

Mathematics Program

OVERVIEW OF THE PROGRAMS

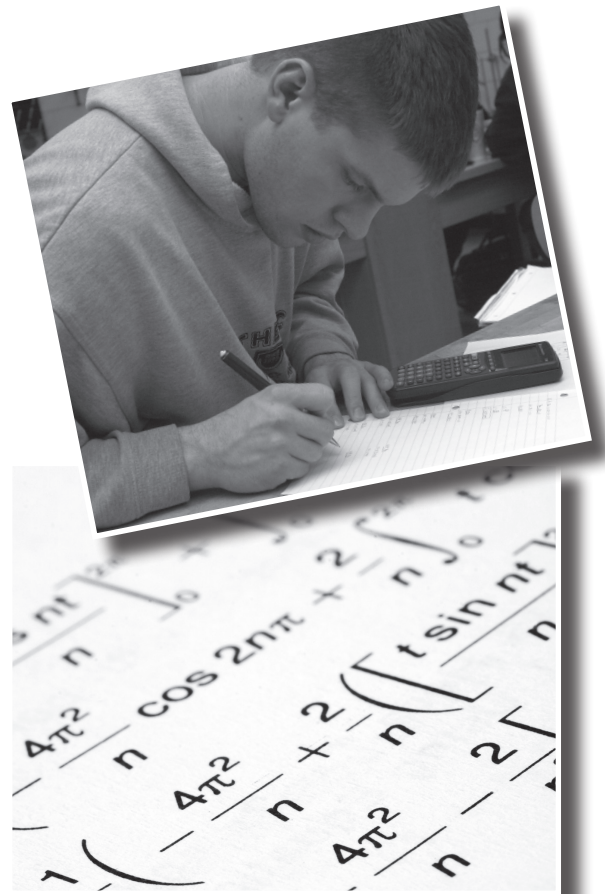
The mathematics program equips students with analytic and problem solving skills for careers and graduate study. Classes develop students' abilities and aptitudes to apply mathematical methods and ideas to problems in mathematics, sciences, computer science, actuarial science, statistics—virtually any area of inquiry. Students learn to communicate ideas effectively and to digest new information and concepts independently. We offer a B.S. in Mathematics. Mathematics, in conjunction with the School of Education, offers an B.A. degree in education with mathematics teaching specialization for either the 5-8 or 5-12 grade levels.

EMPLOYMENT OPPORTUNITIES

Graduates of the mathematics program at Fairmont State work for such diverse employers as the U.S. Census Bureau, the U.S. Navy, banking, manufacturing, chemical, computer, and statistics firms. Nearly all recent graduates who are not in graduate school have found employment in mathematics or related fields. Approximately 2/3 of the B.S. graduates and 1/2 of the B.A. graduates have completed or are working toward advanced degrees.

CONTACT INFORMATION

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fast fact

The annual median wage for a mathematician with a B.S. degree is \$90,870.00.

FOR MORE INFORMATION VISIT

www.fairmontstate.edu/academics/collegeofscitech/default.asp

MODEL SCHEDULE

Mathematics Education (5-12) (B.A.)

FRESHMAN FIRST SEMESTER

COMM 2200	INTRO TO HUMAN COMMUNICATION.....	3
EDUC 2200	INTRO TO EDUCATION.....	3
ENGL 1104	WRITTEN ENGLISH I.....	3
MATH 1190	CALCULUS I.....	4
MATH 1199	ST: READING & WRITING MATH PROOFS.....	1
G.S.SOC/HUM	.....	3
		17

FRESHMAN SECOND SEMESTER

COMP 1102	PRINCIPLES OF PROG. I.....	3
EDUC 2201	INSTRUCTIONAL TECHNOLOGY.....	3
ENGL 1108	WRITTEN ENGLISH II.....	3
MATH 1113 OR	ELECTIVE.....	3-4
MATH 3315	CALCULUS II.....	4
		16-17

SOPHOMORE FIRST SEMESTER

EDUC 2203	HUMAN DEVELOPMENT, LEARNING AND TEACHING .	3
MATH 3316	CALCULUS III.....	4
MATH 2212	SETS, RELATIONS AND FUNCTIONS.....	3
G.S. LIT	.....	3
SCIENCE (FROM LIST ABOVE)	.....	4-5
		17-18

