

## Michigan Technological University

### Minor in Chemistry

Program Code SCHM, Academic Year 2022-23

Department of Chemistry

Total Credits Required: 18

#### Required Courses: 11 credits

- CH 2212 Quantitative Analysis (5) *Prereqs: CH1122 or (CH1160 and CH1161) Note: CH4222 will be accepted in place of CH2212*
- CH 2420 Organic Chemistry II (3) *Prereqs: CH2410 or CH 2440 Synthetic Organic Chemistry (3) Prereq: CH2430]*
- CH 3510 Physical Chemistry I - Thermodynamics, Equilibrium and Kinetics (3) *Prereqs: CH1122 or (CH1160 and CH1161) and MA2160 and PH2200 C*

#### Elective Courses: minimum of 7 credits

- CH 3520 Physical Chemistry II (3) *Prereqs: CH1122 or (CH1160 and CH1161) and PH2200 C and MA3160*
- CH 3521 Physical Chemistry II Lab (2) *Prereqs: CH3520 C*
- CH 4240 Advanced Mass Spectrometry (3) *Prereqs: CH4212 or CH4222*
- CH 4241 Advanced Mass Spectrometry Lab (1) *Prereqs: CH4240 C and (CH4212 or CH4222)*
  - **and** CH 4240 Advanced Mass Spectrometry (3) *Prereqs: CH4212 or CH4222*
- CH 4310 Inorganic Chemistry (3) *Prereqs: CH3520*
- CH 4311 Inorganic Chemistry Lab (1) *Prereqs: CH4310 C*
- CH 4412 Spectroscopy of Organic Chemistry (3) *Prereqs: CH2420 or CH2440*
- CH 4516 Aerosol and Cloud Chemistry (3) *Prereqs: CH3510 or CH3520 or CEE4501 or CEE4504*
- CH 4610 Intro to Polymer Science (3) *Prereqs: CH1122 or (CH1160 and CH1161)*
- CH 4620 Polymer Chemistry (3) *Prereqs: CH2420 or CH2440*
- CH 4710 Biomolecular Chemistry I (3) *Prereqs: CH2420 or CH2440*