

**Office of Academic Advising**

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**Degree Audit Checklist:**

**Neuroscience Major**

**Expected graduation date:** \_\_\_ *May* \_\_\_ *January* **Year:** \_\_\_\_\_

**Name:** \_\_\_\_\_ **Hopkins ID:** \_\_\_\_\_  
*Last Name*
*First Name*
*MI*

**Email address:** \_\_\_\_\_ **Phone#:** \_\_\_\_\_

**Additional major or minor:** \_\_\_\_\_

**Instructions:** This form indicates which departmental and university requirements you have completed and which you must complete before graduation. If you have any questions, speak to your faculty advisor about department requirements, or to an academic advisor about other requirements.

**Special Notes for Juniors:**

This form is used to determine your eligibility for graduation and must be completed and filed with the Office of Academic Advising in the spring of your junior year.

1. Complete this form and have it approved and signed by your faculty advisor in the spring of your junior year. After this, make an appointment in the Office of Academic Advising and bring this form and a copy of your transcript to the advisor clearing for your major.
2. This form must be filled out **completely** and **neatly**, including course title and number as listed on transcript.
3. When noting that a course has been completed, please write in the grade you earned in that course under the column "Completed."
4. If you have completed the checklist with an advisor in the Office of Academic Advising and you make a change in a required course you intended to take you must notify the advisor of that change.

Course No. and Title	Completed	In Progress	To be Done
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*Please be advised that it may be possible for students who enter the University with Advanced Placement (AP) Credits in Biology, Chemistry and/or Physics to start the Neuroscience sequence in their freshman year. These students should begin with Systems Neuroscience (080.205).*

*Students who enter the University without the above mentioned AP credits should begin the Neuroscience sequence with Systems Neuroscience (080.205) in the Fall of their sophomore year.*

**Neuroscience Sequence** (12 credits). These courses are normally taken during the spring of freshman year, sophomore and junior years. They are usually taken in the following order:

080.203 Cognitive Neuroscience (Recommended Spring Freshman Yr.)	_____	_____	_____
080.305 The Nervous System I or 080.205 Systems Neuroscience (Recommended Fall Soph.Yr.)	_____	_____	_____
080.306 The Nervous System II or 080.304 Cell/Molec Neuroscience (Recommended Spring Soph.Yr.)	_____	_____	_____
080.250 Neuroscience Lab: A Practical Approach (Recommended Jr. Yr) <i>Required for class of 2008 and 2009</i>	_____	_____	_____

**Mathematics and Science Courses** (49 credits)

110.106 Calculus I for Biological Sciences (or 110.108)	_____	_____	_____
110.107 Calculus II for Biological Sciences (or 110.109)	_____	_____	_____

Course No. and Title	Completed	In Progress	To be Done
030.101 Introductory Chemistry I	_____	_____	_____
030.105 Introductory Chemistry Laboratory I	_____	_____	_____
030.204 Introductory Chemistry II	_____	_____	_____
030.106 Introductory Chemistry Laboratory II	_____	_____	_____
030.205 Organic Chemistry I	_____	_____	_____
030.206 Organic Chemistry II (optional)	_____	_____	_____
030.225 Organic Chemistry Laboratory (optional)	_____	_____	_____
171.101 General Physics I (or 171.103)	_____	_____	_____
171.102 General Physics II (or 171.104)	_____	_____	_____
171.111 General Physics Laboratory I	_____	_____	_____
171.112 General Physics Laboratory II	_____	_____	_____

*NOTE: Students applying to medical schools need to take Organic Chemistry II and Organic Chemistry Lab.*

**Required for the Cellular & Molecular Neuroscience concentration:**

020.305 Biochemistry	_____	_____	_____
020.315 Biochemistry Lab	_____	_____	_____
020.306 Cell Biology	_____	_____	_____
020.316 Cell Biology Lab	_____	_____	_____

**Systems Neuroscience and Cognitive Neuroscience concentrations must complete either the above Biochemistry/Cell Biology sequence, or the following alternate option:**

020.151 General Biology I	_____	_____	_____
020.153 General Biology Lab I	_____	_____	_____
020.152 General Biology II	_____	_____	_____
020.154 General Biology Lab II	_____	_____	_____

**Advanced Courses** (12 credits). 12 credits from neuroscience or neuroscience-related courses at the 300-level or above. At least 9 of the 12 credits must be from the chosen area of concentration (Systems, Cognitive, or Cellular and Molecular Neuroscience). Credits for research may not be applied toward this requirement. Courses counting toward fulfillment of this requirement are listed below. Other courses may be counted with the approval of the student's academic advisor.

