

**INTEGRATED STUDIES 8C, Section 2**  
**SPRING 2005**  
**Professor Jessica Utts**

See web page for sources of articles, contact information, office hours, and detailed instructions:  
<http://www.stat.ucdavis.edu/~utts/is8c>

All reading material is in the book *The Conscious Universe* by Dean Radin (“Radin”), or in the class reader, except where “not in reader” is stated, in which case an internet address is provided.

**DAILY OUTLINE MAY BE MODIFIED TO ACCOMMODATE GUEST SPEAKERS**

**4/4:** Introduction, discussion, class experiments

**4/6:** Binomial experiments, normal distributions, standardized scores; experiment with animal eyes  
Read these statistics excerpts in the Reader:

- Binomial random variables – pages 261-265 of *Mind On Statistics*
- Normal distributions and standardized scores – pages 39-45 of *Mind On Statistics*

NOTE: Try the exercises on binomial random variables and normal distributions from *Mind On Statistics* pgs 287-288 (in the reader); we will go over some of them in class

**4/11:** GUEST SPEAKER – Edwin May, PhD

Read: Parapsychology FAQ - *Not in reader – access on the web:*

[http://www.parapsych.org/faq\\_file1.html](http://www.parapsych.org/faq_file1.html) (and [faq\\_file2.html](http://www.parapsych.org/faq_file2.html), [faq\\_file3.html](http://www.parapsych.org/faq_file3.html))

**4/13:** Hypothesis testing, confidence intervals; finalize teams for projects

Read these statistics excerpt in the reader:

- Hypothesis tests for proportions – pgs 356-371 of *Mind On Statistics*
- Confidence intervals for proportions – parts of Chapter 19 of *Seeing Through Statistics*

NOTE: Try the exercises on hypothesis testing from *Mind On Statistics* pgs 382-385 (in the reader) and the exercises at the end of the material on confidence intervals; we will go over some of them in class

**4/18:** Replication and meta-analysis; using statistics in psi research; brief team meetings

Read:

- Radin Chapters 1 to 4 AND Postscript
- Utts, Jessica (1996). Exploring Psychic Functioning: Statistics and Other Issues, *Stats: The Magazine for Students of Statistics*, 16, 3-8.
- Utts, Jessica (1999). The Significance of Statistics in Mind-Matter Research, *Journal of Scientific Exploration*, 13(4), 615-638.

**4/20:** GUEST SPEAKER – Kate Lang (no reading for today); team proposals due.

**4/25:** GUEST SPEAKER: Kathy Dalton - Ganzfeld experiments; Creativity in Psi

Read:

- Radin Chapters 5 and 6
- Bem, D. J., J. Palmer, R.S. Broughton (2001). Updating the Ganzfeld Database: A Victim of Its Own Success? *Journal of Parapsychology*, 65(3), 207-218.

**4/27:** Remote viewing, sum of rank statistics, effect size measures, remaining statistics issues  
Read: Utts, Jessica and Edwin May (2002). Remote Viewing: Correlates as Clues to Non-Sensory Access to Information

**5/2: Review and Quiz on Statistics**

**5/4:** GUEST SPEAKER: Kathy Dalton - Cold reading; history of parapsychology and deception.

Read:

- Parapsychology: a historical perspective (Rush)
- Hyman, Ray (1989). Cold Reading: How to Convince Strangers that you Know All About Them, in *The Elusive Quarry: A Scientific Appraisal of Psychical Research*, Prometheus Books, Buffalo, NY.
- Roe, Chris (1991). Cold reading strategies. *Proceedings of the Parapsychological Association*, 34, 470-480.

**5/9:** GUEST SPEAKER: Loyd Auerbach – Topic and possible reading to be announced.  
*Term paper topic and one-paragraph description is due today.*

**5/11:** Presentiment, RNG and DMILS studies

Read: Radin Chapters 7 to 9

**5/16:** GUEST SPEAKER: Dean Radin – Topic and possible reading to be announced.

**5/18:** Global Consciousness, Casinos; The STARGATE Program

Read: Radin Chapter 10, 11 and 12

**5/23:** Skepticism and the skeptical movement

Read:

- Radin Chapters 13 and 14
- *Zen and the Art of Debunkery* (Drasin) - *Not in reader – access on the web:*  
<http://members.aol.com/ddrasin/zen.html>

**5/25:** Theories of psi, or theories to explain data

Read: Radin Chapters 15 to 17

**5/30: Memorial Day Holiday**

**6/1: Term Papers Due,** Testing self-proclaimed psychics

Read:

- Hallson, Peter (1997). Testing the Abilities of Mediums and Sensitives, *The Paranormal Review*, May 1997, 16-18.
- Schwartz, G.E.R, L.G.S. Russek, L. A. Nelson and C. Barensten (2001). Accuracy and Replicability of Anomalous After-Death Communication Across Highly Skilled Mediums, *Journal of the Society for Psychical Research* 65(1), 1-25.

**6/6, 6/8: Present team projects.**

Final exam distributed on June 6, due **Sat, June 11, by email.**

## **Class Work and Expectations:**

### Daily: (10% of your grade)

1. Readings will be assigned for most days. The reading listed with each date it to be *completed* for that day, and you should be prepared to discuss it.
2. Hand in one “journal” page at the beginning of each class period, containing:
  - A one paragraph commentary on the reading, choosing a topic of interest to you.
  - One discussion question related to the reading.The journal pages will be graded as excellent, satisfactory or unsatisfactory, and will count as part of your discussion grade.
3. You are expected to participate in class discussion. Sometimes there will be structured participation; other times it will be open discussion.

### Other Work:

1. There will be a Statistics quiz on Monday, May 2. It will be “open notes” meaning you can bring your class reader and class notes. See website for sample quiz. **(15% of grade)**
2. Term paper (5 to 7 pages), due Wed. June 1. Anticipated topic and one-paragraph description due by May 9<sup>th</sup>. See website for topic ideas and grading rubric. Graded on factual content, writing clarity, creativity of ideas, other features. **(25% of grade)**
3. Team project, presented June 6 or 8. See website for suggestions and grading rubric. Meet with me to discuss plans and get help by the week of April 18<sup>th</sup>. Graded on topic (originality, creativity), execution (e.g. if an experiment, good design, adequate security measures, appropriate statistics, etc), and presentation. **(25% of grade)**
4. Take-home final exam, handed out June 6, due June 11. **(25% of grade)**

## **Important Dates and Deadlines:**

By Monday, April 11:	Provide list of team members for projects, with one contact person
By the week of April 18:	All teams meet with me to discuss plans; schedule presentation date
Wednesday, April 20:	Team proposal due – at most one page description; contact person
Monday, May 2:	Statistics quiz (worth 15% of your grade)
Monday, May 9:	Term paper topic and one paragraph summary to me for approval
Wednesday, June 1:	Term papers due
Monday, June 6:	Begin project presentations; Final exam distributed
Wednesday, June 8:	Continue project presentations
Saturday, June 11:	Final exam due via email (the in-class final would have been this day)

NOTE: I will be leaving town on June 9. You may turn in your final exam on paper by then; after that turn it in via email.

## **Contact Information:**

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Office hours by appointment.