

Fall 2023

ME 408-101: Mechanical Systems Design II

Kevin Russell

Follow this and additional works at: <https://digitalcommons.njit.edu/mie-syllabi>

Recommended Citation

Russell, Kevin, "ME 408-101: Mechanical Systems Design II" (2023). *Mechanical and Industrial Engineering Syllabi*. 452.

<https://digitalcommons.njit.edu/mie-syllabi/452>

This Syllabus is brought to you for free and open access by the NJIT Syllabi at Digital Commons @ NJIT. It has been accepted for inclusion in Mechanical and Industrial Engineering Syllabi by an authorized administrator of Digital Commons @ NJIT. For more information, please contact digitalcommons@njit.edu.

Mechanical System Design II (ME 408-101)

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

e-mail: kevin.russell@njit.edu

Office: 333D MEC

Office Hours: Mon 3:30-5:30 and Thurs 3:30-5:30, no appointment for in-person visit (appointment needed for Webex visit)

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 *BUNDLE.zip*)

| DATES | TOPICS |
|--------------|---|
| 09/11 | 1. Course Introduction & Types of Engineering Design Problems |
| 09/18 | 2. The Engineering Design Process |
| 09/25 | 3. Project Scheduling and Reporting (Proposal Submission Deadline) |
| 10/02 | 4. Conveying Technical Findings |
| 10/09 | Project Status Presentations |
| 10/16 | 5. Engineering Analysis Approaches & Design Standards |
| 10/23 | Project Status Presentations |
| 10/30 | 6. Report Review |
| 11/06 | Project Status Presentations |
| 11/13 | 7. Report Review |
| 11/20 | Project Status Presentations |
| 11/27 | 8. Report Review |
| 12/04 | Project Status Presentations |
| 12/11 | 9. Report Review |
| TBD | Final Project Presentation, Report Submission and Poster Submission Deadline |

Grading 70%+5% final project report + poster, 25% project presentations (5 status and 1 final)

A≥90, 90>B≥85, 85>B≥80, 80>C+≥75, 75>C+≥70, 70>D≥60, 60>F

Policies Late submissions and presentation no-shows will be penalized gradewise.

There is a penalty for any violation of the NJIT Honor Code (e.g., plagiarism, lack of member participation in group)

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