

INFORMATION TECHNOLOGY BS – STEM Track

Fall 2009 – Spring 2010

CONTACT INFORMATION

- Honors College Advisor: Kathleen Alligood (alligood@gmu.edu)
- Department Chair: Donald Gantz
- Department Program Coordinator: Charles Snow (csnow1@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: 67
- Hours Required in Honors: See honors advisor
- This major requires a total of 120 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 or HNRS 125: A Liberal Arts Approach to Calculus ¹		4
◆ IT 101: Introduction to Information Technology		3
◆ IT 103: Introduction to Computing		3
◆ Department-approved elective ³ , if elected		3
	Semester Total	13-17
1st Year – 2nd Semester (Spring)		
○ HNRS 122: Reading the Arts		3
◆ MATH 116 ⁴ : Honors Calculus II (if STEM Track requirement is being satisfied through this course) (Or choice of CS 112 / CS 211H for STEM track) Or Department-approved elective ³		4 or 3
◆ Natural Science Elective		3
◆ IT 108: Programming Fundamentals		3
◆ IT 250: Introductory Statistics		3
	Semester Total	15-16
2nd Year – 1st Semester (Fall)		
○ HNRS 131: Contemporary Society in Multiple Perspectives		3
○ HNRS 227: Scientific Thought and Process I ² Or a STEM Track Science ⁴		4
◆ IT 212: Computer hardware Fundamentals		3
◆ IT 214: Database Fundamentals		3
◆ IT 207 or IT 208: Applied IT Programming or Program Design and Data Structures		3
	Semester Total	16

2 nd Year – 2 nd Semester (Spring)	
○ HNRS 228: Scientific Thought and Process II Or a STEM Track Science ⁴	4
◆ Department-approved elective ³	3
◆ IT 213: Multimedia and Computer Graphics	3
◆ IT 223: Information Security Fundamentals	3
◆ MATH 112: Discrete Math for BSIT (Placement Test Required)	3
Semester Total	16
3 rd Year – 1 st Semester (Fall)	
○ HNRS 240: Reading the Past	3
◆ IT 304: IT in the Global Economy	3
◆ IT 341: Data Communications and Networking Principles	3
◆ MSOM 300: Managing Financial Resources	3
◆ Department-approved elective ³	3
Semester Total	15
3 rd Year – 2 nd Semester (Spring)	
○ HNRS 353: Technology in the Contemporary World (grade of C or better required)	3
◆ IT 300: Modern Telecommunications	3
◆ IT 343: IT Resources Planning	3
◆ IT Concentration Course	3
◆ MSOM 301: Managing People and Organizations	3
Semester Total	15
4 th Year – 1 st Semester (Fall)	
◆ IT 492: Senior Design Project I	3
◆ IT Concentration Course	3
◆ IT Concentration Course	3
◆ SYST 469: Human Computer Interaction	3
◆ Elective	3
Semester Total	15
4 th Year – 2 nd Semester (Spring)	
◆ IT 493 or IT 468: Senior Design Project II or Cyber Security Capstone	4
◆ IT Concentration Course	3
◆ IT Concentration Course	3
◆ Elective	0-5
Semester Total	10-15
Total Hours	120

NOTES

1. MATH 113 or HNRS 125 fulfill the quantitative reasoning requirement for the Honors Program. MATH 113 requires a placement exam. See the Math Department for exam days and times.

2. ASTR 111/112, BIOL 103, CHEM 103, GEOL 101, PHYS 103 or 243/244 will substitute for HNRS 227
3. College requirements (VS) include 24 credits of department-approved liberal arts and social science electives.
4. 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