

Student Enrolls as Freshman at MSU, Starts COOP summer after sophomore year; CHEMICAL ENGINEERING PRACTICE CURRICULUM

Co-op Sequence - - Start summer after sophomore year – 8 regular semesters, 1 summer semester; Students could shift CH/CHE/TECH elective from regular semesters 6 and 7 to regular semester 8.

<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	EN 1113	English Comp II	3			
	Humanities Elec	3	PH 2213	Physics I	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 and Energy Bal	4	CHE 3113	CHE Thermo I	3	Co-op semester 1		
CHE 3203	Fluid Flow	3	MA 2743	Calculus IV	3			
MA 2733	Calculus III	3	CH 4523	Organic Chem II	3			
CH 4513	Organic Chem I	3	PH 2223	Physics II	3			
CH 4511	Organic Chem Lab I	1		Humanities Elec	3			
	Fine Arts Elec	3						
	<b>TOTAL</b>	<b>17</b>		<b>TOTAL</b>	<b>15</b>			

<b>JUNIOR YEAR (1)</b>									
<b>Fall Semester</b>			<b>Spring Semester</b>				<b>Summer Semester</b>		
CHE 3123	CHE Thermo II	3	Co-op semester 2					CH/CHE/Tech Elective	3
MA 3253	Differential Equations	3					IE 3913	Engr. Economics	3
CHE 3413	Engr Materials	3						Social Science Elec	3
EM 2413	Engr Mechanics I	3					GE 3513	Technical Writing	3
	Social Sci Elective	3							
	<b>TOTAL</b>	<b>15</b>						<b>TOTAL</b>	<b>12</b>

<b>JUNIOR YEAR (2)</b>									
<b>Fall Semester</b>			<b>Spring Semester</b>				<b>Summer Semester</b>		
Co-op Semester 3			CHE 3223	Mass Transfer	3				
			CHE 3213	Heat Transfer	3				
			CHE 3331	Prof Dev Seminar	1				
			EE 3183	EE Systems	3				
				CH/CHE/Tech Elective	3				
				CH/CHE/Tech Elective	3				
				<b>TOTAL</b>	<b>16</b>				

<b>SENIOR YEAR</b>									
<b>Fall Semester</b>			<b>Spring Semester</b>				<b>Summer Semester</b>		
CHE 4113	CHE Reactor Design	3	CHE 4223	Process Control	3				
CHE 4134	CHE Process Design	4	CHE 4233	CHE Plant Design	3				
CHE 3222	CHE Lab I	2	CHE 3232	CHE Lab II	2				
CH 4413	Thermo and Kinetics	3							
	CH/CHE/Tech Elective	3							
	<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>8</b>				