Course Syllabus
College of Sciences and Arts
ESL0413 Advanced English for Engineering

Instructor Information
Instructor: Michael Barton
Office Location: Walker 315
E-mail: mabarton@mtu.edu
Office Hours: MW 3:00 pm – 5:00 pm

Course Identification
Course Number: ESL0413
Course Name: Advanced English for Engineering
Course Location: Walker 138
Class Times: MW 7:05 pm - 8:35 pm

Course Description/Overview

Advanced English for Engineering: This course is designed for students of English as a second language, not for native speakers of English. Emphasis is on acquiring vocabulary necessary for academic study of courses required in engineering majors.

Course Learning Objectives

Course Goal
For students to develop written and oral English proficiency in academic settings, to communicate effectively using communication tools specific to the field of engineering, and to prepare for American university-level engineering coursework.
Course Objectives/Student Learning Outcomes

Course Objective 1 – Students will follow the steps of the Engineering Design Process to find and present solution(s) to a problem.

SLO1) Students will be able to clearly and concisely redefine a problem or challenge in writing.

SLO2) Students will be able to identify the criteria and constraints of a written problem.

SLO3) Students will be able to produce a clear and cohesive decision matrix based on the criteria and constraints of a problem, which can be used to make design decisions.

SLO4) Students will be able to formulate questions that lead to productive classroom discussions relating to design and strategy choices.

SLO5) Students will be able to facilitate a productive classroom discussions which promotes an equal representation of all students involved in the discussion.

SLO6) Students will be able to give fluent, clear, relevant, and cohesive presentations which summarize their design process and their solution(s) to a problem.

SLO7) Students will be able to craft a PowerPoint that explicitly connects visual aides to their presentation.

SLO8) Students will be able to evaluate the clarity of other students' presentations as well as the quality of their design processes and solutions.

Course Objective 2 – Students will clearly document and explain the objects which they produce.

SLO1) Students will be able to communicate a simple engineering design through the use of drawings with detailed instructions.

SLO2) Students will be able to write clear, comprehensive notation to explain the function of their code to other programmers.

Course Objective 3 – Students will model ideas and processes using specific tools of communication from the field of engineering.

SLO1) Students will be able to communicate processes by translating actions and decisions into flow diagrams using appropriate, concise language.
Course Resources

Course Website
- Canvas<http://www.courses.mtu.edu>

Supporting and Optional Course Resources
- Java Documentation<http://docs.oracle.com/javase/6/docs/api/>
- Java Notes<http://math.hws.edu/javanotes/>
- Think Java<http://www.greenteapress.com/thinkapjava/>
- Introduction to Java<http://introcs.cs.princeton.edu/java/home/>

Grading Scheme

Grading Policy
Grades will be based on the following:

<table>
<thead>
<tr>
<th>Design Process Performance / Products</th>
<th>65%</th>
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<tbody>
<tr>
<td>• Midterm Presentation---------------15%</td>
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<tr>
<td>• Midterm Portfolio------------------10%</td>
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<tr>
<td>• Final Presentation-----------------25%</td>
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<tr>
<td>• Final Portfolio---------------------15%</td>
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<tr>
<td>Other In-class Performance / Products</td>
<td>35%</td>
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<tr>
<td>• Discussions-------------------------10%</td>
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<tr>
<td>• Assessments &amp; In-class Products-----25%</td>
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<tr>
<td>Total Percentage</td>
<td>100%</td>
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Grading System
All ESL courses are pass-fail courses. Credits will be given but the grade in this class will not be used in the computation of University grade point average (GPA). See description below:

- S (satisfactory)—credit given, no grade points, and not included in student's GPA; given for courses taken under the Pass-Fail option. A grade of S is given for work equal to letter grades of A to C.
- E (effort unsatisfactory)—no credit, no grade points; given for courses taken under the Pass-Fail option. A grade of E is given for work equal to letter grades CD to F.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
<th>Rating</th>
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<tbody>
<tr>
<td>S</td>
<td>80% &amp; above</td>
<td>Pass</td>
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<tr>
<td>E</td>
<td>79% &amp; below</td>
<td>Fail</td>
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Promotion Criteria into Transitional
- Pass: Passed the course (80% or higher)
- Fail: Failed the course (80% or lower)
Course Policies

Attendance: Come to all class sessions.
- Attendance is required in every class. Students need to be in class and be engaged in order to benefit from instruction. If you need to miss a class, email the instructor as soon as possible before class. If it is an excused absence, a proof of the reason in writing (i.e. a doctor’s note) is required.

