

Mathematical Sciences BS - STEM Track

Fall 2009 – Spring 2010

CONTACT INFORMATION

- Honors College Advisor: Kathleen Alligood (alligood@gmu.edu)
- Department Associate Chair: Klaus Fischer (kfischer@gmu.edu)
- Department Undergraduate Director: Jay Shapiro (jshapiro@gmu.edu)

Once students begin attending Mason and declare a major they should see both their Honors College and their major department advisor for advising.

REQUIRED HOURS

- Hours Required in Major: 46
- Hours Required in Honors: See honors advisor
- This major requires a total of 120 - 123 credits to graduate, 45 of which must be at the 300-level and above.

ADVISING SHEET

- Honors College Requirement
- ◆ Department Requirement
- ▲ College Requirement

1st Year – 1st Semester (Fall)		Credits
○ HNRS 110: Introduction to Research (grade C or better required)		4
◆ MATH 113: Analytic Geometry and Calculus I (designated placement score required) ³		4
◆ CS 112: Introduction to Computer Programming		4
◆ Elective		3
	Semester Total	15
1st Year – 2nd Semester (Spring)		
○ HNRS 122: Reading the Arts		3
◆ MATH 114: Analytic Geometry and Calculus II (prerequisite: "C" or better in MATH 113) or MATH 116: Analytic Geometry and Calculus II (Honors)		4
◆ MATH 125: Discrete Mathematics I		3
◆ Elective		3
	Semester Total	13
2nd Year – 1st Semester (Fall)		
○ HNRS 131: Contemporary Society in Multiple Perspectives		3
○ HNRS 240: Reading the Past		3
◆ Lab Science I ²		4
◆ MATH 213: Analytic Geometry and Calculus III		3
◆ MATH 203: Matrix Algebra		3
	Semester Total	16
2nd Year – 2nd Semester (Spring)		
○ HNRS 353: Technology in the Contemporary US (Grade of C or better required)		3

◆ Lab Science II ²	4
◆ MATH 216 (prereq: MATH 203 and MATH 213 or 215) or MATH 214	3
◆ MATH 290: Foundations of Mathematics	3
◆ Elective	3
Semester Total	16
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3 rd Year – 1 st Semester (Fall)	
Continue to see your MATH Dept. Advisor.	
Semester Total	15
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3 rd Year – 2 nd Semester (Spring)	
Continue to see your MATH Dept. Advisor.	
Semester Total	15
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4 th Year – 1 st Semester (Fall)	
Continue to see your MATH Dept. advisor.	
Semester Total	15
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4 th Year – 2 nd Semester (Spring)	
Continue to see your MATH Dept. advisor.	
Semester Total	15
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Total Hours	120

NOTES

- To complete the STEM Track, students must take two (2) of the following courses:
 - BIOL 213H
 - BIOL 303H
 - ECON 103H
 - CHEM 211H
 - CHEM 212H
 - CS 211H
 - MATH 116
 - MATH 215
 - PHYS 160H
 - PHYS 260H
 - PHYS 262H
- Students pursuing a BS in Mathematical Sciences need 2 years of lab science courses for science majors (or 3 semesters of Physics) and may take BIOL 213 followed by a higher level biology course, CHEM 211/212, or PHYS 160/161, 260/261, 262/263 or the Honors sections. (See BS degree program checklist at math.gmu.edu.)
- MATH 113 requires a placement exam. See the Math Department for placement exam days and times.