



Course:	CE 316 Construction Equipment and Methods	
Text:	Construction Methods and Management	
	by Nunnally (8 th edition)	
Professor:	Jason C. Wilson, P.E., Instructor	
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Course Description

Study of construction operations as a dynamic process. Primary topics include earthmoving, optimizing equipment for best production, foundation construction, concrete, masonry and steel construction methods, concrete formwork design, construction safety, and construction productivity. Field trips will be incorporated.

Course Outcomes

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Upon completion of this course, the student should be able to:

- 1. Perform analysis of soil properties for earth moving operations
- 2. Perform optimization analysis of earthmoving operations and equipment
- 3. Recognize basic terminology and apply knowledge of foundation construction
- 4. Recognize Basic terminology and methodologies of concrete construction
- 5. Design concrete formwork
- 6. Recognize basic terminology and apply knowledge of masonry construction
- 7. Recognize basic terminology and apply knowledge of steel construction

Grading			
Semester Exams	70%	90 - 100%	Α
Final Exam	20%	80 - 89.99	В
Problem Sets	10%	70 - 79.99	С
		60 - 69.99	D
		BELOW 60	F

You may exempt the final with a 90.00% average or better on your semester exams and homework.

For final grade calculation, if you have an 88.50% average (including the final) and score an A on the final, you will receive an A for the class. All other grades are calculated similarly, i.e. a 78.5% average including the final and a B on the final, you will get a B for the course, etc. The exception is for a failing grade. 59.99 or below is an F.

CE 316 Construction Equipment and Methods – Course Policies and Procedures

Problem Sets

These are longer and more complex problems than in the text. They will be handed out and a due date given. Homework is due at the start of the class period on the due date. No late homework will be accepted with no exceptions.

Exams

Only FE approved calculators are allowed on the exams. No exceptions

https://ncees.org/exams/calculator-policy/

The exams will be primarily mathematical problem solving. Some short answer questions may be used depending on the material covered in class. Assume exams to be closed book and notes unless otherwise stated. All information presented during the course and from the textbook is fair game for exams. If you miss an exam without a valid written excuse and notifying me before the exam starts, you will receive a 0 for that exam. You cannot leave the classroom once the exam starts until you have completed the exam.

Classroom Policies

- Attendance If you have 2 unexcused absences your final grade will drop 1 letter grade. Each subsequent unexcused absence will result in a drop of an additional letter grade. Excused absences are only allowed with adequate written documentation. I will not seek you out to obtain this documentation as it is your responsibility to provide me the required information. An email or letter from you stating you will be absent is not sufficient, it must be third party documentation.
- Cell phones and any other communication device must be turned off. Violation of this policy may result in a loss of 2 points from your final grade.
- Ins and outs during class are not allowed. Violation of this policy may result in a loss of 2 points from final grade.
- Use of computers in the classroom for any purpose other than those directly related to the course is not allowed. Violation of this policy may result in a loss of 2 points from final grade.

Students with Disabilities

Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Office for Student Disability Services, Room 445 Potter Hall. The OFSDS telephone number is (270)745-5004 V/TDD. Please do not request accommodations directly from the professor without a letter or accommodation from the Office for Student Disability Services.

Academic Integrity

The policies on academic honesty as spelled out in the WKU catalog are in force during this class, and the instructor reserves the right to use the necessary responses to cheating and dishonest behavior, up to and including failing the course.

ADDITIONAL INFO.

The Learning Center – <u>https://www.wku.edu/tlc/</u> Sexual Misconduct/Assault Policy -<u>http://www.wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf</u> Discrimination and Harassment Policy – <u>https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf</u>

Additional Information

WKU has a very diverse population. Any comments related to race, ethnicity, religion, or any other sensitive issue will absolutely not be tolerated even in the slightest degree.