



MAJOR CHOSEN: PRE-VETERINARY

I. A BRIEF DESCRIPTION OF THE MAJOR

The purpose of the Pre-veterinary major is to prepare you for success in veterinary school. A veterinarian must be thoroughly grounded in science and an accomplished diagnostician and problem solver who genuinely loves all kinds of animals. Our curriculum is designed to provide the necessary academic preparation, to foster critical thinking and problem-solving skills, and also to encourage spiritual and emotional growth. The performance of our students on the Veterinary College Admission Test (VCAT) indicates that our program provides a high-quality education and is well balanced.

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. During lab sessions, you will learn how to design biological experiments and you will use scientific equipment to conduct these experiments.

Vertebrate Zoology In this class you will learn basic concepts of development common to chordates, principles of taxonomy related to chordates, as well as a survey of the classes of vertebrates. The lecture will emphasize distinctive characteristics, comparative physiology and natural history. The laboratory portion of the course will compare the anatomy of the various organ systems through the dissection of representative specimens.

Biochemistry For two semesters you will be immersed in the world of proteins, enzymes, carbohydrates, lipids, bioenergetics, glycolysis, citric acid cycle, electron transport, oxidative phosphorylation, amino acid metabolism, and molecular physiology.

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
General Biology I	4
College Algebra	3
Old Testament Messages	1
Computer Applications Elective	3
English Composition.....	3
General Psychology	3
Total	18

Orientation	1
General Biology II	4
Transcendental Functions	3
New Testament Messages	1
Fundamentals of Speech	3
English Composition.....	3
Total	15

Sophomore

Essentials of Cell Biology.....	4
General Chemistry I.....	4
Elementary Statistics.....	3
History of Civilization	3
Sophomore Bible Elective.....	1
English Literature.....	3
Total	18

Human Anatomy & Physiology	4
Vertebrate Zoology	4
General Chemistry II	4
History of Civilization	3
Sophomore Bible Elective	1
Total	16

Junior

Human Anatomy & Physiology.....	4
Organic Chemistry I.....	4
Bible Doctrines	3
Oral Communication for the Professions	3
Total	14

General Embryology	4
Microbiology	4
Organic Chemistry II	4
Christian Family Forum	1
Bible Doctrines	3
Total	16

Senior

Genetics	4
Biochemistry I	4
History & Philosophy of Science	3
Introductory Physics or General Physics I.....	4
Upper-Level Bible Elective.....	2
Total	17

Biochemistry II	4
Science: Impact on Society	3
Intermediate Physics or General Physics II	5
Psychology Elective	3
Upper-Level Bible Elective	2
Total	17

IV. FACILITIES, EQUIPMENT, AND OPPORTUNITIES

Biology, chemistry, physics and electronics labs that are well equipped and up-to-date will be available to you. Among the ample and excellent equipment you will find not only materials and devices commonly required for routine undergraduate science experiments, but also a substantial number of high-quality microscopes, a refrigerated super-speed centrifuge, equipment for digital and analog still and motion photography through a research-level phase contrast and differential interference contrast microscope, and sophisticated spectrophotometers (atomic absorption/emission, ultraviolet-visible) as well as gas and modular high-pressure liquid chromatographs.



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 G5s, and laser printers and are all interconnected via a Novell computer network.

Dedicated exclusively for the use of science majors are ten dual processor Mac G5s and two eMacs. These machines feature molecular modeling and other science software. Physics labs are equipped with IBM Thinkpads. A closed-circuit TV system delivers DVD, CD, Laser Disc, and VHS video to all of the biology labs and to a large science lecture room. Equipment for molecular biology and genetics includes four specialized centrifuges, a PCR thermal cycler, and seventeen gel electrophoresis setups including two UV transilluminators equipped with UV sensitive cameras. A large ultralow freezer and a specialized environmental chamber are also available.

You will be advised by a Ph.D. or a D.V.M., who will assist you all along the path leading to admittance to veterinary school. They will give you advice as you select courses, help you find opportunities to learn about veterinary practice first hand, and help you prepare for the VCAT. They will also help guide you through the application process for veterinary school including writing letters of recommendation and helping prepare you for interviews.

Kaplan classes are available in Greenville that will help you prepare to take the VCAT. This course will help identify your weaknesses and build your confidence for the test.

A resources room in the Science Building supplements our array of science-oriented books and periodicals in the main library. We also have a large collection of videocassettes, videodiscs, DVDs, and slides.

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.

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

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.

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.

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

The science courses in the Pre-Veterinary program are taught by nine highly qualified, experienced, spiritually dedicated instructors. All hold earned Ph.D. degrees and hold a young earth creation position. Many have participated in other related fields, such as biological or chemical research, industrial consulting, textbook authoring or editing, creation-evolution debates, and involvement with state education conventions. A faculty and curriculum development institute for the sciences is held each summer on our campus and helps keep our faculty and their teaching honed and up-to-date.

VI. CAREER OPPORTUNITIES AND PLACEMENT

The Pre-Veterinary program has been designed to thoroughly prepare you for admission to veterinary school. Graduates of our program who subsequently obtained the D.V.M. are very complimentary about the level of their preparation. You will find that making a good academic record in our program will lead to a good performance on the VCAT. These two things combined with practical veterinary experience gained during the summers should put you in a good position to enter veterinary school.

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.