Bachelor of Arts (BA) Degree with a Major in Cognitive Sciences

Program Learning Outcomes for the BA Degree with a Major in Cognitive Sciences

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

1. Understand cognitive science as an interdisciplinary field and demonstrate the ability to synthesize key knowledge, theories, methods, research, and other elements from many related disciplines and bring these interdisciplinary elements to bear on problems or questions in the cognitive sciences.
2. Demonstrate a breadth of knowledge of the key issues, questions, and perspectives at stake in the multiple disciplines that contribute to the study of the cognitive sciences.
3. Achieve a depth of knowledge in one core area of the cognitive sciences – linguistics, neuroscience, philosophy, or psychology – and develop a knowledge base in that discipline, as well as an understanding of the theories, methods, and research approaches in that discipline.
4. Demonstrate the advanced critical thinking skills necessary to evaluate multiple theories or methods from a variety of related disciplines and choose which to apply to a particular problem or question in the cognitive sciences, as well as the advanced critical thinking ability necessary to evaluate the validity of research results that purport to address the same problem or question, but with different results.
5. Demonstrate the ability to communicate original research or research by other scholars effectively and at a college level in written and oral formats.

Requirements for the BA Degree with a Major in Cognitive Sciences

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 Cognitive Sciences must complete:

- A minimum of 14 courses (42-46 credit hours, depending on course selection) to satisfy major requirements.
- A minimum of 120 credit hours to satisfy degree requirements.
- A minimum of 60 credit hours outside of major requirements.
- A minimum of 6 courses (18 credit hours) taken at the 300-level or above.
- A maximum of 4 courses (12 credit hours) from study abroad or transfer credit. For additional program guidelines regarding transfer credit, see the Policies tab.
- The requirements for one area of specialization (see below for areas of specialization). When students declare the major (ga.rice.edu/undergraduate-students/academic-opportunities/majors-minors-certificates/#text) in Cognitive Sciences, students must additionally identify and declare one of four areas of specialization, either in:
  - Linguistics (p. 3), or
  - Neuroscience (p. 3), or
  - Philosophy (p. 4), or
  - Psychology (p. 4).

Because of the common core requirements, it is possible for students to change their area of specialization at any time, even after initially declaring the major. To do so, please contact the Office of the Registrar (registrar@rice.edu).

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 where applicable, the department's Director of Undergraduate Studies. (Course substitutions must be formally applied and entered into Degree Works by the major's Official Certifier (https://registrar.rice.edu/facstaff/degreeworks/officialcertifier).) Students and their academic advisors should identify and clearly document the courses to be taken.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Credit Hours Required for the BA Degree with a Major in Cognitive Sciences</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Total Credit Hours Required for the BA Degree with a Major in Cognitive Sciences</td>
<td>120</td>
</tr>
</tbody>
</table>

### Degree Requirements

#### Core Requirements

**Computer Science Core Course**

Select 1 course from the following: 3-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAAM 210</td>
<td>INTRODUCTION TO ENGINEERING COMPUTATION</td>
<td>3-4</td>
</tr>
<tr>
<td>COMP 130</td>
<td>ELEMENTS OF ALGORITHMS AND COMPUTATION</td>
<td></td>
</tr>
<tr>
<td>COMP 140</td>
<td>COMPUTATIONAL THINKING</td>
<td></td>
</tr>
<tr>
<td>COMP 160</td>
<td>INTRODUCTION TO GAME PROGRAMMING IN PYTHON</td>
<td></td>
</tr>
<tr>
<td>PSYC 342</td>
<td>COMPUTER APPLICATIONS IN PSYCHOLOGY</td>
<td></td>
</tr>
</tbody>
</table>

