★CLASSICS 300 (History 300) (3)—Seminar in Ancient History

Prerequisites: Junior standing and permission of the instructors. A consideration of the major Greek and Roman historians, the influence of various literary and philosophical conventions on the development of their method, and their approach to selected problems in ancient history evaluated in the light of modern historical research. *Sanders and Taylor*.

Winter

CLASSICS 401 (1), 402 (2), 403 (3)—Directed Individual Study

May be repeated for degree credit with permission and if the topics are different.

Offered when interest is expressed and departmental resources permit.

CLASSICS 421 (1), 422 (2), 423 (3)—Directed Individual Research

May be repeated for degree credit with permission and if the topics are different.

Offered when interest is expressed and departmental resources permit.

CLASSICS 473 (3)—Senior Thesis

Prerequisites: Senior standing, major in classics, and permission of the department. The student researches and writes a senior thesis under the direction of a faculty member.

Fall, Winter

CLASSICS 493 (3-3)—Honors Thesis

Prerequisite: Honors candidacy.

Fall, Winter

COGNITIVE SCIENCE

PROFESSOR THOMPSON*

MAJOR

A major in **cognitive science** leading to a Bachelor of Arts degree requires the completion of at least 43 credits including the following:

1. Core courses: Cognitive Science 110, 395, 403, 473, Computer Science 111, 211, Philosophy 106, 313, Psychology 112, 180
2. Four courses chosen from one of the following tracks:
   a. Formal Systems in Cognitive Science: Computer Science 295 (LISP, PROLOG or C), 313, 315, Psychology 207
   b. Philosophical Foundations of Cognitive Science: Philosophy 205, 255, 305 (Psychology 305), 312, Sociology 222 (Classics 222)
   c. Experimental Cognitive Science: Psychology 207, 251, 252, 254, 255
   d. Cognitive Neuropsychology: Neuroscience 120, Psychology 111, 253, 255

Additional courses required as prerequisites for the completion of the above core include Computer Science 110 and Mathematics 121. Psychology 111 is a prerequisite for Psychology 255 in the Experimental Cognitive Science track.

Cognitive Science courses are as follows; for course descriptions, see the appropriate departmental listings:

Classics 222—Structural Linguistics
Cognitive Science 110—Introduction to Cognitive Science
Cognitive Science 395—Special Topics in Cognitive Science
Cognitive Science 403—Directed Individual Study
Cognitive Science 473—Senior Thesis
Computer Science 111—Fundamentals of Computer Science I
Computer Science 211—Data Structure and Algorithms
Computer Science 295—Language Laboratory
Computer Science 313—Theory of Computation
Computer Science 315—Artificial Intelligence
Neuroscience 120—Introduction to Neuroscience
Philosophy 106—Introduction to Logic
Philosophy 205—Philosophy of Language
Philosophy 255—Philosophy of Science
Philosophy 305—Speech and Cognition
Philosophy 312—Theory of Knowledge
Philosophy 313—Philosophy of Mind
Psychology 111—Brain and Behavior
Psychology 112—Cognition
Psychology 180—Research Design and Analysis
Psychology 207—A Psychological Approach to Artificial Intelligence

---

*Head of the Cognitive Science Program

Psychology 251—Experimental Psychology: Learning and Retention
Psychology 252—Experimental Psychology: Perception
Psychology 253—Physiological Psychology
Psychology 254—Experimental Psychology: Language and Thought
Psychology 255—Cognitive Neuroscience
Psychology 305—Speech and Cognition
Sociology 222—Structural Linguistics

★COGNITIVE SCIENCE 110 (3)—Introduction to Cognitive Science

This course introduces the student to the information processing approach of cognitive science by examining the ability to understand and produce language from the perspectives of computer science, linguistics, neuroscience, philosophy, and psychology. *Staff.*

Spring

COGNITIVE SCIENCE 395 (3)—Special Topics in Cognitive Science

Prerequisites: Cognitive Science 110 and six credits chosen from Computer Science 111, 301, Philosophy 106, 313, Psychology 112, 180. This seminar provides the advanced student with a more thorough knowledge of the methods of cognitive science. The course focuses on a specific cognitive capacity—spatial memory, word recognition, sentence processing, or visual pattern recognition, for instance—and compares competing information processing models, examining how they can be tested in the laboratory and by computer simulation. Topics will vary and may be determined, in part, by student interest. May be repeated for degree credit with permission and if the topics are different. *Staff.*

COGNITIVE SCIENCE 403 (3)—Directed Individual Study

Prerequisites: Cognitive Science 395 or permission of the Cognitive Science program adviser. Conferences, in-dependent reading, and research leading to a topic for the senior thesis. This course is taken by all Cognitive Science majors in preparation for the senior thesis. *Cognitive Science faculty.*

COGNITIVE SCIENCE 473 (3)—Senior Thesis

Prerequisite: Cognitive Science 403. Cognitive Science faculty.

Winter

COMPUTER SCIENCE

PROFESSORS LAMBERT, WHALEY
ASSISTANT PROFESSOR NECAISE

MAJOR

A major in **computer science** leading to a Bachelor of Arts degree requires completion of at least 41 credits, including the following:

1. Computer Science 111, 112, 201, 210, 211, 312, 313; Mathematics 121
2. either Computer Science 423 or 493 (3-3)
3. either Mathematics 102 or 122
4. one course chosen from Computer Science 315, 317, 320, 330, 332, 340, 397
5. completion of one of the following two groups:
   a. six additional credits in computer science
   b. three additional credits in computer science and, with approval of a student's computer science adviser, nine credits from a cognate area such as accounting, economics, engineering, management, mathematics or physics. Examples of appropriate cognate work are available from the department head

Students should consult with an adviser in the department when choosing courses to fulfill requirement 5b. above.

A major in **computer science** leading to a Bachelor of Science degree requires completion of at least 50 credits, including the following:

1. Computer Science 111, 112, 201, 210, 211, 312, 313; Mathematics 121, 222
2. either Computer Science 423 or 493 (3-3)
3. one course chosen from Computer Science 315, 317, 320, 330, 332, 340
4. six additional credits in computer science
5. six additional credits in mathematics at the 200-level or above

Additional courses required as prerequisites for completion of the above include Mathematics 101 and 102.

In order that the discrete mathematics requirement for Computer Science 211, 312, and 313 be completed in a timely fashion, freshmen expecting to major in computer science are encouraged to take Mathematics 121 in their freshman year.

HONORS: An Honors Program in computer science is offered for qualified students; see the department head for details.

★COMPUTER SCIENCE 111 (4)—Fundamentals of Computer Science I

An examination of some of the major areas of computer science such as computer organization, algorithms and data structures, programming, and the theory of computation. Weekly meetings will include lectures and a laboratory session. *Staff.*

Fall, Winter