

## UA SIE 414/514 Law for Engineers and Scientists / Spring 2018

**Designation:** Required Course in Engineering Management

**Catalog description:** Topics covered in this course include government and commercial contracting, Federal Acquisition Regulations, intellectual property law, product liability, torts, administrative law, environmental law and employment relations law and other legal matters important to engineers and scientists.

**Prerequisites:** Upper-division standing in College of Engineering.

**Textbook(s):** Legal Aspects of Engineering, Latest Edition, Cynthia Gayton.

**Course Outcomes:** This course introduces students to the legal aspects of dealing with technology products and services. Specific outcomes include:

- Understanding of the legal system, and the controls it exerts on the activities of engineers and managers in practice.
- Learn basic legal concepts to enable the identification of possible issues/problems and make more informed decisions on when to confer with legal counsel in management or practice of engineering.
- Learn the details of what the individual's responsibilities are to ensure legal behavior in management or practice of engineering.

In addition, **Graduate** students will:

- Gain experience in team leadership and develop leadership skills.
- Understand the importance of legal accountability in management or practice of engineering.
- Understand how to implement necessary legal procedures and processes while delivering a compliant proposal.

**Topics Covered:** The US Legal System  
Government & Commercial Proposals & Contracting (FAR and UCC)  
Torts  
Environmental Laws  
Ethics  
Intellectual Property  
    Patents  
    Copyrights  
    Trade Secrets  
    Data Rights  
Employment Laws  
Product Liability

**Class Schedule:** Two 75 minute lectures per week. MW 4:30 pm to 5:45 pm. AME S212

**Topics: (See Class Schedule)**

### **Class Format, Exam, and Grading Policy:**

Attendance will be taken in this class. Material will be presented in class that is not in the textbook and discussions that amplify, clarify, and/or apply the textbook will be conducted.

## **GRADING**

Four (4) elements will determine your grade:

- 1) There will be 5 homework assignments, each counting for 3% of the class grade.
- 2) There will be 2 quizzes, each counting for 5% of the class grade.
- 3) There will be a mid-term exam and a final exam, each counting for 15% of the class grade.
- 4) Group Small Business Innovation Research Government Proposal (Written Technical and Cost Volumes, Data Rights Assertions, and Verbal Management Presentation) counting for 45% of the class grade.
  - There will be two (2) interim presentations and a final proposal. The interim presentations each count for 5% of the class grade and the final proposal counts for 35% of the class grade.
  - Interim presentations will occur outside of class and a time will be arranged with the TA to give the interim presentations.

Grading Scale: A: 90% and above

B: 80-89%

C: 70-79%

D: 60-69%

All exams will be administered and graded "electronically," i.e., through d2l and will only be accessible during date and time indicated. The final exam is comprehensive and will allow open book and notes. However, there will be a time limit of 1 hour for the midterm, and 2 hours for final exam. Note, there are no make-up exams. If you miss an exam with no valid excuse, then you will be given a "0" for that exam. If there is a medical emergency, then you will need a doctor's note. **The final exam is mandatory and there will be no change in time as this would be a violation of University policy.**

**Academic Integrity Policy:**

*Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See: <http://dos.web.arizona.edu/uapolicies/>*

**Classroom Behavior Policy:**

As a courtesy to your fellow students and the instructor, cell phones, portable audio devices, tablets, and lap top computers are to be turned off during class except for note taking. Talking with neighbors, inappropriate laughing, and disruptive behavior will not be tolerated. The Arizona Board of Regents' Student Code of Conduct, ABOR Policy 5-308, prohibits threats of physical harm to any member of the University community, including to one's self. See: <http://policy.web.arizona.edu/~policy/threaten.shtml>.

**Special Needs and Accommodations:**

*Students who need special accommodation or services should contact the Disability Resources Center, 1224 East Lowell Street, Tucson, AZ 85721, (520) 621-3268, FAX (520) 621-9423, email: [uadrc@email.arizona.edu](mailto:uadrc@email.arizona.edu), <http://drc.arizona.edu/>. You must register and request that the Center or DRC send me official notification of your accommodations needs as soon as possible. Please plan to meet with me by appointment to discuss accommodations and how my course requirements and activities may impact your ability to fully participate. The need for accommodations must be documented by the appropriate office.*

**Course Withdrawal Policy:**

Course withdrawals filed by the end of the fourth week of classes result in cancellation of registration in the course. For course withdrawals filed from the end of the fourth week of classes until the end of the eighth week of classes, the grade of "W" is awarded to students who are passing at the time of withdrawal; the grade of "E" may be awarded to students not passing at the time of withdrawal. Both grades show on the student's permanent record.

The last day on which a student may drop a course is the last day of the eighth week during which classes are held, except for an extraordinary reason approved by the academic dean, who has stated, "Failing the class is not an extraordinary circumstance. 'I was sick for a week' is not an extraordinary circumstance. The College of Engineering Dean's Office is holding to the drop policy and we are evaluating extraordinary circumstances. If a student decides to stay in a class and then later fails, we will not just give them a "W" as if they dropped. Students are responsible for their decisions."

**Subject to Change Statement:**

*Information contained in the course syllabus and class schedule, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.*

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