**Advanced Computing Core Course**

Select 1 course from the following: 3-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAAM 415</td>
<td>THEORETICAL NEUROSCIENCE: FROM NEUR 415</td>
<td>3-4</td>
</tr>
<tr>
<td>ELEC 488</td>
<td>CELLS TO LEARNING SYSTEMS</td>
<td></td>
</tr>
<tr>
<td>NEUR 415</td>
<td>MACHINES</td>
<td></td>
</tr>
<tr>
<td>COMP 182</td>
<td>ALGORITHMIC THINKING</td>
<td></td>
</tr>
<tr>
<td>DSCI 303</td>
<td>MACHINE LEARNING FOR DATA SCIENCE</td>
<td></td>
</tr>
<tr>
<td>ELEC 478</td>
<td>INTRODUCTION TO MACHINE LEARNING</td>
<td></td>
</tr>
<tr>
<td>NEUR 382</td>
<td>INTRODUCTION TO COMPUTATIONAL NEUROSCIENCE</td>
<td></td>
</tr>
<tr>
<td>ELEC 382</td>
<td>NEUROSCIENCE</td>
<td></td>
</tr>
<tr>
<td>NEUR 383</td>
<td>INTRODUCTION TO NEUROENGINEERING:</td>
<td></td>
</tr>
<tr>
<td>BIOE 380</td>
<td>MEASURING AND MANIPULATING</td>
<td></td>
</tr>
<tr>
<td>ELEC 380</td>
<td>NEURAL ACTIVITY</td>
<td></td>
</tr>
<tr>
<td>PHIL 357</td>
<td>INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>PSYC 430</td>
<td>COMPUTATIONAL MODELING OF COGNITIVE PROCESSES</td>
<td></td>
</tr>
<tr>
<td>STAT 413</td>
<td>INTRODUCTION TO STATISTICAL MACHINE LEARNING</td>
<td></td>
</tr>
</tbody>
</table>

**Linguistics Core Course**

Select 1 course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 200 / ANTH 200</td>
<td>INTRODUCTION TO THE SCIENTIFIC STUDY OF LANGUAGE</td>
</tr>
<tr>
<td>LING 306</td>
<td>LANGUAGE, THOUGHT, AND MIND</td>
</tr>
<tr>
<td>LING 315 / PSYC 315</td>
<td>INTRODUCTION TO SEMANTICS</td>
</tr>
</tbody>
</table>

**Neuroscience Core Course**

Select 1 course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEUR 362 / PSYC 362</td>
<td>COGNITIVE NEUROSCIENCE: EXPLORING THE LIVING BRAIN</td>
</tr>
<tr>
<td>NEUR 380 / BIOC 380 / PSYC 380</td>
<td>FUNDAMENTAL NEUROSCIENCE SYSTEMS</td>
</tr>
<tr>
<td>NEUR 385 / BIOC 385</td>
<td>FUNDAMENTALS OF CELLULAR AND MOLECULAR NEUROSCIENCE</td>
</tr>
<tr>
<td>NEUR 411 / ANTH 411 / LING 411</td>
<td>NEUROLINGUISTICS</td>
</tr>
<tr>
<td>NEUR 415 / CAAM 415 / ELEC 488</td>
<td>THEORETICAL NEUROSCIENCE: FROM CELLS TO LEARNING SYSTEMS</td>
</tr>
<tr>
<td>NEUR 416 / CAAM 416 / ELEC 489</td>
<td>NEURAL COMPUTATION</td>
</tr>
<tr>
<td>NEUR 430</td>
<td>FUNDAMENTALS OF HUMAN NEUROIMAGING</td>
</tr>
<tr>
<td>NEUR 481 / BIOC 481 / ELEC 481</td>
<td>COMPUTATIONAL NEUROSCIENCE AND NEURAL ENGINEERING</td>
</tr>
</tbody>
</table>

**Philosophy Core Course**

Select 1 course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 103</td>
<td>PHILOSOPHICAL ASPECTS OF COGNITIVE SCIENCE</td>
</tr>
<tr>
<td>PHIL 305</td>
<td>MATHEMATICAL LOGIC</td>
</tr>
<tr>
<td>PHIL 312</td>
<td>PHILOSOPHY OF MIND</td>
</tr>
</tbody>
</table>

**Psychology Core Course**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 203</td>
<td>INTRODUCTION TO COGNITIVE PSYCHOLOGY</td>
</tr>
</tbody>
</table>

**Advanced Psychology Core Course**

Select 1 course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 308</td>
<td>MEMORY</td>
</tr>
<tr>
<td>PSYC 309 / LING 309</td>
<td>PSYCHOLOGY OF LANGUAGE</td>
</tr>
<tr>
<td>PSYC 351</td>
<td>PSYCHOLOGY OF PERCEPTION</td>
</tr>
<tr>
<td>PSYC 461</td>
<td>REASONING, DECISION MAKING, PROBLEM SOLVING</td>
</tr>
</tbody>
</table>

