



EXTENDED CAMPUS

COLLEGE *of* PROFESSIONAL
and CONTINUING STUDIES

RCPL 5173-103: Urban and Regional Analysis

Course Description:

This course surveys the principal methods and models of applied quantitative urban and regional analysis. Students will study theories of urban and regional growth, vocabulary, mathematical techniques, and computer-aided analysis. Topics covered in the course include data sources and collection; urban geography; trend and time series analysis; population, land use, and employment forecasting; and identifying investment opportunities. The material is presented through lectures, examples, and readings. Course principles are reinforced through five problems.

Class Dates, Location and Hours:

Dates: April 6 - 8 & 13 - 15, 2018
Location: 3281 NW Koehler Loop, Fort Sill, Oklahoma.
Hours: Friday 5:30-9:00 p.m., Saturday 9:00 a.m.-5:00 p.m.; Sunday 12:00-4:00 p.m.
Last day to enroll or drop without penalty: March 8, 2018

Site Director:

Email: apftsill@ou.edu. Phone: (580) 355-1974.

Professor Contact Information:

Course Professor: Richard S. Marshment, Ph.D.
Mailing Address: Division of Regional and City Planning
University of Oklahoma
162 Gould Hall
830 Van Vleet Oval
Norman, OK 73019
Telephone Number: (405) 230-0416
Email Address: rmarshment@ou.edu
Professor Website: www.RichardMarshment.net
Professor Availability: The professor will be available via e-mail to students before and after the class sessions. On-site office hours are half an hour before and after each class session, or by appointment.

Textbook(s) and Instructional Materials:

All the written materials needed for this course are posted on OU's Canvas learning support system. Access Canvas at <https://canvas.ou.edu>, enter your OU NetID and password, and select course to access material. If you require assistance with Canvas, please click on the Help icon. You can search the Canvas guides, chat with Canvas support, or contact OU IT.

The course textbook can also be accessed through the "Courses" tab on the Professor's web site.

Calculator and Laptop Computer:

Numerical calculations are integral to this course. You will need to bring to each class a calculator capable of mathematical and exponential functions. Multiple memory registers will be useful. You must

understand how to use the calculator and its memory functions prior to class. Read the instruction manual if you do not already know how to use the calculator. Cell phone calculators are not acceptable.

Students should also bring laptop computers to class or use the computers supplied. Many of the examples we will study in class are presented in Excel™ spreadsheets so access to that software is required. We will graph data. Tablet computers are not substitutes for a fully functional laptop computer but may be adequate for storing and viewing the textbook without having to print a paper copy. If using a classroom computer all data must be stored on removable media, e.g. thumb drives, CDs.

All electronic devices must be muted during class.

Course Objectives:

At the conclusion of the course students should be able to:

- identify and access the principal sources of socioeconomic data for cities and regions;
- identify and quantify short-range trends in urban development indicators;
- forecast urban and regional population and employment; and
- predict the impacts on jobs and income of changes in the urban and regional economy.

Assignments, Grading and Due Dates:

Readings:

Students should read the assigned textbook. It can be viewed and stored electronically. The course follows the textbook and elaborates on some portions of the material. Some of the methods presented in the textbook illustrate how to solve the homework problems. The topic sequence is:

1. Introduction to urban and regional analysis
2. Defining study areas
 - a. census geography
 - b. political geography
3. Causes of urban and regional growth
 - a. clustering
 - b. agglomeration economies
 - c. localization economies
 - d. urbanization economies
4. Identifying and quantifying trends
 - a. development indicators
 - b. data bases and sources
5. Time series and curve fitting models
6. Population and housing forecasts
 - a. cohort-survival forecasting
 - b. forecasting demand for housing by type
7. Employment and income analysis
 - a. shift and share analysis
 - b. economic base multiplier
 - c. input-output models
 - d. economic impact analysis

8. Land use and development forecasting

Class Participation:

Class participation includes attending class sessions, punctuality, and contribution to class discussions.

Final Exam:

The final exam will be on **15 April 2018** for three hours. It is an open book, open notes exam. Laptop and tablet computers may be used. Calculators will be needed.

Homework Problems:

Students are required to complete five homework problems which can be downloaded from the Canvas web site. The problems involve application of course principles to urban and regional analysis topics. We will work through the homework problems in class. Solutions to the homework problems must be completed and sent by U.S. priority mail to the instructor at the address listed on this syllabus, **postmarked no later than 20 April 2018.**

Grading:

This is a letter-graded course: A, B, C, D, or F. Your grade will be determined from three components: solutions to the homework problems, performance on the final exam, and class participation.

