



Students prepare to run a DNA - sequencing gel.

**For more information about the Biochemistry and Molecular Biology program, contact:**

The Departments of Physical Sciences  
Campus Box 4030  
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The Department of Biological Sciences  
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Or call the Office of Admissions toll free at 1-877-GO-TO-ESU

Check us out on the web at:  
[www.emporia.edu/chemist/bmb.htm](http://www.emporia.edu/chemist/bmb.htm)



Emporia State University is committed to making courses accessible to all participants.  
AA/EOE

A student explores the structure of a protein-DNA complex.



**Biochemistry & Molecular Biology**



Chemistry professor Michael Keck works with a student on a research project involving light-mediated DNA cleavage.

*Kansas has 160 biosciences companies employing more than 11,000. Projections call for more than 20,000 new jobs to be created with 500 million dollars in research funding connected to the Kansas Biosciences Initiative.*

# Biochemistry & Molecular Biology

an interdisciplinary major offered jointly by the departments of Physical and Biological Sciences.

## Why choose a BMB Major?

The interface between chemistry and biology - the understanding of life processes at the molecular level - is one of the most rapidly-developing areas of science! Passage of the Kansas Economic Growth Act in 2004 commits Kansas to become a national leader in research and development in the biosciences. ESU graduates with a BMB major will be in high demand; career opportunities will continue to be numerous.

## Why choose ESU?

At ESU, you can take advantage of the many benefits and opportunities that will prepare you for a career in the biosciences:

- experience close faculty-student interactions that allow you to get to know your professors
- get personal attention because of small class sizes
- work with faculty on original and timely research projects
- network through professional meetings and activities
- become active in student organizations
- present your work at regional and national professional conferences
- work as a paid laboratory assistant for introductory-level courses
- find abundant scholarship opportunities

*“The professionalism, preparedness, and passion for science that I saw in my professors every day did more for me than any lecture or textbook ever could. I entered Emporia State University with little to no science background, but left with the experience, skills, and knowledge to rival any college graduate in the country.”*

recent graduate now in medical school

## Imagine yourself in a career

- elucidating the secrets of the human genome
- developing new therapeutic strategies for disease treatment
- determining how environmental factors affect human health
- exploring new ways to effectively fight bioterrorism
- improving crop production and disease resistance
- investigating the biological implications of long-term human space exploration
- solving mysteries utilizing the tools of forensic science

## Or continue your education!

Students earning a BMB degree will take 64 hours of chemistry and biology courses, as well as collaborate with a faculty member on an original research project. Graduates will therefore be very well-prepared for graduate study, or for professional programs such as medicine, veterinary medicine, optometry, or dentistry.

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Biology professor Scott Crupper and a student examine the results of a DNA experiment.