**Statistics Core Course**

Select 1 course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 339</td>
<td>STATISTICAL METHODS-PSYCHOLOGY</td>
</tr>
<tr>
<td>SOSC 302</td>
<td>QUANTITATIVE ANALYSIS FOR THE SOCIAL SCIENCES</td>
</tr>
<tr>
<td>STAT 280</td>
<td>ELEMENTARY APPLIED STATISTICS</td>
</tr>
<tr>
<td>STAT 305</td>
<td>INTRODUCTION TO STATISTICS FOR BIOSCIENCES</td>
</tr>
<tr>
<td>STAT 310 / ECON 307</td>
<td>PROBABILITY AND STATISTICS</td>
</tr>
<tr>
<td>STAT 315 / DSCI 301</td>
<td>PROBABILITY AND STATISTICS FOR DATA SCIENCE</td>
</tr>
</tbody>
</table>

**Area of Specialization**

1. Select 1 from the following Areas of Specialization (see Areas of Specialization below):

<table>
<thead>
<tr>
<th>Area of Specialization</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linguistics</td>
<td>LING 200 / ANTH 200, LING 306, LING 315 / PSYC 315</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>NEUR 362 / PSYC 362, NEUR 380 / BIOC 380 / PSYC 380, NEUR 385 / BIOC 385</td>
</tr>
<tr>
<td>Philosophy</td>
<td>PHIL 103, PHIL 305, PHIL 312</td>
</tr>
<tr>
<td>Psychology</td>
<td>PSYC 203</td>
</tr>
</tbody>
</table>

**Elective Requirements**

Select 2-3 elective courses from the other Areas of Specialization or from the following additional electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 182</td>
<td>ALGORITHMIC THINKING</td>
</tr>
<tr>
<td>COMP 330</td>
<td>TOOLS AND MODELS FOR DATA SCIENCE</td>
</tr>
<tr>
<td>COMP 440 / ELEC 440</td>
<td>ARTIFICIAL INTELLIGENCE</td>
</tr>
<tr>
<td>COMP 450 / ELEC 450 / MECH 450</td>
<td>ALGORITHMIC ROBOTICS</td>
</tr>
<tr>
<td>COMP 540</td>
<td>STATISTICAL MACHINE LEARNING</td>
</tr>
<tr>
<td>CSCI 390</td>
<td>SUPERVISED RESEARCH IN COGNITIVE SCIENCES</td>
</tr>
<tr>
<td>CSCI 481</td>
<td>HONORS PROJECT</td>
</tr>
<tr>
<td>DSCI 302</td>
<td>INTRODUCTION TO DATA SCIENCE TOOLS AND MODELS</td>
</tr>
<tr>
<td>ELEC 498 / COMP 498 / MECH 498</td>
<td>INTRODUCTION TO ROBOTICS</td>
</tr>
<tr>
<td>ENG 120</td>
<td>INTRODUCTION TO ENGINEERING DESIGN</td>
</tr>
<tr>
<td>STAT 413</td>
<td>INTRODUCTION TO STATISTICAL MACHINE LEARNING</td>
</tr>
</tbody>
</table>

**Total Credit Hours Required for the Major in Cognitive Sciences**

42-46

**Additional Credit Hours to Complete BA Degree Requirements**

14-18

**University Graduation Requirements**

(See: ga.rice.edu/undergraduate-students/academic-policies-procedures/graduation-requirements)

60

**Total Credit Hours**

120

**Footnotes and Additional Information**

* 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 Students must complete at least 3 courses (9 credit hours), and no more than 4 courses (12 credit hours) in one Area of Specialization. Students may not use the same course to fulfill both a Core Course requirement and an Area of Specialization requirement.
To fulfill the remaining Cognitive Sciences major requirements, students
Area of Specialization: Linguistics
requirements. See footnote course selection) must be taken in the area of specialization and elective
major. A total of 6 courses (minimum of 18-19 credit hours, depending on
following areas of specialization as offered by the Cognitive Sciences
Students must complete the requirements as listed for one of the
Areas of Specialization

