

CHEMISTRY BS with a concentration in Biochemistry – LASS TRACK

Fall 2009 – Spring 2010

CONTACT INFORMATION

- Honors College Advisor: Kathleen Alligood (alligood@gmu.edu)
- Department Chair: Gregory Foster
- Department Undergraduate Coordinator: John Schreifels (jschreif@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: 37
- Hours Required in Honors: see honors advisor
- Total Required Hours: 120
- 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

	Credits
1st Year – 1st Semester (Fall)	
○ HNRS 110: Introduction to Research (Grade C or better required)	4
○ HNRS 122: Reading the Arts	3
◆ MATH 113: Analytic Geometry and Calculus I (a placement exam is required) ¹	4
◆ CHEM 211H: General Chemistry	4
Semester Total	15
1st Year – 2nd Semester (Spring)	
○ HNRS 130: Conceptions of Self	3
◆ MATH 114: or MATH 116 (prerequisite is a grade of C or better in MATH 113)	4
◆ CHEM 212H: General Chemistry or Honors General Chemistry	4
◆ Elective	6
Semester Total	17
2nd Year – 1st Semester (Fall)	
○ HNRS 131: Contemporary Society in Multiple Perspectives	3
◆ BIOL 213 or BIOL 213H: Cell Structure and Function or honors Cell Structure and Function	4
◆ CHEM 313 & 315: Organic Chemistry and Organic Chemistry Lab I	5
◆ PHYS 243 & PHYS 244: (required before CHEM 331)	4
Semester Total	16
2nd Year – 2nd Semester (Spring)	
◆ CHEM 463: General biochemistry I	4
◆ CHEM 314: Organic Chemistry	3

◆ CHEM 318: Organic Chemistry Lab II	2
◆ CHEM 350: computer Techniques for Chemistry	3
◆ PHYS 245 & 246: College Physics and College Physics Lab (required before CHEM 333)	4
Semester Total	16
3rd Year – 1st Semester (Fall)	
○ HNRS 240: Reading the Past	3
◆ CHEM 321: Elementary Quantitative Analysis	4
◆ CHEM 331 or 333: Physical Chemistry I or Physical Chemistry for the Life Sciences I	3
◆ CHEM 336: Physical Chemistry Lab I	2
◆ CHEM 464: General Biochemistry II	3
Semester Total	16
3rd Year – 2nd Semester (Spring)	
○ HNRS 353: Technology in the Contemporary World (grade of C or better required)	3
○ HNRS 230: Cross Cultural Perspectives	3
◆ CHEM 332 or 334: Physical Chemistry II or Physical Chemistry for the Life Sciences II	3
◆ CHEM 465: Biochemistry Lab	2
◆ BIOL 305/306: Biology of Microorganisms and Biology of Microorganisms Lab	4
Semester Total	15
4th Year – 1st Semester (Fall)	
◆ CHEM 446: Bioinorganic Chemistry	3
◆ CHEM 468: Bioorganic Chemistry	3
◆ Science Electives 300 or above	6
◆ Elective	3
Semester Total	16
4th Year – 2nd Semester (Spring)	
◆ CHEM 467: The Chemistry of Enzyme-Catalyzed Reactions	3
◆ Science Electives 300 and above	3
◆ Electives	9
Semester Total	15
Total Hours	126

NOTES

1. MATH 113 fulfills the quantitative reasoning requirement for Honors. MATH 113 requires a placement exam. See the Math department for exam days and times.