



A Variety of Career Choices await you at ENC with a B.S. or B.A. Chemistry degree.



Chemists work in industries ranging from multinational corporations to small entrepreneurial firms. An entry-level B.S. or B.A. chemist may analyze and test products, work in technical sales or service, work to streamline processes for efficiency or

cost savings, or assist senior chemists in a research laboratory. Many chemists work on research and development projects, in pilot plants and factories. Others are active in quite different roles which include consulting, medical research, financial analysis, sales and marketing, and management. If you are interested in preparing for teaching, Eastern Nazarene College is here to guide you.

Planning for Graduate Work in Chemistry or Related Disciplines.



ENC is fully accredited. Graduates in Chemistry have been accepted at the best graduate schools in chemistry, medicine, and dentistry. A person with solid and broad graduate training in chemistry is prepared to take advantage of a wide variety of

professional opportunities in industry, academia, government laboratories, and research institutes.

Modern chemistry is a dynamic discipline for which an undergraduate degree provides a framework on which to build. Graduate training is a virtual necessity if you are to become proficient enough with the discipline in order to become a participant in chemical research and the development of new knowledge. Graduate work is challenging. You must have a strong work ethic and a sincere interest in the process of scientific discovery. At Eastern Nazarene College, we prepare you with all the skills and background necessary to consider graduate work in chemistry or related disciplines, such as biochemistry or other biological sciences, chemical engineering, pharmaceutical and medicinal chemistry, toxicology, forensic science, materials science, chemical physics, and the environmental sciences.

In the past 15 years the majority of the graduates from the Department of Chemistry have gone to graduate school to earn doctoral degrees, including medical degrees. More than 90% of those ENC students who apply for graduate education are accepted into programs at schools such as: Harvard, Johns Hopkins, University of North Carolina, Princeton, Penn-State, Indiana, Northeastern, Michigan State, Duke, Syracuse, Cornell, Stanford, Virginia Tech, Ohio State, Kansas, Boston College, Case-Western, Dartmouth, Purdue, Albert Einstein, Temple and others.



College Students Face Many Choices
 What major should I choose?
 What will I do after graduation?
 Let **ENC** help answer your questions!

Industrial Chemist	Polymers
Medical Doctor	Forensics
Pharmacologist	Science Editor
Toxicologist	Technical Writer
Educator	Environmental Testing
Art Conservation	Pharmacist
Chemical Engineer	Biotechnology
Clinical Testing	Chemical Sales
Crime Lab Analyst	Dentistry

Planning for a career in the Medical Professions



Eastern Nazarene College has a strong program which prepares you for entrance to a wide variety of medical, pharmacy, or dental schools. Students are often surprised to learn that they can major in a number of

different disciplines and meet the entrance requirements for these schools. Chemistry at ENC is one of those disciplines designed to successfully prepare you for a career in the medical professions. A Health Professions Advisory Committee (HPAC) is here to guide you through the process. Most medical schools and health graduate programs require 2 courses in General Chemistry, 2 courses in Organic Chemistry, 2 courses in Introductory Biology, 2 courses in General Physics, 2 courses in English, and often 1 course in Calculus.

Degrees Offered

Bachelor of Science

- > Chemistry
- > Biochemistry
- > Forensic Science
- > Health Science

Bachelor of Arts

- > Chemistry
- > Chemistry/Business

Pre-Professional programs at ENC

- Pre-Medicine
- Pre-Pharmacy
- Pre-Nursing

What Preparation Is Recommended for Chemistry?

Experience in High School principles of biology, chemistry, physics, and a solid background in mathematics are recommended. If you are lacking in a particular area, we will work to develop a course sequence to meet your needs.

What Courses are offered by the Department?

Core Courses

General Chemistry I & II with laboratory
Organic Chemistry I & II with laboratory
Analytical Chemistry with laboratory
Physical Chemistry I
Advanced Chemistry Laboratory
Instrumental Analysis
Seminar in Chemistry

Example Elective Courses

Advanced Inorganic Chemistry
Physical Chemistry II
Biochemistry
Research in Chemistry

Courses for Non-science Majors

Intro to Chemistry with laboratory
Intro to Organic Chemistry with laboratory
Intro to Forensic Science with laboratory
Nutrition

Graduation Requirements

To graduate with a BS in Chemistry, a student must complete a 44 credit chemistry core, 22 credits in other math and science cognates, and 10 elective credits.

For a BA in Chemistry a student must complete a 33 credit chemistry core, 18 credits in other math and science cognates, and 9 elective credits.

Considering a Minor to Related Chemistry?

Fields related to the chemistry major include:

- > Biology
- > Physics
- > Mathematics
- > Computer Science
- > Business



Undergraduate Research

Students are offered the opportunity to do original research, one-on-one, with a faculty member. Students can do research during the academic year with course credit or during the summer. There is no better way to increase your marketability or your prospects for graduate school than to do research on a problem that intrigues you under the guidance of an interested and involved research mentor.

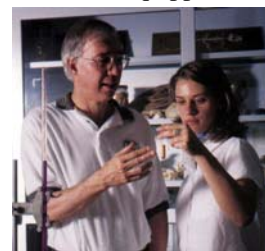
Many of our students have traveled to regional and national scientific meetings to present their work and have published their research in the chemical literature.

Undergraduate Laboratories

The laboratories for our chemistry courses are well-equipped to provide an excellent learning experience for our chemistry majors. Students make use of sophisticated instrumentation as early as their first semester of the freshman year.

Instrumentation includes:

- FT-NMR, • FTIR, • UV-VIS,
- Binary HPLC, • Electrochemistry, • Atomic Absorption, and
- Data Acquisition stations for General Chemistry.



Scholarships, Internships and Cooperative education

Scholarships are available for students with strong academic backgrounds. Our department works actively to place our students in off campus experiential

programs such as at: • Genzyme, • Geolabs, • Harvard University, and • Graduate School and NSF summer research programs.

Placement Success

Our chemistry majors have found exciting, and profitable ways to serve using their chemistry degree. Examples include:

Pharmaceutical industry: Merck; Immunogen, Albany Molecular

Government: NIST, Los Alamos National Laboratory

Chemical industry: Chemical Abstracts Service, Merck Chemical, DuPont, Johnson Labs

Medical Field: Hershey Medical Center, Practicing Doctors and Dentists across the nation

K-12 education: Secondary schools across the nation.

The Faculty

The chemistry professors at Eastern Nazarene College are accomplished professionals in their field who take seriously the responsibility of educating, mentoring, and training the science professionals of the future.

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Find out more on the Web at: www.enc.edu/chemistry/