

Mathematics Program

OVERVIEW OF THE PROGRAM:

The mission of the mathematics degree program is to equip students with analytical and problem-solving skills for careers or graduate study. Classes develop a student's ability to apply mathematical methods and ideas to problems in both mathematics and other fields. Students learn to communicate ideas effectively, assimilate new information, and to be self-reliant learners. The department cooperates fully with the School of Education in meeting its mission for candidates for a B.A. degree in education with mathematics teaching specialization for either the 5-9 or the 5-Adult grade levels.

Degrees offered are B.S. in Mathematics, B.A. in Mathematics Education 5-Adult, and a 5-9 Math specialization attached to any other education degree. Students receiving a B.A. in Math Education also satisfy the degree requirements for the B.S. in Mathematics.

EMPLOYMENT OPPORTUNITIES:

Graduates of the Fairmont State Mathematics Program are employed by such diverse employers as the U.S. Census Bureau, the U.S. Navy, banking, manufacturing, chemical, computer, and engineering firms. Of recent graduates, approximately two-thirds of the B.S. recipients and half of the B.A. recipients have completed or are working toward advanced degrees.

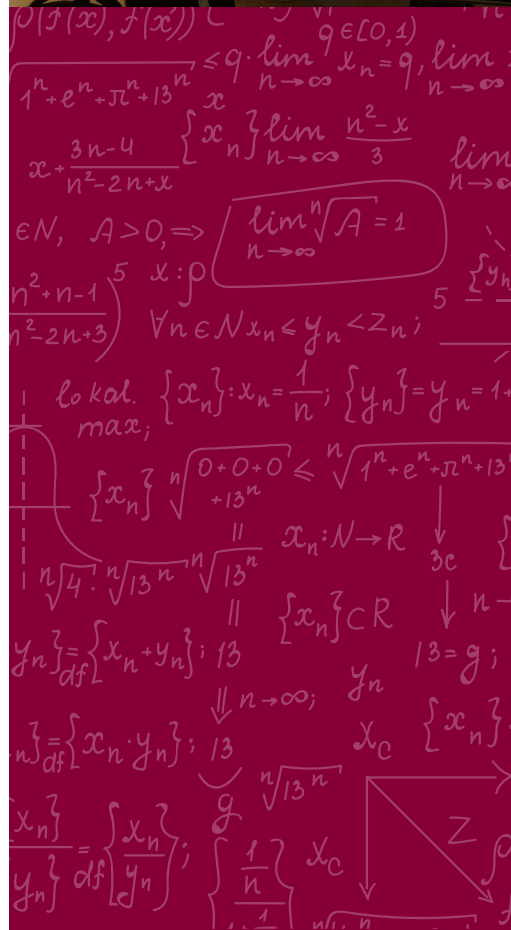
The national annual median wage for a mathematician with a B.S. degree is \$90,870.

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**FAIRMONT STATE
UNIVERSITY™**

**College of Science and
Technology**



CONTACT INFORMATION

Dr. Joe Riesen

Professor of Mathematics
Department of Math and Computer Science

424 Engineering Technology Building

Joseph.Riesen@fairmontstate.edu
Phone: (304) 367-4505

**DUAL DEGREES:
BACHELOR OF ARTS IN EDUCATION 5-ADULT
AND BACHELOR OF SCIENCE IN MATHEMATICS**

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

MATH 2501	CALCULUS I	4
MATH 1561	INTRODUCTION TO MATHEMATICAL REASONING	3
ENGL 1101	WRITTEN ENGLISH I	3-4
POLI 1103	AMERICAN GOVERNMENT	3
EDUC 2200	INTRO TO EDUCATION	3
		16-17

FRESHMAN SECOND SEMESTER

MATH 2502	CALCULUS II	4
ENGL 1102	WRITTEN ENGLISH II	3
COMP 1120	PRINCIPLES OF PROGRAMMING I	3
EDUC 2201	INSTRUCTIONAL TECHNOLOGY	3
MATH 2510	MATHEMATICAL LOGIC	3
		16

SOPHOMORE FIRST SEMESTER

MATH 3503	CALCULUS III	4
MATH 2563	TRANSITION TO HIGHER MATHEMATICS	3
EDUC 2203	HUMAN GROWTH & DEVELOPMENT	3
COMM 2200	INTRO TO COMMUNICATION	3
CHEMISTRY OR PHYSICS		4-5
		17-18

