Please use Degree Navigator (DN) to generate an academic report for the Cognitive Science minor: **http://nbdn.rutgers.edu**. DN is an advising tool designed to help students make informed decisions regarding their academic progress. It allows you to manage your general education, major, and minor requirements. To declare your minor in Cognitive Science, please visit: **http://mymajor.sas.rutgers.edu/**.

**Undergraduate Minor Requirements:** The interdisciplinary minor in Cognitive Science consists of a minimum of **18** credits, distributed as follows:

**1. At least 3 courses offered by Cognitive Science (\*= recitation included):**

01:185:201: Cognitive Science: A Multi-disciplinary Introduction (4) \*
01:185:253: Human Nature and Diversity (4) \*
01:185:301: Cognition and Decision Making (4) \*
01:185:310: The Concept of Concepts in Cognitive Science (3)
01:185:320: Research Methods in Cognitive Science (3)
01:185:330: Meaning and Numbering (3)
01:185:335: Neural Structure of Language (3)
01:185:340: Language and Cognition (previously 410; 3)
01:185:345: Person Perception and Social Cognition (3)

01:185:350: Fundamentals of Cognitive Neuroscience (3)
01:185:401: Visual Intelligence (3)
01:185:411: Undergrad Seminar in Cognitive Science (4) \*
01:185:412: Advanced Topics in Cognitive Science II (3)
01:185:413: Advanced Topics: Cognitive Neuroscience (3)
01:185:414: Advanced Topics: Decision Making (3)
01:185:415: Advanced Topics: Perception (3)
01:185:416: Advanced Topics: Minds, Machine & Computation (3)
01:185:417: Advanced Topics: Perception (3)
01:185:430: Cognitive Neuroscience through Case Studies (4) \*

**2. A minimum of 3 credits in formal/analytic methods used in cognitive science. The following courses automatically count:**

01:198:107: Computing for Math and the Sci (3)
01:198:111: Intro to Computer Science (4)
01:198:112: Data structures (4)
01:198:205: Intro to Discrete Structures I (4)
01:198:206: Intro to Discrete Structures II (4)
01:615:305: Syntax (3)
01:615:315:  Phonology (3)
01:615:325: Semantics (3)
01:615:411: Morphology (3)
01:640:300: Intro to Mathematical Reasoning (3)

01:640:338: Discrete and Probabilistic Models in Bio (3)
01:640:339: Math Models in the Social Sci (3)
01:640:361: Set Theory (3)
01:640:428: Graph Theory (3)
01:640:454: Combinatorics (3)
01:640:461: Mathematical Logic (3)
01:640:477: Mathematical Theory of Probability (3)
01:640:478: Probability II (3)
01:640:481: Mathematical Theory of Statistic (3)
01:730:201: Intro to Logic (3)

01:730:315: Applied Symbolic Logic (3)
01:730:407: Intermediate Logic I (3)
01:730:408: Intermediate Logic II (3)
01:830:200: Quantitative Methods in Psychology (4)
01:830:400: Advanced Statistical Methods
        in Psychology (3)
01:960:379: Basic Probability and Statistics (3)
01:960:381: Theory of Probability (3)
01:960:382: Theory of Statistics (3)
01:960:401: Basic Statistics for Research (3)

**3. A minimum of an additional 6 elective credits. Any course listed as an approved "formal/analytic" course may be counted as electives. If you take more than the required three courses offered by Cognitive Science in requirement #1, any additional course will be counted as an elective. The following additional courses automatically count:**

