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# The Cognitive Psychology Graduate Program

## Areas of Study

[Cognitive](#)

[Industrial/Organizational  
&  
Human Factors](#)

[Human-Computer  
Interaction](#)

### **Faculty:**

[D. Burgund](#)

[S. Burnett](#)

[M. Byrne](#)

[D. Chen](#)

[J. Dannemiller](#)

[R. C. Martin](#)

[J. Pomerantz](#)

[G. Potts](#)

[T. Ro](#)

[M. J. Watkins.](#)

### **Adjunct Faculty:**

J. Byrne, R. Fisher, K. Loveland, J. Overall, D. Pearson, A. Sereno, A. Wright, H. Ziemer.

Primary Contact: James Pomerantz ([pomeran@rice.edu](mailto:pomeran@rice.edu))

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## **The Program:**

Cognitive psychology at Rice is devoted to basic research in cognitive processes, but especially the fields of perception, memory, and language. A set of required courses is listed below, which adds to the Departmental Core courses described above. This formal coursework provides the foundation for educating students about the field, but numerous specialized seminars and laboratory meetings provide greater depth of understanding.

The Rice Program of Cognitive Psychology aims to produce outstanding scientists capable of conducting independent lines of research either in academic or in

applied positions. Students may complete the program in four years, but the average is five.

Students coming into the program can choose to select one of two options: the cognitive neuroscience track or the cognitive psychology track. The departmental core courses listed below are required of all cognitive students.

### **Departmental Core Courses:**

Psyc 502 Advanced Psychological Statistics I  
Psyc 503 Advanced Psychological Statistics II  
Psyc 520 Foundations of Cognitive Psychology  
Psyc 529 Weekly Cognitive Research Seminar  
Psyc 660 Professional Issues

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### **Cognitive Neuroscience track:**

Students entering the cognitive neuroscience track have the opportunity to take courses offered periodically at UT Medical School and Baylor College of Medicine, in addition to courses offered at Rice. Please see Jim Pomerantz for details. At present, for the cognitive neuroscience track, students must take, in addition to the departmental core courses, at least eight courses from the following list, distributed as indicated:

#### **Group A:** All three must be taken

1. Psyc 575/Neur 501 Cognitive Neuroscience I
2. Psyc 576/Neur 502 Cognitive Neuroscience II

#### 3. Either:

Psyc 577 Introduction to Functional Neuroanatomy (2-credit Baylor-taught course often offered in the fall)

or

[No number yet] The equivalent UT course, "Medical Neuroscience"

**Group B:** At least three of the following four courses must be taken:

Psyc 521 Perception  
Psyc 524 Memory  
Psyc 525 Psycholinguistics  
Psyc 527 Thinking

**Group C:** The remaining courses to make up the eight should be selected from the following list:

Psyc 511 History and Systems of Psychology  
Psyc 522 Information Processing and Attention  
Psyc 523 Memory and Cognition in Animals  
Psyc 543 Computational Modeling  
Psyc 550 Foundations of Social Psychology  
Psyc 580 Developmental Cognitive Neuroscience  
Psyc 581 Vision Science  
Psyc 600 Olfactory Perception  
Psyc 620 Topics in Cognitive Psychology (May be taken once)  
Psyc 621 Topics in Memory (May be taken once)  
Neur 505 Optical Imaging in Neuroscience  
Neur 511 Integrative Neuroscience Core Course I  
Neur 512 Integrative Neuroscience Core Course II  
Neur 671 Methods in Cognitive Neuroscience  
Bioe 592 Sensory Neuroimaging I  
Bioe 685 Fundamentals of Medical Imaging

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### **Cognitive Psychology track:**

Students entering the cognitive psychology track must take all the following courses:

*Cognitive Psychology Core:*

Psyc 521 Perception  
Psyc 524 Memory  
Psyc 525 Psycholinguistics  
Psyc 527 Thinking  
Psyc 550 Foundations of Social Psychology  
Psyc 511 History and Systems of Psychology

*Cognitive Psychology Electives:* At least three must be

taken.

Psyc 504 Computer Applications in Psychology

Psyc 512 Decision Making

Psyc 522 Information Processing and Attention

Psyc 523 Memory and Cognition in Animals

Psyc 526 Artificial Intelligence and Cognitive Science

Psyc 530 Foundations of I/O Psychology

Psyc 541 Human-Computer Interaction

Psyc 543 Computational Modeling

Psyc 575/Neur 501 Cognitive Neuroscience I

Psyc 576/Neur 502 Cognitive Neuroscience II

Psyc 580 Developmental Cognitive Neuroscience

Psyc 581 Vision Science

Psyc 602 Psychometrics

Psyc 620 Topics in Cognitive Psychology (May be repeated)

Psyc 621 Topics in Memory (May be repeated)

Psyc 630 Topics in I/O Psychology

Psyc 652 Social Cognition

Mgmt 708 Structural Equation Modeling

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## **Weekly Seminars**

When appropriate, students will register for Psyc 628 (Memory Research Seminar) and Psyc 629 (Psycholinguistics Research Seminar).

Revised: 8/04