

# B.S. in Chemical Engineering

## Two Plus Two **and a Half** Academic Plan

### For Transfer Students(begin in May)

**Michigan Tech**

Michigan Technological University  
Department of Chemical Engineering

This plan includes a full-year of organic chemistry and is similar to the standard plan for a B.S. in Chemical Engineering. Students must transfer in all the classes in the red box (58 cr). Two classes must be taken during the summer before the first fall at Michigan Tech (prerequisite classes for fall junior classes).

#### Freshman Year

##### Fall Semester

Course	Title	Cr
CH 1150	Univ Chem I	3
CH 1151	Univ Chem I Lab	1
CH 1153	Univ Chem I Rec	1
ENG 1101	Eng Analysis	3
MA 1160	Calc with Tech I	4
PH 1100	Phys by Inquiry I	1
UN 1015	Compositions	3
	Co-Curric	
	<b>Total</b>	<b>16</b>

##### Spring Semester

Course	Title	Cr
CH 1160	Univ Chem II	3
CH 1161	Univ Chem II Lab	1
ENG1102	Eng Modeling	3
MA 2160	Calc with Tech II	4
PH 2100	Univ Physics I	3
UN 1025	Global Issues**	3
	<b>Total</b>	<b>17</b>

**First semester at  
Michigan Tech:  
*summer***



#### Sophomore Year

##### Fall Semester

Course	Title	Cr
CH 2410	Organic Chem I	3
CH 2411	Organic Chem Lab I	1
MA 3160	Multivar Calc	4
PH 1200	Phys by Inquiry II	1
	HUFA Elective*	3
	Co-Curric	
	<b>Total</b>	<b>12</b>

##### Spring Semester

Course	Title	Cr
CH 2420	Organic Chem II	3
MA 2321	Elem Lin Algebra	2
MA 3521	Elem Diff Eqns	2
PH 2200	Univ Physics II	3
	SBS Elective*	3
	Co-Curric	
	<b>Total</b>	<b>13</b>

##### Summer Semester

Course	Title	Cr
CM2110	Fund of ChE I	3
CM2120	Fund of ChE II	3
	<b>Total</b>	<b>6</b>

#### Junior Year

##### Fall Semester

Course	Title	Cr
CH 3510	Physical Chem I	3
CH 3511	Physical Chem Lab I	2
CM 1000	Introduction to Chemical Engg	1
CM 3110	Transport I	3
CM 3215	Fund of ChE Lab	2
CM 3410	Tech Comm for ChE	3
	HASS Course*	3
	<b>Total</b>	<b>17</b>

##### Spring Semester

Course	Title	Cr
CM 3120	Transport II	3
CM 3230	Thermo for ChE	4
CM3310	Process Control	3
CM 3510	Chemical Rxn Eng	3
	HASS Course*	3
	<b>Total</b>	<b>16</b>

#### Senior Year

##### Fall Semester

Course	Title	Cr
CM 4110	Unit Ops Lab	3
CM 4310	Process Safety/Env	3
CM 4855	ChE Proc Anal & Design I	3
	Tech Elective*	3
	Tech Elective*	3
	HASS Course*	3
	<b>Total</b>	<b>18</b>

##### Spring Semester

Course	Title	Cr
CM 4120	Plant Ops Lab	3
CM 4860	ChE Design II	2
CM 4861	ChE Design Lab II	1
	Tech Elective*	4
	HASS Course*	3
	Free Elective*	3
	<b>Total</b>	<b>16</b>

\*See back for description.

\*\*a 3000-level or higher modern language course may be used in place of UN 1025 Global Issues.

*This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.*

Updated 16-Apr-14