

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

**CET 2323 - STATICS**

*Students learn and apply concepts of forces, moments, reactions, free-body diagrams, friction, internal forces and moments of inertia.*

**Type of course:** *Theory*

**Credit Hours:** 3; Total clock hours of theory per semester: 45;

Total clock hours of lab for the semester: 0; Total clock hours of clinical per semester: 0.

**Class length - Full Semester**

**Class days and times:** *MW 2:30 –4:00 pm CST*

**Prerequisites:** *MATH 1613*

**Instructor Name:** Adrian Lee

**Instructor Phone:** (918) 293- 5073(office)

**Office:** *Bld 300 Rm*

**Instructor email:** [Adrian.lee@okstate.edu](mailto:Adrian.lee@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:**

**Division Name:** School of Engineering Technologies    **Division's Main Phone:** 918-293-5150

**REQUIRED TEXT, REFERENCES, AND MATERIALS**

<b>Texts:</b>	<i>Applied Statics and Strength of Materials, 6<sup>th</sup> edition, Spiegel/Limbrunner, Prentice Hall, ISBN #0131946846</i>	Approx.	\$185.50
<b>References:</b>	<i>None</i>		
<b>Materials:</b>	Engineering paper, Scientific Calculator, Notebook, Pen or pencils.		
<b>Uniform/Tools:</b>	<i>None</i>		
<b>Estimated Cost for Materials:</b>			\$ 50.00
<b>Estimated Cost for Uniform/Tools:</b>			\$ 0

Upon completion of the course, students should:

Course Objectives	Assessment of Objectives
Recall trigonometric functions.	Quiz
Determine the forces in truss members.	Class Activity
Extrapolate shear and moment values based on a loaded beam.	Homework, Exam*
Associate Vector and Scalar forces.	Homework
Use Equations of equilibrium for basic calculations.	Homework
Compute reactions for a beam.	Homework
Use equations to solve friction problems.	Homework
Locate the centroid for a built up shape.	Homework

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:

- *Participate in class discussions and activities.*
- *View videos that depict the various concepts.*
- *Compile a portfolio of work produced.*
- *Take examinations.*
- *Complete reading assignments.*
- *Complete quizzes and homework assignments.*
- *Use D2L to view assignments and grades.*

### **EVALUATION - GRADES WILL BE BASED ON THE QUALITY AND COMPLETION OF THESE TASKS:**

Quizzes.....	20%
Homework.....	20%
Class Activities...	10%
Unit Exams.....	30%
<b>Final Exam*</b> .....	15%
Notebook.....	5%
Total.....	100%
Optional Exam....**	

OSUIT Grading Scale
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**

*Scientific and/or graphing calculator, textbook and notebook*

*Students may use any/all course materials, including books and notes, while participating in classroom activities and homework. All quizzes and exams are to be completed independently with no access to any tools other than a calculator; no collaboration with classmates is permitted and any instance of such will be considered academic dishonesty. Unauthorized collaboration on homework is also prohibited.*

### **LATE WORK**

A tentative course schedule is provided with this syllabus. **Homework will be dropboxed before the start of class and hard copies** are due at the beginning of class as assigned unless otherwise noted. Quizzes will take place at the beginning of class when they occur unless noted otherwise. It is important that you plan to attend every scheduled class. Should you be sick or have an excused absence you MUST contact the instructor or make arrangements before the class period begins on that day. Excused absences include but are not limited to: participating in a required university activity such as a field trip, fulfilling a military obligations, mandatory court appearances, death in the immediate family, extreme illness or accident to oneself or immediate family. Instructors, at their discretion, may require proof of such events. Emails, texts, and phone messages will be time stamped. If you let me know you will be absent the work due that day is to be made up the next day that you attend class. Otherwise, **LATE WORK IS NOT ACCEPTED.**

### **TESTING**

All tests are closed book and closed notes. Tests may not be made up on other days and any missed exams will receive a zero grade. \*\*In addition to the final, I offer an optional exam at the end of the semester. This is the only comprehensive exam and serves several purposes. This will be a replacement for any missed unit exam. Also, should a student be unhappy with any unit exam or the final exam, you may take the optional exam to replace a lower grade. This option will NEVER hurt or lower your grade. This is only an option to help you. Should your optional exam grade not help your overall score it will not be used.

