

<b>Course Number</b>	<b>CS 499B</b>	<b>Course Title</b>	<b>Senior Thesis in Computer Science</b>			
<b>Semester Hours</b>	<b>3</b>	<b>Course Coordinator</b>	<b>Chun-Hsi Huang</b>			
<b>Catalog Description</b>	A continuation of CS 498, carrying out the approved research under the supervision of a Computer Science faculty culminating in a written thesis and presentation to the Computer Science faculty, evaluated by a committee consisting the advisor, the instructor of the course, and a member (as representative) of the Undergraduate Curriculum Committee.					
<b>Textbooks</b>						
<i>No Textbooks required.</i>						
<b>References</b>						
<ul style="list-style-type: none"> <li>• Leedy, P.D. &amp; Ormrod, J. E. (2018). <i>Practical Research: Planning and Design</i>, 12th Edition.</li> <li>• Barrass, R. (2000). <i>Scientists Must Write. A Guide to Better Writing for Scientists, Engineers and Students</i>. Chapman and Hall, London, New York.</li> </ul>						
<b>Course Learning Outcomes</b>						
<ul style="list-style-type: none"> <li>• Critical Thinking and Written Communication: Students produce a clearly written, Computer Science specific thesis that analyzes a complex problem or addresses a significant research question with insight and imagination.</li> <li>• Search, read, analyze, and summarize scientific literature</li> <li>• Pursue a scientific fact, plan a scientific work, and analyze scientific data. Draw conclusions and make scientific inferences.</li> <li>• Understanding of the current research questions in Computer Science.</li> <li>• To demonstrate the diverse skills and problem-solving abilities acquired during the students' undergraduate education.</li> </ul>						
<b>Assessment of the Contribution to Student Outcomes</b>						
<b>Outcome →</b>	1	2	3	4	5	6
<b>Assessed →</b>	X	X	X	X		X

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<b>Prerequisites by Topic</b>		
CS 498		
<b>Major Topics Covered in the Course</b>		
<ol style="list-style-type: none"><li>1. How to do scientific research: Literature review, summarizing literatures, conducting experimentation. { 16 classes }</li><li>2. Technical reporting writing { 16 classes }</li><li>3. Formal report and oral presentation { 6 classes }</li></ol>		