COGNITIVE SCIENCE MAJOR: DECISION MAKING TRACK

- 1. Foundation Requirement in Cognitive Science (185:201; 4cr)
- 2. Logical and Statistical Reasoning (One Course from Each Column)

Computational/Logical Reasoning	Statistical Reasoning
 Introduction to Logic (730:201; 3cr) Introduction to Logic (730:202; 4cr) Computing for Math and the Sciences ((198:107; 3cr) Introduction to Discrete Structures I (198:205; 4cr) Mathematical Logic (640:461; 3cr) Introduction to Mathematical Reasoning (640:300; 3cr). 	 Methods in Cognitive Science (185:320; 3cr) Discrete Structures II (198: 206; 4cr) Calculus I (640:135; 4cr) or Honors (640:191; 4cr) Calculus II (640:136; 4cr) or Honors (640:192; 4cr) Calculus I for Mathematical and Physical (640:151; 4cr) Calculus I for Mathematical and Physical (640:152; 4cr) Quantitative Methods in Psychology (830:200; 4cr) Advanced Statistical Methods in Psychology (830:400; 4cr) Statistics I (960:211; 3cr) Introductory Statistics for Business (960:285; 3cr) Basic Statistics for Research (960:401; 3cr)

3. Distributional requirements (One Course from Three Columns)

Cognitive Neuroscience	Decision Making	Language	Minds, Machines, & Computation	Perception
 Brain, Mind and Behavior (119:195; 3cr) Fundamentals of Neurobiology (146:245; 3cr; for CBN majors) Essentials of Cell Biology & Neuroscience (146:295; 3cr) Data Structures (198:112, 4cr) Physiological Psychology (830:313; 3cr) 	 Cognition and Decision Making (185:301; 4cr) Reasoning, Problem Solving, and Decision Making (830:408 or 409; 3cr) 	 Meaning and Numbering (185:330; 3cr) Language and Cognition (185: 410; 4cr) Introduction to Linguistic Theory (615:201; 3cr) Philosophy of Language (730:210; 3cr) Psychology of Language (830:351; 3cr) 	 The Concept of 'Concepts' in Cognitive Science (185: 310; 3cr) Introduction to Computer Science (198:111; 4cr) or Introduction to Artificial Intelligence (198: 440, 4cr) Minds, Machines and Persons (730:329; 3cr) Philosophical Aspects of Cognitive Science (730:360; 3cr) 	 Design and Analysis of Computer Algorithms (198:344; 4cr) Sensation & Perception (830:301; 3cr)

4. Capstone Course (One Course from the Following)

Advanced Topics in Cognitive Science (185:411; 4cr)	Research in Cognitive Science (185:395; 3cr)	Honors Research in Cog Sci (185:495;3cr)

COGNITIVE SCIENCE MAJOR: DECISION MAKING TRACK

5. Electives (Three Courses from the Following)	6. Additional Requirements
 Human Nature and Human Diversity (185:253; 4cr) Cognition and Decision Making (185:301; 4cr) Research Methods in Cognitive Science (185:320; 3cr) Advanced Topics in Cog Sci II: Behavioral Game Theory (185:412; 3cr) Intermediate Microeconomic Analysis (220:320; 3cr) Behavioral Economics (220:480; 3cr) Game Theory and Economics (220:482; 3cr) Topics in Advanced Economic Theory (220:430; 3cr) Mathematical Models in Social Sciences (640:339; 3cr) Philosophy of Psychology (730:328; 3cr) The Logic of Decision (730:424; 3cr) Small Groups (830:326; 3cr) Abnormal Psychology (830:340; 3cr) Research Methods in Psychology (830:355; 3cr) Health Psychology (830:377; 3cr) Reasoning, Problem Solving, and Decision Making (830:408 or 409; 3cr) 	 Minimum of 36 credits Four Cognitive Science Courses Grades of C or better must be earned in all courses counted towards the major. Two thirds of total credits must be from School of Arts and Sciences Two thirds of total credits must be 300 level+ No more than 4 courses from Philosophy or Computer Science No more than 3 courses from any other department Note: Courses used to satisfy the Distribution requirement cannot also be used to satisfy the Track elective requirements Students may declare the major using my Major after taking Intro to Cog Sci (185:201), one Computational/Logical course, and one Statistical Reasoning course.



RUTGERS

School of Arts and Sciences

Center for Cognitive Science

Psychology Building Addition 152 Frelinghuysen Road - Busch Campus Piscataway, NJ 08854 http://ruccs.rutgers.edu

Questions? E-mail: undergrad@ruccs.rutgers.edu