

**Michigan Technological University****Minor in Pharmaceutical Chemistry**

Program Code CHPM, Academic Year 2021-22

Department of Chemistry

Total Credits Required: 22 to 28

**Required Courses: 19 to 24 credits**

Course	Credits
CH 4222 Bioanalytical Chemistry (5) <i>Prereqs: CH1160 and CH1161 and CH3510 C and CH3511 C</i> or CH 2212 Quantitative Analysis (5) <i>Prereqs: CH1160 and CH1161</i> and CH 4212 Instrumental Analysis (5) <i>Prereqs: CH2212 and CH3510 C and CH3511 C</i>	
CH 3510 Physical Chemistry I (3) <i>Prereqs: CH1160 and CH1161 and PH2200 C and MA2160</i>	
CH 3511 Physical Chemistry Lab I (2) <i>Prereqs: CH3511 C</i>	
CH 4110 Pharmaceutical Chemistry: Mechanism of Drug Action (3) <i>Prereqs: CH2410 or CH2430</i>	
CH 4120 Pharmaceutical Chemistry: Drug Design (3) <i>Prereqs: CH2420 or CH2440</i>	
CH 4710 Biomolecular Chemistry I (3) <i>Prereqs: CH2420 or CH2440</i>	

**Elective Courses: 3 to 4 credits**

Course	Credits
CH 4140 Pharmaceutical Analysis (3) <i>Prereqs: CH2410 or CH2430</i>	
CH 4720 Biomolecular Chemistry II (3) <i>Prereqs: BL3020 or CH4710</i>	
MA 2720 Statistical Methods (4) <i>Prereqs: MA1020 or MA1030 or ALEKS math placement <math>\geq 61</math> or CEEB Calculus BC <math>&gt; 2</math> or CEEB Calculus AB subscore <math>\geq 2</math> or Math ACT of 22 or MATH SAT of 540</i> or MA 3710 Engineering Statistics (3) <i>Prereqs: MA2160</i>	
CH 4990 Undergraduate Research in Chemistry* (3)	

\*Undergraduate research experiences will be permitted in the minor as long as the topics are in the area of pharmaceutical chemistry.