

## Medical Technology BS – STEM Track

Fall 2008 – Spring 2009

### CONTACT INFORMATION

- Honors Program Advisor: Kathleen Alligood (alligood@gmu.edu)
- Department Chair: James Willett (jwillett@gmu.edu)
- Program Coordinator: Marcia Coss (mcoss@gmu.edu)

### REQUIRED HOURS

- Hours Required in Major: 69
- 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 Program Requirement
- ◆ Department Requirement
- ▲ College Requirement

<b>1<sup>st</sup> Year – 1<sup>st</sup> Semester (Fall)</b>		<b>Credits</b>
○ HNRS 110: Introduction to Research (grade C or better required)		4
○ HNRS 125: A Liberal Arts Approach To Calculus or HNRS 226: Topics in Quantitative Analysis, or MATH 113 (4 hours) <sup>3</sup>		3
◆ BIOL 213 or 213H: Cell Structure and Function <sup>4</sup>		4
Elective		3
	Semester Total	14
<b>1<sup>st</sup> Year – 2<sup>nd</sup> Semester (Spring)</b>		
HNRS 122: Reading the Arts		3
◆ Elective		3
◆ MATH 110: Introductory Probability and Statistics, or MATH 114 (4 hours), MATH 111, or STAT 250: Introductory Statistics I <sup>3</sup>		3
◆ BIOL 303: Animal Biology		4
	Semester Total	13
<b>2<sup>nd</sup> Year – 1<sup>st</sup> Semester (Fall)</b>		
○ HNRS 131: Contemporary Society in Multiple Perspectives		3
◆ MTCH 200: Introduction to Medical Technology <sup>2</sup>		1
◆ BIOL 305/306: Biology of Microorganisms/Laboratory		4
◆ CHEM 211 or 211H: General Chemistry <sup>4</sup>		4
◆ Elective		3
	Semester Total	15
<b>2<sup>nd</sup> Year – 2<sup>nd</sup> Semester (Spring)</b>		
Elective		3
Elective		3
◆ BIOL 311: General Genetics		4
◆ CHEM 212 or 212H: General Chemistry <sup>4</sup>		4
	Semester Total	14

3 <sup>rd</sup> Year – 1 <sup>st</sup> Semester (Fall)	
○ HNRS 240: Reading the Past	3
◆ BIOL 452/453: Immunology	4
◆ CHEM 313/315: Organic Chemistry/Lab	5
◆ Elective	3
Semester Total	15
3 <sup>rd</sup> Year – 2 <sup>nd</sup> Semester (Spring)	
HNRS 353: Technology in the Contemporary US (Grade of C or better required)	3
◆ CHEM 314/318: Organic Chemistry	5
◆ Electives	5
◆ Synthesis Elective (See catalog approved list) OUR PROGRAM HAS A SYNTHESIS COURSE---HNRS 353	3
Semester Total	16
4 <sup>th</sup> Year – 1 <sup>st</sup> Semester (Fall)	
◆ 30 semester hrs in Senior year taken off campus at an affiliated School of Medical Technology.	12
Semester Total	12
4 <sup>th</sup> Year – 2 <sup>nd</sup> Semester (Spring)	
◆ 30 semester hrs in Senior year taken off campus at an affiliated School of Medical Technology	
Semester Total	12
4 <sup>th</sup> Year – 3 <sup>rd</sup> Semester (Summer)	
◆ 30 semester hrs in Senior year taken off campus at an affiliated School of Medical Technology	
Semester Total	6
Total Hours	117

#### NOTES

1. MED TECH faculty advisor in BIOL Dept. should be consulted during first year.
2. MED TECH 200 must be taken in the first or second year. If students take BIOL 213/303 and BIOL 306/306 by the end of the first semester of their second year, they could take BIOL 311 (Genetics) in the spring of their second year. The prerequisites for BIOL 311 are BIOL 213, 303, 305/306.
3. HNRS 125, HNRS 226, or MATH 113, plus MATH 110, MATH 111, MATH 114, or STAT 250 satisfies the MATH requirement.
4. To complete the STEM Track, students must take two (2) of the following courses:
  - a. BIOL 213H
  - b. ECON 103H
  - c. CHEM 211H
  - d. CHEM 212H
  - e. CS 211H
  - f. MATH 116
  - g. PHYS 160H
  - h. PHYS 260H
  - i. PHYS 262H