

Chemical Physics Minor

University of Michigan - Department of Chemistry

Effective: Fall 2019

The Chemical Physics minor provides concentrated exposure to physical chemical principles.

Exclusions: The Chemical Physics minor is NOT open to student's majoring in:

| | | |
|--------------|----------------------|-------------------------------------|
| Chemistry | Chemical Science | Interdisciplinary Chemical Sciences |
| Biochemistry | Biomolecular Science | Biophysics |

Prerequisites:

- AP credit for Physics (126 or 239) will fulfill the Physics requirement.

| Course # | Course Description | Completed | Typically Offered | Credits |
|----------------------------|--|-----------|------------------------------------|------------|
| PHYS 235 OR PHYS 240 | Physics for the Life Sciences II General Physics II | | <i>F,W,Sp</i> <i>F,W,Sp</i> | 4 4 |
| CHEM 262 OR MATH 215 | Mathematical Methods for Chemists Calculus III | | <i>F,W</i> <i>F,W,Sp,Su</i> | 4 4 |

Minor Program requirements (18 credit hours):

Core courses

| Course # | Course Description | Completed | Typically Offered | Credits |
|----------------------------|---|-----------|-------------------------------|------------|
| * CHEM 210 | Structure and Reactivity I | | <i>F,W,Sp</i> | 3 |
| CHEM 211 | Investigations in Chemistry: Laboratory | | <i>F,W,Sp</i> | 2 |
| CHEM 260 OR CHEM 370 | Chemical Principles Physical and Chemical Principles Behind Biology and Medicine | | <i>F,W,Sp</i> <i>F</i> | 3 3 |
| CHEM 461 | Physical Chemistry I | | <i>F</i> | 3 |
| CHEM 462 | Computational Chemistry Laboratory | | <i>F</i> | 1 |
| CHEM 453 OR CHEM 463 | Biophysical Chemistry I: Thermodynamics and Kinetics Physical Chemistry II | | <i>F</i> <i>W</i> | 3 3 |

NOTES:

* Students who do not place into CHEM 210 are strongly recommended to take CHEM 130. CHEM 130 or AP credits earned for CHEM 130 DO NOT count toward the minor.