

B.S. – Chemistry/Interdisciplinary Track

Chemistry is a field that has historically enjoyed very strong career possibilities. Many students are employed directly after their undergraduate education by the chemical, pharmaceutical or related industries, in jobs that have excellent career prospects. Graduate school in chemistry or biochemistry usually includes very generous financial support, and can lead to outstanding career paths in industry, government or academic areas. These opportunities are available to students completing any of the degree programs offered by the IUP Department of Chemistry, and graduates of these programs have gone on to industrial leadership positions, and some of the most prestigious graduate programs in the country.

Program-Level Student Learning Outcomes: B.S. – Chemistry/Interdisciplinary Chemistry Track

- You will be prepared for employment in the chemical industry, in government, or entry into graduate or professional school.
- You will have training in chemistry and another field, and this breadth of knowledge will allow you to solve problems with a wider range of intellectual tools.
- You will be able to analyze data and make scientific arguments to apply, analyze and synthesize information from multiple sub-disciplines within chemistry.
- You will be able to solve complex, multi-step problems, using problem-solving strategies learned in the classroom and in the lab.
- You will have acquired effective and safe chemistry laboratory skills, and be able to use the methods and instrumentation of modern chemistry.
- By the time you graduate, you will be able to evaluate novel results, self-direct your activities and apply your knowledge and skills in or out of the laboratory.

The curriculum leading to the BS/Interdisciplinary Chemistry Track is designed to allow for the workable union of other disciplines with chemistry in such a way as to retain the fundamental science and mathematics requirements needed for a career in chemistry. The Interdisciplinary Chemistry Track can also provide excellent preparation for entrance into a variety of professional schools, including law school – students considering this path should work closely with their advisor to choose courses appropriate to meet professional school requirements. This degree may be of interest to students who have completed a significant number of credits in another degree program and decide they want to earn a degree in chemistry. The Interdisciplinary Chemistry Track can incorporate a minor from almost any other field in the university; some disciplines that make useful combinations include art, biology, business administration, computer science, criminology (forensic science), English (technical writing), geoscience, government and physics. In particular, a student seeking a career in forensic science should major in chemistry.