Programs

Biology, B.S.

(49 - 52 credits)

The Bachelor of Science in Biology, under the Department of Biology, Chemistry and Mathematics, is designed to provide broad preparation including pre-medical, pre-veterinary, and pre-dental training. Our department gives the student the basic entrance requirements for a variety of U.S. colleges of medicine, dentistry, and veterinary medicine. Entrance into these colleges is highly competitive. The completion of the degree does not guarantee acceptance. Albertus Magnus graduates have gone on to pursue medical, dental, and veterinary degrees. The Biology major at Albertus Magnus College also offers students opportunities to develop practical experience, through participation in faculty-directed research and career-related internship experiences.

This major meets the Connecticut State Department of Education requirements for those students enrolled in the initial teacher preparation program at Albertus Magnus College and are seeking a secondary level teacher certification with a biology or general science endorsement or middle level teacher certification with a general science endorsement. Contact the Department of Education and Teacher Preparation for additional information.

Upon completing the program of study in Biology, students will develop:

- Proficient knowledge base and breadth (introductory courses supplemented by upperlevel courses).
- Proficient critical thinking skills (data interpretation/presentation especially in upper level courses e.g., SC 351).
- Proficiency in written/oral communication skills (lab reports, research papers in introductory & advanced courses, oral presentations and in-class discussions).
- Proficiency in experimental design (present both in introductory & advanced levels
 especially with laboratory report components; should include a degree of creativity
 especially in design of experiments, the choice of experimental tools and the proper
 choice of experimental "controls").
- Proficiency in information literacy (all courses include a "library component" for research projects/papers; seminars by invited library staff to facilitate database access, navigation and usage).
- Proficiency in quantitative analysis (data interpretation & presentation; covered in both introductory and upper-levels courses).

MAJOR REQUIREMENTS

REQUIRED CORE (41 credits)

BI 111 General Biology I

BI 111L	General Biology I Laboratory	
BI 112	General Biology II	
BI 112L	General Biology II Laboratory	
BI 216	Cell Biology	
BI 216L	Cell Biology Laboratory	
BI 310	Genetics	
BI 310L	Genetics Laboratory	
CH 121	General Chemistry I	
CH 121L	General Chemistry I Laboratory	
CH 122	General Chemistry II	
CH 122L	General Chemistry Laboratory II	
CH 221W	Organic Chemistry I	
CH 221L	Organic Chemistry I Laboratory	
CH 222	Organic Chemistry II	
CH 222L	Organic Chemistry II Laboratory	
SC 131	General Physics I	
SC 131L	General Physics I Laboratory	
SC 132	General Physics II	
SC 132L	General Physics II Laboratory	
SC 351	Senior Science Seminar I	
REQUIRED CORRELATIVES (credits vary)		
CH 324	Biochemistry	
CH 324L	Biochemistry Laboratory	

Practicum/Internship

Pre-Calculus Calculus I

Programs	_

SC 302

MA 120

MA 121

Select one (3-4 credits):