

STUDENT LEARNING OUTCOMES

B.S./B.A. Chemistry Degree (ACS certified)

CIP Code: 400501

Graduates from the Chemistry degree program will have demonstrated:

1. an understanding of major concepts, theoretical principles and experimental findings in chemistry.
2. an ability to solve problems in an efficient and accurate manner.
3. an ability to employ critical thinking and hypothesis-driven methods of scientific inquiry.
4. a working knowledge of basic research methodologies, data analysis and interpretation.
5. effective written and oral communication skills, especially the ability to transmit complex technical information in a clear and concise manner.
6. the ability to use computers for chemical simulation and computation, data acquisition, and database usage.
7. the ability to use instrumentation for chemical analysis and separation.
8. a familiarity with, and application of local, state and federal safety and chemical hygiene regulations and practices.
9. an appreciation of the importance and practice of good ethics.
10. an ability to work effectively in teams in both classroom and laboratory.