Instructor:
Dr. Zhong-Ren Peng, Professor (Room 462, 352-294-1491, zpeng@ufl.edu)
Teaching Assistants: Yu Han (yuh2015@ufl.edu) (Room 115)

Schedule:
Class: Tuesday Period 6 - 8 (12:50 PM - 3:50 PM), Room: ARCH 0116
Office Hours: Wednesday 10:00—12:00 PM or by appointment
TA Office Hours: Thursday 3:00 – 5:00 PM or by appointment

Course Overview

This course focuses on planning process, modeling and applications for passenger transportation of metropolitan areas. The class will help develop an understanding of the federally-mandated transportation planning process, models of travel demand, transportation and land use interaction modeling, GIS applications in transportation, and transportation project and policy analysis. We will consider the role of planning in both advising politicians and policy-makers and also in advocating on behalf of communities that are affected by transportation projects.

This is a hands-on course. Students will have the opportunity to use transportation demand models in a transportation modeling software package (e.g., Cube Voyager). We will also have occasional guest speakers who are involved in transportation planning, modeling and project management.

Prerequisites: Either of the following courses is required prior to take this course: URP 6716 Transportation Policy/Planning, or TTE 5006 Advanced Urban Transportation Planning.

Assignments: There will be weekly or bi-weekly assignments. Many of them will require the use of transportation planning software Cube Voyager or GIS software ArcGIS. There will be a mid-term exam and a final project. Grading will be based on the following components: 10% active class participation, 30% assignments, 30% mid-term exam and 30% final project.

Textbook and Readings:
- Other readings as assigned
Students with Disabilities
Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

Course Policies:

Attendance Policy: Students are expected to attend all classes and labs and to stay until the class/lab period ends. Role will be taken randomly; more than 3 unexcused absences will result in the loss of a letter grade. In the case of illness or a family emergency, a schedule for the completion of make-up work must be determined with the instructor as soon as possible upon a student’s return to class. Failure to comply with the agreed upon schedule will result in a failing grade for that project.

Assignment and Quiz/Exam Policy: Students MUST follow the University’s policy regarding unauthorized use of materials (i.e., cheating), prohibited collaboration, and the use of copyrighted materials. Students are responsible for reading and abiding by the University’s student code of conduct (http://www.dso.ufl.edu/sccr/honorcodes/conductcode.php) and the University Honor Code. Under the Student Honor Code, “on all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: ‘On my honor, I have neither given nor received unauthorized aid in doing this assignment’” (http://www.dso.ufl.edu/judicial/honorcode.php). In particular, there are rules governing plagiarism and unauthorized collaboration. If you directly quote someone or use an idea from another source, you must attribute that idea or those words to an original author. If you are unclear about what constitutes plagiarism, please make an appointment with me to discuss this. You can also consult the above website and the graduate catalog for further information. In the context of this course, if you directly quote someone or use an idea from another source even if it is your own previously submitted work, you must attribute that idea or words. Failure to follow the rules regarding Integrity in Graduate School may result in a failure in this course and possible disciplinary action under the Judicial Process for Academic Honesty Violations. If you are unclear about what constitutes plagiarism or other aspects of academic honesty, please make an appointment with the instructor to discuss this.

The following are some examples that are considered to be academic dishonesty:

- copying graphics or texts from any sources for your report without crediting the original source;
- representing someone else’s work as your own;
- allowing someone else to represent your work as his/her own;
- Multiple submissions of the same or similar work without prior approval;
- Cheating in exams (e.g., looking at books or notes in a closed-book examination).
- Falsifying information such as changing or leaving out data, such as manipulating or misreporting statistics for a research project; altering work after it has been submitted; hiding reference materials, etc.

**Make-up Policy:** Students will be permitted a reasonable amount of time to make up the material or activities covered in their absence due to a true emergency, but the instructor must be informed of the legitimate absence ahead of time with proofs.

**UF Policies:**

**University Policy on Accommodating Students with Disabilities:** Students requesting accommodation for disabilities must first register with the Dean of Students Office (http://www.dso.ufl.edu/drc/). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

**University Policy on Academic Misconduct:** Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at http://www.dso.ufl.edu/students.php.

