

MENG 5395– Thesis I
Course Syllabus

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| Semester / Year | Fall 2024 |
| Catalog Description | Completion and approval of thesis |
| Prerequisites | Advisor approval. |
| Section Number | 003 |
| Instructor | Dr. Muath Salim |
| Contact info | Email: msalim@uttyler.edu Office: RBN 3011 |
| Class Type / Location | Weekly meeting with the thesis advisor |
| Class Times | TBA |
| Office Hours | Mon: 10:00- 11:00, Tue: 11:30-12:30, Wed: 9:00-10:00, or by appointment |
| Credits | 3 |
| Textbooks and Reference Materials | N/A |
| Optional References | N/A |
| Additional requirements | <p>UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools’ ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in UT Tyler’s Honor Code. Faculty and students must not use protected information, data, or copyrighted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased. Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course (see below) is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler’s Academic Integrity Policy.</p> <p>For this course, during some class assignments, we may leverage AI tools to support your learning, allow you to explore how AI tools can be used, and/or better understand their benefits and limitation. Learning how to use AI is an emerging skill, and we will work through the limitations of these evolving systems together. However, AI will be limited to assignments where AI is a critical component of the learning activity. I will always indicate when and where the use of AI tools for this course is appropriate</p> |

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| Instruction / Evaluation Method/ | Thesis committee approval |
| Grading Policy / Scale | 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) |
| Important events/dates | See UT Tyler Academic Calendar: https://www.uttyler.edu/schedule/files/2024-2025/academic-calendar-2024-2025-main-20240222.pdf |
| Attendance / Makeup policy | Weekly meeting with the thesis advisor. |
| Course Learning Objectives / ABET & PEOs relation | By the end of this course, students will be able to: <ol style="list-style-type: none"> 1. Identify the literature and the scope of work (SOW) in specific areas assigned by the instructor. 2. Produce preliminary results for the specific thesis work. 3. Develop tasks corresponding to the SOWs leading to a thesis work. 4. Demonstrate the ability to write a thesis proposal and present the findings to a thesis committee professionally |
| Course Outline | <ul style="list-style-type: none"> • Literature review • HVAC Systems design • Zoning Systems • AI tool in MATLAB • Design of experiments |
| University Policies | https://www.uttyler.edu/offices/academic-affairs/files/syllabus-information.pdf |