

Fall 2019

ME 408-101: Mechanical Systems Design II

K. Russell

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Mechanical System Design II (ME 408-101)

Instructor: Dr. K. Russell, P.E.

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Office: 333D MEC

Office Hours: Tues-Thurs 3:00-5:30 p.m. (no appointment)

Course Summary

ME 408 emphasizes creativity and group coordination in the development of engineering design solutions.

Technical writing and technical briefing are also routine.

Prerequisites: Mechanical System Design I (ME 403)

Text

None (course material included in the downloadable file *FILES.zip*)

DATES	TOPICS
09/04	1. Course Introduction & Types of Engineering Design Problems
09/11	2. The Engineering Design Process
09/18	3. Project Scheduling and Reporting (Deadline for Group & Project Selections)
09/25	4. Conveying Technical Findings
10/02	Project Status Presentations
10/09	5. Engineering Analysis Approaches
10/16	Project Status Presentations
10/23	6. Collaboration in Engineering and Change Management
10/30	Project Status Presentations
11/06	7. Engineering Ethics
11/13	Project Status Presentations
11/20	8. Modern Engineering
12/04	Project Status Presentations
12/11	9. Fostering Creativity and Protecting Innovation
TBD	Final Project Presentation, Report Submission and Poster Submission Deadline

Grading 75% final project report & poster, 25% project presentations (5 status and 1 final)

A \geq 90, 90>B \geq 85, 85>B \geq 80, 80>C \geq 75, 75>C \geq 70, 70>D \geq 60, 60>F

Policies Late reports will be penalized a letter grade.

There is a stiff penalty for any violation of the NJIT Honor Code (e.g., plagiarism and cheating)

Link for Downloads <http://www.softalink.com/kruss/me408/FILES.zip>