Fall 2018
EIND 300 – Engineering Management and Ethics

Instructor: William Schell, PhD, PE, CPEM

Dedicated Office Hours: Roberts Hall 403, TR 11:00 – 12:30, or by appointment / open door

Open Door Policy: Knock first and enter, closed 30 minutes before classes.

Email: wschell@montana.edu | Office: 406.994.5938 | Cell / Text: 406.224.0857

Getting in contact with me should be easy, I am usually in my office from early morning until 3, just knock. Although I am often not available between 3 – 8 evenings, I generally see and respond to emails, texts or voicemails (left on my cell phone) after 8:00 Mon – Thur. This semester I have a few travel commitments due to ongoing research projects, so I will be away occasionally, if you cannot find me, email or call.

General Course Information

Website: http://www.montana.edu/wschell/teaching/eind300/

Meeting Time: TR 13:40 – 14:55 (2 credit lecture, 1 recitation – student led discussions)

Meeting Location: Wilson 1-119

Description: Introduction to management and organizational theory with applications to the engineering profession. Design of contemporary organizational systems and influence on effective organizational behavior. Social responsibility and ethical decision making for managers and engineers. Cases used to illustrate contemporary problems and environments.

Required Texts:


Additional readings from other sources will regularly be assigned through Brightspace.

Etiquette and Attendance: All members of the class are expected to conduct themselves professionally at all times. Key components of professional behavior include arriving on time, engaging in course discussions, and not adding distractions to class. Class attendance is not mandatory (except presentation days), however attendance and participation play a role in your overall course grade. Class members are expected to be engaged when attending and are expected to know all course materials regardless of attendance. MSU Student Conduct Guidelines can be found at http://www.montana.edu/policy/student_conduct/

Learning Objectives: Upon completion of this course, students will be able to:

- Summarize the role of managers in organizations.
- Interpret and apply management theory to the engineering context.
- Illustrate the implications of organizational structures within an engineering function.
- Apply social responsibility and ethical frameworks to engineering decision making.
- Summarize the fundamentals of leadership within the role of the engineering manager.
- Explain the importance of career management and design a plan for lifelong learning.
- Determine the impact of managers in a global, economic, environmental, and societal context.
- Effectively apply the course concepts in oral and written communications.
Related ABET Educational Outcomes: The course is expected to have a significant positive impact on the following:

(d) function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

(e) recognize professional & ethical responsibilities in engineering situations & make informed judgments

(f) factor global, economic, environmental, cultural and social considerations into engineering decisions

(g) communicate effectively with a range of audiences

(h) acquire and apply new knowledge as needed, using appropriate learning strategies

(j) identify and evaluate systems used to effectively organize and deploy resources in production, service and other technological environments

Grading and Evaluation

Grading Scale: Grades will be earned based on performance against the following cut offs:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>92</td>
</tr>
<tr>
<td>A-</td>
<td>90</td>
</tr>
<tr>
<td>B+</td>
<td>88</td>
</tr>
<tr>
<td>B</td>
<td>82</td>
</tr>
<tr>
<td>B-</td>
<td>80</td>
</tr>
<tr>
<td>C+</td>
<td>78</td>
</tr>
<tr>
<td>C</td>
<td>72</td>
</tr>
<tr>
<td>C-</td>
<td>70</td>
</tr>
<tr>
<td>D+</td>
<td>68</td>
</tr>
<tr>
<td>D</td>
<td>65</td>
</tr>
<tr>
<td>F</td>
<td>Below 65</td>
</tr>
</tbody>
</table>

Graded Assignments: The final course grade will be earned through performance:

  - Recitation Participation and Homework (10%)
  - Written ‘Mini Papers’ (30%) – three papers, 10% each
  - Team Based Written Topic Summary and Presentation (30%)
  - Exams (30%) - two 75 minute exams, 15% each

1- The grading scale presented above represents the guaranteed grade a student will earn if these performance levels are met. Final grades may be curved, or additional opportunities to earn course points presented, if determined necessary by the instructor.

2- Except where group work is explicitly assigned, course work should represent individual work only. Working closely with another student or improperly taking content from external resources is not allowed. Any evidence of duplicated work or submissions that lead the instructor to believe that work is not the result of individual effort will result in the filing of an Academic Misconduct Report with the Dean of Students. MSU Student Conduct Guidelines, including specific policies on academic integrity can be found at www.montana.edu/policy/student_conduct/

Recitation Participation and Homework: An important component of this course is developing student’s ability to communicate effectively in discussions and debates in a variety of formats (online, classroom, and small group). The grade earned in recitation discussions and homework will generally be marked as Exceeds Expectations (+), Meets Expectations (✓), or Below Expectations (-) (in Brightspace 3, 2, and 1 respectively). Students will receive scores on any electronic discussions and several live discussions throughout the semester. Students who consistently exceed expectations will earn a course grade above the scores earned on their individual assignments, while students who consistently earn below expectations marks will earn a course grade below the scores earned on individual assignments.

Late Assignments: Assignments are due at the beginning of the class period. Late assignments will be accepted up until the next class period begins, but will be penalized 20%. Exams must be taken during (or before) the scheduled time. Make up exams are allowed only for unanticipated and approved absences.

Grade Corrections: Adjustments will be made to the score of an assignment only when a grading error has been made. If the student believes an error was made in grading, the written request for correction must be made within 24 hours of when the assignment was returned and include the original graded material.

Course Communications

The course listserv will be utilized for any reminders, and / or to draw student’s attention to any new materials (e.g. corrections) published to Brightspace. Brightspace will be utilized for electronic discussions and to post any reading materials or other assignments. As noted above, the instructor is available outside of office hours.