

**Oklahoma State University Institute of Technology**  
**Face-to-Face Common Syllabus**  
*Summer 2017*

**CET 2212 Transportation**

Students learn and apply design components of modern roadway and other transportation systems.

**Type of course:** Theory/Lab

**Credit Hours:** 2; Total clock hours of theory per semester: 30;

Total clock hours of lab for the semester: 15; Total clock hours of clinical per semester: none.

**Class length -** Full Semester

**Class days and times:** MW 8:30 - 9:25

**Prerequisites:** MATH 1613, SURV 2303

**Instructor Name:** Casey Campbell                      **Instructor Phone:** (918) 293-5263

**Office:** Hospitality Services (AKA Culinary Arts on campus map), Rm. 147

**Instructor email:** [casey.campbell@okstate.edu](mailto:casey.campbell@okstate.edu)

**Contact:** My preferred method of contact is email. Please allow 24-48 hours to return your correspondence during the normal work week.

**Instructor's Office Hours:** Posted on office door.

**Division Name:** Engineering Technologies

**Division's Main Phone:** 918-293-5150

**REQUIRED TEXT, REFERENCES, AND MATERIALS**

**Texts:** Traffic Engineering 4<sup>th</sup> ED, Roess, Prassas, and McShane, Prentice Hall, 9780136135739

**References:** None

**Materials:** Engineering paper, writing utensils

**Uniform/Tools:** Scientific Calculator

**Estimated Cost for Materials:** \$ 50

**Estimated Cost for Uniform/Tools:** \$ 70

**Upon completion of the course, students should:**

<b>Course Objectives</b>	<b>Assessment of Objectives</b>
Compute minimum radii and total stopping sight distance parameters.	Homework / Quizzes /Exams
Compute horizontal curve geometry and appropriate sight distances.	Homework / Quizzes /Exams
Compute vertical curve calculations for sight distance.	Homework / Quizzes /Exams
Compute superelevation calculations along with event stationing	Homework / Quizzes /Exams
Use civil / surveying software to assist in roadway design	Homework / Quizzes /Exams
Use basic excel functions to input design parameters for design evaluations	Homework / Quizzes /Exams

Aspects of the course objective assessments may be used in the university's assessment of student learning. If applicable, an asterisk (\*) above indicates this assignment is used in the university assessment program.

**COURSE ACTIVITIES**

In this course students will:

*(Please list the specific activities in the course)*

- Participate in class discussions and activities
- Take Examinations
- Complete Reading Assignments

**EVALUATION - GRADES WILL BE BASED ON THE QUALITY AND COMPLETION OF THESE TASKS:** *(NOTE-Please indicate the course specific evaluations.)*

<i>Participation</i> .....	10%
<i>Labs</i> .....	20%
<i>Homework</i> .....	20%
<i>Quizzes</i> .....	20%
<i>Midterm Exam</i> .....	15%
<i>Final Exam*</i> .....	15%
<i>Total</i> .....	100%
<b>Total</b>	<u>100%</u>

<b>OSUIT Grading Scale</b>
A = 90% -100%
B = 80% -89%
C = 70% -79%
D = 60% -69%
F = 59% & below

\*The student's grade for this assignment will be used in the university's assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student's course grade.

Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student by next class meeting or no later than one (1) week.

Extensive assignments, large lab projects, extensive quizzes, exams and similar type projects: Normal return time to students in one (1) to two (2) weeks.

### **AUTHORIZED TOOLS**

Students may use any/all course materials, including books and notes, while participating in classroom activities. All quizzes and written assignments are to be completed independently; no collaboration with classmates is permitted and any instance of such will be considered academic dishonesty.

### **LATE WORK**

All homework and labs are due at the beginning of class and late work is not accepted.

### **TESTING**

Late exams will not be accepted.

### **UNIVERSITY & COURSE EXPECTATIONS**

It is the responsibility of each OSUIT student to read, abide by and maintain a copy of the syllabus for this course. Syllabi are available on the OSUIT website.

Students understand that excerpts or portions of their work may be utilized for institutional assessment purposes. The purpose of institutional assessment is for verification of student learning and program improvement. Every effort will be made to keep this information confidential.

### **AMERICANS WITH DISABILITIES ACT (ADA)**

According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Academic Accommodations/LASSO Center. Please advise the instructor of your disability as soon as possible, and contact The LASSO Center, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. The LASSO Center is located on the 3rd floor of the Noble Center. You may call [918.293.4855](tel:918.293.4855) for more information or fax documentation to [918.293.4853](tel:918.293.4853).

