



IET 627
Advanced Applied Industrial Management
Course Syllabus
Spring 2013

Department of Applied Engineering and Technology
College of Science and Technology
Morehead State University

Course Description

(3-0-3): Advanced Applied Industrial Management, IET 627, 3-0-3 hours; on demand. This course outlines effective management techniques and processes for modern engineering and technological organizations. Emphasis is placed on dynamics of organizational behavior, functions and challenges facing technological/engineering management, dynamics of group/teamwork, leadership attributes strategic planning, information technology, web-based entrepreneurship, and globalization opportunities.

Case studies, discussions, individual assignments, and group projects are integrated in a cohesive approach to solving management problems in line with contemporary technological advances.

Instructor

Dr. Hans Chapman
209 Lloyd Cassity Building
Morehead State University
Tel: (606)-783-9339
E-mail: h.chapman@moreheadstate.edu
URL: <http://people.morehead-st.edu/fs/h.chapman/>

Class Time: Online

Office Hours:

Monday & Wednesday: 1.00PM – 2.30PM
Tuesday & Thursday: 10.00AM – 12.00Noon

Reading Materials

Robbins S. P. and Judge T. A., (2011). *Organizational Behavior*, (15th Ed.). Prentice Hall.
ISBN: 978-0-13-283487-2

Supplementary Reading Materials

1. Chang C. M., (2005). *Engineering Management* Pearson-Prentice Hall, ISBN: 0-13-144678-9
2. Luthans F., (2008).). *Organizational Behavior* (14th Ed.). McGraw Hill, ISBN:

Course Objectives

Upon successful completion of this course, the student will have gained the following competencies:

1. Analyze the challenges and opportunities that managers have in technological/engineering organizations. (Evaluated in individual projects and online discussion)
2. Appraise the traits of Positive Organizational Behavior, including self-efficacy, optimism, hope, resilience, subjective well-being, emotional intelligence, and psychological capital (psycap). (Evaluated in individual projects, online discussion, Exam 1, and Final Exam)
3. Contrast characteristics of Diversity and ethical behavior in organization. (Evaluated in individual projects, online discussion, Exam 1, and Final Exam)
4. Critique Group Dynamics and Work Teams, formation and their relevance in an organization. (Evaluated in individual projects, online discussion, group work, Exam 2, and Final Exam)
5. Justify the need for Organizational Design and Structure and their impact on effective management. (Evaluated in individual projects, online discussion, Exam 2, and Final Exam)
6. Discuss Information Technology and Globalization and their importance in modern organizations. (Evaluated in individual projects, online discussion, group project, and Final Exam)
7. Appraise effective leadership attributes such as charismatic, transformational, and transactional leadership. (Evaluated in individual projects, online discussion, group project, and Final Exam)
8. Analyze the role of engineers and technologists as effective managers in organizations. (Evaluated in group project, and Final Exam)

Evaluation

<u>Activity</u>	<u>Points</u>	<u>Percentage</u>
Syllabus Quiz	20	2%
Home Page	30	3%
Discussion Board	100	10%
Individual Assignments (5)	250	25%
Group Project	100	10%
Mid-Term Exam	100	10%
Portfolio	50	5%
Research Paper	100	10%
Final Exam	250	25%
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Total	1000	100%

Note: 90-100% = A 80-89% = B 70-79% = C 60-69% = D Below 60% = E

Course Requirements

1. Attendance

In order to earn the points assigned for class participation, students must be present in all sessions of the class (online) and must be actively involved in all activities (on the online DISCUSSION BOARD).

2. Individual Assignments

Students will be assigned five (5) individual projects/assignments. Each individual assignment has to be submitted on the specified due date. **There will be one grading scale deduction from the assignment total grade for any late submission within the first week after the due date. No late submission will be accepted beyond the first week after the due date and a grade of zero will be recorded. The only legitimate reason for missing an assignment is death in the immediate family or medical condition such as surgery.**

3. Discussion Board

Students are required to participate constructively in all discussion board activities in order to earn the points assigned for discussion board activities. At the beginning of each week, the instructor will inform students of the due dates for discussion board. No posts to the discussion board will be accepted after the announced due date.

4. Exams

There will be a mid-semester exam and a FINAL EXAM. There will be no makeup exams. There is no substitute for any exams. Should a student need to miss an exam, the instructor must be consulted beforehand. Otherwise, it is not accepted and the student will not receive any credit for that exam. . MSU's excused absences fall into five categories: 1) University sponsored activities; 2) Student/Family illness/death; 3) Military obligations; 4) Jury duty or subpoena for court appearances, or 5) Major religious holidays. (Competencies 1 – 4, 6 - 8).

