

AerE 411 Class Schedule

Note: this document and the dates therein are subject to change by the instructor during the semester.

Week	Date	Class	Topic
1	8/21 M	Lec	Introduction and Overview of Engine Properties
	8/23 W	Lec	Review of Thermodynamics and Gasdynamics
	8/25 F	Lec	Review of Thermodynamics and Gasdynamics
2	8/28 M	Lec	Review of Thermodynamics and Gasdynamics
	8/30 W	Lec	Review of Thermodynamics and Gasdynamics
	9/1 F	Lec	Review of Thermodynamics and Gasdynamics
3	9/4 M	No Class	University Holiday (Labor Day)
	9/6 W	Lec	Trip to see engines (<u>sign-up sheet</u>)
	9/8 F	Lec HW	Ideal Cycle Analysis – turbojet Homework 1 Due
4	9/11 M	Lec	Ideal Cycle Analysis – turbojet
	9/13 W	Lec	Ideal Cycle Analysis – turbojet
	9/15 F	Lec	Basic Rocket Analysis
5	9/18 M	Lec	Basic Rocket Analysis
	9/20 W	Lec	Basic Rocket Analysis
	9/22 F	Lec	Off Design Analysis – turbojet
6	9/25 M	Lec	Off Design Analysis – turbojet
	9/27 W	Lec	Ideal Cycle Analysis – ramjet/turbojet
	9/29 F	Lec HW	Ideal Cycle Analysis – ramjet/turbojet Homework 2 Due
7	10/2 M	Lec	Ideal Cycle Analysis – afterburner
	10/4 W	Lec	Ideal Cycle Analysis – afterburner
	10/6 F	Lec	Ideal Cycle Analysis – separate stream turbofan
8 *	10/9 M	Lec	Ideal Cycle Analysis – separate stream turbofan
	10/11 W	Lec	Ideal Cycle Analysis – separate stream turbofan
	10/13 F	Lec	Ideal Cycle Analysis – mixing streams
9	10/16 M	Lec	Ideal Cycle Analysis – mixed stream turbofan
	10/18 W	Lec	Ideal Cycle Analysis – mixed stream turbofan
	10/20 F	Exam HW	Midterm Exam (covers material through 10/6) Homework 3 Due

10	10/23 M	Lec	Other Engines and Engine Component Properties
	10/25 W	Lec	Engine Component Properties – inlets
	10/27 F	Lec	Engine Component Properties – compressor
11	10/30 M	Lec	Engine Component Properties – compressor
	11/1 W	Lec	Engine Component Properties – compressor
	11/3 F	Lec	Engine Component Properties – burner
12	11/6 M	Lec	Engine Component Properties – burner
	11/8 W	Lec	Engine Component Properties – turbine
	11/10 F	Lec HW	Engine Component Properties – nozzle Homework 4 Due
13	11/13 M	Lec	Non–Ideal Cycle Analysis – nonideal turbojet
	11/15 W	Lec	Non–Ideal Cycle Analysis – nonideal turbojet
	11/17 F	Lec	Non–Ideal Cycle Analysis – nonideal turbojet
14	11/20 M	No Class	Thanksgiving Break
	11/22 W	No Class	Thanksgiving Break
	11/24 F	No Class	Thanksgiving Break
15	11/27 M	Lec	Special Topics
	11/29 W	Lec	Special Topics
	12/1 F	Lec HW	Special Topics Homework 5 Due
16	12/4 M	Lec	Special Topics
	12/6 W	Lec	Special Topics
	12/8 F	Review	Review for Final Exam
17	12/11 M		Final Exam Week
	12/13 W		Final Exam Week
	12/15 F		Final Exam Week

* – midterm reports due.