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## MAJOR CHOSEN: MATHEMATICS EDUCATION

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### I. A BRIEF DESCRIPTION OF THE MAJOR

This major prepares high school teachers to be both competent in their subject material and dedicated to their profession. It includes subject matter that includes a strong foundation in the basics of mathematics and extends to a level that gives the student a broad overview of the subject. Students are academically prepared to meet any high school classroom challenge. Students in this major also receive strong pedagogical training so that they are prepared to clearly communicate the subject matter to a student at all levels of high school abilities.

### II. COURSE HIGHLIGHTS

Here are some of the courses you will find especially profitable:

*Instructional Technology* This class will give you the opportunity to experience the latest in computer and educational technology. It will help you in the selection of computer hardware and educational software for your classroom.

*Teaching Mathematics (9-12)* This class will help you develop your Christian philosophy for teaching math. You will also study materials, methods, procedures, and related topics in the teaching of mathematics in the high school.

*Calculus I, II, III, IV* These four courses will help you understand the tremendous potential of mathematics as the building blocks of our present technological age. You will learn the basics of analytic geometry, functions, limits, integrals, transcendental functions, conic sections, formal integration, multi-variable functions, partial differentiation, multiple integration, and the Maclaurin and Taylor series.

*Directed Teaching* Here you will have a chance to "try your wings" by teaching under the supervision of an experienced teacher. You will begin gradually and work into handling a teacher's normal load.

### 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.



*Freshman*

Orientation .....	1
Physical Science .....	4
Transcendental Functions .....	3
History of Civilization .....	3
Old Testament Messages .....	1
Fundamentals of Speech .....	3
English Composition.....	<u>3</u>
Total .....	18

Orientation .....	1
Calculus I .....	3
Introduction to Computer Programming .....	3
History of Civilization .....	3
New Testament Messages .....	1
Appreciation of Music .....	2
Introduction to Education .....	2
English Composition.....	<u>3</u>
Total .....	18

*Sophomore*

Biological Science .....	4
Calculus II .....	3
Classroom Communication .....	2
Educational Psychology .....	3
Sophomore Bible Elective .....	1
English Literature.....	<u>3</u>
Total .....	16

Elementary Linear Algebra .....	3
Calculus III .....	3
Appreciation of Art .....	2
Instructional Technology .....	3
Sophomore Bible Elective .....	<u>1</u>
Total .....	12

*Junior*

Calculus IV .....	3
Probability & Statistics I .....	3
Christian Family Forum .....	1
Bible Doctrines .....	3
Practicum: Grades 9-12 .....	2
Minor or Electives .....	<u>4</u>
Total .....	16

Abstract Algebra .....	3
Bible Doctrines .....	3
Teaching Techniques (9-12).....	3
Teaching Mathematics (5-12) .....	1
Mathematics Elective .....	3
Minor or Electives .....	<u>3</u>
Total .....	16

*Senior*

Modern Geometry .....	3
Adolescent Psychology .....	3
Introduction to Exceptional Learners .....	3
Upper-Level Bible Elective .....	2
Social Studies Elective .....	3
Minor or Electives .....	<u>2</u>
Total .....	16

Trends & Issues in Society .....	3
Teaching Bible Principles .....	2
Assessment (5-12) .....	2
Directed Teaching .....	<u>9</u>
Total .....	16

**IV. FACILITIES, EQUIPMENT, AND OPPORTUNITIES**

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



**All students have opportunity to participate in the University's athletic program.** Through a well-integrated program of intramural athletic competition, a very high percentage of student participation is possible. You will have the opportunity to compete in a wide variety of both team and individual sports including soccer, speedball, basketball, softball, track, volleyball, tennis, swimming, badminton, judo, table tennis, racquetball, archery, wrestling, and indoor soccer.

**The Association of Christian Teachers** is an integral part of the School of Education. Films, programs, and activities are correlated very closely to the emphasis of the individual classes. This organization will provide you with opportunities for leadership and training and professional contact. Each of the 12 professional education departments elects representatives to serve as officers. Prospective teachers are urged to become members of the A.C.T. The A.C.T. awards a medal annually to the best elementary student teacher and the best secondary student teacher. By doing your best while you are a student here, you might be able to win this award.

**The Media Center** contains all the audiovisual equipment you are likely to use in teaching, including equipment for preparing transparencies, videotapes, laminated bulletin board figures, slide presentations, signs, and duplicating equipment. You will learn how to use these various machines under the guidance of our trained and dedicated staff. The Media Center is also equipped with various curriculum materials, textbooks, and teaching materials for all grade levels and subjects.

**You will have the opportunity to observe** experienced Christian teachers right on our campus in the beautiful buildings of Bob Jones Beginnings Center (kindergarten and first grade), Elementary School, Junior High, and Academy.

**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.

**Because of our care and concern for the spiritual as well as the physical needs** of the people in our part of the country, students are encouraged to be involved in outreach ministries in our area. While you are here you will have the opportunity to participate in as many of these ministries as you can fit into your schedule. These opportunities vary from work in nursing homes, jails, detention centers, and churches, to visitation, Bible clubs, providing special music, and martial arts teams.

**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.



**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 home 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 marrying one of them!

## V. ABOUT THE FACULTY

You will enjoy studying under our experienced and dedicated faculty. In addition to their teaching experience, a number of them have done outside consulting work. You will benefit from the practical firsthand experiences they have had using their knowledge to solve actual industry problems. Dr. Taylor has served as a consultant to industry in the field of mathematical theory, Dr. Guthrie has served as a computer consultant, and Mr. Lemon has served as a consultant to engineering firms. Dr. Pilger, who chairs the Mathematics Education department, has had extensive experience in curriculum development for the secondary level. She is a primary author of four high school math books currently on the market today. Together, these and the other Math Education faculty have over 100 years of combined experience teaching mathematics.

## VI. CAREER OPPORTUNITIES AND PLACEMENT

Some of the career opportunities available to our mathematics education graduates are:

- Teaching Mathematics
- Administration of Christian Schools
- Missionary Work
- Engineering
- Computer Science
- Actuary Services (Insurance)
- Law
- Graduate School

We receive approximately 50-75 requests for math teachers each year, and we graduate about ten. Also, we anticipate the number of requests for math teachers will be increasing in the coming years. (In 1981, *California State University at Long Beach* had 400 requests for mathematics education graduates. They graduated seven that year.) There is a wide open door of opportunity for you in this area if you believe the Lord is leading you in this direction.



The Career Development and Placement Office helps students by holding seminars on resume preparation and interview techniques.

A Principals' Recruitment Conference is sponsored by the Career Development and Placement Office each February. Approximately 140 administrators and principals from many states and some foreign countries gather to interview and hire new teachers for their schools. This conference will give you many opportunities to find a place of service after you graduate. In addition, the Career Office maintains a file of miscellaneous information about various Christian schools across the country. This file, too, may provide you with a contact that could lead to many years of active service for the Lord.

## **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.