CE 5362: Urban Transportation Planning (In-Person)
CRN: 19434
Fall 2021

Professor Kelvin Cheu
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(915) 747-5717
Office Hours: MW 12:30-2:50 p.m. @ A208 College of Engineering

Course Information: What this class is about and what we will do

COURSE DESCRIPTION

CE5362 is a 3-credit, elective graduate course. This course introduces students to the theory and practice of transportation planning. At the end of the course, students should be able to conduct the 4-step urban transportation planning system (UTPS) modeling process, and how it fits into the entire process mandated by Federal Laws. In addition, students should be aware of the shortcomings of the current models, and the latest developments in transportation planning models. This course also covers the public participation process and stakeholder's decision-making process.

Students registered in CE5362 should have a graduate standing or undergraduate senior who is taking this as advanced topics. All students require instructor approvals.

COURSE OBJECTIVES OR EXPECTED LEARNING OUTCOMES

The objective of this course is to introduce students to the following transportation engineering topics. The primary goal is to prepare students with the fundamental knowledge of transportation engineering prior to their entry into the civil engineering industry.

The first part of the course is to, through the following topics, systematically introduce the field of transportation planning to the students:
- The transportation funding process
- Metropolitan planning organization
- Travel survey
- Land-use zoning
- Demographic and economic forecasts
- The four-step urban transportation planning system process
- Trip generation
- Trip distribution
- Mode choice
- Traffic assignment
- Air quality analysis

LEARNING MODULES

The tentative weekly lesson and assessment plans are as follows:
The activities consist of lectures, guest lectures, field trips, homework, lab sessions and exams.

**REQUIRED MATERIALS**

**Calculator**

A calculator approved for use in FE Exam (refer to [https://ncees.org/exams/calculator/](https://ncees.org/exams/calculator/)).

The following calculator models are the only ones acceptable for use during the 2021 exams:

- **Casio**: All fx-115 and fx-991 models (Any Casio calculator must have “fx-115” or “fx-991” in its model name.)
- **Hewlett Packard**: The HP 33s and HP 35s models, but no others
- **Texas Instruments**: All TI-30X and TI-36X models (Any Texas Instruments calculator must have “TI-30X” or “TI-36X” in its model name.)

Examples of approved calculators:

![Approved Calculators](image)

**Textbook**
There is no assigned textbook. Materials will be provided in Blackboard. Students are expected to copy class notes.

COURSE ASSIGNMENTS AND GRADING

Letter grades will be assigned based on the final course marks (out of 100):

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
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<tbody>
<tr>
<td>A</td>
<td>90 and above</td>
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<tr>
<td>B</td>
<td>80 to 89.99</td>
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<tr>
<td>C</td>
<td>70 to 79.99</td>
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<tr>
<td>D</td>
<td>60 to 69.99</td>
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<tr>
<td>F</td>
<td>below 60</td>
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</tbody>
</table>

Contributions towards final mark (out of 100%)

<table>
<thead>
<tr>
<th>Contribution</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>15%</td>
</tr>
<tr>
<td>Homework</td>
<td>15%</td>
</tr>
<tr>
<td>Lab assignments</td>
<td>15%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>15%</td>
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<tr>
<td>Exam 2</td>
<td>15%</td>
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<tr>
<td>Exam 3</td>
<td>15%</td>
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<tr>
<td>Field trips</td>
<td>9%</td>
</tr>
<tr>
<td>Course evaluation</td>
<td>1%</td>
</tr>
</tbody>
</table>

TECHNOLOGY REQUIREMENTS

PowerPoint slides, homework, examinations, announcements, grades will be available in Blackboard. Office hours (consultations) and discussions will be in person. Students may request by email for online consultation in Microsoft Teams. Ensure your UTEP e-mail account is working and that you have access to the Web and a stable web browser. Google Chrome and Mozilla Firefox are the best browsers for Blackboard; other browsers may cause complications. When having technical difficulties, update your browser, clear your cache, or try switching to another browser.

