C O U R S E S Y L L A B U S

Instructor
Dr. Yuanyuan (Yvonne) Zhang
Trent Lott Center Room 223
Office Phone: (601) 266-5514
Email: yuanyuan.zhang@usm.edu

Office Hours
MW 1:00 - 3:00 pm;

Class Meets (On-Campus Section)
MW 9:45 – 11:15 am in TEC 116

Drop Date
- Thursday, September 6, 2018, is the last day to drop full-semester classes w/o instructor
  permission & academic or financial penalty with a grade of W & receive 100% tuition credit
- The last day a student may withdraw and receive a grade of “W” is Thursday, November 1,
  2018. After this date you will receive a letter grade.
- See Academic Calendar: https://www.usm.edu/registrar/fall-2018-full-term-academic-
  calendar-0 for other important dates for the semester

Prerequisites
MAT 101

Credit Hours
3 credit hours.

Course Description
The course discusses methods used for determining the comparative financial desirability of
engineering alternatives. Students learn how to choose between options and where the outcomes are
measured in monetary units, in the process help them make an informed decision from the
identified unit of analysis. Topics include principles of economic equivalence; time value of money;
analysis of single and multiple investments; comparison of alternatives; capital recovery and tax
implications; certainty; uncertainty; risk analysis; and break-even concepts.

Course Overview
The major outcomes for the course are: 1. To provide the student with the necessary tools
required to evaluate engineering projects 2. Analyze alternatives regarding their investment
requirements, cash flows, and return on investments 3. The student will be introduced to the
concept of the time value of money and the methodology of basic engineering economy
techniques 4. To demonstrate proficiency in applying depreciation, inflation, break even
concepts, tax calculations in economic analysis 5. To provide the student with the background to
enable them to pass the Engineering Economy portion of the Fundamentals of Engineering exam
Learning Outcome(s)
Upon completion of this course, the students shall be able to:
1. Understand construction risk management (ACCE SLO #13)
2. Select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies
3. Identify, analyze, and solve broadly-defined engineering technology problems (ACCE SLO #8)

Course Communication
The primary mode of communication will be via in-class announcements, Canvas messages, announcements or e-mail. **Note: You should check Canvas daily to ensure you do not miss important information related to the course.** The instructor will check email daily and you should receive a response within 48 hours (M-F) of successfully sending the e-mail. In the event that you experience technical problems or the instructor is unable to respond due to extenuating circumstances, you are encouraged to contact the School of Construction + Design main office staff for assistance.

The course homepage will contain an area which is titled “ANNOUNCEMENTS”. You should check this daily. It is here that the instructor will inform the students in the class of any changes, information, or instructions which impact the course content or students enrolled.

Required Text (s) and Readings
Additional reading materials will be posted on Canvas as needed.

Technology Requirements
A broadband internet connection is required to view videos and to consume delivery of the course in general. Please do not attempt with dial-up or low internet connection bandwidths. Access to some course material with mobile devices is possible with the Canvas App, but a personal computer is required to complete the course.

Software: • Internet Browser: It is critical that you can navigate and operate at least two browser applications and understand how to integrate Java versions with them. (refer to Canvas requirements) • Proficiency in Microsoft Office Suite (Word, Excel, PowerPoint): versions capable of saving files in appropriate formats (.doc, .docx, .xls, .xlsx, .ppt, etc.) or converting into .pdf format.

Hardware • The Construction Engineering Technology program and The School of Construction has set a minimum requirement for personal computer specifications. However, you are responsible for having access to a computer that can accommodate the course delivery and requirements. Please do not attempt to navigate the course solely with a tablet or smartphone (although apps for these and push notifications are encouraged). *Special Note Concerning Technical Support: Students are expected to be able to use and maintain a personal computer, keeping it free of viruses and malware, and have the ability to troubleshoot web browser issues, such as cookies and java versions. Please do not rely or depend upon the instructor for technical support. For Canvas technical support can be found at this link: [https://www.usm.edu/canvas](https://www.usm.edu/canvas)
Class Procedures and Requirements

See Class Schedule at the end of this document for detailed information regarding course requirements.