9 credits from area of concentration: \_\_\_\_\_  
 Area of Concentration

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

3 credits from any area:

_____	_____	_____	_____	_____
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Area Designators: Cellular and Molecular (CM), Systems (ST), Cognitive (CG)

Course No.	Fall/Spring	Course Title	Area		
020.614	F	Neuronal Signaling Mechanisms	CM		
080.330	F	Brain Injury & Recovery of Function	CM	ST	W
250.345	F	Cellular & Molecular Physiology	CM		
580.625-626	F	Structure & Function Auditory & Vestibular Systems	CM		
020.607	F	Special Topics in Cellular & Molecular Neuroscience	CM		
050.372	F	Formal Methods in Cognitive Science	CG		
050.801	F	Research Seminar in Cognitive Neuropsychology	CG		
200.312	F	Imaging the Human Mind	CG	ST	
200.357	F	Cognitive Neuroscience of Memory	CG		W
080.450	F	Computational Neuroscience	CP	ST	
080.335	F	Neuroscience of Pain	ST		
080.352	F	Primate Brain Function	ST		
200.344	F	Behavioral Endocrinology	ST		W
200.642	F	Neural Circuits and Behavior	ST		
050.323	F	Developmental Cognitive Neuroscience	CG		
020.310	S	Developmental Neurobiology	CM		
020.313	S	Neurobiology of Sensation	CM		
080.340	S	Neuroplasticity	CM	ST	W
200.376	S	Psychopharmacology	CM	ST	
580.425	S	Ionic Channels in Excitable Membranes	CM		
050.311	S	Reading & Writing: Normal Processing & Disorders	CG		W
050.315	S	Cognitive Neuropsychology of Visual Perception	CG		
050.326	S	Foundations of Cognitive Science A	CG		W
050.341	S	Foundations of Cognitive Science B	CG		
200.368	S	Sleep, Dreams & Altered States of Consciousness	CG	ST	
580.439	S	Models of the Neuron	CP		
580.630	S	Theoretical Neuroscience	CP		
200.370	S	Functional Human Neuroanatomy	ST		
200.372	S	Psychology of Aging	ST		W
050.358	S	Language and Thought	CG		

Course No. and Title	Completed	In Progress	To be Done
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**Research** (6 credits). Six credits of research, obtained through work in one of the neuroscience laboratories participating in the program. Students register for 080.5XX, *Research in Neuroscience*, where the last two digits of the course number correspond to the student's year and the semester.

080.5__ Research in Neuroscience	_____	_____	_____
080.5__ Research in Neuroscience	_____	_____	_____
080.5__ Research in Neuroscience	_____	_____	_____

**Other Departmental Requirements:**

No departmental requirements may be taken pass/fail. A grade of C- or higher is mandatory for courses fulfilling departmental degree requirements. Neuroscience majors may not double major or minor in psychology, cognitive science, behavioral biology, or biology.

**Please initial here to indicate you have read and understand these requirements:** \_\_\_\_\_

**Honors in Your Major**

To graduate with honors in your major, you must complete an HONORS CLEARANCE CHECKLIST by April 1<sup>st</sup> in the year you expect to graduate in May. Most commonly, this means by April 1<sup>st</sup> of your senior year. Failure to submit this checklist by this date will mean that you will not receive honors in your major. You cannot complete the checklist before February 1<sup>st</sup> of the same year. Please note that these requirements are not related to "General University Honors." General University Honors are automatically assigned to all students who graduate with a 3.5 or higher.

To receive Honors in Neuroscience, you must have met the following criteria:

- Have a GPA in your major requirements of a 3.5 or higher.
- Research and Presentation
- Recommendation from research mentor

To notify us that you are eligible for honors, you must:

1. Obtain an honors checklist by either downloading it from [www.advising.jhu.edu](http://www.advising.jhu.edu) or by picking one up in the Office of Academic Advising.
2. Complete the checklist after February 1<sup>st</sup> of your senior year and take it to: Aaron Williams.
3. Return the signed checklist to the Office of Academic Advising by April 1<sup>st</sup>. You do not need to make an appointment to return the checklist, but it must be signed by the correct representative from your department or it will not be processed.

**Distribution Requirements for Majors:** These cannot include major requirements or courses.

Course No. and Title	Credits	Completed	In Progress	To be Done
18 credits of H and/or S				
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
12 additional credits of H, S, Q and/or E. (Twelve Q or E credits taken for departmental requirements may be used to fulfill the distribution requirement.)				
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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**University Requirements:**

120 total credits	_____	_____	_____
60 credits at Johns Hopkins	_____	_____	_____
4 semesters at Johns Hopkins	_____	_____	_____
4 writing intensive courses (12 credits)	_____	_____	_____
No more than 18 D credits	_____	_____	_____
No more than 5 Carey Business School and School of Education courses	_____	_____	_____
C average or better in your major	_____	_____	_____
No more than 12 transfer credits	_____	_____	_____

**HOW MANY SEMESTERS WILL YOU HAVE COMPLETED AT TIME OF GRADUATION?** \_\_\_\_\_

Language Elements Courses: Students who take the first semester of an elementary language course in French, German, Greek, Italian, Latin, Modern Hebrew, Portuguese or Spanish must complete the second semester course as well or lose the credit for the first term.

**FOR JUNIORS ONLY:****Student's Statement:**

I have reviewed my progress toward meeting the graduation requirements for my major. I understand which requirements have been completed and which remain to be completed, including those that are in progress, if any. **I agree to notify the Office of Academic Advising if I make any changes to my plan of study.**

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*Student's Signature*

*Date*

**Advisor's Statement:**

I have reviewed progress toward meeting the graduation requirements for the major with the student. We have marked which requirements have been completed and which remain to be completed, including those that are in progress, if any. **I have indicated by initialing or submitting a supporting memo any exceptions to departmental requirements that have been approved for this particular student.**

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*Faculty Advisor's Name*

*Signature*

*Date*

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*Academic Advisor's Name*

*Signature*

*Date*