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 200 / ANTH 200</td>
<td>INTRODUCTION TO THE SCIENTIFIC STUDY OF LANGUAGE</td>
<td>3</td>
</tr>
<tr>
<td>LING 300 / ANTH 300</td>
<td>LINGUISTIC ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>LING 301 / ANTH 301</td>
<td>PHONETICS</td>
<td>3</td>
</tr>
<tr>
<td>LING 304</td>
<td>INTRODUCTION TO SYNTAX</td>
<td>3</td>
</tr>
<tr>
<td>LING 306</td>
<td>LANGUAGE, THOUGHT, AND MIND</td>
<td>3</td>
</tr>
<tr>
<td>LING 309 / PSYC 309</td>
<td>PSYCHOLOGY OF LANGUAGE</td>
<td>3</td>
</tr>
<tr>
<td>LING 311 / ANTH 323</td>
<td>INTRODUCTION TO PHONOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>LING 315 / PSYC 315</td>
<td>INTRODUCTION TO SEMANTICS</td>
<td>3</td>
</tr>
<tr>
<td>LING 320</td>
<td>ORIGINS AND EVOLUTION OF HUMAN LANGUAGE</td>
<td>3</td>
</tr>
<tr>
<td>LING 325 / PSYC 325</td>
<td>LANGUAGE ACQUISITION</td>
<td>3</td>
</tr>
<tr>
<td>LING 397</td>
<td>SPEECH AND HEARING SCIENCE</td>
<td>3</td>
</tr>
<tr>
<td>LING 400</td>
<td>LINGUISTIC ANALYSIS II</td>
<td>3</td>
</tr>
<tr>
<td>LING 401</td>
<td>ANALYSIS OF SOUND PATTERNS</td>
<td>3</td>
</tr>
<tr>
<td>LING 404</td>
<td>RESEARCH METHODOLOGY AND LINGUISTIC THEORIES</td>
<td>3</td>
</tr>
<tr>
<td>LING 405</td>
<td>DISCOURSE</td>
<td>3</td>
</tr>
<tr>
<td>LING 409</td>
<td>SPECIAL TOPICS</td>
<td>3</td>
</tr>
<tr>
<td>LING 411 / ANTH 411 / NEUR 411</td>
<td>NEUROLINGUISTICS</td>
<td>3</td>
</tr>
<tr>
<td>LING 419</td>
<td>MULTILINGUALISM</td>
<td>3</td>
</tr>
<tr>
<td>LING 427</td>
<td>ADVANCED PHONOLOGY</td>
<td>3</td>
</tr>
</tbody>
</table>

Footnotes and Additional Information

1. LING 409 only counts toward the Cognitive Sciences major when the topic is related to Cognitive Science. For example, "Computational Linguistics" and "Gesture, Cognition, and Communication" count but "Variation in U.S. Hip Hop* does not. For questions regarding a specific instance of LING 409, consult a CSCI major advisor.

Area of Specialization: Neuroscience
To fulfill the remaining Cognitive Sciences major requirements, students pursuing the Neuroscience area of specialization must complete:

- a minimum of 3 courses (9 credit hours) from the Neuroscience area of specialization
- 2 courses (6-7 credit hours, depending on course selection) from any area of specialization outside Neuroscience (from Linguistics, Philosophy, or Psychology)
- 1 course (3-4 credit hours, depending on course selection) from any area of specialization (including Linguistics) or from approved elective coursework (listed above)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 442</td>
<td>MOLECULES, MEMORY AND MODEL ANIMALS: METHODS IN BEHAVIORAL NEUROSCIENCE</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 306</td>
<td>CONCEPTS OF LEARNING AND MEMORY</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 362 / PSYC 362</td>
<td>COGNITIVE NEUROSCIENCE: EXPLORING THE LIVING BRAIN</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 380 / BIOC 380 / PSYC 380</td>
<td>FUNDAMENTAL NEUROSCIENCE SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 382 / ELEC 382</td>
<td>INTRODUCTION TO COMPUTATIONAL NEUROSCIENCE</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 383 / BIOE 380 / ELEC 380</td>
<td>INTRODUCTION TO NEUROENGINEERING: MEASURING AND MANIPULATING NEURAL ACTIVITY</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 385</td>
<td>FUNDAMENTALS OF CELLULAR AND MOLECULAR NEUROSCIENCE</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 411 / BIOC 385</td>
<td>NEUROLINGUISTICS</td>
<td>3</td>
</tr>
<tr>
<td>NEUR 411 / ANTH 411 / LING 411</td>
<td>NEUROLINGUISTICS</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9-12 credit hours from the following:

- a minimum of 3 courses (9 credit hours) from the Neuroscience area of specialization
- 2 courses (6-7 credit hours, depending on course selection) from any area of specialization outside Neuroscience (from Linguistics, Philosophy, or Psychology)
- 1 course (3-4 credit hours, depending on course selection) from any area of specialization (including Linguistics) or from approved elective coursework (listed above)
Bachelor of Arts (BA) Degree with a Major in Cognitive Sciences

