

# P335 Cognitive Psychology Spring 2015 Syllabus

## CLASS TIME AND PLACE

Monday, Wednesday, and Friday, 2:30 – 3:20 PM in room PY 101

## INSTRUCTOR INFORMATION

Instructor: Rick Hullinger

Office: PY A300B

Office Hours:

Monday: 12:30 – 2:00 PM

Tuesday: 2:15 – 4:15 PM

Wednesday: 9:00 – 11:00 AM

Friday: 10:30 AM – 11:45 AM

Or by appointment

Office Telephone: 856-6854

Email Address: [rahullin@indiana.edu](mailto:rahullin@indiana.edu)

## TEACHING ASSISTANT

Assistant: Stephanie Enyeart

Email Address: [senyeart@indiana.edu](mailto:senyeart@indiana.edu)

Office Hours: By Appointment

## COURSE OVERVIEW

This section of P335 will expose you to the major areas of cognitive psychology – perception, memory, attention, mental representations, and decision making – by looking at specific, real world problems and activities. Each topic area will be structured around a “how” or “why” question (e.g. How do we read? How do we make a decision?) that will drive our exploration. Along the way you will gain a better understanding of how the human mind works. Hopefully you will also be amazed by the complex and powerful bit of machinery that is the human brain.

## COURSE MATERIALS

There will be no textbook for P335. All of the readings will be provided electronically via Oncourse. Typically there will be one reading assigned per class meeting. Expect to dedicate considerable time outside of class to the readings, but I hope you find the course both demanding and rewarding. You are expected to complete the assigned readings before class and to take an active role in the class.

## EXAMS / QUIZZES

There will be six in-class quizzes and a cumulative final exam during finals week. With the exception of the final exam, the course schedule is *tentative* and subject to change. However, I will do my best to make sure that the quizzes are on the dates listed in the schedule. All quizzes will be closed book and closed note.

According to the Final Exam Schedule from the Office of the Registrar, the final exam for this course will be given on Monday, May 4<sup>th</sup>, from 10:15 AM – 12:15 PM. The final exam will be a cumulative exam covering the full semester of material.

It is your responsibility to double-check your quiz grades – both that the papers themselves were correctly graded and that the scores posted on Oncourse match your actual grades. You have two weeks from the time a quiz is returned to the class to address any grading issues with me. After that, the grades posted on Oncourse will be considered final.

**If you have a scheduling conflict or cannot take a quiz at its appointed date and time, you must let me know as soon as possible. With the exception of extreme and unforeseen circumstances, contacting me the day of (or even worse, after) a quiz will be considered an unexcused absence and will result in a 0 on the quiz.**

### Grading

Your final grade is computed using the following formula:

|                             |      |            |
|-----------------------------|------|------------|
| Five best in-class quizzes  | 50%  | (10% each) |
| Worst in-class quiz         | 5%   |            |
| Pre-lecture reading quizzes | 25%  |            |
| Final exam                  | 20%  |            |
| <hr/>                       |      |            |
| Total                       | 100% |            |

### Grading Scale

A+: 97.00% – 100%;    A: 93.00% – 96.99%;    A- : 90.00% – 92.99%  
B+: 87.00% – 89.99%;    B: 83.00% – 86.99%;    B- : 80.00% – 82.99%  
C+: 77.00% – 79.99%;    C: 73.00% – 76.99%;    C- : 70.00% – 72.99%  
D+: 67.00% – 69.99%;    D: 63.00% – 66.99%;    D- : 60.00% – 62.99%  
F: Below 60%

### EXTRA CREDIT

**I do not offer any extra credit in this course.** If you put all of the effort that you might invest in worrying about extra credit and proposing extra credit ideas into making sure that your work is done and done well the first time, you'll achieve much better results.

### CLICKERS

Clickers (Turning Technologies Response Card keypads) will be used in this class, and I **require** that you have one. I do not care if you use the NXT or the RF keypad, so if you already have a Turning Technologies clicker, you're all set. If you need to buy one, you can select the model that best suits your needs. I do not intend to use the clickers to take attendance or for graded in-class responses. Instead, they will be used as a way for me to get instant, anonymous feedback about whether you understand the concepts being taught, and to quickly collect data for in-class experiments and examples. If it appears that many of you are not bringing your clickers to class with you, I do reserve the right to change my policy to encourage clicker compliance.

