

Mechanical Systems
Fall
2019 Syllabus

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Monday 1 - 3:50pm and Thursday 6 - 8:50pm
Monday 6 - 8:50pm and Wednesday 6 - 8:50pm
Office hours: TBA or by appointment

Course Description

This lecture/lab course introduces students to fundamental mechanical skills, concepts and practices. It is intended for technicians and maintenance personnel. The hands-on portion allows students an opportunity to learn some basic “millwrighting” skills. Safety will be emphasized. Topics include:

Basic Math / problem solving	Taps & dies
Simple machines	Hand/power tool use
Record keeping	Drive systems
Report writing	Fasteners
Making measurements	Hydraulics
Calipers / micrometers	Pneumatics

Prerequisites/Expectations

Desire & motivation.
Ability to add, subtract, multiply and divide integers and fractions.

Reference Materials

Textbook: *Industrial Mechanics 4th*. Albert W. Kemp. American Technical Publishers (ATP).
Workbook: *Industrial Mechanics 4th. Workbook*. ATP Staff. American Technical Publishers (ATP).
Additional reference material to be supplied by the instructor.

Homework

Homework consists primarily of worksheet/workbook assignments. Due dates on assignments is important. Late homework assignments are accepted on a case-by-case basis. Early assignments are gladly accepted, but will be graded with the rest of the class.

Quizzes

Quizzes will be given during the term. Expect at least one “pop quiz.” All material covered up to the time of the quiz (lecture, homework, and labs) is considered fair game. Make-up quizzes will not be offered.

Labs

Lab work is related to the concepts presented in class, but will not always align perfectly. Lab assignments are typically due at the beginning of the next scheduled class meeting. Late lab assignments are accepted on a case-by-case basis.. Early lab assignments are gladly accepted, but will be graded with the rest of the class.

Grading

Students will earn a letter grade according to the standard grading scale:

90 – 100% = A, 80 – 89% = B, 70 – 79% = C, 60 – 69% = D, < 59% = F

Grades will be assigned based on the following:

- Homework
- In class activities
- Quizzes
- Lab Work
- Final Exam

Optional extra points

- 100% attendance 2%
- 100% on time 2%
- Writing Center Assistance - Details to be explained in class - 5 extra credit points on the assignment for proof of assistance.

Additional Information

Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency, should speak with the instructor during the first week of class. If you have not accessed services and think you may need them, please contact The Center for Accessibility Resources at 541-917-4789.

Cell / Smart Phones: The use of cell/smart phones is restricted during lectures and laboratory activities. During lectures please adjust phone to “vibrate” mode; you may use your phone for lecture related “look ups,” but keep in mind that using your phone may distract other students. For safety, please turn off phones when completing lab exercises. Cell/smart phones are NOT allowed to be used as calculators for quizzes.

Personal Computers (Notebook/Laptop/PDA): To use a computer such as a netbook, laptop, ipad, or PDA for class notes please make an appointment to speak with the instructor outside of class time to fully understand the limitations and responsibilities for their use. Computers in the labs are only to be used for class or lab activities, not for personal reasons and under no circumstances should downloads and /or installation of software be attempted on the lab computers. This can be a call for disciplinary action, due to a need to protect our class computers from viruses.

The LBCC community values diversity. Each person makes a unique contribution which helps to enrich that diversity at the college. LBCC prohibits all unlawful discrimination toward any individual, group, or segment of society afforded discriminatory protection under applicable federal, state, or local laws. Everyone has the right to think, learn, and work together in an environment of respect, acceptance, and goodwill.

Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the Roadrunner Resource Center for support (resources@linnbenton.edu , or visit us on the web www.linnbenton.edu/RRC under Student Support for Current Students). Our office can help students get connected to resources to help. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to provide any resources that they may possess.