



MAJOR CHOSEN: BIOLOGY

I. A BRIEF DESCRIPTION OF THE MAJOR

Biology is the study of living things. Because of the tremendous diversity of life forms, biology is perhaps the broadest of all the scientific disciplines. Individual living things can be studied on various levels ranging from their molecules through their cells, tissues, and organ systems. Populations of living things and their interactions with one another and with their environment represent another level of study. The biology major aims to provide training which properly captures the breadth of biology while maintaining the necessary depth of preparation needed by graduates who will pursue further specialized training in graduate or professional schools. While most secular biologists are committed to evolution as the basic principle of biology, Bob Jones University trains Christian biologists who see the living world indelibly marked with the fingerprints of a God of limitless wisdom and power.

II. COURSE HIGHLIGHTS

Here are some of the courses you will especially enjoy:

General Biology I & II In these courses you will study all the core disciplines, such as introductory cell and molecular biology, genetics, developmental biology, ecology, taxonomy, and a proper Christian philosophy of science.

Zoology Two different courses allow you to study the biology and classification of representative invertebrates or vertebrates, including aspects of their ecology, life, history, and behavior.

Botany This course covers the structures and functions of cells, tissues, and organs of flowering plants. You will study the major plant groups with regard to structure, life histories, ecology, classification, and behavior.

Human Anatomy and Physiology In this elective class, the structure and function of the human body is studied system by system. Computer-based physiology interfaces allow you to determine your own EKG and EEG patterns and more.

Field Biology Making the outdoors your laboratory, you will explore the physical and biotic relationships of animals and plants in this elective class.



III. A TYPICAL YEARLY COURSE SEQUENCE

This is a suggested program of study for you. Other refinements to your program can be made when you consult your faculty advisor at the time of your enrollment.

You will notice that some courses are listed as electives. These electives give you the opportunity to tailor your program by selecting courses you would like to take for your own personal enjoyment.

Freshman

Orientation	1	Orientation	1
General Biology I	4	General Biology II	4
College Algebra	3	History of Civilization.....	3
History of Civilization	3	New Testament Messages	1
Old Testament Messages	1	Fundamentals of Speech	3
English Composition.....	3	English Composition.....	3
Minor or Electives	<u>1</u>	Minor or Electives.....	<u>1</u>
Total	16	Total	16

Sophomore

Essentials of Cell Biology	4	Botany	4
General Chemistry I	4	General Chemistry II	4
Sophomore Bible Elective	1	Science: Impact on Society	3
English Literature.....	3	Sophomore Bible Elective	1
Minor or Electives	<u>4</u>	Minor or Electives	<u>4</u>
Total	16	Total	16

Junior

Invertebrate Zoology	4	Christian Family Forum	1
Elementary Statistics	3	Bible Doctrines	3
Bible Doctrines	3	Biology Elective	4
General Psychology	3	Psychology Elective	3
Minor or Electives	<u>3</u>	Social Studies Elective	3
Total	16	Minor or Electives	<u>2</u>
		Total	16

Senior

Biology Seminar	1	Oral Communication for the Professions	3
Upper-Level Bible Elective	2	Upper-Level Bible Elective	2
Biology Elective	8	Biology Elective	4
Minor or Electives	<u>5</u>	Minor or Electives	<u>7</u>
Total	16	Total	16

IV. FACILITIES, EQUIPMENT, AND OPPORTUNITIES

The biology department has three modern well-equipped laboratories along with an advanced projects laboratory. There is also a plant and animal room for maintaining living specimens.



The following special equipment is available for your use: high quality binocular compound and dissecting microscopes for each student; several research quality microscopes equipped with digital video, digital still, 35mm, and Polaroid cameras; a closed-circuit TV system feeding Laserdisk, videotape, and computer-generated video to all teaching labs and lecture rooms; Bio-Pac and PowerLab human physiology interfaces to Macintosh computers; high-quality analytical balances; ultraviolet/visible spectrophotometers; a superspeed refrigerated high-capacity centrifuge; an ultrapure water system. microcentrifuges, electrophoresis apparatus, PCR thermal cycler, and supporting equipment for genetic analysis.

A computer resource room in the Science Building is equipped with ten fast Apple Macintosh G5 dual processor computers and two eMacs, each thoroughly outfitted with lab simulation, tutorial, and other scientific software packages. The computer room also contains a color scanner and audio/video-import interfaces and is linked via a high-speed network to both high-quality laser and color ink-jet printers.