### RESPECT

In order for this class to work well, there must be a certain level of respect between you and me and between you and your fellow classmates. Please be smart with your in-class behavior. If you have to arrive late, enter quietly and sit in the back. If you believe that you may leave early, please sit in the back and slip out quietly. Please turn off your cell phones and do not text-message your friends while I'm teaching. If you are being disruptive to me or to the class, I will ask you to leave.

**FEEDBACK**

Do not wait until the end of the semester course evaluations to let me know that I could be doing something better. Tell me as soon as possible so that I can make the class valuable and relevant as we go along. If you have any feedback, good or bad, about the course or how it's being taught, please feel free to send it to me *anonymously* using this link:

<http://www.indiana.edu/~rahteach/feedback.html>

**ACADEMIC HONESTY**

This course is conducted under the University's Ethics Code. Specifically, it is considered cheating if you obtain any kind of information about answers and solutions to the work in this course from any non-intended source (including your peers) or conversely transfer such information to others. It is also considered cheating if you lie to me about an absence relating to a homework assignment, quiz, or exam. The punishment for academic dishonesty may include a grade reduction or a zero on any quizzes, assignments, and/or exercises, failure of the course, and/or other actions as determined by the instructor and/or the Dean of Students.

**CLASS RECORDINGS**

I will be using a course capture system that allows us (me and UITS) to audio- and video-record and distribute lectures to you in a secure environment.

Because we will be recording in the classroom, your questions or comments may be recorded. You may watch recordings online, or download them for off-line viewing on your computer, smartphone, or media player. These recordings are copyrighted by me, and provided by me and the University solely for your personal use in connection with your academic coursework at IU. You may not share them with students outside the classes for which they are provided, or anyone else, or post them to another website (including YouTube, Facebook, BlipTV, or any other site) without express, written permission from your instructor. You may not retain the recordings after the course is over. Please be aware that any unauthorized use, copying, or distribution of these recordings may result in disciplinary action and may also lead to civil or criminal penalties.

Due to possible unforeseen technical issues, we cannot guarantee that all class sessions will be properly recorded. It is important that you attend class, actively participate, and take notes. If you miss a class session, you cannot assume that a recording will be available.

**STATEMENT FOR STUDENTS WITH DISABILITIES**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact IU Disability Services for Students.

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Copyright Richard A. Hullinger, 2015. All federal and state copyrights in my lectures and course materials are reserved by me. You are authorized to take notes in class for your own personal use and for no other purpose. You are not authorized to record my lectures or to make any commercial use of them whatsoever. You are not authorized to provide them to anyone else other than students currently enrolled in this course, without my prior written permission. In addition to legal sanctions for violations of copyright law, students found to have violated these prohibitions may be subject to University disciplinary action under the Code of Student Conduct. If I find that my course materials are being made available to others in violation of this policy, I reserve the right to limit or remove access to all slides, notes, review materials and lecture recordings.

**DISCLAIMER**

This syllabus is an outline of the course and its policies, which may be changed for reasonable purposes during the semester at the instructor's discretion. You will be notified in class and / or via email if any changes are made to this syllabus, and an updated syllabus will be provided on Oncourse.