01:119:195: Brain, Mind and Behavior (3)
01:146:245: Fundamentals of Neurobiology (CBN majors) (3)
01:146:295: Essentials of Cell Bio and Neuro (Non CBN majors) (3)
01:146:445: Advanced Neurobiology I (3)
01:146:447: Advanced Neurobiology II (3)
01:185: ---:  *Any Cognitive Science Course*
01:198:314: Principles of Programming Languages (4)
01:198:344: Design and Analysis of Computer Algorithms (4)
01:198:405: Seminar in Computers and Society (3)
01:198:415: Compilers (4)
01:198:424: Modeling and Simulation of Continuous Systems (4)
01:198:428: Intro to Computer Graphics (4)
01:198:440: Intro to Artificial Intelligence (4)
01:198:452: Formal Languages and Automata (3)
01:447:380: Genetics (4)
01:447:384: Genetic Analysis I (4)
01:447:385: Genetic Analysis II (4)
01:447:410: Research in genetics- Writing Intensive (3)
01:447:484: Behavioral and Neural Genetics (3)
01:615:201: Intro to Linguistic Theory (3)
01:615:330: Historical Linguistics (3)
01:615:350: Pragmatics (3)
01:615:360: Theories of Language (3)
01:615:371: Psychology of Language (3)
01:615:373: Language Acquisition (3)
01:615:421: Language Typology (3)
01:615:431: Investigations into an Unfamiliar Language (3)
01:615:435: Experimental Methodologies in Language Acquisition (3)
01:615:440: Language Development (previously 615:433; 3)
01:615:441: Linguistics and Cognitive Science (3)
01:615:445: Language and Cognition (3)
01:615:451: Phonetics (3)
01:615:455: Computational Linguistics (3)
01:615:465: Introduction to Prosody (3)
01:615:471: Selected Topics in Linguistics (3)

01:615:491: Practicum in Linguistics (3)
01:730:210: Philosophy of Language (3)
01:730:220: Theory of Knowledge (3)
01:730:253: Human Nature and Diversity (4)
01:730:328: Philosophy of Psychology (3)
01:730:329: Minds, Machines and Persons (3)
01:730:360: Philosophical Aspects of Cognitive Science (3)
01:730:412: Epistemology (3)
01:730:418: Philosophy of Mind (3)
01:730:419: Philosophy of Perception (3)
01:730:420: Philosophy of Language (3)
01:730:422: Philosophy of Logic (3)
01:730:424: The Logic of Decision (3)
01:730:425: Philosophy of Mind (3)
01:730:428: Topics in the Philosophy of Psychology (3)
01:830:301: Sensation and Perception (3)
01:830:303: Memory (3)
01:830:305: Cognition (3)
01:830:307: Perception in Cognitive Science (3)
01:830:310: Neuropsychology (3)
01:830:311: Conditioning and Learning (3)
01:830:313: Psychological Psychology (3)
01:830:351: Psychology of Language (3)
01:830:361: Developmental Psychobiology (3)
01:830:401: Advanced Topics in Human Cognition (3)
01:830:402: Advanced Topics in Human Cognition (WI) (3)
01:830:410: Advanced Topics in Psychobiology (3)
01:830:411: Advanced Topics in Psychobiology (WI) (3)
01:830:412: Neuropsychopharmacology (3)
01:830:463: Behavioral Pharmacology (3)
01:830:480: Advanced Topics in Visual Perception (3)
01:830:484: Language Acquisition (previously 353; 3)
01:940:363: Bilingualism in the Spanish-Speaking World (3)
01:940:368: The Bilingual Mind (3)
01:960:384: Intermediate Statistical Analysis (3)

## Additional Requirements:

1. **Three Cognitive Science Courses (185 Curriculum)**
2. Grades of "C" or better must be earned in all courses counted toward the minor.
3. No more than 4-credits at the 100-level may be counted towards the minor.
4. At least half of the credits towards the minor must be at the 300-level or above.
5. **No more than 2-courses from any one department (major or non-major curriculum) may count towards the minor with the exception of the Cognitive Science curriculum 185.**
6. **The same course cannot be used to fulfill both the formal/analytic and elective requirements.**

## To Declare A Minor in Cognitive Science:

Students who wish to declare a minor in Cognitive Science should do so either at the same time or after they have declared a major field of study. Either before or immediately after declaring the Cognitive Science minor, students must take three of our required courses offered by Cognitive Science and a formal/analytic methods course. Students should be aware that many of the courses listed have prerequisites and not all of the courses are offered each semester. Students should contact the departments that offer courses to learn about prerequisites and course schedules. The UG Program Director will advise students about selection of courses, mentors and research/independent study projects. Students may petition to have additional courses count as formal/analytic or elective courses.   Email to the Undergraduate Director, Dr. Mary Rigdon, may be sent to: undergrad@ruccs.rutgers.edu