

Sample Four-Year Sequence for COGS Major
124 credits

| Freshman Year | | | | | |
|--------------------------------------|-----------------------------|---|---------------------------------|----------------------------------|---|
| Fall Semester | | | Spring Semester | | |
| MATH-1010 | Calculus I | 4 | MATH-1020 | Calculus II | 4 |
| IHSS-1140 | Minds and Machines* | 4 | COGS-2120 | Intro to Cognitive Science* | 4 |
| CSCI-1100 | Computer Science I | 4 | CSCI-1200 | Data Structures | 4 |
| | HASS Human Elective | 4 | COGS-296x | Intro to Linguistics* | 4 |
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| Sophomore Year | | | | | |
| Fall Semester | | | Spring Semester | | |
| PHIL-2140 | Introduction to Logic | 4 | CSCI-2300 | Introduction to Algorithms | 4 |
| CSCI-2200 | Foundations of Comp Sci | 4 | PSYC-4370 | Cognitive Psychology | 4 |
| PSYC-2310 | Research Methods & Stats. I | 4 | | Cognitive Science Elective | 4 |
| PSYC-4410 | Sensation and Perception | 4 | CSCI-4150 | Intro to Artificial Intelligence | 4 |
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| Summer Arch & Junior Year | | | | | |
| Summer Arch Semester | | | Fall or Spring Semester* | | |
| | HASS Social Sci Elective | 4 | | HASS Social Sci Elective | 4 |
| | HASS Human Elective | 4 | | HASS Depth Elective | 4 |
| | Free Elective | 4 | | Free Elective | 4 |
| | | | | Free Elective | 4 |
| | | | | | |
| Senior Year | | | | | |
| Fall Semester | | | Spring Semester | | |
| PHIL-4480 | Metaphysics & Consciousness | 4 | COGS-4990 | Undergraduate Thesis | 4 |
| COGS-4210 | Cognitive Modeling* | 4 | | Cognitive Science Elective | 4 |
| PSYC-4330 | Intro to Cog Neuroscience | 4 | | Free Elective | 4 |
| | HASS Depth Elective | 4 | | Free Elective | 4 |

FOOTNOTES:

1. *PHIL-2100 or PHIL-2130 can substitute for IHSS-1140*
2. *Intro to Linguistics or any Linguistics course*
3. *COGS-4410 can substitute for COG- 4210*
4. *Cognitive Science Electives (2):*

Choose a total of two additional courses from the following list. The electives need to be courses other than those used to satisfy the core options.

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|----------------|----------------------------------------|
| COGS-4410 | Programming for COGS and AI |
| COGS-4620 | Cognitive Engineering |
| COGS-496x | Cognitive Robotics |
| COGS-4420 | Game AI |
| COGS-4640 | Intelligent Virtual Agents |
| COGS-496x | Affective Computing |
| COGS-496x | Language Endowed Intelligent Agents |
| COGS-496x | Cognitive Science of Brain Plasticity |
| COGS-4600 | Cognition and The Brain |
| CSCI-4100 | Machine Learning from Data |
| CSCI-4110 | Computational Social Processes |
| CSCI-496x | Natural Language Processes |
| CSCI/ECSE-4480 | Robotics I |
| CSCI/ECSE-4490 | Robotics II |
| ECSE-4540 | Intro to Image Processing |
| ISYE-4260 | Human Performance Modeling and Support |
| ISYE-4810 | Computational Intelligence |
| PHIL-2100 | Critical Thinking |
| PHIL-2130 | Introduction to Philosophy of Science |
| PHIL-4140 | Intermediate Logic |
| PHIL-4260 | Philosophy of Artificial Intelligence |
| PHIL-4420 | Computability and Logic |
| PSYC-4110 | Motivation and Performance |
| PSYC-4450 | Learning |
| PSYC-4320 | Behavioral Neuroscience |

Or other advisor-approved course in the area of Cognitive Science or with approval from the Undergraduate Program Director.

5. *Guidelines for HASS Core:*

- *2 course in ARTS/COMM/IHSS/LANG/LITR/PHIL/STSH/WRIT*
- *2 courses in COGS/ECON/IHSS/PSYC/STSS*
- *Max 3 1000 level; Min 1 4000 level*
- *2 course depth sequence (same department prefix, only 1 at 1000 level).*