**THEORETICAL NEUROSCIENCE: FROM CELLS TO LEARNING SYSTEMS**

- NEUR 415 / CAAM 415 / ELEC 488

**NEURAL COMPUTATION**

- NEUR 416 / CAAM 416 / ELEC 489

**THEORETICAL NEUROSCIENCE: FROM CELLS TO LEARNING SYSTEMS**

- NEUR 415 / CAAM 415 / ELEC 488

**NEURAL COMPUTATION**

- NEUR 416 / CAAM 416 / ELEC 489

**NEUROSCIENCE AND LAW**

- NEUR 481 / BIOE 481 / ELEC 481

**NEUROPSYCHOLOGY OF LANGUAGE AND MEMORY**

- NEUR 450 / CAAM 450 / ELEC 485

**NEURAL ENGINEERING**

- NEUR 451 / ELEC 481

**METHODS IN SOCIAL COGNITIVE AND AFFECTIVE NEUROSCIENCE**

- PSYC 310 / LING 310

**FUNDAMENTALS OF HUMAN NEUROIMAGING**

- PSYC 320 / LING 320

**NEUROPSYCHOLOGY OF LANGUAGE AND MEMORY**

- PSYC 330 / LING 330

**THEORY OF KNOWLEDGE**

- PSYC 340

**MATHEMATICAL LOGIC**

- PSYC 350

**NEUROSCIENCE AND LAW**

- PSYC 360

**ANIMAL MINDS**

- PSYC 370

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PSYC 380 / NEUR 380 / BIOE 380