You will need to have access to a computer/laptop, scanner, a webcam, and a microphone. You will need to download or update the following software: Microsoft Office, Adobe Acrobat Reader, Windows Media Player, QuickTime, and Java. Check that your computer hardware and software are up-to-date and able to access all parts of the course.

If you do not have a word-processing software, you can download Word and other Microsoft Office programs (including Excel, PowerPoint, Outlook and more) for free via UTEP’s Microsoft Office Portal. Click the following link for more information about Microsoft Office 365 and follow the instructions.

IMPORTANT: If you encounter technical difficulties beyond your scope of troubleshooting, please contact the UTEP Help Desk as they are trained specifically in assisting with technological needs of students. Please do not contact me for this type of assistance. The Help Desk is much better equipped than I am to assist you!

Course Communication: How we will stay in contact with each other
Office Hours: MW 12:30-2:50 p.m. @ A208 College of Engineering

Email: UTEP e-mail is the best way to contact me outside the class meeting times and office hours. I will make every attempt to respond to your e-mail within 24 hours of receipt if you follow the following email guidelines. When e-mailing me, be sure to email from your UTEP student account and please put the course number in the subject line. In the body of your e-mail, start with a polite salutation, then clearly state your question. At the end of your e-mail, be sure to put your first and last name, and your university identification number.

Example:

Dr Cheu

I am your student in the CE4340 Transportation Engineering course. I am not able to take Exam 1 during class time on September 1. The reason is I am selected as the captain of the UTEP soccer team. On September 1 we will be going to Guadalajara to play a pre-season match against Leones Negros. Please tell me how I can take Exam 1. Attached is the official letter from Coach Maradona. Thank you.

Guillermo Ochoa
800011956

Discussions: Discussion will be face-to-face during and immediately after class meetings or during office hours.

Announcements: Check the Blackboard announcements frequently for any updates, deadlines, or other important messages.

Course Policies: What do you need to do to be successful in the course

ATTENDANCE POLICY

Attendance will be taken in every class meeting, either by signing your signature in an attendance form, or calling your name to return graded homework. Your signatures will be checked for consistency throughout the semester. Inconsistent, missing signature, or failure to pick up graded homework during class time will be marked as absent. For class meetings in Microsoft Teams, the sign-in and sign-out records will be used as the attendance.

HOMEWORK/ASSIGNMENT POLICY

- There are 3 types of homework/assignments:
  - Written homework: 3 homework will be given. Each homework will consist of several questions. You are expected to submit the solutions of all the questions. The graded questions will total up to 15% of the course marks.
  - Lab assignments: 3 lab assignments will be given. These are problems you need to solve using the software taught in the lab sessions. You are expected to
submit the solutions of all the questions. The graded questions will total up to 15% of the course marks.

- Field trip worksheets: 3 field trip assignments will be given. These are questions about field trips. You are expected to submit the solutions of all the questions. The graded questions will total up to 15% of the course marks.

- Because I have given you plenty of time to complete the homework, no late submission will be accepted, unless you have an emergency or special situation.

EXAMINATION POLICY

- Examinations are conducted in-persons during class time.
- The examinations are open-book.
- To discourage students from focusing narrowly on only a few questions, no practice exam will be given.
- Rescheduling of an exam is possible if you inform me ASAP before the exam, with a valid reason. Examples of valid reasons are official UTEP travel, accident, medical, family emergency, jury duty, court appearance, military service, quarantine, job interview. These are not expected and cannot be rescheduled. You may need to show documentary evidence (e.g., doctor’s letter, police report, court letter). Events that can be pre-scheduled or rescheduled are not valid reasons. Examples of non-valid reasons are vacation, wedding, driving test, sending car for service, etc. If an emergency happens during the exam day, you should contact the me or the TA at the earliest possible time.

