



CONE 441-01E Highway and Heavy Construction

COURSE SYLLABUS: Fall 2026

INSTRUCTOR INFORMATION

Instructor:	Eddie Oh
Office Location:	AG/ET 204
Office Hours:	Monday & Wednesday 10 am ~ 12:30 pm
Office Phone:	903. 886. 5474
Office Fax:	903. 886. 5468
University Email Address:	Eddie.Oh@etamu.edu
Preferred Form of Communication:	email
Communication Response Time:	one day

COURSE INFORMATION

Textbook(s) Required: Traffic & Highway Engineering, Garber, 5th, Cengage, 9781337631020
Software Required: None
Optional Texts and/or Materials: None
Lecture/Lab: Mondays & Wednesdays 2:00 – 3:15pm, AG/ET 118A

Course Description

Highway planning, driver characteristics, geometric design, traffic flow and control, highway materials, pavement design, and how highways are constructed, maintained, and upgraded. Students will apply the knowledge of estimating and scheduling to heavy construction projects such as highways, bridges, approaches, pipelines, or related structures.

Prerequisites: CONE 322 with a minimum grade of C and CONE 332 with a minimum grade of C.

Student Learning Outcomes

1. Discuss the principles of traffic engineering
2. Apply the fundamental principles of traffic flow and prepare intersection designs

The syllabus/schedule are subject to change.

3. Develop geometric design of highway
4. Design flexible/rigid pavement structures
5. Develop construction execution strategies for heavy civil construction projects

COURSE REQUIREMENTS

Prerequisite : CONE 321 and CONE 351

Instructional Methods

In-Class, Face-to-Face, D2L

Student Responsibilities or Tips for Success in the Course

Weekly assignments & quizzes

GRADING

Final grades in this course will be based on the following scale:

A	B	C	D	F
100 - 90	89 - 80	79 - 70	69 - 60	59 - 0

Weights of the assessments in the calculation of the final letter grade.

Assignments & Quiz	Midterm Exam	Final Exam
40%	30%	30%

Assessments

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@ETAMU.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a ETAMU campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

Interaction with Instructor Statement

Preferred Form of Communication: email

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](#).

<http://www.ETAMU.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.a.spx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: <https://www.britannica.com/topic/netiquette>

ETAMU Attendance

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.ETAMU.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.ETAMU.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

Academic Integrity

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

The syllabus/schedule are subject to change.

The Counseling Center at East Texas A&M, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit www.ETAMU.edu/counsel

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

[Undergraduate Student Academic Dishonesty Form](#)

<http://www.ETAMU.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf>

[Graduate Student Academic Dishonesty Form](#)

<http://www.ETAMU.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf>

<http://www.ETAMU.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty
13.99.99.R0.10 Graduate Student Academic Dishonesty

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

East Texas A&M University Velma K.
Waters Library Rm 162 Phone (903) 886-
5150 or (903) 886-5835
Fax (903) 468-8148

Email: studentdisabilityservices@ETAMU.edu

Website: [Office of Student Disability Resources and Services](#)

<http://www.ETAMU.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

The syllabus/schedule are subject to change.

Nondiscrimination Notice

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and East Texas A&M Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.ETAMU.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

East Texas A&M Supports Students' Mental Health

The Counseling Center at East Texas A&M, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit www.ETAMU.edu/counsel

Department or Accrediting Agency Required Content

COURSE OUTLINE / CALENDAR

Week #	Week of	Course Topic
1	17-Aug	No Class meeting schedule
2	24-Aug	The Profession of Transportation / Transportation Systems & Organizations
3	31-Aug	Characteristics of Driver, Pedestrian, Bicyclist, Vehicle, and Road
4	07-Sep	Labor Day / Traffic Engineering Studies / Highway Safety
5	14-Sep	Principles of Traffic Flow / Intersection Design
6	21-Sep	Intersection Control / Capacity & Level of Service for Highway Segments
7	28-Sep	Capacity & Level of Service at Signalized Intersections
8	05-Oct	Exam I / Fall Break
9	12-Oct	Transportation Planning Process
10	19-Oct	Forecasting Travel Demand / Evaluating Transportation Alternatives
11	26-Nov	Highway Surveys & Location / Geometric Design of Highway Facilities
12	02-Nov	Highway Drainage
13	09-Nov	Soil Engineering for Highway Design / Materials for highway construction
14	16-Nov	Design of Flexible Pavements / Design of Rigid Pavements
15	23-Nov	Pavement Management / Thanksgiving Break
16	30-Nov	Course Review
17	07-Dec	Final Exam

The syllabus/schedule are subject to change.