

## NEUROSCIENCE BS – STEM TRACK

Fall 2009 – Spring 2010

### CONTACT INFORMATION

- Honors College Advisor: Kathleen Alligood ([alligood@gmu.edu](mailto:alligood@gmu.edu))
- Department Chair: Deborah Boehm-Davis (Psychology)
- Department Program Coordinator: Jane Flinn ([jflinn@gmu.edu](mailto:jflinn@gmu.edu))
- Department Program Advisor: Caitlin Groeber ([cgroeber@gmu.edu](mailto:cgroeber@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:
- 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

1 <sup>st</sup> Year – 1 <sup>st</sup> Semester (Fall)	Credits
○ HNRS 110: Introduction to Research	4
◆ MATH 113: Analytic Geometry and Calculus I (requires a placement exam) <sup>1</sup>	4
◆ BIOL 213 or BIOL 213H: Cell Structure and Function <sup>2</sup>	4
◆ CHEM 211 or CHEM 211H: General Chemistry <sup>2</sup>	4
Semester Total	16
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1 <sup>st</sup> Year – 2 <sup>nd</sup> Semester (Spring)	Credits
◆ PSYC 100: Basic Concepts in Psychology	3
◆ MATH 114 or MATH 116 (MATH 114H) <sup>3</sup> : Analytic Geometry and Calculus II or Statistics foundation course	3-4
◆ BIOL 303 or BIOL 303H: Animal Biology <sup>2</sup>	4
◆ CHEM 212 or CHEM 212H: General Chemistry <sup>2</sup>	4
Semester Total	14-15
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2 <sup>nd</sup> Year – 1 <sup>st</sup> Semester (Fall)	Credits
○ HNRS 122: Reading the Arts	3
◆ PSYC 375: Brain and Behavior I	3
◆ CHEM 313/315: Organic Chemistry I & Lab	3-5
◆ Or Elective or Stat, if not taken above	
◆ PHYS 160/161 or 160H: University Physics I & Lab (pre- or coreq. MATH 114 or 116) or PHYS 243/244: College Physics I & Lab	4
Semester Total	13-15
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2 <sup>nd</sup> Year – 2 <sup>nd</sup> Semester (Spring)	Credits
○ HNRS 230: Cross-Cultural Perspectives (if taken instead of HNRS 131)	3

◆ PHYS 260/261 or 260H: University Physics II & Lab (pre- or coreq. MATH 213 or 215) or PHYS 245/246: College Physics II & Lab	4
◆ PSYC 376: Brain and Behavior II	3
◆ PSYC 373: Physiological Psychology Laboratory	1
◆ CS 112: Introduction to Computer Programming	4
Semester Total	15
<b>3<sup>rd</sup> Year – 1<sup>st</sup> Semester (Fall)</b>	
○ HNRS 240: Reading the Past	3
○ HNRS 131: Contemporary Society in Multiple Perspectives, if HNRS 230 not selected previously	3
◆ NSCI 335: Molecular, Developmental, and Systems Neuroscience	3
◆ See Department Adviser	6
Semester Total	15
<b>3<sup>rd</sup> Year – 2<sup>nd</sup> Semester (Spring)</b>	
○ HNRS 353: Technology in the Contemporary World (grade of C or better required)	3
◆ NSCI 327: Cellular, Neurophysiological, and Pharmacological Neuroscience	3
◆ NSCI 301: Laboratory Organization and Management	3
◆ See Department Adviser	6
Semester Total	15
<b>4<sup>th</sup> Year – 1<sup>st</sup> Semester (Fall)</b>	
◆ See department adviser	
Semester Total	15
<b>4<sup>th</sup> Year – 2<sup>nd</sup> Semester (Spring)</b>	
◆ See department adviser	
Semester Total	15
Total Hours	

#### NOTES

1. MATH 113 requires a placement exam. See the Math Department for exam days and times.
2. 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

3. Students intending to pursue graduate degrees are encouraged to take MATH 113/114 or 113/116 and CHEM 313/315. Students intending to attend medical school, in addition, need CHEM 314/318.