### **ACADEMIC DISHONESTY**

Academic dishonesty or misconduct is neither condoned nor tolerated at OSUIT. Any student found guilty of academic dishonesty or misconduct shall be subject to disciplinary action. Academic dishonesty and/or misconduct includes, but is not limited to, the following actions: (1) Plagiarism: the representation of previously written, published, or creative work as one's own; (2) Unauthorized collaboration on projects; (3) Cheating on examinations; (4)

Unauthorized advance access to exams; (5) Fraudulent alteration of academic materials; (6) Knowing cooperation with another person in an academically dishonest undertaking. Students are required to actively protect their work against misuse by others. For details, refer to The OSUIT Student Handbook (Student Rights and Responsibilities Governing Student Behavior) available online at [http://www.osuit.edu/academics/forms/student\\_rights\\_responsibility.pdf](http://www.osuit.edu/academics/forms/student_rights_responsibility.pdf).

### **ATTENDANCE POLICY FOR FACE-TO-FACE COURSES**

A primary component of OSUIT's Mission is "to prepare and sustain a diverse student body as competitive members of a world-class workforce." Regular and consistent attendance not only aids in academic success, dependable attendance is a requirement in today's real-world employment; therefore, regular and consistent attendance is a requirement in all OSUIT courses.

**Definitions:** Absent: Failing to attend all or a significant portion of a class or lab session.

A. Students may not be marked as absent if missing class for situations such as, but not limited to

1. participating in a required university activity such as a field trip;
2. fulfilling a military obligation;
3. a mandatory court appearance;
4. death in the immediate family;
5. extreme illness or accident to oneself or immediate family. Instructors, at their discretion, may require proof of such events.

B. It is the responsibility of the student to contact and inform the instructor and/or department in advance of such excused absences whenever possible.

Tardy: Arriving late to class as defined by the individual class instructor. Faculty, at their discretion, may equate three tardies to equal one absence.

### **Procedures:**

#### Early Intervention

A. Any student who misses 10% of an individual course (or earlier at faculty discretion) during a regular fifteen-week semester, or the equivalent portion of time in a shorter session, will have their name submitted by that course instructor to the OSUIT Early Alert System for retention intervention.

B. At the point the Early Alert is issued, the student *must* meet with their assigned faculty advisor or designated faculty/staff member within seven (7) academic calendar days for counseling on how to improve their attendance and academic success.

#### Excessive Absences

A. The University reserves the right to administratively withdraw any student from an individual course who misses 20% of that course, whether excused or unexcused, and, in the opinion of the instructor, the student does not have a reasonable opportunity to be successful in the course.

B. Students should be aware any of the following may impact their financial aid:

1. being administratively withdrawn from a course
2. dropping a course
3. their last date of attendance in a course

Please see OSUIT Policy 2-021 for full details and procedures.

<b>Course Schedule</b>			
<b>Course Outline Schedule</b>	<b>Topic</b>	<b>Assignment</b>	<b>Due Date</b>
Week 1	<b>Chapter 2</b> Minimum Radius & Stopping Sight Distance	Homework / Lab Work	Beginning Week 2
Week 2	<b>Chapter 2</b> Application	Homework / Quiz	Beginning Week 3
Week 3	<b>Chapter 3</b> Horizontal Curves	Homework / Lab Work	Beginning Week 4
Week 4	<b>Chapter 3</b> Horizontal Curve Sight Distance	Homework / Quiz	Beginning Week 5
Week 5	<b>Chapter 3</b> Vertical Curves	Homework / Lab Work	Beginning Week 6
Week 6	<b>Chapter 3</b> Vertical Curve Sight Distance	Homework / Quiz	Beginning Week 7
<b>Week 7</b>	Review	<b>Mid-Term Exam</b>	End Week 7
Week 8	Summer Break!	None	
Week 9	Summer Break!	None	
Week 10	<b>Chapter 3</b> Introduction to Superelevation	Homework / Lab Work	Beginning Week 11
Week 11	<b>Chapter 3</b> Superelevation Calculations	Homework / Quiz	Beginning Week 12
Week 12	<b>Chapter 4</b> Introduction to Traffic Control Devices	Homework / Lab Work	Beginning Week 13
Week 13	<b>Chapter 5</b> Traffic Stream Characteristics	Homework / Quiz	Beginning Week 14
Week 14	<b>Chapter 9</b> Volume Studies and Characteristics	Homework / Lab Work	Beginning Week 15
Week 15	<b>Chapter 16</b> Two Lane Highways	Homework / Quiz	Beginning Week 16
Week 16	Review	Final Exam	End Week 16

Schedule is subject to change at instructor discretion.