Course Modules are in Canvas and include the following:
- **Lecture Materials** - Power Points, handouts, and other reference materials used during class lecture are found here
- **In Class Lecture Video** - the on-campus class lectures are captured and uploaded here
- **Assessments** - all assignments

All student submitted work must follow the following file naming format:
Example: Zhang_Y_123456_AEC 390_A#1

Class Participation Policy

Students are expected to review all content related to the course and access the online course in Canvas at least several times a week (both on-campus & online section students). On-campus students are expected to attend class and attendance will be verified at the beginning of class. The on-campus lecture is recorded so the door to the classroom will be closed at 9:50 am (5 minutes after the official start of class) and students will not be allowed to enter after that time. This will prevent the class being disrupted by a student entering late. Please plan to be early or at least be on time.

The course content in Canvas reinforces and supplements the content in your textbook and will assist you in learning the course materials. Attendance in class (face-to-face or in Canvas for online students) is important is aiding students in being successful in the course.

Evaluation Criteria

- 90 – 100% =A
- 80 – 89.99% =B
- 70 – 79.99% =C
- 55 – 69.99% =D
- 0–54.99% =F

Students are expected to work on all assigned problems. However, students are encouraged to work together on homework problem sets.

The grade for the course will be determined as follows (however the instructor has discretion to change these criteria/percentages at any time).

- Attendance and Q&A in class 25%
- Homework 25%
- Individual or group presentation 25%
- Comprehensive Final Exam 25%
Late Assignments or Projects
All assignments are due at the time and date stated on the schedule included in the syllabus. When an assignment or exam is missed, the student is responsible for providing an explanation to faculty. No late work will be considered for submission for credit unless the instructor receives documentation from the university’s Office of Student Ombudsman Services. If you have extenuating circumstances that prevent you from meeting an assessment (assignment, quiz, exam…) deadline you need to contact this office to have absences authenticated. https://www.usm.edu/student-affairs_office-student-ombudsman-services

The form requesting the authentication of documentation must be submitted within 14 days of the missed assessment deadline in order to be considered. “By submitting this form, the student is petitioning to have this office authenticate the documentation provided. The student and their instructor(s) will receive a notice from our office advising whether or not the documentation submitted is authentic. This notice does not "excuse" the absence, nor does it guarantee that the student will be permitted to make up tests or other missed assignments. The absence notice simply documents that the student's illness or other circumstances indicate that the student is/was unable to participate in class for the designated period of time. At their discretion, the instructor will make the final decision regarding the Notice of Absence.”

Proctored Exams
The instructor will proctor the exam on the specific day and time the on-campus students are scheduled to take the exam. If you cannot attend then, you MUST complete an application to proctor and secure someone else to proctor your exam. https://online-learning.usm.edu/proctoring/

Academic Honesty
All students at the University of Southern Mississippi are expected to demonstrate the highest levels of academic integrity in all that they do. Forms of academic dishonesty include (but are not limited to):

- Cheating (including copying from others’ work)
- Plagiarism (representing another person’s words or ideas as your own; failure to properly cite the source of your information, argument, or concepts)
- Falsification of documents
- Disclosure of test or other assignment content to another student
- Submission of the same paper or other assignment to more than one class without the explicit approval of all faculty members involved
- Unauthorized academic collaboration with others
- Conspiracy to engage in academic misconduct

Engaging in any of these behaviors or supporting others who do so will result in academic penalties and/or other sanctions. If a faculty member determines that a student has violated our Academic Integrity Policy, sanctions ranging from resubmission of work to course failure may occur, including the possibility of receiving a grade of “XF” for the course, which will be on the student’s transcript with the notation “Failure due to academic misconduct.” For more details, please see the University’s Academic Integrity Policy: https://www.usm.edu/institutional-policies/policy-acaf-pro-012 Note that repeated acts of academic misconduct will lead to expulsion from the University.

Academic Support Resources
Please see our Student Success Website: http://www.usm.edu/success for information on where you can find tutoring and other academic assistance, as well as the location of key resources on campus.

