

University of Nevada, Reno
Department of Mechanical Engineering

MECH 150

Fall 2002

<http://web.me.unr.edu/me150>

Instructor:	
Jesse Adams jdadams@unr.edu Office: 201 B Palmer Engineering Phone: 784-6738 Office Hours: By Appointment	
Teaching Assistants:	
Toru-Dutt Nalajala ("Dutt") Office: PE13 Office Hours: 1-2PM M,W,F email: torudutt@unr.nevada.edu	Sebastian Uppapalli Office: PE215 Office Hours: 2:30-4PM T ; 3-4:30PM Th email: usebasti@scsr.nevada.edu
Stanford Project Coaches:	
Andrew Carrillo email: andrewgc@stanford.edu Ken Carrizosa email: kcarrizo@stanford.edu	

Course Objectives:

Learn about mechanical engineering as a career, about the curriculum at UNR, how to work on a team, the design process, and engineering ethics. Students should also become proficient at basic hand graphics, basic computer skills, using spreadsheets, technical writing, and giving technical presentations.

Texts:

- **Introduction to Excel**, D. C. Kuncicky, Prentice Hall.
- **Introduction to Engineering Design: Book 3**, J. W. Dally, College House Enterprises.

Recommended Reading:

- **The Millionaire Mind**, T.J. Stanley, Andrews McMeel Publishing.
- **It's Not About the Bike**, L. Armstrong, The Berkley Publishing Group.

Grading: Grading is based on a 10,000 point scale.

Discussion	1000 points
Skills Lab	3000 points
Project Lab	5000 points (transferable points)
Merit Pay	1000 points

number of points	equivalent Grade
$\geq 9,301$	A
9,001-9,300	A-
8,701-9,000	B+
8,301-8,700	B
8,001-8,300	B-
7,701-8,000	C+
7,301-7,700	C
7,001-7,300	C-
6,701-7,000	D+
6,301-6,700	D
6,001-6,300	D-
$\leq 6,000$	F

Discussion section is graded based on attendance, 100 points per each of the 10 discussions in which attendance is taken (see the Student Contract).

Skills Lab assignments are due at the beginning of the lab on the due date listed in the attached syllabus. Each assignment is worth 300-400 points and the quiz is worth 600 points. No late assignments will be accepted (see the Student Contract).

Projects Lab assignments include 3 written reports (600 points each), 2 oral progress reports (600 points each), a final presentation (1000 points), and a final report (1000 points). Points are awarded based on quality of work. Projects Lab points are transferable to other teams (i.e. can be used as currency) - see the Student Contract for more details.

Merit Pay (1000 points) is awarded for individual effort within a team. Merit points are based on Personnel Evaluations and recommendations by team leaders - see the Student Contract for more details.

Disability Statement:

If you have a disability for which you will need to request accommodations, please contact any of the instructors or Mary Zabel at the Disability Resource Center (Thompson Student Services - 107) as soon as possible to arrange for appropriate accommodations.

Day	Discussion 2:30 - 3:20 pm SEM 101	Project Lecture/Lab 3:30-5:15 pm SEM 101	Reading Due in Class
Aug. 28	Introduction	Design Experience (Ken and Andrew)	
Sep. 4	Mechanical Engineering Nanotechnology	Mechanical Principles	Dally: 1,2,3
Sept. 11	Guest speaker	Electrical Principles	Dally: 4
Sept. 18	Guest speaker	Assign Concept Description Report	Dally: 13
Sept. 25	<i>No Class – Teams Work on Design Concepts</i>		
Oct. 2	Guest speaker	Written Design Concept Description due (600 pts) Society/Safety/Risk	Dally: 15, 16
Oct. 9	Guest speaker	Design Briefings Assign Analysis Report	Dally: 14
Oct. 16	Guest speaker	Teams and Process (Ken and Andrew)	Dally: 11,12
Oct. 23	Team Design Review - Written Analysis Report (600 pts) - 8 minute Oral Reports (600 pts)		
Oct. 30	Guest speaker	Assign Prototype Report	
Nov. 6	Guest speaker	Extended Team Meetings	
Nov. 13	<i>No Class – Teams Work on Prototypes</i>		
Nov. 20	Prototypes Due - Written Test Results (900 pts) - 8 minute Oral Reports (900 pts)		
Nov. 27	Guest speaker	Assign Final Report	
Dec. 4	Guest speaker	Advising & Ethics	Dally: 17
Dec. 11	<i>No Class – Dead Day</i>		
Dec. 18	Final Exam Period: Noon-2PM SEM 101 Final Written Report Due (1400 pts) Course Wrap (Attendance Mandatory)		