
MAJOR CHOSEN: Master of Arts in Teaching Mathematics (9th - 12th grade)

I. A BRIEF DESCRIPTION OF THE MAJOR

The Master of Arts in Teaching degree program in Math (9th -12th Grade) is designed to provide those with baccalaureate degrees outside the field of education with the professional preparation needed for classroom teaching. This program has been approved for certification in South Carolina. With this degree we are trying to produce **thinking** teachers knowledgeable in their subject matter area. We want teachers to be able to prepare fresh, original lessons and not be bound to structured teacher's manuals. Your training in this program will equip you to evaluate academic curricula as well as to formulate a strong Christian philosophy of education.

II. COURSE HIGHLIGHTS

Here are some of the courses you will especially enjoy:

Psychology of Education You will survey psychological research and practices in education with special attention to teaching, development of Christian school programs, learning theory, and growth and behavior.

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.

Abstract Algebra You will learn set theory, topics from number theory, the theory of algebraic structures including mappings, group theory, rings, integral domains, and fields.

Probability and Statistics I This class covers elementary combinatorial analysis, independence and dependence, distribution functions, moment-generating functions, random variables, central limit theorem, elementary point and interval estimation, and hypothesis testing.

Advanced mathematics courses will enhance your mastery of the content areas for teaching in the classroom.

III. AN OUTLINE OF COURSE REQUIREMENTS

First Year

Probability & Statistics I	3	Abstract Algebra	3
Modern Geometry	3	Foundations of Education	3
Methods & Materials of Teaching	3	Philosophy of Education	3
Research in Education	3	Internship: MAT-Grades 7-12.....	1
Teaching Techniques (5-12)	1	Teaching Mathematics: MAT	3
Mathematics Elective	<u>3</u>	Teaching Reading in the Content Areas.....	<u>3</u>
Total	16	Total	16

Second Year

Trends & Issues in Society	3
Microcomputers for Teachers	3
Directed Teaching: MAT	<u>9</u>
Total	15

IV. ABOUT THE FACULTY

Dr. Gary Guthrie is the chairman of the Division of Mathematical Science at Bob Jones University. He has over 40 years service on the mathematics faculty. Dr. Guthrie has written articles which have been published in the Journal of Applied Probability.

Dr. Kathy Pilger is the head of the mathematics education department at BJU. She has taught both secondary and university level mathematics classes in both public and private education. Dr. Pilger is the primary author of four high school level textbooks including: Algebra 1, Algebra 2, Geometry, and PreCalculus for BJUP. Dr. Pilger frequently speaks at Christian school conferences on the topic of teaching mathematics.

Dr. David Brown is the chairman of the mathematics department at BJU. He has over 15 years teaching experience. Dr. Brown has co-authored numerous articles in mathematics.

Mr. Larry Lemon makes use of his over 35 years of teaching experience in many ways. In addition to his teaching in the mathematics department, Mr. Lemon has served as a consulting engineer for a local construction company. He has also served as a consultant to the public utility companies. Mr. Lemon has also written several manuals for these companies. He also serves as a contributing author to the Bob Jones University Press textbook division.

All together, these and the other faculty teaching in the Division of Graduate Studies in the School of Education have over 300 combined years of experience teaching. You will not find a better, more experienced faculty in the country.

You will be studying under many of the authors who researched and wrote the Textbooks for Christian Schools published by Bob Jones University Press. It may be their textbooks you will teach from when you graduate from Bob Jones University. You will be getting your training straight from the experts.

V. FACILITIES, EQUIPMENT, AND OPPORTUNITIES

The Media Center is the technology resource center for the School of Education. Here you will find equipment to help you prepare teaching materials for presentations and to help you integrate technology into your lessons. Its trained staff will assist you as you learn how to operate both the software and equipment, including copiers, scanners, computers, digital cameras and camcorders, data projectors, a laminator, a document binding machine, digital audio-video editing and graphic software, and its newest acquisition—the Promethean interactive white board. In addition, the Media Center houses copies of the BJU Press materials, which are used regularly in the methods classes.

Completely equipped computer laboratories are available for your use. There are seven academic computer labs on campus. They consist of Pentium PCs, Apple PowerMacs, and laser printers and are all interconnected via a Novell computer network. Four of these labs are conveniently located in the Alumni Building and are equipped with state-of-the-art equipment. The library and the Science Building contain the other three well-equipped computer labs.

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

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, martial arts teams, and mime teams.

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.

The Mack Library covers 89, 000 square feet of floor space and has seating for over 1,300 students. It provides you with 318, 000 items, including 17,000 music recordings, 70 electronic databases through the library website, and over 1,100 current periodical titles. In addition, the library participates in the statewide PASCAL Delivers program, allowing students to check out books from a statewide catalog of over nine million books. An interlibrary loan program for out of state borrowing is available through OCLC, a national database for books not held in our library. Other prominent features include the Jerusalem Chamber, a replica of a room in London's Westminster Abby in which work was done on the 1611 King James Bible, and the University Archives Room which displays materials about the Founder and the history of Bob Jones University.

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 most sidewalks are covered to keep you dry when it is raining. The Dining Common serves 8,500 delicious meals a day, and the Snack Shop and Campus Store in the Student Center carry just about anything you'll need.

If you are planning to live off campus, our **Office of Student Services** would be glad to assist you in finding employment and housing. You may request information by e-mailing Student_services@bju.edu or by calling (864) 242-5100.

You will find your fellow graduate students equally as serious about their studies, and many of them will become your good friends. Also you will have many opportunities to make valuable professional contacts during your time at Bob Jones University.

VI. CAREER OPPORTUNITIES AND PLACEMENT

You could have as many as three good teaching opportunities to choose from as you look for a place to teach. We receive over three times as many requests for teachers as we have teachers to fill those requests. And, in the future, the number of teaching opportunities will increase as we, as a nation, face a national teacher shortage. You will be qualified to help meet this need and train young people both in the states and abroad.

The Career Development and Placement Office sponsors the Christian School Recruitment Conference 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.