If a student believes that they have a disability which is covered by the Americans with Disabilities Act (ADA) and makes them eligible to receive classroom or housing accommodations, they should contact the Office for Disability Accommodations (ODA) for information regarding the registration process. Disabilities covered by the ADA may include but are not limited to ADHD, learning disabilities, psychiatric disabilities, physical disabilities, chronic health disorders, temporary illnesses or injuries and pregnancies. Students should contact ODA if they are not certain whether their documented medical condition qualifies for ODA services. Students are only required to disclose their disability to the Office for Disability Accommodations. All information submitted to ODA by the student is held with strict confidentiality.

Contact information:
The University of Southern Mississippi
Office for Disability Accommodations
118 College Drive # 8586
Hattiesburg, MS 39406-0001
Voice Telephone: 601.266.5024 or 228.214.3302 Fax: 601.266.6035
Individuals with hearing impairments should contact ODA using the Mississippi Relay Service at 1.800.582.2233 (TTY) or email ODA at oda@usm.edu.

Mental Well-Being Statement
USM recognizes that students sometimes experience challenges that make learning difficult. If you find that life stressors such as anxiety, depression, relationship problems, difficulty concentrating, alcohol/drug problems, or other stressful experiences are interfering with your academic or personal success, consider contacting Student Counseling Services on campus at 601-266-4829. More information is also available at https://www.usm.edu/student-counseling-services. All students are eligible for free, confidential individual or group counseling services. In the event of emergency, please call 911 or contact the counselor on call at 601-606-HELP (4357).

Nondiscrimination Statement:
The University of Southern Mississippi offers to all persons equal access to educational, programmatic and employment opportunities without regard to age, sex, sexual orientation, disability, pregnancy, gender identity, genetic information, religion, race, color, national origin, and/or veteran status pursuant to applicable state and federal law.

Confidentiality and Mandatory Reporting
As an instructor, one of my responsibilities is to help create and maintain a safe learning environment on our campus. I also have a mandatory reporting responsibility related to my role as a faculty member. I am required to share information regarding sexual misconduct or information about a crime that may have occurred on USM’s campus with certain University officials responsible for the investigation and remediation of sexual misconduct. The information will remain private and will only be shared with those officials necessary to resolve the matter. If you would like to speak in confidence, resources available to students include Confidential Advisors.
with the Shafer Center for Crisis Intervention, the Counseling Center, Student Health Services, and Clergy. More information on these resources and University Policies is available at https://www.usm.edu/sexual-misconduct.

**Class Schedule***

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<th>Lectures</th>
<th>Due</th>
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<tr>
<td>29-Aug</td>
<td>Ch 1</td>
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<td>3-Sep</td>
<td>Labor Day Holiday</td>
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<td>5-Sep</td>
<td>Ch 2</td>
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<td>10-Sep</td>
<td>Ch 2</td>
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<tr>
<td>12-Sep</td>
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<tr>
<td>17-Sep</td>
<td>Ch 3</td>
<td>1st Homework Assignment</td>
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<td>19-Sep</td>
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<td>24-Sep</td>
<td>Ch 4</td>
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<tr>
<td>26-Sep</td>
<td>Ch 4</td>
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<tr>
<td>1-Oct</td>
<td>Ch 4</td>
<td>1st Homework Due</td>
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<tr>
<td>3-Oct</td>
<td>Ch 5</td>
<td>2nd Homework Assignment</td>
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<td>8-Oct</td>
<td>Ch 5</td>
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<td>15-Oct</td>
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<td>17-Oct</td>
<td>Ch 7</td>
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<td>22-Oct</td>
<td>Ch 7</td>
<td>3rd Homework Assignment</td>
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<td>24-Oct</td>
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<td>29-Oct</td>
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<td>31-Oct</td>
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<td>5-Nov</td>
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<td>7-Nov</td>
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<td>14-Nov</td>
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<td>21-Nov</td>
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<td>Ch 13</td>
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<td>3-Dec</td>
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<td>10-Dec</td>
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<tr>
<td>12-Dec</td>
<td>Grades Available to Students</td>
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*Schedule is tentative and will be revised as necessary. Students will be notified if this is the case.*