

Department of Mechanical Engineering

Phone: +1.903.566.7003 Fax: +1.903.566.7148 Uttyler.edu/engineering

MENG 5318 – Heating, Ventilation and Air Conditioning Course Syllabus

Semester / Year	Fall 2025		
Catalog Description			
8 1	psychometrics, psychrometry of air conditioning processes, vapor-compression		
	refrigeration cycle, design conditions, and load calculations. Components,		
	equipment, and common systems, as well as software for HVAC with		
	emphasis in whole building energy simulation are introduced.		
Prerequisites	Graduate standing, and MENG 3401 and MENG 3310 or equivalent.		
Section Number	Tyler campus: MENG 5318.001 and HEC: MENG 5318.051		
Instructor Name	Dr. Nelson Fumo		
Contact	Office: RBN 3009, Email: nfumo@uttyler.edu		
Information	, , , , , , , , , , , , , , , , , , ,		
Class Type /	T 1 I / /F / F / PDN 2020		
Instruction Mode /	Tyler: Lecture/Face-to-Face/RBN 3038		
Location	HEC: Hybrid – Zoom Lectures and In-Classroom-Exams/HEC 0A218.		
Class Time	Monday and Wednesday 5:00 PM to 6:20		
Office Hours	Tu, We, and Th 11:00 AM to 12:00 PM and by appointment, except on		
	Fridays, which are reserved for the instructor's research.		
No. of Credits	3		
Required Textbook	No textbook is required for this course.		
Optional References	Heating, Ventilating, and Air Conditioning: Analysis and Design, 7th		
	Edition. Faye C. McQuiston, Jerald D. Parker, Jeffrey D. Spitler, Hessam		
	Taherian. Wiley ISBN: 978-1-119-89416-2		
	W. P. Jones, Air Conditioning Engineering, Fifth Edition, available of free		
	download from the library (optional).		
	ASHRAE Handbooks with emphasis in the handbooks of Fundamentals and		
	Systems and Equipment.		
Additional Rules	HEC Students Access to lectures:		
and Requirements	1. Students must log in from their own computers to attend Zoom lectures.		
	Computers MUST have a working camera.		
	2. Attendance will be taken at the end of each lecture by capturing a		
	screenshot of the Zoom session attendees.		
	Tyler and HEC Students Exams:		
	1. All exams and quizzes will be conducted online through CANVAS, during		
	the regularly scheduled lecture times.		
	2. HEC students MUST keep their cameras on and ensure they are clearly		
	visible to the instructor for proctoring throughout the entire exam or quiz.		
	3. Students MUST remain in the session with their cameras on, showing		
	themselves, until the exam or quiz is officially closed on Canvas.		
	4. The instructor is not responsible for internet or computer issues. Students		
	MUST take all necessary precautions to ensure they can complete the		
	exam without interruption.		



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	Artificial Intelligence:		
	• AI tools are allowed to support students' learning and productivity, provided		
	that their use aligns with academic integrity standards. When required,		
	students must disclose their use of AI.		
Evaluation Method	Exam 1 20%		
	Exam 2 20%		
	Quizzes and assignments 20%		
	Projects 20%		
	Final exam 20%		
Grading Policy /	Letter grades, scale:		
Scale	A: 90 – 100; B: 80 – 89; C: 70 – 79; D: 60 – 69; F: < 60		
Important Events /	Census date: September 8		
Dates	Second drop for non-payment: September 17		
	Last date to withdraw from one or more 15-week courses: November 3		
Attendance /	1. Attendance : Attendance is not mandatory but is strongly recommended.		
Makeup policy /	Questions regarding missed classes will not be answered. There will be no		
other rules	makeups for quizzes; however, the lowest quiz grade will be dropped.		
	2. Makeup exam : An opportunity to make up a missed exam may be offered		
	to students with an excused absence. Excused absences include		
	participation in university-sponsored events and religious observances, in		
	accordance with university policy. Other makeups will be granted only in		
	extreme circumstances and at the discretion of the instructor. Absences		
	due to illness must be supported by documentation of treatment from		
	medical personnel at a recognized medical facility. Makeup exams may be		
	scheduled for the end of the semester.		
	3. Grade Appeal : Grades may be appealed by meeting with the instructor		
	during office hours, but no later than one week after the grade has been		
	posted.		
	4. Questions : Questions will only be addressed if the student can		
	demonstrate that they have made a genuine effort to find the solution or		
	answer independently.		
	5. Communication Policy : Students must contact me directly by email at		
	nfumo@uttyler.edu. Please do not use Canvas messaging, as I do not		
	monitor it for course communication and it does not allow proper threads		
	of replies.		
	6. Syllabus Changes : The instructor reserves the right to make changes to		
	the syllabus. Any changes will take effect one week after they are		
	announced.		
Course Learning	By the end of this course, students will be able to:		
Objectives / ABET	1. Apply psychrometric concepts to air conditioning processes.		
& PEOs Relation	2. Identify appropriate design condition for a location and building.		
	3. Recognize the parameters affecting load calculations.		
	4. Describe critical parameters for computer models in HVAC.		
Tentative Topics /	Please refer to the next page for the class schedule and topics.		
Course Plans	2 12 12 12 to the heavy page for the class senedate and topics.		
University Policies	https://www.uttyler.edu/offices/academic-affairs/files/syllabus-information.pdf		
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MENG 4318/5318 HVAC

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