Michigan Technological University Minor in Medicinal Chemistry Program Code SMCM, Academic Year 2023-24 Department of Chemistry Total Credits Required: 22 to 28

Required Courses: 19 to 24 credits

- CH 4220 Bioanalytical Chemistry (3) and CH 4221 Bioanalytical Chemistry Lab (2) Prereqs: CH1122 or (CH1160 and CH 1161) and (CH3510 and CH3511)
 - or CH 2210 Quantitative Analysis (3) and CH 2211 Quantitative Analysis Lab (2) Prereqs: CH1122 or (CH1160 and CH1161) and CH 4210 Instrumental Analysis (3) and CH 4211 Instrumental Analysis Lab (2) Prereqs: CH2212 or (CH2210 and CH2211) and CH3510 and (CH 3511 or CH 3530)
- CH 3510 Physical Chemistry I Thermodynamics, Equilibrium and Kinetics (3) Prereqs: CH1122 or (CH1160 and CH1161) and MA2160 and (PH2200 C or PH2260 C)
- CH 3511 Physical Chemistry Lab I (2) Prereqs: CH3511 C
- CH 4110 Medicinal Chemistry: Mechanism of Drug Action (3) Prereqs: CH2410 or CH2430
- CH 4120 Medicinal Chemistry: Drug Design (3) Prereqs: CH2420 or CH2440
- CH 4710 Biomolecular Chemistry I (3) Prereqs: CH2420 or CH2440

Elective Courses: 3 to 4 credits

- CH 4140 Pharmaceutical Analysis (3) Prereqs: CH2410 or CH2430
- CH 4720 Biomolecular Chemistry II (3) Prereqs: BL3020 or CH4710
- MA 2720 Statistical Methods (4) Prereqs: MA1020 or MA1030
 - o or MA 3710 Engineering Statistics (3) Prereqs: MA2160
- 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.