Capstones in COGS
What is a capstone?

• Annoying requirement?
• No! Precious opportunity for research!
• Why do research?
  – Practical
    • Necessity for some career paths (med school, grad school)
      – Not just the learning, the relationship (letters of rec)
    • Valuable for all
      – Not just the learning, the relationship (references)
  – Intellectual: Rewarding
Do I have to do one?

- Yes.
- Do I have to do it in COGS? No.
- Do I have to do more than one?

<table>
<thead>
<tr>
<th>Grad requirements</th>
<th>Capstone required?</th>
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<tbody>
<tr>
<td>SAGES</td>
<td>YES</td>
</tr>
<tr>
<td>Breadth</td>
<td>no</td>
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<tr>
<td>Major(s)/minor</td>
<td>NOT FOR COGS. But...YES for some other majors and minors</td>
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If you have another major or minor that requires a capstone in that department, and you do it in COGS…

If you have two majors/minors that require a capstone in that department ....
What can it be? In COGS:

• The Capstone in Cognitive Science involves guided research, or service work with a research aspect, under the direction of a Cognitive Science faculty member who serves as Sponsor. The research can be empirical (e.g. data analysis, laboratory experiment, fieldwork, modeling and testing), theoretical, or library-based. The capstone work may be carried out within the Department of Cognitive Science or within an affiliated department or across departments and units, provided there is a Cognitive Science Sponsor for the capstone work. The capstone may be taken only one semester during the student's academic career. A permit is required to take the course. The student's Cognitive Science Sponsor must approve a written report and submit it to the Chair of the Department before credit can be granted. A public presentation is also required in a format to be determined as needed by the department faculty. Approved SAGES Capstone.
What can it be?

• In COGS it’s one-on-one work with faculty member, can be anything...except...
  – Can’t be paid.
  – Can’t get credit for work done prior to taking Capstone course (e.g. as part of COGS 399 Independent Study)
  – Can be an extension of prior paid or credited work. MUST DO NEW WORK.

• OTHER DEPARTMENTS OFFER COURSES
  – E.g., PSCL 397
  – You can take those courses...if you’ve got the prereqs
When?

• SAGES imagines...
  – After DEPT sem, both USEMS, SENIOR YEAR

• BUT: No prereqs for COGS 397.

• Think **strategically**
  – If doing one-on-one, more time = better project
    • Capstone = one semester, but can do 399 (independent study) semester before!
  – Med school? Need to do it by spring of JUNIOR year
  – Grad school? Need to do it by first semester senior, or if 399 first, spring of Junior.
How?

• Options
  – Enroll in a capstone course like PSCL 397.
  – Do the one-on-one thing (COGS 397).
• If you choose 1-on-1, it’s YOUR RESPONSIBILITY to make it happen.
• Research faculty
• Think about YOUR interests
• Choose potential sponsor
  – Contact faculty member with a TOPIC
• If she or he says yes, register for COGS 397
  – After that, details worked out between you
Description
The Capstone in Cognitive Science involves guided laboratory, empirical, theoretical, or library research, or service work with a research aspect, under the direction of a Cognitive Science faculty member who serves as Sponsor. The capstone work may be carried out within the Department of Cognitive Science, within an affiliated department, or across departments and units.

Requirements
A public presentation is required. Sponsor and student will develop a project plan. The plan details the requirements for the individual project.

Agreement Form
This form serves as a record of the project plan. The plan may be revised if both sponsor and student agree to the changes.

Project Plan

<table>
<thead>
<tr>
<th>Meetings</th>
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<tbody>
<tr>
<td>Project description</td>
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<td>Product (e.g., paper)</td>
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<tr>
<td>Project Timeline</td>
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<td>Grading criteria</td>
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<tr>
<td>Other</td>
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Student’s signature:  
Sponsor’s Signature:  
Grade:  
Sponsor’s Signature:
You can get funding!

• See SOURCE website
• COGS dept funding ($200 cap)
You can publish it!

• Undergrad research journals
  – Discussions
  – Indiana Undergraduate Journal of Cognitive Science
  – Penn Bioethics Journal

• Regular journals...maybe
Present!

Intersections

SOURCE Poster Session

Registration: Closed
Event Date: Friday, December 6th, 2013
Noon - 2:45 pm
Adelbert Gym

Intersections: SOURCE Symposium and Poster Session is where CWRU undergraduates present their research and creative projects. Intersections is an opportunity for the University community and others to see the broad and diverse work that is being done across campus by our outstanding undergraduates. Intersections is a fun and informative celebration featuring bright creative students and supportive faculty mentors.

IMPORTANT DATES & DEADLINES

Council for Undergraduate Research (CUR) Posters on the Hill
Deadline: November 4, 2013
Event: TBD
Working with humans

• Human participants research? Must get certified before starting!
  – Online at:
    http://ora.ra.cwru.edu/research/orc/crec/index.cfm
Capstone sampler...

• Priming vs. ego depletion: A study of the short-term effects of cooperative gameplay
• Story and its Effect on Flow in Video Games
• Gesture comprehension in individuals with and without Asperger's Syndrome
• Effects of Glioma and Similar Deep-Seated Brain Tumors on Cognitive Functioning.
• Perceptions of Mindedness and Moral Status - a cross-cultural study.