### **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.

		MW Classes	
	DATE	STATICS	
	Monday, January 09, 2017	<b>Syllabus review, expectations, Trig review, Units</b>	
	Wednesday, January 11, 2017	<b>Ch 1</b>	<i>Ch 1 - #2, 8, 28, 32</i>
WEEK 1	Monday, January 16, 2017	<b>NO CLASS</b>	
WEEK 1	Wednesday, January 18, 2017	<b>Ch 1, quiz Ch 2 Notes</b>	<i>Ch 2 - #4, 6, 12, 18, 20</i>
WEEK 2	Monday, January 23, 2017	<b>Ch 1 hw due Ch 2 Quiz Vector Lab</b>	
WEEK 2	Wednesday, January 25, 2017	<b>Ch 2 hw due Ch 7 - Centroids</b>	<i>Ch 7 - #7, 10, 22, 24</i>
WEEK 3	Monday, January 30, 2017	<b>Ch 7 quiz    <u>Ch 7 hw due</u></b>	
WEEK 3	Wednesday, February 01, 2017	<b>Test 1 Review ch 1,2, ch 7</b>	
WEEK 4	Monday, February 06, 2017	<b>Test 1</b>	
WEEK 4	Wednesday, February 08, 2017	<b>CH 3 NOTES</b>	
WEEK 5	Monday, February 13, 2017	<b>Ch 3 quiz, Ch 3 Lab</b>	<i>Ch 3 - #6, 14, 28, 36, 56</i>
WEEK 5	Wednesday, February 15, 2017	<b>Ch 3 hw due Ch 4 Notes</b>	
WEEK 6	Monday, February 20, 2017	<b>Ch 4 quiz Ch 4 - Equilibrium lab</b>	<i>Ch 4 - #1, 16, 20, 26, 44</i>
WEEK 6	Wednesday, February 22, 2017	<b>Ch 4 homework due Ch 5 - Trusses and frames</b>	Ch 5 - #2, (#12 find forces in BC and DE only by method of sections), #18, (#35 find forces in AB by method of joints and GF by method of sections only) - due EOC
WEEK 7	Monday, February 27, 2017	<b>Ch 5 quiz A Ch 5 - Trusses and frames</b>	
WEEK 7	Wednesday, March 01, 2017	Ch 5 quiz B <b>CH 5 HOMEWORK DUE EOC</b>	
WEEK 8	Monday, March 06, 2017	<b>Test 2 Review</b>	
WEEK 8	Wednesday, March 08, 2017	<b>Test 2</b>	
WEEK 9	Monday, March 13, 2017	<b>CH 6 NOTES</b>	<i>Ch 6 - #4, 9, 32</i>
WEEK 9	Wednesday, March 15, 2017	<b>Ch 6 quiz Friction lab</b>	
	Monday, March 20, 2017	<b>No Class - Spring Break</b>	
	Wednesday, March 22, 2017	<b>No Class - Spring Break</b>	

WEEK 10	Monday, March 27, 2017	<b>Ch 6 hw Due</b> <b>Ch 13 Notes</b>	<i>Ch 13 - #16, 20, (40 is a bonus problem)</i>
WEEK 10	Wednesday, March 29, 2017		
WEEK 11	Monday, April 03, 2017	<b>Ch 13 quiz</b>	
WEEK 11	Wednesday, April 05, 2017	<b>Ch 13 hw due</b> <b>Ch 8 Notes</b>	<i>Ch 8 - #10b, 14 - due 4/3 EOC</i>
WEEK 12	Monday, April 10, 2017	<b>Ch 8 quiz</b> <b>Ch 8 hw due EOC</b>	
WEEK 12	Wednesday, April 12, 2017		
WEEK 13	Monday, April 17, 2017	<b>Review</b>	
WEEK 13	Wednesday, April 19, 2017	<b>Test 3</b>	
WEEK 14	Monday, April 24, 2017	<b>Optional Exam</b>	
WEEK 14	Wednesday, April 26, 2017		
WEEK 14	Friday, April 28, 2017	<b>Graduation</b>	
	All quizzes and homework are due at the beginning of class unless noted end of class (EOC)		
	Schedule is subject to change at instructor discretion.		