## PSY P335, Spring 2015 Cognitive Psychology – Schedule

| DOW      | Date          | Description                         | Question                                 | Reading   |
|----------|---------------|-------------------------------------|--|---|
| M        | Jan 12        | Introduction                        | How will this class work?                |   |
| W        | Jan 14        | History of Cognitive Psychology     | How did we get here?                     |   |
| F        | Jan 16        | Foundations: Neuroscience           | How do we think the basics work?         | Anderson Visual Perception<br>Robinson-Reigler Sensory Integration<br>Anderson Memory, Part I<br>Anderson Memory, Part II           |
| M        | Jan 19        | No Class – MLK Jr. Day              |  |   |
| W        | Jan 21        | Foundations: Neuroscience           |  |   |
| F        | Jan 23        | Foundations: Sensation & Perception |  |   |
| M        | Jan 26        | Foundations: Sensation & Perception |  |   |
| W        | Jan 28        | Foundations: Memory                 |  |   |
| F        | Jan 30        | Foundations: Memory                 |  |   |
| <b>M</b> | <b>Feb 02</b> | <b>Quiz 1</b>                       | <b>How much did you learn?</b>           |   |
| W        | Feb 04        | Visual Cognition                    | How do we read?                          | Understanding Eye Movements<br>Bottom Up and Top Down Processing<br>From Text to Meaning<br>Brain Potentials in Senseless Sentences |
| F        | Feb 06        | Saccades, and Fixations             |  |   |
| M        | Feb 09        | Recognizing Letters and Words       |  |   |
| W        | Feb 11        | The Garden Path & Comprehension     |  |   |
| F        | Feb 13        | Context and the N400                |  |   |
| <b>M</b> | <b>Feb 16</b> | <b>Quiz 2</b>                       | <b>How much did you learn?</b>           |   |
| W        | Feb 18        | Spatial Perception                  | How do illusions work?                   | Visual Spatial Illusions<br>The Empirical Basis of Color Perception   |
| F        | Feb 20        | Motion Perception                   |  |   |
| M        | Feb 23        | Color Perception                    |  |   |
| W        | Feb 25        | Models of Attention                 | How do we concentrate?                   | Attention Overview<br>Interest and Attention<br>Multi-Tasking<br>Doodling & The Restless Mind                                       |
| F        | Feb 27        | Interest and Attention              |  |   |
| M        | Mar 02        | Interest and Attention              |  |   |
| W        | Mar 04        | Multitasking                        |  |   |
| <b>F</b> | <b>Mar 06</b> | <b>Curiosities of Concentration</b> |  |   |
| <b>M</b> | <b>Mar 09</b> | <b>Quiz 3</b>                       | <b>How much did you learn?</b>           |   |
| W        | Mar 11        | What is a Concept?                  | How do we represent things in our minds? | Word Meanings<br>Abstract Concepts<br>Social Temperature & Washing Away Sins  |
| F        | Mar 13        | Semantics and the Mental Lexicon    |  |   |
| M        | Mar 16        | No Class – Spring Break             |  |   |
| W        | Mar 18        | No Class – Spring Break             |  |   |
| F        | Mar 20        | No Class – Spring Break             |  |   |
| M        | Mar 23        | Abstract Concepts                   |  |   |
| W        | Mar 25        | Priming and Embodiment              |  |   |

**PSY P335, Spring 2015  
Cognitive Psychology – Schedule**

| <b>DOW</b> | <b>Date</b>   | <b>Description</b>                    | <b>Question</b>                | <b>Reading</b>                  |
|------------|---------------|---------------------------------------|--------------------------------|---------------------------------|
| <b>F</b>   | <b>Mar 27</b> | <b>Quiz 4</b>                         | <b>How much did you learn?</b> |                                 |
| M          | Mar 30        | Objects and Faces                     | How do we process faces?       | Prosopagnosia                   |
| W          | Apr 01        | FFA and Domain Specificity            |                                | Faces and Brain Regions         |
| F          | Apr 03        | Perceiving and Learning Faces         |                                | Caricature and Face Recognition |
| M          | Apr 06        | Grandmother Cells                     |                                | Grandmother Cells               |
| <b>W</b>   | <b>Apr 08</b> | <b>Quiz 5</b>                         | <b>How much did you learn?</b> |                                 |
| F          | Apr 10        | Humans are not Rational               | How do we make decisions?      | Heuristics and Biases           |
| M          | Apr 13        | Humans are not Rational               |                                |                                 |
| W          | Apr 15        | Humans are not Rational               |                                |                                 |
| F          | Apr 17        | Heuristics are not bad things         |                                | Rational Mind Designs           |
| M          | Apr 20        | Decision Making Heuristics            |                                |                                 |
| W          | <b>Apr 22</b> | <b>Quiz 6</b>                         | <b>How much did you learn?</b> |                                 |
| F          | Apr 24        | Mate Choice                           | Decisions, con't               | Mate Copying                    |
| M          | Apr 27        | The Paradox of Choice                 |                                |                                 |
| W          | Apr 29        | Review Session                        |                                |                                 |
| F          | May 01        | No Class                              |                                |                                 |
| <b>M</b>   | <b>May 04</b> | <b>Final Exam 10:15 AM – 12:15 PM</b> | <b>How much did you learn?</b> |                                 |