SOPHOMORE SECOND SEMESTER

ENGL 2220	WORLD LITERATURE I	3
EDUC 2240	HIGH INCIDENCE DISABILITIES	3
MATH 1550	APPLIED STATISTICS	3
MATH 3550	PROBABILITY	3
ELECTIVE		3
		15

JUNIOR FIRST SEMESTER

MATH 2562	INTRODUCTION TO DISCRETE MATH	3
MATH 3520/3570	LINEAR ALGEBRA/MODERN GEOMETRY	3
EDUC 2260	INSTRUCTIONAL DESIGN I	3
GEOG 2210	INTRO TO GEOGRAPHY	3
EDUC 2265	FIELD EXP II	1
		13

JUNIOR SECOND SEMESTER

MATH 2554	TOPICS IN MATH HISTORY	2
MATH 4520	ABSTRACT ALGEBRA	3
MATH 4580/4590	TOPOLOGY/REAL ANALYSIS	3
FINE ARTS (ANY IN GS)		3
EDUC 3331	READING IN CONTENT AREA	3
ELECTIVE		3
		17

SENIOR FIRST SEMESTER

MATH 4531	MATH METHODS	3
MATH 3520/3570	LINEAR ALGEBRA/MODERN GEOMETRY	3
EDUC 3340	INSTRUCTIONAL DESIGN II	3
EDUC 3351	INCLUSIVE PRACTICES	3
EDUC 3365	FIELD EXP III	2
		14

SENIOR SECOND SEMESTER

EDUC 4485	ACTION RESEARCH	1
EDUC 4486	PORTFOLIO	1
EDUC 4496	STUDENT TEACHING	10
		12

**BACHELOR OF SCIENCE IN MATHEMATICS
MODEL SCHEDULE**

FRESHMAN FIRST SEMESTER

MATH 2501	CALCULUS I	4
MATH 1561	INTRODUCTION TO MATHEMATICAL REASONING	3
COMP 1120	PRINCIPLES OF PROGRAMMING I	3
ENGL 1101	WRITTEN ENGLISH I	3-4
MINOR/ELECTIVE		3
		16

FRESHMAN SECOND SEMESTER

MATH 2502	CALCULUS II	4
MATH 1550	APPLIED STATISTICS	3
ENGL 1102	WRITTEN ENGLISH II	3
MINOR/ELECTIVE		3
MINOR/ELECTIVE		3
		16

SOPHOMORE FIRST SEMESTER

MATH 3503	CALCULUS III	4
MATH 2563	TRANSITION TO HIGHER MATHEMATICS	3
COMM 2200	INTRO TO HUMAN COMMUNICATION	3
MINOR/ELECTIVE		3
MINOR/ELECTIVE		3
		16

SOPHOMORE SECOND SEMESTER

MATH 3550	PROBABILITY & STATISTICS	3
MATH 2510	MATHEMATICAL LOGIC	3
GEOG 2210	INTRO TO GEOGRAPHY	3
MINOR/ELECTIVE		3
MINOR/ELECTIVE		3
		15

JUNIOR FIRST SEMESTER

MATH 3520	LINEAR ALGEBRA	3
GROUP B MATH ELECTIVE		3
MINOR/ELECTIVE		3
MINOR/ELECTIVE		3
CHEMISTRY OR PHYSICS		4
		16

JUNIOR SECOND SEMESTER

MATH 4520	ABSTRACT ALGEBRA	3
POLI 1103	AMERICAN GOVERNMENT	3
ENGL 2220	WORLD LITERATURE I	3
MINOR/ELECTIVE		3
MINOR/ELECTIVE		3
		15

SENIOR FIRST SEMESTER

GROUP B MATH ELECTIVE		3
FINE ARTS (ANY IN GS)		3
PHED 1100	FITNESS AND WELLNESS	2
MINOR/ELECTIVE		3
MINOR/ELECTIVE		3
		14

SENIOR SECOND SEMESTER

MATH 4580/4590	TOPOLOGY/REAL ANALYSIS	3
GS TECH LITERACY		3
MINOR/ELECTIVE		3
MINOR/ELECTIVE		3
		12