**Netiquette: Communication Courtesy:** All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. http://teach.ufl.edu/docs/NetiquetteGuideforOnlineCourses.pdf

**Getting Help:**
For issues with technical difficulties for E-learning in Sakai, please contact the UF Help Desk at:

- Learning-support@ufl.edu
- (352) 392-HELP - select option 2
- https://lss.at.ufl.edu/help.shtml

**Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from LSS when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.**

Other resources are available at http://www.distance.ufl.edu/getting-help for:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support
Should you have any complaints with your experience in this course please visit http://www.distance.ufl.edu/student-complaints to submit a complaint.

**The U Matter, We Care initiative**

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

**Grading Policies:**

*Grading will be based on the following components: 30% assignments and class participation, 30% exam and 40% final project. Each assignment, exam and final project will be first assigned point grades, and then converted into the letter grade based on the following grade scale. Late assignment without prior approval will be reduced by one letter grade.*

<table>
<thead>
<tr>
<th>Tasks</th>
<th>Points or percentage</th>
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<tbody>
<tr>
<td>Assignments and class participation</td>
<td>30%</td>
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<tr>
<td>Exam</td>
<td>30%</td>
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<tr>
<td>Final Project</td>
<td>40%</td>
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**Grading Scale:** *For greater detail, see the Registrar’s Grade Policy regulations at [https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx).

**University of Florida Grade Policy**

<table>
<thead>
<tr>
<th>Percent age or points earned in class</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
<th>D-</th>
<th>F</th>
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<tbody>
<tr>
<td>93% - 100%</td>
<td>A</td>
<td>A-</td>
<td>B+</td>
<td>B</td>
<td>B-</td>
<td>C+</td>
<td>C</td>
<td>C-</td>
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<td>60% - 62.9%</td>
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**Letter Grade equivalent**

- A = A-
- B+ = B
- B = B-
- C+ = C
- C = C-
- D+ = D
- D = D-
- F

**Letter Grade Points**

- A = 4.0
- A- = 3.67
- B+ = 3.33
- B = 3.0
- B- = 2.67
- C+ = 2.33
- C = 2.0
- C- = 1.67
- D+ = 1.33
- D = 1.0
- D- = 0.67
- E = 0.0
- WF = 0.0
- I = 0.0
- NG = 0.0
- S-U = 0.0
Course Evaluations:

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

Schedule of Classes

1. Jan. 7  
   **Course Overview, Analytical Perspectives, Transportation Trends**
   Pisarski, Alan, 2013, Commuting in America 2013, part I (available at http://traveltrends.transportation.org/Pages/default.aspx)

2. Jan. 14  
   **Lab Session: Introduction to Cube**

3. Jan. 21  
   **Urban Transportation Planning and Decision Making**
   Meyer and Miller, Chapters 1, 2 and 3

4. Jan. 28  
   **Transportation Data and System Characteristics, Urban Transportation Demand Modeling: Trip Generation**
   Meyer and Miller, Chapters 4 and 5

5. Feb. 4  
   **Urban Transportation Demand Modeling: Trip Distribution**
   Meyer and Miller, Chapter 5

6. Feb. 11  
   **Urban Transportation Demand Modeling: Modal Split**
   Meyer and Miller, Chapter 5

7. Feb. 18  
   **Urban Transportation Demand Modeling: Trip Assignment**
   Meyer and Miller, Chapter 5

8. Feb. 25  
   **Land-Use Models, part 1**
   Meyer and Miller, Chapter 6
9. March 3  **UF Spring Break, no class**

10. March 10  Computer lab

11. March 17  **Land-Use Models, part 2**

12. March 24  **Mid-Term Exam**

13. March 31  **Urban Transportation Demand Modeling: Time-of-Day Modeling, Activity-Based Models and Non-Motorize Travel Demand**  
Meyer and Miller, Chapter 5

14. Apr. 7  **GIS Applications in Transportation: Linear data model**


15. April 14, Computer Lab, working on your project

16. April 21, **Final project presentation**

17 April 28, **Final project report Due**