

Physics, with a concentration/emphasis Interdisciplinary Science: Chemistry Focus

All concentrations/emphasis areas are 24 hours in total. The required hours for the concentration or emphasis area are listed in the top section. The student can choose from the list of courses in the second section to complete the 24 hour requirement.

The Interdisciplinary Science emphasis area is made up of courses drawn from one or more disciplines, departments or programs, with a single coherent focus in one of the following areas: Biology, Chemistry, Computer Science, Geology, Mathematics, Medical Physics or Statistics. Some of these options satisfy the requirements for a minor in the focus area, as indicated.

All chemistry minors must take the introductory chemistry sequence (8 hours). They must then choose 12-14 hours of chemistry electives, from at least two areas of chemistry. This must include lab experiences in at least two different areas. The three options detailed below all satisfy these requirements. More information can be found on the departmental website for chemistry, or the bulletin.

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| Chemistry Focus for Physics B.S. | | |
| with a concentration in interdisciplinary science | | |
| | | |
| Chemistry Minor | | |
| CHE 1101 and 1110 (lab) | Intro Chem I and lab | 4 |
| CHE 1102 and 1120 (lab) | Intro Chem II and lab | 4 |
| plus a choice of 1 of 3 options | | 12 |
| | | |
| Used from 24 hours | | 20 |
| Leftover | | 4 |
| | | |
| 3 minor options | | |
| Option I | | |
| CHE 2201 and 2203 (lab) | Organic I | 4 |
| CHE 2202 and 2204 (lab) | Organic II | 4 |
| AND | | |
| CHE 4580 and 4581 (lab) | Biochem | 4 |
| OR | | |
| CHE 2210 and 2211 (lab) | Quant | 4 |
| OR | | |
| CHE 4800 | Forensic Microscopy | 4 |
| | | 12 |
| Option II | | |
| CHE 2101 and 2102 (lab) | Fund of Organic Chem | 4 |
| CHE 2210 and 2211 (lab) | Quant | 4 |

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|---------------------------------------|---|----|
| AND | | |
| CHE 3404 and 3405 (lab) | Inorganic | 4 |
| CHE 4580 and 4581 | Biochem | 4 |
| | | 12 |
| Option III | | |
| CHE 2101 and 2012 (lab) | Fund of Organic Chem | 4 |
| CHE 2526 | Chem Safety | 1 |
| CHE 4580 and 4581 (lab) | Biochemistry | 4 |
| AND | | |
| CHE 2400 | Intro to Forensic Chem and Criminalistics | 3 |
| OR | | |
| CHE 4630 | Forensic Toxicology | 3 |
| | | 12 |
| | | |
| Choose remaining 4 hours from: | | |
| CHE 2201 and 2203 (lab) | Organic I | 4 |
| CHE 2202 and 2204 (lab) | Organic II | 4 |
| CHE 2210 and 2211 (lab) | Quant Analysis | 4 |
| CHE 3301 and 3303 (lab) | Physical I | 4 |
| CHE 3302 and 3304 (lab) | Physical II | 4 |
| CHE 3404 3405 (lab) | Inorganic | 4 |
| PHY 3001 | Analytical Meth | 3 |
| PHY 3010 | Classical I | 3 |
| PHY 3020 | EM | 3 |
| PHY 3230 | Thermal | 3 |
| PHY 4020 | Comp Phys | 3 |
| PHY 4640 | Quantum | 3 |
| CHE 4580 | Biochem | 3 |
| CHE 4600 | Biochem lab | 1 |