

## ENTC 429 Managing People and Projects – Fall 2009

- OBJECTIVES:** Study the factors necessary for successful project management. Topics include project management concepts, needs identification, the project manager, teams, project organizations, project communications, project planning, scheduling, control and associated costs. The prerequisite of this class is INEN 302 and graduation in Spring or Summer 2010.
- INSTRUCTOR:** Louis McDaniels; 512-496-8768 (Mobile – NO TEXT MESSAGES) or 979-458-4509 (Campus office); [mcdaniels@entc.tamu.edu](mailto:mcdaniels@entc.tamu.edu). Office: THOM 118F.
- MEETING TIME:** Lecture: M from 4:10 – 5:25 p.m. in FERM 110.
- OFFICE HOURS:** W 2:30-3:30 p.m. or by appointment.
- TEXT:** Gido, J. and Clements, J., *Successful Project Management, 3<sup>rd</sup> or 4<sup>th</sup> Edition*, Thomson South-Western Publishing, 2006
- REFERENCE:** Certo, S., *Supervision: Concepts and Skill Building*, Third Edition, McGraw-Hill
- ATTENDANCE:** Attendance is per University Regulations and is required. Beginning with week 3, each unexcused absence more than three reduces your final course grade by one percentage point up to a maximum of five percentage points. See below for **excused absence** rules.

### EXCUSED ABSENCES:

- See Student Rule 7 (<http://student-rules.tamu.edu/rule07>). In the event of illness, confirmation of visit to a health care professional affirming date and time of visit must be presented according to Section 7.1.6.2.b.
- Make-up of exams and homework will not be allowed except for an excused absence.** Due dates will be set by Mr. McDaniels. If a quiz is missed due to an excused absence, the student will be awarded the class average quiz grade for that quiz.

### GRADING:

Required Exams (2x + final) <sup>(1)</sup>	50%	$90\% \leq A$
Attendance and Participation	5%	$80\% \leq B < 90\%$
Quizzes	10%	$70\% \leq C < 80\%$
Homework <sup>(2)</sup>	5%	$60\% \leq D < 70\%$
Project	30%	$F < 60\%$

### NOTES:

- Makeup and late work will not be allowed except for excused absences per TAMU regulations. Due dates will be set by Mr. McDaniels.
- Homework will be regularly assigned. Answers will be posted at <http://etidweb.tamu.edu/ftp/entc429/>

**Plagiarism and Intellectual Property:** The handouts used in this course are copyrighted. “Handouts” means all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless you are expressly granted permission by the copyright holder.

As commonly defined plagiarism consists of passing off as one’s own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.

If you have any questions regarding plagiarism, please consult the latest issue of the *Texas A&M University Student Rules*, under the section “Scholastic Dishonesty.”

**American with Disabilities (ADA) Policy Statement:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Cain Hall, Rm. B118, or call 845-1637. For additional information visit <http://disability.tamu.edu>.

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**Academic Integrity:** “An Aggie does not lie, cheat or steal or tolerate those who do.” The Aggie Code of Honor is an effort to unify the aims of all Texas A&M men and women toward a high code of ethics and personal dignity. For most, living under this code will be no problem, as it asks nothing of a person that is beyond reason. It only calls for honesty and integrity, characteristics that Aggies have always exemplified. The Aggie Code of Honor functions as a symbol to all Aggies, promoting understanding and loyalty to truth and confidence in each other. See <http://student-rules.tamu.edu/rule20> and <http://www.tamu.edu/aggiehonor/> for more information about Student Rules and the Aggie Honor System.

### Lecture Schedule

Week	Monday	Wednesday	Chapter <sup>1</sup>
1 – 08/31	Introduction to Project Concepts	Project Manager	1 10
2 – 09/07	Project Attributes Project Life Cycle	Project Manager	1 10
3 – 09/14	Project Selection Project Triangle	Team Development	2, Notes 11
4 – 09/21	Project Proposal Project Planning	Ethics	3, 4 11, Notes
5 – 09/28	Business Case	Conflict	Notes 11
6 – 10/05	<b>EXAM 1</b>	Problem Solving	11, Notes
7 – 10/12	Activity Planning Network Principles	Time management	5 11
8 – 10/19	Scheduling	Diversity	Notes
9 – 10/26	Schedule Control	Labor laws	7 Notes
10 – 11/02	Resource Considerations	Leadership theory	8 Notes
11 – 11/09	Cost Considerations Project assignment	Motivating the Team Performance appraisals	9 Notes
12 – 11/16	Cost Estimating	Safety and Environmental Organizations	11 Notes, 13
13 – 11/23	<b>EXAM 2</b>	??	
14 – 11/30	Project Communication	Personal Communication	12
15 – 12/07	Project Proposal Presentations	Project Proposal Presentations	
	<b>Monday</b>		
12/14	<b>Final Exam 3:30 – 5:30 p.m.</b>		

<sup>1</sup> Notes on most lecture topics are available at <http://etidweb.tamu.edu/ftp/entc429/>. These notes contain material that may not be mentioned in lecture and should be reviewed in preparation for exams and quizzes.

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**ABET Outcomes:** The following areas will receive particular emphasis as a part of the ABET accreditation process.

- Demonstrate a fundamental understanding of the essential components of project management.
- Apply analytical techniques to project scheduling, control and cost estimating.
- Understand ethics and labor relations in an industrial setting.
- Communicate effectively and correctly in writing.
- Develop a technical proposal as a team using the prescribed methodology.

### Relation between ENTC429 Course Objectives and MMET Program Outcomes

The Manufacturing and Mechanical ET program is designed to provide the student with several skills at the time of graduation. These skills and abilities are stated in the following MMET Program Outcomes:

A Manufacturing and Mechanical Engineering Technology graduate has the following abilities at the time of graduation:

- (a) An appropriate mastery of the knowledge, techniques, skills and modern tools of manufacturing and mechanical systems and processes.
- (b) An ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering and technology.
- (c) An ability to conduct, analyze and interpret experiments and apply experimental results to improve processes.
- (d) An ability to apply creativity in the design of systems, components or processes appropriate to program objectives.
- (e) An ability to function effectively on teams.
- (f) An ability to identify, analyze and solve technical problems.
- (g) An ability to communicate effectively.
- (h) A recognition of the need for, and an ability to engage in lifelong learning.
- (i) An ability to understand professional, ethical and social responsibilities.
- (j) A respect for diversity and a knowledge of contemporary professional, societal and global issues.
- (k) A commitment to quality, timeliness, and continuous improvement.
- (l) An ability to apply the technologies of engineering materials, manufacturing processes, automation, production operations, quality, statics, dynamics, strength of materials, fluid power or fluid mechanics, thermodynamics, and either electrical power or electronics, and statistics to the solution of manufacturing problems.
- (m) An ability to apply with an added technical depth: manufacturing processes, mechanical design, electro-mechanical devices and controls (automation), and production operations.
- (n) An ability to apply physics having an emphasis in applied mechanics, plus added technical topics in physics and inorganic chemistry principles related to manufacturing and mechanical systems and processes.
- (o) An ability to successfully complete a comprehensive design project related to mechanical or manufacturing fields.

The following table indicates how this course contributes to the achievement of the overall programmatic educational outcomes. Entries with an “H”, “M”, and “L”, refer to high, medium, and low relevancy, respectively.

COURSE OBJECTIVE	MMET Program Educational Outcome														
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
Develop and practice the basic skills necessary for successful project management so that the student may perform effectively as a graduate engineer in an industrial or business setting.	H				H	L	H		M	M					