- A student with one unexcused absence will receive a warning from the instructor. A student with two unexcused absences will receive another warning and be required to meet with the Assistant Director. A student with three unexcused absences will be required to meet with the Program Director.

- If you have more than three unexcused absences, you will be reported to the International Programs and Services (IPS) office. The United States immigration rules require students to attend classes. Not attending classes regularly may result in the loss of your Michigan Tech student status.

- Make up assignments, tests, quizzes, and presentations will not be given unless arranged in advance. If you are absent, you are responsible for finding out what homework or classwork you missed.

Lateness: Come to class on time.
- If you arrive to class late you should quietly enter and take your seat without interrupting the class. Students who are repeatedly late will be required to meet with the Assistant Director. If you arrive 10 minutes late or more, it will be counted as an unexcused absence.

Disruption: Participate in class and respect others.
- All students should participate actively in class and respect others. You should only use electronic devices (cell phones, tablets, laptops) when the instructor tells you to do so for a classroom activity. If you continue to be disruptive you will be required to meet with the Program Director.

Assignments: Hand in homework on time.
- Major assignments: 10% will be deducted from assignments turned in late on the due date. If turned in 1 day after the due date, 20% will be deducted. Later submissions will not be accepted.
- Minor assignments: Minor assignments will not be accepted late and will automatically receive a 0% if not turned in on the due date.
University Policies

Academic Integrity:
http://www.mtu.edu/dean/conduct/policy/academic-integrity

Use your own words. A plagiarized assignment will receive a 0. Plagiarism could result in expulsion or suspension from MTU. If you have questions about plagiarism, ask the instructor for help. Academic regulations and procedures are governed by University policy. Academic misconduct cases will be handled in accordance the University's policies.

Assessment:
http://www.admin.mtu.edu/usenate/policies/p312-1.htm

Student work products (exams, essays, projects, etc.) may be used for the purposes of university, program, or course assessment. All work used for assessment purposes will not include any individual student identification.

Disability Services:
http://www.mtu.edu/dean/disability/policies

If you require accommodation under the Americans with Disabilities Act, please contact your instructor or Disability Services at 487-1494 as soon as possible so that appropriate arrangements can be made.

The Office of Institutional Equity:
http://www.mtu.edu/equity

The Office of Institutional Equity has asked that you be made aware of the following:

Michigan Technological University complies with all federal and state laws and regulations regarding discrimination, including the Americans with Disabilities Act of 1990.

Michigan Tech has a policy of affording equal opportunity to all of its employees, students, applicants for employment, and applicants for admission without regard to race, religion, color, national origin, age, sex, sexual orientation, gender identity, height, weight, genetic information, or marital status, disabled veteran status, veteran status, or disability.

Equal Opportunity, Discrimination, or Harassment Statement:
http://www.admin.mtu.edu/admin/boc/policy/ch5/

For other concerns about discrimination, you may contact your advisor, Chair/Dean of your academic unit, Dean of Students Office at 487-2212 or The Office of Institutional Equity at 487-3310.
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<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Activities/Assignments</th>
<th>Comments</th>
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<td>1</td>
<td>1/12-1/18</td>
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<td>2</td>
<td>1/19-1/25</td>
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<td>1/20 No class</td>
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<td>3</td>
<td>1/26-2/1</td>
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<td>4</td>
<td>2/2-2/8</td>
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<td>2/6-2/7 Winter Carnival</td>
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<td>5</td>
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<td>2/16-2/22</td>
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<td>8</td>
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<td>3/16-3/22</td>
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<td>15</td>
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<td>Student Conferences</td>
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