5. Group Projects (Case Studies)

There will be two (2) case studies done as group project. Groups will complete the given case study and present their work in class (or online). There is no substitution for these activities. Therefore, it is important that students participate actively in all the class sessions. Should a student need to miss an activity, the instructor must be consulted beforehand. The only legitimate reason is death in the immediate family or medical condition such as surgery.

6. Online Personal Information Blog:

Students are to complete their personal information in the Blogs section of Black board. Instructions for completing personal information will be made available in Blackboard. The due date for this assignment will be announced by the instructor.

7. Electronic Portfolio

Students are to prepare an electronic portfolio including all the assignments, exams, reports, etc. that they have submitted and for which they have received credit. This portfolio will include a table of content, a copy of the syllabus, all the assignments, exams, reports, etc. In addition, each student will write a paragraph or two evaluating the course, its contents, delivery, etc. and will add it to the portfolio. The due for the portfolio is one week prior to the final exam day.

8. Research Paper

Students will be required to submit a detailed research paper prior to the Final Exam. The research paper is an individual activity and will address the impact of the effective engineering/technological management principles on society (locally, nationally, and or globally). The paper is expected to be in the form of technical, publishable manuscript with relevant citations.

ACADEMIC HONESTY

Cheating, fabrication, plagiarism or helping others to commit these acts will not be tolerated. Academic dishonesty will result in severe disciplinary action including, but not limited to, failure of the student assessment item or course, and/or dismissal from MSU. If you are not sure what constitutes academic dishonesty, read The Eagle: Student Handbook or ask your instructor. The policy is located at <http://www.morehead-st.edu./units/studentlife/handbook/academicdishonesty.html>.

For example: Copying information from the Internet is plagiarism if appropriate credit is not given.

POLICY for ACCOMMODATING STUDENTS with DISABILITIES

Professional staff from MSU Academic Services Center (ASC) coordinates efforts to address accessibility needs and class accommodations with instructors of students who have learning

or physical disabilities. Faculty will cooperate with the ASC staff to accommodate the needs of students taking departmental courses.

CAMPUS SAFETY STATEMENT

Emergency response information will be discussed in class. Students should familiarize themselves with the nearest exit routes in the event evacuation becomes necessary. You should notify your instructor at the beginning of the semester if you have special needs or will require assistance during an emergency evacuation. Students should familiarize themselves with emergency response protocols at www.moreheadstate.edu/emergency.

WEEK 1 & 2			WEEK 3 & 4		
Date	Lecture	Reading	Date	Lecture	Reading
01/14	Course Introduction Syllabus Quiz and Personal Blog Page assigned		01/28	Intro. To Organizational Behavior Personal Blog Page due IA 1 and DB 1 assigned	Ch. 1
01/21	Management for Engineers and Technologists Syllabus Quiz due (MLK Day: Mon. January 21, 2013)		02/04	Positive Organizational Behavior IA 1 and DB 1 due IA 2 and DB 2 assigned	
WEEK 5 & 6			WEEK 7 & 8		
02/11	Diversity in Organizations IA 2 and DB 2 due DB 3 assigned	Ch. 2	02/25	EXAM (Wed. February 27, 2013) DB 4 due Understanding Work Team IA 3 Assigned	Ch. 10
02/18	Foundations of Group Behavior DB 3 due DB 4 assigned	Ch. 9	03/04	Organizational Design and Structure IA 3 due; DB 5 assigned	Ch. 15
WEEK 9 & 10			WEEK 11 & 12		
03/11	Group Project Assignment DB 5 due; DB 6 assigned		03/25	Leadership and Global Implications IA 4 and DB 7 assigned Group Project update	Ch. 12
03/18	SPRING BREAK DB 6 due		04/01	Leadership and Global Implications IA 4 and DB 7 due Research Paper assigned	Ch. 12
WEEK 13 & 14			WEEK 15 & 16		
04/08	Engineers and Technologists as Managers Research Paper due IA 5 and DB 8 assigned		04/22	Final Project Presentations Electronic Portfolio Assigned	
04/15	Challenges for Engineering/Technological Managers IA 5 and DB 8 due Group Project update		04/29	Course Overview (Review for Final Exam) Electronic Portfolio Due	

IA = Individual Assignment DB = Discussion Board GP = Group Project

Final Exam: Monday, May 6, 2013

NOTE: This syllabus is subject to change at the discretion of the instructor to accommodate student and/or instructional needs.