Michigan Technological University Minor in Medicinal Chemistry Program Code SMCM, Academic Year 2025-2026 Department of Chemistry Minimum Credits Required: 22

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 3310 Analytical Chemistry I (3) Prereqs: CH 1122 or (CH 1160 and CH 1161) and CH 3311 Analytical Chemistry I Lab (2) Prereqs: CH1122 or (CH1160 and CH1161) and CH 3320 Analytical Chemistry II (3) Prereqs: CH 3310 and CH 3510(C) and CH 3321 Analytical Chemistry II Lab (2) Prereqs: CH 3310 and CH 3511(C)
- 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: CH3510(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.