Class Time and Location: Mon Wed Fri 1:10-2:00, Kildee 125.

Instructor: Dr. Cameron MacKenzie
Office: 3029 Black Engineering
Office Hours: Mon, Wed 2:15-3:00 and Thur 10:30-11:30, or by appointment
Email: camacken@iastate.edu Phone: 515-294-6283

TAs: Fikri Kucuksayacigil fksayaci@iastate.edu Tuesday 5:00-7:00
Midhun Vasan midhun@iastate.edu Wednesday 10:00-noon

TA office hours are by appointment or as listed above and will be in 0022 Black Engineering.

Text. Contemporary Engineering Economics 6th Edition by Chan S. Park. (The 5th edition is also acceptable.)

Course content. The overall goal of this course is for you to be able to apply economic principles to make better decisions. The course will cover much of the material in Chapters 1-12 of the text. In addition, there will be a 2-week module entitled “Economic decision making under uncertainty” that will draw from material external to the text, and will be presented by a guest lecturer.

Learning outcomes and course objectives.
- The student will understand the roles of engineers in a business environment
- The student will be able to apply principles of time value of money in business, engineering, and personal economic decisions
- The student will be able to compare projects/options using equivalence calculations and comparisons, rate of return analysis
- The student will be able to develop after-tax cash flows for a project
- The student will be able to demonstrate a basic understanding of project valuation methodologies for large-scale, and/or longer-term engineering projects

Grading.
- Exam 1 20%
- Exam 2 20%
- Final exam 20%
- Homework 20%
- Group project 20%
Grading scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent range</th>
<th>Grade</th>
<th>Percent range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>92.5 – 100</td>
<td>C</td>
<td>72.5 – 76.49</td>
</tr>
<tr>
<td>A-</td>
<td>89.5 – 92.49</td>
<td>C-</td>
<td>69.5 – 72.49</td>
</tr>
<tr>
<td>B+</td>
<td>86.5 – 89.49</td>
<td>D+</td>
<td>66.5 – 69.49</td>
</tr>
<tr>
<td>B</td>
<td>82.5 – 86.49</td>
<td>D</td>
<td>62.5 – 66.49</td>
</tr>
<tr>
<td>B-</td>
<td>79.5 – 82.49</td>
<td>D-</td>
<td>59.5 – 62.49</td>
</tr>
<tr>
<td>C+</td>
<td>76.5 – 79.49</td>
<td>F</td>
<td>59.49 or below</td>
</tr>
</tbody>
</table>

Exams:
- Wednesday, February 17, 8:15-10:15 pm, 2055 Hoover
- Wednesday, March 30, 8:15-10:15 pm, 2055 Hoover
- Final exam to be announced.

There will be no class on those days with an exam. In addition to the in-class portion of the exams, there may be a take-home portion to the exams. If there is a take-home portion, the exam will be due at the beginning of the next class period.

Homework: Learning this material requires regular practice and commitment. To that end, homeworks will be assigned on a regular basis. Homeworks will consist of one to three problems and will be assigned approximately twice per week. Each homework will have a due date (either the next class period or in two class periods). Homeworks must be submitted on Blackboard by 1:10 pm on the due date. A student’s lowest homework grade for four homeworks will be dropped. If you have a question about your grade on a homework, please talk with one of the TAs.

Group project: Groups of 2-4 students will be formed towards the end of the semester for a group project likely involving the comparison of two investment alternatives. More details will be forthcoming about the group project later in the semester.

Use of Blackboard: I will be using Blackboard to make announcements about the class and post homework and reading assignments. Homeworks will be submitted via Blackboard.

If you have a question that is appropriate for the entire class (e.g., questions about homework or lectures), please post that question on Blackboard in the discussion section, and either the TA or I will answer it there. If you have a question that is private, please email the TA or me. You can always ask us any type of question in person or via phone.

The “Units” topic on Blackboard contains slides and videos of lectures from the Fall 2015 course. They are given to you as an additional resource. I will generally follow the slides and lectures, but I also will deviate and will not cover everything in the slides.

Our commitment to you: I will come to class prepared and work to give stimulating lectures while teaching the material that I think is important for you to learn. We will do our best to answer your questions about the material and respond quickly. We will provide feedback on your homeworks, projects, and exams.
Academic Dishonesty: The class will follow Iowa State University’s policy on academic dishonesty. Anyone suspected of academic dishonesty will be reported to the Dean of Students Office. [http://www.dso.iastate.edu/ja/academic/misconduct.html](http://www.dso.iastate.edu/ja/academic/misconduct.html)

Disability Accommodation: Iowa State University complies with the Americans with Disabilities Act and Sect 504 of the Rehabilitation Act. If you have a disability and anticipate needing accommodations in this course, please contact me to set up a meeting within the first two weeks of the semester or as soon as you become aware of your need. Before meeting with me, you will need to obtain a SAAR form with recommendations for accommodations from the Disability Resources Office, located in Room 1076 on the main floor of the Student Services Building. Their telephone number is 515-294-7220 or email disabilityresources@iastate.edu. Retroactive requests for accommodations will not be honored.

Dead Week: This class follows the Iowa State University Dead Week policy as noted in section 10.6.4 of the Faculty Handbook [http://www.provost.iastate.edu/resources/faculty-handbook](http://www.provost.iastate.edu/resources/faculty-handbook).

Harassment and Discrimination: Iowa State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment. Any student who has concerns about such behavior should contact me, Student Assistance at 515-294-1020 or email dso-sas@iastate.edu, or the Office of Equal Opportunity and Compliance at 515-294-7612.

Religious Accommodation: If an academic or work requirement conflicts with your religious practices and/or observances, you may request reasonable accommodations. Your request must be in writing, and I will review the request. You may also seek assistance from the Dean of Students Office or the Office of Equal Opportunity and Compliance.

Contact Information: If you are experiencing, or have experienced, a problem with any of the above issues, email academicissues@iastate.edu.