

Michigan Technological University**Minor in Pharmaceutical Chemistry**

Program Code: CHPM, Academic Year 2020-21

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 CH351(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 ≥ 61 or CEEB Calculus BC > 2 or CEEB Calculus AB subscore ≥ 2 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.