

## DISCOVER

# Biology (Molecular)

Biology is the study of living creatures, from the simplest life forms to the complex human being. Molecular Biology studies life down to the molecular level. Cottey's biology program is designed to prepare students for further study in biological fields such as ecology, zoology, botany, and physiology. Pre-professional preparation for teaching, medicine, nursing, physical therapy, veterinary medicine and research is also an integral part of the advising and curriculum. We specialize in helping students make the transition from high school to upper division collegiate coursework.

### Career Opportunities

The various courses of study in biology at Cottey College can provide you with preparation for further work in a variety of disciplines such as medicine, biomedical research, physical therapy, biochemistry, genetic engineering, environmental studies, genetics, and animal science, to name just some of the majors our graduates have entered at their transfer institutions.

Over half of biology graduates who hold a bachelor's degree will work at educational institutions as educators. 1 in 8 biologists work for government agencies and another 8 percent work for non-profit research agencies. The largest group of biology graduates are employed in the health technology field, including occupations such as medical and lab technicians. In fact women with a degree in biology are 4 times more likely to work as a health technologist than men.

Many biology majors will go on to earn some type of advanced degree. Master's level degrees include advanced degrees in biology or business. Less than 10 % earn a doctorate degree, but about

a fourth will go on to earn a professional degree in medicine.

### Internship and Directed Study Opportunities

As a biology major, your chances to gain real world learning experiences through internships and directed studies are very important.

Students at Cottey College participate in internships throughout the year with a variety of businesses, organizations, and non-profit agencies. A successful internship provides students with an opportunity to apply their classroom learning to the workplace.

Employers and graduate schools agree that students who have put classroom concepts and skills to work in a "real world" environment are more realistic and productive than those who have not.

With the assistance of faculty and the transfer and career planning coordinator, biology majors can find a variety of local and national internship experiences.

### Get Involved

Want to have fun and develop your leadership skills and your resume at the same time? Then get involved at Cottey College and in the Nevada community.

Cottey College has more than 35 student clubs and organizations in which to be involved. Plus, the Nevada and surrounding community offer an abundance of service opportunities.

Here are a few activities on campus you might consider pursuing as a biology major: Explorers Club for the outdoor enthusiast, Students Against a Vanishing Environment (S.A.V.E.) to help preserve the environment, AIDS Activists Coming Together (AACT) to educate themselves and others about AIDS/HIV awareness and prevention.

Activities off campus include: volunteering at the YMCA, Nevada Veterinary Clinic, or with the Red Cross.

Opportunities exist locally to intern with the Nevada Veterinary Clinic, County Health Dept., as well as various health care facilities, non-profit organizations, and government agencies.

Directed study opportunities are available in all disciplines. Under the supervision of faculty, students can pursue academic credit on a topic or project that is related to, but beyond the scope of, regular course offerings.

Directed study topics can be tailored to your interests, whether it is conducting individual scientific research, studying girls' punk music, or conducting advanced computer programming.

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## SHAPING YOUR OWN DESTINY

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# Biology (4-Semester Sample Schedule)

Students should consult the catalog of the college to which they plan to transfer for specific requirements in their major. This suggested schedule is designed to provide the Associate in Science degree candidate with the appropriate Cottey College core curriculum and enough coursework in their field to complete the 62 hours required for an A.S. degree. *Schedules may vary based on available classes and interests.*

First Year Fall Semester	Credit Hrs.	First Year Spring Semester	Credit Hrs.
ENG101 English Composition I	3	ENG102 English Composition II	3
MAT103 College Algebra or higher	3 or 4	2nd course in same sci or math	
Lab Science BIO101 or 107	4	BIO 207	4
ECO, HIS, or POL	3	Fine Arts Theory	3
Physical Activity	1	MAT104 or MAT201	2 or 4
Electives	2 to 3	Physical Activity	1
		Electives	0 to 3
Second Year Fall Semester	Credit Hrs.	2Second Year Spring Semester	Credit Hrs.
Humanities	3	Social Science	3
CHE103 Second lab science	5	CHE104	5
BIO204	4	BIO206	4
Electives	3 or 4	Electives	4 to 5

## OTHER RELEVANT COURSES THAT ARE ALSO HIGHLY RECOMMENDED AS ELECTIVES:

BIO105 Botany  
 MAT112 Statistics  
 BIO107 Principles of Biology  
 MAT201 Calculus I (also MAT202, 203, & 204)  
 BIO211 Human Anatomy and Physiology (also BIO 212)  
 PHY101 Introductory Physics  
 CHE221 Organic Chemistry I (also CHE222)  
 PHY201 General Physics I (also PHY202)  
 CSC any computer science course

## Faculty Advising

Preparing a class schedule, investigating majors, and researching transfer institutions can be confusing for a first-year student. At Cottey College, academic advising assists the individual student in clarifying and achieving her educational goals.

Each student is assigned a full-time faculty member as an academic advisor. Together the advisor and student devise a balanced academic program, which encompasses the student's educational

and career ambitions. The advisor reviews all registration decisions, the advisee's academic progress, and suggests transfer and career options.

This personalized approach to student advising allows the student to take responsibility for her own academic program, while tapping into faculty expertise.

For more information contact:  
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