

Chemistry

Why should I major in Chemistry?

Chemists serve an important role in society, as they search out new information about chemicals and put that information into practical use developing new products and improving existing ones. Chemists also contribute to our quality of life by developing processes which save energy and reduce pollution, and their research spurs advances in medicine, agriculture, food processing and other areas that touch our lives. Iowa Western's chemistry program is designed to give you a strong foundation in chemistry, where you'll learn about chemical bonding, the structure of the atom, and the kinetic theory of matter. In addition to Chemistry I and Chemistry II, you'll also be able to take classes in organic chemistry, physics and calculus. Due to our small class size, you'll receive a great deal of individualized attention in the classroom and in the laboratory. The credits you earn at Iowa Western can transfer easily to another institution, where they can be applied towards a bachelor's degree.



What type of degree will I earn at Iowa Western if I enroll in this program?

Graduates of our two-year chemistry program of study earn an Associate of Science (AS) degree.

If I major in Chemistry, can I transfer to a four-year college or university?

This program of study is designed to transfer to a four-year degree granting institution. By earning an AS degree in chemistry, you will be able to apply your credits toward a similar major at another institution and earn a bachelor's degree.

What is the job outlook for Chemistry graduates and what type of jobs will I be qualified for?

The field for trained chemists continues to grow, with more than half of all chemists employed in manufacturing firms. A bachelor's degree in chemistry is generally the minimum education necessary to work as a chemist, and many positions dealing with research require a master's degree or even a Ph.D. Chemists work in a variety of jobs in research and development, or in production and quality control. A number of chemistry majors continue their education in health professional schools, becoming doctors, dentists, veterinarians and other types of health care providers. The salary you can expect to earn after completing your education will vary based upon the type of position you accept.

Program of Study

The Chemistry program of study encompasses the first two years of a university chemistry major. Chemists are in demand worldwide in technological fields, including plastics, medicine, pharmacology, vaccines, recombinant DNA, and other related areas. Graduates of this program are awarded an Associate of Science (A.S.) degree.

RECOMMENDED COURSE SEQUENCE

First Semester		Cr.
ENG 105	Composition I	3
CHM 166	*General Chemistry I	5
MAT 211	*Calculus I	5
	Social Science Elective	3
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		16
Second Semester		Cr.
ENG 106	Composition II	3
CHM 176	*General Chemistry II	5
MAT 217	*Calculus II	5
	Humanities Elective	3
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		16
Third Semester		Cr.
SPC 112	Public Speaking	3
CHM 263	*Organic Chemistry I	5
PHY 210	*Classical Physics I (Calculus based)	4
PHY 211	*Classical Physics I Lab	1
	Humanities/Social Science Electives	6
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		19
Fourth Semester		Cr.
CHM 273	*Organic Chemistry II	5
PHY 220	*Classical Physics II (Calculus based)	4
PHY 221	*Classical Physics II Lab	1
	Humanities/Social Science Electives	6
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		16

*Required courses for the program

One elective must also satisfy the diversity requirement.

64 semester hours required

**For More Information,
contact the Admissions Office:
712.325.3277 or 800.432.5852, ext. 3277
www.iwcc.edu**