BACHELOR OF ARTS (BA) DEGREE WITH A MAJOR IN NEUROSCIENCE

Program Learning Outcomes for the BA Degree with a Major in Neuroscience

Upon completing the BA degree with a major in Neuroscience, students will be able to:

1. Demonstrate knowledge of the biological basis for brain and neuron function and experimental strategies that led to our current understanding of brain and neuron function.
2. Demonstrate knowledge of the key issues, questions, and perspectives that define systems neuroscience.
3. Demonstrate the ability to analyze and interpret neuro-scientific data.
4. Understand multiple experimental methods to measure and manipulate brain activity.
5. Demonstrate how to apply the modern scientific method, including designing and executing experiments, and collecting, analyzing, and interpreting meaningful data.

Requirements for the BA Degree with a Major in Neuroscience

For general university requirements, see Graduation Requirements (ga.rice.edu/undergraduate-students/academic-policies-procedures/graduation-requirements). Students pursuing the BA degree with a major in Neuroscience must complete:

- A minimum of 23 courses (62-68 credit hours depending on course selection) to satisfy major requirements.
- A minimum of 122-128 credit hours to satisfy degree requirements.
- A minimum of 60 credit hours outside of major requirements.
- A minimum of 10 courses (26-32 credit hours) taken at the 300-level or above.

The courses listed below satisfy the requirements for this major. In certain instances, courses not on this official list may be substituted upon approval of the major’s academic advisor (or official certifier). Students and their academic advisors should identify and clearly document the courses to be taken.

Summary

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
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<td>Total Credit Hours Required for the Major in Neuroscience</td>
<td>62-68</td>
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<td>Total Credit Hours Required for the BA Degree with a Major in Neuroscience</td>
<td>122-128</td>
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Degree Requirements

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<th>Credit Hours</th>
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Foundation Courses

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<tr>
<td>BIOC 201</td>
<td>INTRODUCTORY BIOLOGY</td>
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Bachelor of Arts (BA) Degree with a Major in Neuroscience

LING 411  NEUROLINGUISTICS
NEUR 301  ADVANCED COGNITIVE NEUROSCIENCE: ATTENTION AND PERCEPTION
NEUR 302  ADVANCED COGNITIVE NEUROSCIENCE: HIGHER MENTAL FUNCTIONS
NEUR 310  INDEPENDENT RESEARCH FOR NEUROSCIENCE UNDERGRADUATES ¹
NEUR 382 / ELEC 382  INTRODUCTION TO COMPUTATIONAL NEUROSCIENCE
NEUR 415 / CAAM 415 / ELEC 488  THEORETICAL NEUROSCIENCE: FROM CELLS TO LEARNING SYSTEMS
NEUR 416 / CAAM 416 / ELEC 489  NEURAL COMPUTATION
PHIL 103  PHILOSOPHICAL ASPECTS OF COGNITIVE SCIENCE
PHIL 303  THEORY OF KNOWLEDGE
PHIL 312  PHILOSOPHY OF MIND
PHIL 358  PHILOSOPHY OF NEUROSCIENCE
PHIL 359  ANIMAL MINDS
PSYC 354  INTRODUCTION TO SOCIAL AND AFFECTIVE NEUROSCIENCE
PSYC 375  NEUROPSYCHOLOGY OF LANGUAGE AND MEMORY
PSYC 432  BRAIN AND BEHAVIOR

Total Credit Hours Required for the Major in Neuroscience 62-68

University Graduation Requirements (ga.rice.edu/undergraduate-students/academic-policies-procedures/graduation-requirements)

Total Credit Hours 122-128

Footnotes and Additional Information

¹ Includes coursework completed as distribution credit, FWIS, LPAP, upper-level, residency (hours taken at Rice), 60 hours outside of the major (if applicable), and any additional academic program requirements. The “hours outside of the major” requirement may include all of the above university requirements.

¹ NEUR 310 can be repeated and counted as an elective if a student has chosen NEUR 310 to count as a Project-Based Laboratory Course. It can only be repeated as an elective once for credit towards the major. If taken as a Project-Based Laboratory or as an Elective, NEUR 310 must be taken for at least 3 credit hours.

Departmental Transfer Credit Guidelines

Students pursuing the major in Neuroscience should be aware of the following departmental transfer credit guidelines:

• Requests for transfer credit will be considered by the program director (and/or the program’s official transfer credit advisor) on an individual case-by-case basis.

For additional information, please see the Neuroscience website: http://neuroscience.rice.edu/.

Opportunities for the BA Degree with a Major in Neuroscience

Academic Honors

The university recognizes academic excellence achieved over an undergraduate’s academic history at Rice. For information on university honors, please see Latin Honors (ga.rice.edu/undergraduate-students/honors-distinctions/university) (summa cum laude, magna cum laude, and cum laude) and Distinction in Research and Creative Work (ga.rice.edu/undergraduate-students/honors-distinctions/university). Some departments have department-specific Honors awards or designations.

Research in Neuroscience

Research is highly encouraged for all neuroscience programs, and many opportunities are available for independent research at Rice and other institutions of the Texas Medical Center. Students can receive course credit for independent research through the course NEUR 310 with the option to repeat for credit once as an elective for the major.

For additional information, please see the Neuroscience website: http://neuroscience.rice.edu/.

Policies for the BA Degree with a Major in Neuroscience

Transfer Credit

For Rice University’s policy regarding transfer credit, see Transfer Credit (ga.rice.edu/undergraduate-students/academic-policies-procedures/transfer-credit). Some departments and programs have additional restrictions on transfer credit. The Office of Academic Advising maintains the university’s official list of transfer credit advisors on their website: http://oaa.rice.edu. Students are encouraged to meet with their academic program’s transfer credit advisor when considering transfer credit possibilities.