

ENGR 105 – Engineering Fundamentals

Fall 2021

Instructor

Mark Holdhusen, Ph.D.

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Description

This course equips students with the tools and background to be a successful engineering student and practicing engineer. Topics covered in this course include project management, teamwork, technical writing, data and spreadsheets, presentations, engineering design, and understanding the engineering profession.

Website

This course is offered hybrid so much of the information for this course is on the internet at

<https://canvas.uwsp.edu>

Meeting Times:

- Wednesday - Marshfield - Room 126 - 12:00PM - 12:50PM
- Thursday - Wausau - Room 284 - 12:00PM - 12:50PM
- Friday - Stevens Point - Science Building A112 - 12:00PM – 12:50PM
- All meetings also in Zoom, check Canvas for link

Assessments

- Assignments 40%
- Mini Projects 15%
- Project I 15%
- Project II 15%
- Excel Project 15%

Grading Scale

- | | | | |
|-----------------|-----------------|-----------------|-----------------|
| • 93 – 100% = A | • 83 – 86% = B | • 73 – 76% = C | • 63 – 66% = D |
| • 90 – 92% = A- | • 80 – 82% = B- | • 70 – 72% = C- | • 60 – 62% = D- |
| • 87 – 89% = B+ | • 77 – 79% = C+ | • 67 – 69% = D+ | • < 59% = F |

Academic Misconduct

To maintain academic integrity, a student must only claim work which is the authentic work solely of their own, providing correct citations and credit to others as needed. Cheating, fabrication, plagiarism, unauthorized collaboration, and/or helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. Failure to understand what constitutes academic misconduct does not exempt responsibility from engaging in it. Students suspected of academic misconduct will be asked to meet with the instructor to discuss the concerns. If academic misconduct is evident, procedures for determining disciplinary sanctions will be followed as outlined in the University System Administrative Code, Chapter 14.

Course Calendar

Date	Topic	Date	Topic
2-Sep	Introduction	25-Oct	
3-Sep		26-Oct	
6-Sep	Labor Day	27-Oct	Statistics & Engineering Disciplines
7-Sep		28-Oct	
8-Sep	Engineering Design & Excel Basics	29-Oct	
9-Sep		1-Nov	
10-Sep		2-Nov	
13-Sep		3-Nov	Curve Fitting & Pivot Tables
14-Sep		4-Nov	
15-Sep	Project Management & Excel Functions	5-Nov	
16-Sep		8-Nov	
17-Sep		9-Nov	
20-Sep		10-Nov	Presentations
21-Sep		11-Nov	
22-Sep	Technical Writing & Excel Graphing	12-Nov	
23-Sep		15-Nov	
24-Sep		16-Nov	
27-Sep		17-Nov	Transferring & Registration
28-Sep		18-Nov	
29-Sep	Mini-Project & IF Statements	19-Nov	
30-Sep		22-Nov	
1-Oct		23-Nov	Work Day
4-Oct		24-Nov	
5-Oct	Numbers & Units	25-Nov	Thanksgiving
6-Oct		26-Nov	
7-Oct		29-Nov	
8-Oct		30-Nov	
11-Oct		1-Dec	Mini-Project & Ethics
12-Oct		2-Dec	
13-Oct	Work Day	3-Dec	
14-Oct		6-Dec	
15-Oct		7-Dec	
18-Oct		8-Dec	Work Day
19-Oct		9-Dec	
20-Oct	Mousetrap Car Competition	10-Dec	
21-Oct		13-Dec	Bridge Presentations (10:15AM - 12:15PM)
22-Oct			