SOPHOMORE SECOND SEMESTER

EDUC 2240	HIGH INCIDENCE DISABILITY.....	3
MATH 2200	MATHEMATICAL LOGIC.....	3
MATH 3361	ABSTRACT ALGEBRA.....	3
G.S. LIT	.....	3
G.S. SCI	.....	4-5
		16-17

JUNIOR FIRST SEMESTER

EDUC 2260	INSTRUCTIONAL DESIGN I.....	3
EDUC 2265	FIELD EXPERIENCE II.....	1
MATH 2216	DISCRETE.....	3
MATH 3362	LINEAR ALG.....	3
-OR-		
MATH 3372	GEOMETRY.....	3
G.S. CREATIVE EXP.....		3
G.S. SOC/HUM.....		3
ELECTIVES	.....	1
		17

JUNIOR SECOND SEMESTER

EDUC 3331	READING IN CONT AREA.....	3-4
MATH 3375/3391	TOPOLOGY/REAL ANALYSIS.....	3
MATH 3335	PROBABILITY & STATS.....	3
G.S. CIV.	.....	3
G.S. FINE ARTS APPREC.....		3
		15-16

SENIOR FIRST SEMESTER

EDUC 3340	INSTR DESIGN II.....	3
EDUC 3351	INCLUSIVE CLASSROOM PRACTICES.....	3
EDUC 3365	FIELD EXP III.....	2
MATH 4431	MATH METHODS.....	3
MATH 3362	LINEAR ALG.....	3
-OR-		
MATH 3372	GEOMETRY.....	3
		14

SENIOR SECOND SEMESTER

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

MODEL SCHEDULE

Mathematics (B.S.)

FRESHMAN FIRST SEMESTER

MATH 1190	CALCULUS I.....	4
ENGL 1104	WRITTEN ENGLISH I.....	3
INFO 1100	COMP. CON. & APPS.	3
GENERAL STUDIES - CULTURE/CIVILIZATION EXPLORATION ELECTIVE.....		3
GENERAL STUDIES - SOCIETY/HUMAN INTERACTION ELECTIVE.....		3
		16

FRESHMAN SECOND SEMESTER

MATH 3315	CALCULUS II.....	4
ENGL 1108	WRITTEN ENGLISH II.....	3
COMP 1102	PRINCIPLES OF PROGRAM I.....	3
MATH 1113	APPLIED STATISTICS OR ELECTIVE.....	3-4
COMM 2200	INTRO TO HUMAN COMMUNICATION.....	3
		16-17

SOPHOMORE FIRST SEMESTER

MATH 3316	CALCULUS III.....	4
MATH 2212	SETS, RELATIONS & FUNCTIONS.....	3
GENERAL STUDIES CIVILIZATION.....		3
SCIENCE I	4-5	
MINOR ELECTIVE	.....	3
		17-18

SOPHOMORE SECOND SEMESTER

MATH 2200	MATHEMATICAL LOGIC.....	3
MATH 3335	PROBABILITY & STATISTICS.....	3
GENERAL STUDIES SCIENCE.....		4-5
GENERAL STUDIES CIVILIZATION.....		3
MINOR ELECTIVE	.....	3
		16-17

JUNIOR FIRST SEMESTER

MATH 3362	LINEAR ALGEBRA.....	3
MATH ELECTIVE	.....	3
MINOR ELECTIVE	.....	3
GENERAL STUDIES ART, MUSIC OR THEATRE APPRECIATION.....		3
MINOR ELECTIVES	5-6	
		17-18

JUNIOR SECOND SEMESTER

MATH 3361	ABSTRACT ALGEBRA.....	3
MINOR ELECTIVE	.....	3
GENERAL STUDIES - CULTURE/CIVILIZATION EXPLORATION ELECTIVE.....		3
-OR-		
GENERAL STUDIES - SOCIETY/HUMAN INTERACTION ELECTIVE.....		3
GENERAL STUDIES - ARTISTIC/CREATIVE/INTERDISCIPLINARY ELECTIVE.....		3
MINOR LIB/GENERAL STUDIES GENERAL ELECTIVE.....		3
		15

SENIOR FIRST SEMESTER

MATH ELECTIVE	.....	3
MINOR ELECTIVE	.....	3
MINOR ELECTIVE	.....	9-12
		15-18

SENIOR SECOND SEMESTER

MATH 3375	TOPOLOGY.....	3
-OR-		
MATH 3391	REAL ANALYSIS.....	3
MINOR ELECTIVE	.....	12
		15