CALCULATOR POLICY

- Civil Engineering Department’s policy: only calculators permitted by NCEES for use in the current semester’s FE exam are permitted to be used in the examinations.
- No other make and model of calculator will be allowed.
- Models previously allowed by NCEES in the past but are no longer valid for the current FE exam are prohibited in the CE5362 exams. Please check https://ncees.org/exams/calculator/ for the latest permitted calculator models.
- This calculator policy may not be enforced by some professors but will be enforced in CE5362. Models allowed by another professors in his/her exam are not an excuse. This is CE5362 and you should follow CE5362 course policy.
- If a student is found using an unapproved calculator is found during any exam, for the first time he/she will be given a warning. If this is repeated for the second time it will be reported as “cheating – bringing unauthorized materials into the exam” according to the UTEP Handbook of Operating Procedures.

COURSE DROP POLICY

If you feel that you are unable to complete the course successfully, please let me know and then contact the Registrar’s Office to initiate the drop process. If you do not, you are at risk of receiving an “F” for the course.

I may drop you from the course if you:
- Fail to attend more than 8 class meetings (in the attendance records); or
- Fail to submit more than 4 homework/lab assignments/field trip assignments combined; or
Fail to submit more than 1 exam.

I will not drop you from the course if you are being investigated for cheating.

**EXTRA CREDIT POLICY**

I will not give extra credit to individual – this is considered a form of preferential treatment/discrimination. If opportunity to earn extra credit arise, all students in the course will have equal opportunity.

**ALTERNATIVE MEANS OF SUBMITTING WORK IN CASE OF TECHNICAL ISSUES**

I strongly suggest that you submit your work with plenty of time to spare in the event that you have a technical issue with the course website, network, and/or your computer. I also suggest you save, scan or make copies of all your work (answers to discussion points, quizzes, exams, and essays) in a separate Word document as a back-up. This way, you will have evidence that you completed the work and will not lose all the credit. If you are experiencing difficulties submitting your work through the course website, please contact the UTEP Help Desk. You can email me your back-up document as a last resort to claim credits.

**ACCOMMODATIONS POLICY**

The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the UTEP Center for Accommodations and Support Services (CASS). Contact the Center for Accommodations and Support Services at 915-747-5148, or email them at cass@utep.edu, or apply for accommodations online via the CASS portal.

**SCHOLASTIC INTEGRITY**

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as one's own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the Office of Student Conduct and Conflict Resolution (OSCCR) for possible disciplinary action. To learn more, please visit HOOP: Student Conduct and Discipline.

**CLASS RECORDINGS**
Recording of class proceedings, either voice or video, by student is not allowed. Doing so may result in disciplinary action.

PLAGIARISM DETECTING SOFTWARE

Some of your course work and assessments may submitted to SafeAssign, a plagiarism detecting software. SafeAssign is used review assignment submissions for originality and will help you learn how to properly attribute sources rather than paraphrase.

COPYRIGHT STATEMENT FOR COURSE MATERIALS

All materials (textbook, homework questions and solutions, exam questions and solutions) used in this course are protected by copyright law. The course materials are only for the use of students currently enrolled in this course and only for the purpose of this course. They may not be further disseminated, such as posting in the Internet or social media. Doing so may result in disciplinary action.

COVID-19 PRECAUTIONS

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID 19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org.

Course Resources: Where you can go for assistance

UTEP provides a variety of student services and support:
Technology Resources
- Help Desk: Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus.

Academic Resources
- UTEP Library: Access a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.
- University Writing Center (UWC): Submit papers here for assistance with writing style and formatting, ask a tutor for help and explore other writing resources.
- Math Tutoring Center (MaRCS): Ask a tutor for help and explore other available math resources.
• **History Tutoring Center (HTC):** Receive assistance with writing history papers, get help from a tutor and explore other history resources.

• **RefWorks:** A bibliographic citation tool; check out the RefWorks tutorial and Fact Sheet and Quick-Start Guide.

**Individual Resources**

• **Military Student Success Center:** Assists personnel in any branch of service to reach their educational goals.

• **Center for Accommodations and Support Services:** Assists students with ADA-related accommodations for coursework, housing, and internships.

• **Counseling and Psychological Services:** Provides a variety of counseling services including individual, couples, and group sessions as well as career and disability assessments.