

Traditional Student - Enrolled as Freshman at MSU, CHEMICAL ENGINEERING PRACTICE CURRICULUM  
 COOP Sequence – Version 2 – 8 regular semesters (More relaxed curriculum - 2 16 hour semesters, most are 14/15 hours during regular semesters), 1 summer semester, 3 semesters of COOP experience, start COOP spring of sophomore year

<b>FRESHMAN YEAR</b>									
<b>Fall Semester</b>			<b>Spring Semester</b>			<b>Summer Semester</b>			
CHE 1101	CHE Freshman Seminar	1	CHE 2213	CHE Analysis	3				
MA 1713	Calculus I	3	MA 1723	Calculus II	3				
CH 1211	Inv. In Chemistry I	1	CH 1221	Inv. In Chemistry II	1				
CH 1213	Fund. Of Chemistry I	3	CH 1223	Fund. Of Chemistry II	3				
EN 1103	English Comp I	3	PH 2213	Physics I	3				
	Humanities Elective	3	EN 1113	English Comp II	3				
	<b>TOTAL</b>	<b>14</b>		<b>TOTAL</b>	<b>16</b>				
<b>SOPHOMORE YEAR</b>									
<b>Fall Semester</b>			<b>Spring Semester</b>			<b>Summer Semester</b>			
CHE 2114	Mass & Energy Balances	4	COOP – Semester 1			CHE 3113 or ME 3513	CHE Thermo I Or Thermo I	3	
CHE 3203	Fluid Flow Operations	3				MA 2743	Calculus IV	3	
MA 2733	Calculus III	3				IE 3913	Engr Econ	3	
PH 2223	Physics II	3				MA 3253	Diff. Eq.	3	
	Hum Elec	3							
	<b>TOTAL</b>	<b>16</b>					<b>TOTAL</b>	<b>12</b>	

<b>YEAR 3 (Junior Year)</b>									
<b>Fall Semester</b>			<b>Spring Semester</b>				<b>Summer Semester</b>		
COOP – Semester 2			CHE 3123	CHE Thermo II	3	COOP – Semester 3			
			CHE 3213	Heat Transfer Op.	3				
			CHE 3223	Mass Transfer Op	3				
			GE 3513	Technical Writing	3				
				Social Science Elective	3				
			<b>TOTAL</b>		<b>15</b>				
<b>YEAR 4 (Senior Year 1)</b>									
<b>Fall Semester</b>			<b>Spring Semester</b>				<b>Summer Semester</b>		
CHE 4113	Reactor Design	3	CHE 4223	Process Control	3	Internship Additional COOP REU Program			
CHE 4134	Process Design	4	CHE 4233	Plant Design	3				
CHE 4513	Organic Chem I	3	CHE 3222	Op Lab I	2				
CHE 4511	Organic Chem Lab I	1	CHE xxx1	Prof. Devel. Seminar	1				
CHE 3413	Engr. Materials	3	CH 4523	Organic Chem II	3				
				CH/CHE/Tech Elec	3				
<b>TOTAL</b>			<b>14</b>		<b>TOTAL</b>		<b>15</b>		
<b>YEAR 5 (Senior Year 2)</b>									
<b>Fall Semester</b>			<b>Spring Semester</b>						
CH 4413	Phys. Chemistry I	3		CH/CHE/Tech Elec	3				
EM 2413	Engineering Materials	3	EE 3183	EE Systems	3				
	CH/CHE/Tech Elec	3		Fine Arts Elective	3				
CHE 3232	Op Lab II	2		CH/CHE/Tech Elec	3				
	Social Science Elective	3							
<b>TOTAL</b>			<b>14</b>		<b>Total</b>		<b>12</b>		