

## B.S. in Applied Biology

Be an Applied Biology major at Sage and discover...

### Where you'll go...

We are in the midst of a biological revolution. From the mapping of the human genome, to the emergence of biotechnology, to the exploration of myriad forms of life at the molecular level, the 21<sup>st</sup> century is the age of biology.

More than ever, there is a need for people to understand the science behind health care. Bridging the learning gap from scientific language to everyday language is an extremely marketable skill.

With Sage's internship component, our program takes you beyond the traditional lab setting and gains you entry into a variety of commercial jobs.

Whether you use your degree from Sage to pursue a career in health care, biological sciences, health or science communications, you'll have a unique opportunity to combine biology with your other interests.

Or, use your biology degree to prepare for medical school, physician assistant school or our doctorate in physical therapy program through Sage Graduate School.

### What you'll do...

*See yourself...*

- Pursuing a career as a health care administrator or manager.
- Working in industry or government as a public relations specialist.
- Writing about science, medicine, and health.
- Becoming a science illustrator.
- Representing pharmaceutical companies in sales.
- Entering medical school, law school, or the doctorate of physical therapy program at Sage.

### What you'll earn...

Medical and health services managers can earn from \$35,000 to more than \$55,000.

Doctors and lawyers can earn over \$150,000.

### At Sage you'll...

Gain an understanding of the process of science.

Learn to report lab investigations, think critically and logically about evidence, and solve problems with the help of well-developed computational and quantitative skills.

Develop an interdisciplinary perspective that incorporates art, science writing, computer science, communications & public policy, business or law.

Prepare for jobs outside traditional science careers or prepare for more traditional jobs in science, medicine or law.

Intern at relevant work settings throughout the Capital Region, including: the Wadsworth Laboratories, state government agencies, and environmental lobby groups. Or, intern in the summer at Dolphins Plus in Key Largo!

### How you'll get there...

Here are the requirements you will meet to earn a bachelor's degree in Applied Biology with a companion discipline. Premed and pre-physical therapy students have other required courses.

### Science Core

|                                  |   |
|----------------------------------|---|
| BIO 101 General Biology I        | 4 |
| BIO 102 General Biology II       | 4 |
| CHM 111 General Chemistry I      | 4 |
| CHM 112 General Chemistry II     | 4 |
| BIO 207 Fundamentals of Genetics | 3 |
| BIO 208 Microbiology             | 4 |
| BIO 351 Immunology               | 3 |
| BIO 321 Cell & Molecular Biology | 4 |

|  |   |
|--|---|
| BIO 320 Seminar in Biology               | 3 |
| BIO 359 Explorations in Research Methods | 3 |
| BIO 307 Internship                       | 3 |
| Biology Electives                        | 6 |
| <br>                                     |   |
| MAT 220 Applied Statistics               | 3 |
| College Algebra or Precalculus           | 3 |
| PHY 105 Conceptual Physics               | 3 |

### Companion Discipline

In consultation with an advisor, choose 7 courses from one of the following areas:

- Illustration
- Science Writing
- Communication
- Math and Computer Science
- Business
- Law & Society

**Or complete the required courses for premedical studies or acceleration (3+3) into the Doctorate of Physical Therapy program.**

### LIFE Curriculum Requirements

|                                |   |
|--------------------------------|---|
| COM 104 Oral Communications    | 3 |
| Humanities                     | 3 |
| HUM 112 Humanities Seminar II  | 3 |
| Social Science Electives       | 6 |
| Technology Competency          | 3 |
| LIFE Interdisciplinary Seminar | 3 |

General Electives 9

**Total Credits Required for B.S. Degree: 121**

\*Most students will have completed all but the LIFE curriculum requirements by the junior year.

### Learning by Interning

No one completes Sage College of Albany without significant experience in their field of interest. Internships are the norm at Sage, not the exception. This practice ensures students really can do what they have learned in the classroom. All areas of study allow you to learn by doing.

### About the Faculty

The diverse and talented members of the Sage faculty are highly credentialed academicians and dedicated teachers who are also authors, researchers, practitioners, and leaders in their fields. They encourage, challenge, and support Sage students and provide programs of study that connect the classroom to the world beyond campus.

Sage faculty members teach across The Sage Colleges and within four distinct schools: School of Arts and Sciences, School of Education, School of Nursing and Health Sciences, and School of Professional Studies. For a full list of faculty at Sage, go to [www.sage.edu/academics/faculty.php](http://www.sage.edu/academics/faculty.php)

### Preparing You for the Careers of the Future

Sage College of Albany readies you for the careers of today and the future. Many colleges can prepare you for traditional jobs in traditional fields (we can, too) but SCA also prepares its students for new and emerging professions. For example, the fastest growing industries worldwide are communications, entertainment, information and graphics, which are all linked to an understanding of 21st century business practices. Sage College of Albany can prepare you for careers that are on the horizon.

Beginning professional studies early in your course of study gives opportunities for internships as early as the second year. This allows you to pursue multiple areas of interest, change directions easily if needed, and develop the interdisciplinary competencies important in today's workplace.

### Program Contact:

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### For information regarding admission to Sage College of Albany, contact:

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Sage College of Albany  
140 New Scotland Ave.  
Albany, NY 12208  
1-888 VERY SAGE or  
(518) 292-1730

[scaadm@sage.edu](mailto:scaadm@sage.edu)

[www.sage.edu/sca/admission](http://www.sage.edu/sca/admission)