

Fall 2020

ME 312-101: Thermodynamics II

Rodney Johnson

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ME 312 THERMODYNAMICS II

Instructor: Rodney Johnson, Ph.D., (609) 458-6143, Remote Learning rodneyjohnson@gmail.com

Class Hours: Monday 6 p.m. to 9 p.m., Via Zoom, Skype and Canvas, please check your email for relevant invites

Text: Cengel and Boles; *Thermodynamics: An Engineering Approach*, McGraw-Hill. 8th ed

Problem Sets: Use Handouts for the Problem Sets, which are due as indicated in the Course Schedule below. Each homework assignment will be submitted as a single PDF file using the Canvas. Late homework assignments will not be accepted.

Homework Handouts: Will be sent online via Canvas

Homework Solutions: Will be sent online via Canvas

Mid-Term Exams: Mid-term exams are scheduled as indicated in the Course Schedule below. Mid-term exams will not be rescheduled for any individual for any reason. If you miss a mid-term exam, the weight of that midterm exam will be placed onto the final exam.

Final Exam: The final exam is scheduled as indicated in the Course Schedule below. The final exam will not be rescheduled for any individual for any reason. You cannot miss the final exam. If you miss the final exam, you will receive a FAILING GRADE for the class.

“Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at: <http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>.

Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university. If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at dos@njit.edu”

ME 312 THERMODYNAMICS II

Student Conduct During Mid-Term Exams and the Final Exam:

- If you decide to share your work with someone else during the midterm exam, BOTH PEOPLE WILL RECEIVE A FAILING GRADE FOR THE CLASS.
- If you decide to share your work with someone else during the final exam, BOTH PEOPLE WILL RECEIVE A FAILING GRADE FOR THE CLASS.

Each type of incident outlined above will be referred to the University as a case of academic dishonesty.

Course Grade: 10% Problem Sets, 30% Mid-Term Exam 1, 30% Mid-Term Exam 2, 30% Final Exam.

A: 100 to 90, B: 89 to 80, C: 79 to 70, D: 69 to 60, F: < 60

Class Period	Date	Subject	Chapter	Homework Due Dates
1	9/8	Introduction		
2	9/14	Exergy	8	
3	9/21	Gas Power Cycles	9	
4	9/28	Vapor and Combined Power Cycles	10	
5	10/5	Mid-Term Exam 1	Canvas	
6	10/12	Refrigeration Cycles	11	
7	10/19	Gas Mixtures	13	
8	10/26	Gas-Vapor Mixtures and Air Conditioning	14	
9	11/2	Gas Power Cycles	9	
10	11/9	Gas Power Cycles	9	
11	11/16	Gas Power Cycles	9	
12	11/23	Mid-Term Exam 2	11,13,14	
13	11/30	Chemical Reactions	15	
14	12/7	Compressible Flow	17	
15	12/14	Final Exam	Canvas	