The following support facilities are located in our chemistry department and will be available for your use: sophisticated spectrophotometers (atomic absorption/emission, ultraviolet-visible) as well as gas and modular high-pressure liquid chromatographs.

You will have the option to become involved in an independent research project when you reach the upper-level portion of your program. Through this experience you will learn the basic techniques of research and proper preparation for graduate study.

Completely equipped computer laboratories are available for your use. There are many academic computer labs conveniently located all over campus. They consist of various types of PCs, Apple Macintosh G5s, and laser printers and are all interconnected via a Novell computer network.

Davis Field House, with over 87,000 square feet and seating for 3,000 people, contains 4 full-sized courts; auxiliary courts; indoor and outdoor tracks; swimming pool; café; and a fitness center with fully-equipped exercise room, aerobic room, sauna, and whirlpool.

The Mack Library, with 90,000 square feet of floor space and seating for over 1,300 students, gives you access to 294,000 volumes, 1,100 current periodical subscriptions, and more than 17,000 music, speech, and language recordings. Mack Library offers access to over 65 electronic databases on the library web site. An interlibrary loan program is available through OCLC, a national database, for books not held in our library. Other prominent features include the Jerusalem Chamber, a replica of the room in Westminster Abbey in London in which work was done on the 1611 King James Bible, and the University Archives Room which displays materials about the Founder and history of the University.

Chapel is a central feature of Bob Jones University. This 35-minute service is held every morning, Monday through Thursday. These services are a source of great inspiration to students. Four days a week the Chapel message is brought by the President or by selected speakers. Each Friday the Chapel period is devoted to the meetings of various literary societies.

The annual spring Bible Conference is one of the outstanding features of the University and Academy year. Your regular academic work will be suspended for the Conference, during which you will hear messages from outstanding Bible teachers, pastors, and evangelists.



If you are planning to live on campus, you will be glad to know that all of our residence halls are air-conditioned, have wall-to-wall carpeting, and have a phone in each room. You will be able to make long-distance calls directly from your room and have them automatically placed on your school bill. Computer network connectivity is available in all residence halls, as well.

All of our classrooms are air-conditioned, and there are awnings over the sidewalks to keep you dry when it is raining. The Dining Common serves 8,500 delicious meals a day, and the Snack Shop and Bookstore in the Student Center carry just about anything you'll need.

You will find the finest Christian young people in the country are your fellow students, and without trying too hard, you may end up making a life-long friend!

V. ABOUT THE FACULTY

All instructors in the biology department have earned Ph.D. degrees in specific areas. Some have done postdoctoral study and research with graduate faculty at major universities. Various faculty members have specialized in botany, plant pathology, microbiology, genetics, entomology, zoology, parasitology, and anatomy. Most of our biology faculty have 15 or more years of college teaching experience. They are highly qualified and vitally interested in the academic as well as the spiritual development of our students.

VI. CAREER OPPORTUNITIES AND PLACEMENT

Careers and positions open to you will include:

Agricultural sciences	Microbiologist
Agronomist	Medical Laboratory Technologist
Biotechnologist	Nurse
Botanist	Park Naturalist
Crime Lab Analyst	Pharmacologist
Cytotechnologist	Pharmacist
Ecologist	Physician/Physician's Assistant
Emergency Medical Technician	Public Health Service officer
Environmental Health Inspector	Physical Therapist
Food Scientist/Technologist	Researcher
Food and Drug Inspector	Respiratory Therapist
Forester	Toxicologist
Geneticist	Veterinarian
Histologist	Water/Wastewater Management
Horticulturist	Wildlife Biologist
Industrial Hygienist	Zoologist
Marine Biologist	



VII. BJU: AN AFFORDABLE EDUCATION

Enclosed is an expense sheet detailing the cost of attending Bob Jones University. When you compare our charges to those of other private colleges, we think you will be pleasantly surprised. We believe we offer a student more value for his dollar than anyone else in America. And to help you see how affordable "the Opportunity Place" can be for you, we have enclosed a financial aid brochure that you can use to evaluate your own situation. Your Admissions Counselor or the Director of Student Financial Aid would be happy to discuss this with you if you have any questions.

HOW TO TAKE THE NEXT STEP . . .

If you can see yourself in the career described in the profile, then a great opportunity awaits you at Bob Jones University. It is the opportunity for the premier Christian college experience in all the world. It is the opportunity for learning, for fun, and for developing new friendships. It is the opportunity to prepare for a lifetime of service for the Lord . . .

The Opportunity Place . . . God's Special Place for You.