**NEUROPSYCHOLOGY OF LANGUAGE AND MEMORY**

- PSYC 390 / LING 390

**PHILOSOPHICAL ASPECTS OF COGNITIVE SCIENCE**

- PHIL 101

**PHILOSOPHY OF MIND**

- PHIL 201

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 212

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 215

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 301

**ANIMAL MINDS**

- PHIL 302

**THEORY OF KNOWLEDGE**

- PHIL 303

**MATHEMATICAL LOGIC**

- PHIL 305

**PHILOSOPHY OF MIND**

- PHIL 312

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 322

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 332

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 342

**THEORY OF KNOWLEDGE**

- PHIL 352

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 362

**COMPUTATIONAL NEUROSCIENCE AND NEURAL ENGINEERING**

- PHIL 372

**COMPUTATIONAL NEUROSCIENCE AND NEURAL ENGINEERING**

- PHIL 382

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 392

**THEORY OF KNOWLEDGE**

- PHIL 402

**MATHEMATICAL LOGIC**

- PHIL 412

**PHILOSOPHY OF MIND**

- PHIL 422

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 432

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 442

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 452

**THEORY OF KNOWLEDGE**

- PHIL 462

**MATHEMATICAL LOGIC**

- PHIL 472

**PHILOSOPHY OF MIND**

- PHIL 482

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 492

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 502

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 512

**THEORY OF KNOWLEDGE**

- PHIL 522

**MATHEMATICAL LOGIC**

- PHIL 532

**PHILOSOPHY OF MIND**

- PHIL 542

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 552

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 562

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 572

**THEORY OF KNOWLEDGE**

- PHIL 582

**MATHEMATICAL LOGIC**

- PHIL 592

**PHILOSOPHY OF MIND**

- PHIL 602

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 612

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 622

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 632

**THEORY OF KNOWLEDGE**

- PHIL 642

**MATHEMATICAL LOGIC**

- PHIL 652

**PHILOSOPHY OF MIND**

- PHIL 662

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 672

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 682

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 692

**THEORY OF KNOWLEDGE**

- PHIL 702

**MATHEMATICAL LOGIC**

- PHIL 712

**PHILOSOPHY OF MIND**

- PHIL 722

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 732

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 742

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 752

**THEORY OF KNOWLEDGE**

- PHIL 762

**MATHEMATICAL LOGIC**

- PHIL 772

**PHILOSOPHY OF MIND**

- PHIL 782

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 792

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 802

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 812

**THEORY OF KNOWLEDGE**

- PHIL 822

**MATHEMATICAL LOGIC**

- PHIL 832

**PHILOSOPHY OF MIND**

- PHIL 842

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 852

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 862

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 872

**THEORY OF KNOWLEDGE**

- PHIL 882

**MATHEMATICAL LOGIC**

- PHIL 892

**PHILOSOPHY OF MIND**

- PHIL 902

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 912

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 922

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 932

**THEORY OF KNOWLEDGE**

- PHIL 942

**MATHEMATICAL LOGIC**

- PHIL 952

**PHILOSOPHY OF MIND**

- PHIL 962

**PHILOSOPHY OF PSYCHOLOGY**

- PHIL 972

**INCOMPLETENESS, UNDECIDABILITY, AND COMPUTABILITY**

- PHIL 982

**PHILOSOPHY OF NEUROSCIENCE**

- PHIL 992

Footnotes and Additional Information

1 Some of the neuroscience courses are taught by Baylor College of Medicine faculty. Rice - Baylor College of Medicine neuroscience course offerings change frequently. Baylor courses not on the list below may be counted at the discretion of the steering committee. The most up-to-date listing of courses counting as additional courses is found at cogsci.rice.edu.

Area of Specialization: Philosophy

To fulfill the remaining Cognitive Sciences major requirements, students pursuing the Philosophy area of specialization must complete:

- a minimum of 3 courses (9 credit hours) from the Philosophy area of specialization
- 2 courses (6-7 credit hours, depending on course selection) from any area of specialization outside Philosophy (from Linguistics, Neuroscience, or Psychology)
- 1 course (3-4 credit hours, depending on course selection) from any area of specialization (including Philosophy) or from approved elective coursework (listed above)

Area of Specialization: Psychology

To fulfill the remaining Cognitive Sciences major requirements, students pursuing the Psychology area of specialization must complete:

- a minimum of 3 courses (9-10 credit hours, depending on course selection) from the Psychology area of specialization
- 2 courses (6 credit hours) from any area of specialization outside Psychology (from Linguistics, Neuroscience, or Philosophy)
- 1 course (3-4 credit hours, depending on course selection) from any area of specialization (including Psychology) or from approved elective coursework (listed above)

Policies for the BA Degree with a Major in Cognitive Sciences

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: [https://oaa.rice.edu](https://oaa.rice.edu). Students are encouraged to meet with their academic program's transfer credit advisor when considering transfer credit possibilities.

**Program Transfer Credit Guidelines**
Students pursuing the major in Cognitive Sciences should be aware of the following program-specific transfer credit guidelines:

- No more than 4 courses (12 credit hours) of transfer credit from U.S. or international universities of similar standing as Rice may apply towards the major.
- Request 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.

**Additional Information**
For additional information, please see the Cognitive Sciences website: [https://cogsci.rice.edu/](https://cogsci.rice.edu/).

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**Opportunities for the BA Degree with a Major in Cognitive Sciences**

**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](https://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](https://ga.rice.edu/undergraduate-students/honors-distinctions/university)). Some departments have department-specific Honors awards or designations.

**Honors Program in Cognitive Sciences**
Students with a 3.50 major GPA in Cognitive Sciences and 3.30 overall GPA may apply for the cognitive sciences honors program. Students in the honors program are expected to conduct an independent research project of either one or two semesters under the guidance of a member of the cognitive sciences faculty. Students who wish to enter this program should consult with prospective advisors during their junior year and submit a proposal by the end of the semester preceding the initiation of the project. Typically, this means submitting a proposal by the end of the junior year and beginning the project during the fall of the senior year. Proposal will be reviewed by both the supervisor and the program director. Students who undertake a two-semester project will be allowed to continue into the second semester only if their advisor judges that sufficient progress has been made during the first semester. At the end of a project, honors students are expected to submit a final paper to both their advisor and the program director and make an oral presentation to faculty and students. For more details, please contact the program director.

**Independent Research**
Majors may undertake supervised independent research by enrolling in CSCI 390 or the honors program. Students who wish to take CSCI 390 must complete a CSCI 390 contract and have it approved by their supervisor and the program director prior to the end of the first week of classes. All students taking CSCI 390 also must write a substantive research paper, which is to be submitted to both their advisor and the program director at the end of the semester, and presented in the Rice Undergraduate Research Symposium as a poster. (Copies of the contract form and instructions are available on the “forms” section of the cognitive sciences website.)

**Additional Information**
For additional information, please see the Cognitive Sciences website: [https://cogsci.rice.edu/](https://cogsci.rice.edu/).