

**MENG 5396 – Thesis II**  
**Course Syllabus**

<b>Semester / Year</b>	Fall 2023
<b>Catalog Description</b>	Completion and defense of an acceptable master's thesis.
<b>Prerequisites</b>	Advisor approval.
<b>Section Number</b>	005
<b>Instructor Name</b>	Dr. Chung-Hyun Goh
<b>Contact Information</b>	3900 University Blvd., RBN 3007, Tyler TX. 75799 Phone: 903-566-6125 Email: <a href="mailto:cgoh@uttyler.edu">cgoh@uttyler.edu</a>
<b>Class Type / Instruction Mode / Location</b>	Weekly meeting with the thesis advisor / RBN 3007
<b>Class Time</b>	TBA
<b>Office Hours</b>	M/Tu/W 10 am – 11 am or by appointment.
<b>No. of Credits</b>	3
<b>Required Textbook</b>	N/A
<b>Optional References</b>	N/A
<b>Additional Rules and Requirements</b>	N/A
<b>Evaluation Method</b>	Thesis committee approval
<b>Grading Policy / Scale</b>	CR (credit with semester credit hours awarded) NC (no-credit with no semester credit hours awarded) IP (indicates In Progress; grade is changed only when coursework sequence is completed)
<b>Important Events / Dates</b>	Census date: 09/01/2023 Third drop for non-payment: 09/13/2023 Exam date: 11/27/2023 Last date to withdraw from one or more 15-week courses: 10/30/2023 2023 Career Success Conference: 10/19/2023 Final date: TBD
<b>Attendance / Makeup policy / other rules</b>	Weekly meeting with the thesis advisor.



<b>Course Learning Objectives / ABET &amp; PEOs Relation</b>	By the end of this course, students will be able to: <ol style="list-style-type: none"><li>1. Develop prototyping and validation &amp; verification strategies in specific areas assigned by the instructor.</li><li>2. Produce simulation and/or experimental results for the specific thesis work.</li><li>3. Interpret and analyze data obtained from the simulations and/or experiments leading to a thesis work.</li><li>4. Demonstrate the ability to write a thesis defense and present the findings to a thesis committee professionally.</li></ol>
<b>Tentative Topics / Course Plans</b>	<ul style="list-style-type: none"><li>• Introduction to RoboREHAB (Robotic Rehabilitation).</li><li>• Control design for leg assemblies in RoboREHAB.</li><li>• Reinforcement learning applications in RoboREHAB.</li><li>• Machine learning-Inverse Kinematics in generating gait trajectories.</li><li>• Technical manuscript writing.</li></ul>
<b>University Policies</b>	<a href="https://www.uttyler.edu/academic-affairs/files/syllabus_information_2021.pdf">https://www.uttyler.edu/academic-affairs/files/syllabus_information_2021.pdf</a>