### Computer Science

**CS 199  Undergraduate Open Seminar**  
Credit: 1 TO 5 hours. May be repeated.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>31512</td>
<td>Lecture-Discussion</td>
<td>ANH</td>
<td>10:00 AM - 11:15 AM</td>
<td>MW</td>
<td>1111 - Siebel Center for Comp Sci</td>
<td>Hirani, A</td>
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</tbody>
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Credit Hours: 3 hours
What is Shape: A Comp Explor
Discovery course.
Topic: What is Shape: A Computer Based Exploration. Can a computer be taught to understand shape? Can you teach it to see that a coffee mug has a handle here or a hole there? That a table has a sharp corner here or a flat area there? Can a computer say if a coffee mug's shape has something in common with a doughnut's? Can you? Students will learn the basics of the computer language Python and then use and modify instructor provided programs to explore the concept of shape. There will be 1 lecture/week and 1 session/week of hands-on computer based exploration. All the conceptual tools needed for this exploration of shape will be developed in the course. Suitable for students of art, design, engineering, science and mathematics, with typical high school background. First Year Discovery Program Course. Registration restricted to freshmen. Students should enroll in only one Discovery course.
Restricted to First Time Freshman students.

| 56131| Lecture-Discussion | G1H     | 03:00 PM - 03:50 PM | MWF  | 102 - Altgeld Hall          | Francis, G |

Credit Hours: 3 hours
Hypergraphics
Camp Honors/Chanc Schol course.
Special Topic: Hypergraphics, 3 hours. This section for Chancellor's Scholars only (not restricted by major or year); other students may only enroll with consent of instructor and the Campus Honors Program. This section of CS 199 meets with Math 198, Section G1H.
Restricted to Chancellor's Scholar-CHPHonors students.

| 55186| Lecture            | LA1     | 06:00 PM - 07:50 PM | U    | 0224 - Siebel Center for Comp Sci | Angrave, L |

Credit Hours: 1 hours
Topic: Thinking about Computer Science is designed for students enrolled in CS 125 who are new to programming and are looking for extra help in a small classroom setting. Classes meet weekly for 2 hours. This one credit course shows how to analyze algorithms, solve computational problems, debug and write complete working programs. Examples will be drawn from material covered in CS 125. Requires concurrent enrollment in CS 125.

| 56567| Discussion/Recitation | OTF     | 07:00 PM - 08:50 PM | MTWRF | -                           | Heeren, C  |

Credit Hours: 1 hours

| 59318| Lecture-Discussion   | PUR     | ARRANGED -         | ARR Center for Comp Sci | Pitt, L    |

Credit Hours: 1 hours
Students work with graduate students on research projects, under the auspices of the P.U.R.E. program. Students must have an assigned mentor and research project before registering. See the P.U.R.E. website for more information. (http://wiki.engr.illinois.edu/display/PURE)