

**Syllabus**  
**SIE367 – Engineering Management II**  
**Spring 2017**

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**Required Text:** *Strategic Management*, 3rd edition,  
by Frank T. Rothaermel

**Designation:** Required course for Engineering Management.

**Course Description: Engineering Management II (3 units):**

Methods and modern techniques of engineering management analysis for decision making. This course teaches theory and practical applications to prepare students for the challenges of managing a technical organization in the 21<sup>st</sup> century. The course includes:

1. Strategy Analysis
2. Strategy Formulation
3. Strategy Implementation

**Course Prerequisites:** SIE 265, or consent of instructor

**Course Format and Course Communication:**

This class will use web-based D2L (Desire to Learn) as the primary means of distributing class materials, including assignments. All projects and homework must be uploaded into Dropboxes on or before the due dates. **NO LATE ASSIGNMENTS** will be accepted. Your grades for all assignments will be available on D2L. You will need a UANet ID to access D2L online. You are expected to check D2L frequently for class information.

**Course objectives:**

This course introduces students to concepts of strategic management for technical organizations. Course objectives include:

1. 1. Extend the understanding of engineering economics while developing a sophisticated financial model that evaluates the viability of a manufacturing company.
2. Explore the leadership capabilities required in technology-based organizations.
3. Explore the most typical types of decision making required by leaders in technology-based organizations.
4. Prepare to become effective leaders in technology-based organizations.

### **Absences and Class Participation Policy:**

The UA's policy concerning Class Attendance, Participation, and Administrative Drops is available at: <http://catalog.arizona.edu/policy/class-attendance-participation-and-administrative-drop>

The UA policy regarding absences for any sincerely held religious belief, observance or practice will be accommodated where reasonable, <http://policy.arizona.edu/human-resources/religious-accommodation-policy>.

Absences pre-approved by the UA Dean of Students (or Dean Designee) will be honored. See: <https://deanofstudents.arizona.edu/absences>

Participating in the course and attending lectures and other course events are vital to the learning process. Students are responsible for all materials covered during class. As such, attendance is strongly recommended. Occasionally, attendance may be required for special events such as Project Presentations. Students who miss class due to illness or emergency are required to bring documentation from their health-care provider or other relevant, professional third parties. Failure to submit third-party documentation will result in unexcused absences.

### **Final Examination:**

The Final Exam is scheduled for Monday May 8<sup>th</sup> from 3:30 AM – 5:30 PM in the regular classroom. **Note: attendance at the final is required.** The Final Exam Regulations can be found at <https://www.registrar.arizona.edu/courses/final-examination-regulations-and-information>, and Final Exam Schedule can be found at <http://www.registrar.arizona.edu/schedules/finals.htm>

### **Grading Scale and Policies:**

Grades for this course will be determined as follows: **(Note: this is preliminary but very close. We will have final rubric on first day of class)**

20%	Management Case Study
	Powerpoint Presentation
	Video or Audio Recording
20%	Quizzes
20%	Financial Model Project
	(Following percentages are of the above category)
	1 <sup>st</sup> Year Model- 25%
	Sales, Mfg, Inventory, & Backlog Estimates- 25%
	5 Year model (10 year valuation)- 25%
	Case Study- 25%
20%	Mid-Term Exam
20%	Final Exam

Final Grades for this course will be computed as follows:

> 90%	A
> 80%	B
> 70%	C
> 60%	D
< 60%	E

Note that much of the material that may show up on exams will only be presented in class. It's in your best interest to attend every class.

### **Class Schedule:**

The preliminary Class Schedule is available on D2L. This is subject to slight changes as this is the first semester for a new textbook. It lists all material to be covered by date and includes references to the textbook chapters and D2L modules. All assignments are listed with their respective due dates. **Note that the Dropbox for each assignment will remain open only until 2 PM the day the assignment is due.**

### **Class Guidelines:**

- Please arrive to class on time and turn off all electronic devices.
- Attendance on test days is required. In case of emergency or serious illness, notify your instructor prior to the test.
- No extra credit will be available.
- Always behave in an ethical manner. Treat your classmates, instructor and any guests with respect.
- Students are expected to abide by the University of Arizona Code of Academic Integrity, which may be found at:

<http://studpubs.web.arizona.edu/policies/cacaint.htm>

### **Classroom Behavior Policy:**

To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming, and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (e.g., texting, chatting, reading a newspaper, making phone calls, web surfing, etc.).

### **Threatening Behavior Policy**

The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to oneself. See

<http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students>.

### **Accessibility and Accommodations:**

Our goal in this classroom is that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, please let me know immediately so that we can discuss options. You are also welcome to contact the Disability Resource Center (520-621-3268) to establish reasonable accommodations. For additional information on the Disability Resource Center and reasonable accommodations, please visit <http://drc.arizona.edu>.

If you have reasonable accommodations, please plan to meet with me by appointment or during office hours to discuss accommodations and how my course requirements and activities may impact your ability to fully participate.

Please be aware that the accessible table and chairs in this room should remain available for students who find that standard classroom seating is not usable.

### **Code of Academic Integrity**

Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, graded work/exercises must be the product of independent effort unless otherwise instructed. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See: <http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity>.

The University Libraries have some excellent tips for avoiding plagiarism, available at <http://www.library.arizona.edu/help/tutorials/plagiarism/index.html>.

*Selling class notes and/or other course materials to other students or to a third party for resale is not permitted without the instructor's express written consent.* Violations to this and other course rules are subject to the Code of Academic Integrity and may result in course sanctions. Additionally, students who use D2L or UA e-mail to sell or buy these copyrighted materials are subject to Code of Conduct Violations for misuse of student e-mail addresses. This conduct may also constitute copyright infringement.

### **UA Nondiscrimination and Anti-Harassment Policy**

The University is committed to creating and maintaining an environment free of discrimination; see <http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy>

Our classroom is a place where everyone is encouraged to express well-formed opinions and their reasons for those opinions. We also want to create a tolerant and open environment where such opinions can be expressed without resorting to bullying or discrimination of others.

### **Additional Resources for Students:**

UA Academic policies and procedures are available at <http://catalog.arizona.edu/policies>

Student Assistance and Advocacy information is available at <http://deanofstudents.arizona.edu/student-assistance/students/student-assistance>

### **Confidentiality of Student Records**

All student records are held in strict confidence. Additional information can be found at <http://www.registrar.arizona.edu/personal-information/family-educational-rights-and-privacy-act-1974-ferpa?topic=ferpa>

### **Subject to Change Statement:**

The information contained in the course syllabus, other than the grade and absence policies, may be subject to change.