

Michigan Technological University

Minor in Medicinal Chemistry

Program Code SMCM, Academic Year 2022-23

Department of Chemistry

Total Credits Required: 22 to 28

Required Courses: 19 to 24 credits

- CH 4222 Bioanalytical Chemistry (5) *Prereqs: CH1160 and CH1161 and CH3510 C and CH3511 C*
 - **or** CH 2212 Quantitative Analysis (5) *Prereqs: CH1122 or (CH1160 and CH1161) and CH 4212 Instrumental Analysis (5) Prereqs: CH2212 and CH3510 C and CH3511 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: 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*
 - **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.*