 3960, 3961, 3962, 3966, 3974, 3976, 3980, 4950, 4960, 4961, ENVE 3502, 3503, 4501, FW 1035, 3098, GE 2020, 2300, 2310, 2640, 3400, 4360, 4610, MA 2600, 2710, 2720, 3210, 3310, 3450, 3710, 3740, 3924, 4330, 4515, 4525, 4620, 4760, 4770, 4908, MEEM 2110, 2150, 2700, 4170, 4200, 4220, 4240, 4260, 4403, 4405, 4635, 4650, 5170, 5240, MY 2100, 2110, 3100, 3200, 4130, 4155, 4600, 4740, OSM 4650, PH 2230, 2300, 2400, UN 2600, 3002 (max of 4 credits) No more than three credits from the following: ENT 3954, 3958, 3959, 3961, 3962, 3963, 3964, 3966, 3967, 3971, 3976, 4951, 4954		
Note: Technical elective courses must total to at least 13 credits. Students choosing CM 4910, MA 2330, MA 3530 or MA 3560 may use additional credits as technical electives.		
<b>Credits Subtotal</b>		

\* **M**-Passed with valid grade, transfer, or Adv. Placement credit; **R**-Registered in course; **P**lan to take in future, **WVD**-Waived course or credit (does not reduce total degree credits required), **SUB**-Petitioned as substitute course.

### General Education Requirements

Requirement	Credits (24)	
Courses used to complete General Education may not be used to complete other degree requirements.		
<b>Core</b>		
UN 1015	3	
UN 1025 or upper level modern language course*	3	
Goal 4: Critical and Creative Thinking	3	
Goal 8: Social Resp. & Ethical Reasoning	3	
<b>Humanities &amp; Fine Arts/Social &amp; Behavioral Sciences</b>		
Communication/Composition	3	
Humanities and Fine Arts	3	
Social and Behavioral Sciences	3	
Course from any list above or Restricted List	3	
<ul style="list-style-type: none"> <li>■ Six (6) credits must be at the 3000- or 4000-level</li> <li>■ No more than three (3) credits from the Restricted List</li> <li>■ Each course can satisfy only one requirement</li> </ul>		
<b>Credits Subtotal</b>		
*A 3000-level or higher modern language course may be used in place of UN1025, Global Issues. The language course <i>does not</i> count toward the 6 credit upper level requirement.		
<b>Co-Curricular Activities</b>		
	.5	
	.5	
	.5	
	.5	
	.5	
	.5	
Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree.		

### Free Electives

Course Number	Credits (3)	Course Status Code M, R, P, WVD, SUB*
<b>Credits Subtotal</b>		

Note: Students with more than 104 credits in the major requirements area may use additional credits as free electives.

### For Advisor Use Only

<b>Total Credits Required:</b>	<b>131</b>
<b>Total Credits Completed:</b>	
<b>Total Credits Needed:</b>	

Student Signature \_\_\_\_\_

Date \_\_\_\_\_

Departmental Approval \_\_\_\_\_

Date \_\_\_\_\_