Assignment	Due Date	Percent of Grade
Download and review course textbook	Prior to class	NA
Attendance and Participation	During class	10%
Final Exam	15 April 2018	40%
Homework Problems	20 April 2018	50%

Notice: Failure to meet assignment due dates could result in a grade of I (Incomplete) and may adversely impact Tuition Assistance and/or Financial Aid.

POLICIES AND NOTICES

Attendance/Grade Policy

Attendance and participation in interaction, individual assignments, group exercises, simulations, role playing, etc. are valuable aspects of any course because much of the learning comes from discussions in class with other students. It is expected that you attend all classes and be on time except for excused emergencies.

Excused absences are given for professor mandated activities or legally required activities such as emergencies or military assignments. It is the policy of the University to excuse absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required class work that may fall on religious holidays. Unavoidable personal emergencies, including (but not limited to) serious illness; delays in getting to class because of accidents, etc.; deaths and funerals, and hazardous road conditions will be excused.

If you are obtaining financial assistance (TA, STAP, FA, VA, Scholarship, etc.) to pay all or part of your tuition cost, you must follow your funding agency/institution's policy regarding "I" (Incomplete) grades unless the timeline is longer than what the University policy allows then you must adhere to the University policy. Students who receive Financial Aid must resolve/complete any "I" (Incomplete) grades by the end of the term or he/she may be placed on "financial aid probation." If the "I" grade is not resolved/completed by the end of the following term, the student's Financial Aid may be suspended making the student ineligible for further Financial Aid.

Students are responsible for meeting the guidelines of Tuition Assistance and Veterans Assistance. See the education counselor at your local education center for a complete description of your TA or VA requirements.

Academic Integrity and Student Conduct

Academic integrity means honesty and responsibility in scholarship. Academic assignments exist to help students learn; grades exist to show how fully this goal is attained. Therefore all work and all grades should result from the student's own understanding and effort.

Academic misconduct is any act which improperly affects the evaluation of a student's academic performance or achievement. Misconduct occurs when the student either knows or reasonably should know that the act constitutes misconduct. Academic misconduct includes: cheating and using unauthorized materials on examinations and other assignments; improper collaboration, submitting the same assignment for different classes (self-plagiarism); fabrication, forgery, alteration of documents, lying, etc...in order to obtain an academic advantage; assisting others in academic misconduct; attempting to commit academic misconduct; destruction of property, hacking, etc...; intimidation and interference with integrity process; and plagiarism. All students should review the Student's Guide to Academic Integrity at http://integrity.ou.edu/students_guide.html

Students and faculty each have responsibility for maintaining an appropriate learning environment. All students should review policies regarding student conduct at <http://studentconduct.ou.edu/>

Accommodation Statement

The University of Oklahoma is committed to making its activities as accessible as possible. For accommodations on the basis of disability, please contact your local OU Site Director.

Adjustment for Pregnancy/Childbirth-Related Issues

Should you need modifications or adjustments to your course requirements because of documented pregnancy-related or childbirth-related issues, please contact me as soon as possible to discuss. Generally, modifications will be made where medically necessary and similar in scope to accommodations based on temporary disability. Please see <http://www.ou.edu/content/eoo/faqs/pregnancy-faqs.html>.

Title IX Resources

For any concerns regarding gender-based discrimination, sexual harassment, sexual misconduct, stalking, or intimate partner violence, the University offers a variety of resources, including advocates on-call 24/7, counseling services, mutual no-contact orders, scheduling adjustments, and disciplinary sanctions against the perpetrator. Please contact the Sexual Misconduct Office at smo@ou.edu or (405) 325-2215 (8-5), or the Sexual Assault Response Team at (405) 615 -0013 (24/7) to report an incident. To learn more about Title IX, please visit the Institutional Equity Office's website at <http://www.ou.edu/content/eoo.html>

Course Policies

Advanced Programs policy is to order books in paperback if available. Courses, dates, and professors are subject to change. Please check with your OU Site Director. Students should retain a copy of any assignments that are mailed to the professor for the course. Advanced Programs does not provide duplicating services or office supplies.

Any and all course materials, syllabus, lessons, lectures, etc. are the property of professor teaching the course and the Board of Regents of the University of Oklahoma and are protected under applicable copyright.

For more information about Advanced Programs, visit our website at: <http://www.goou.ou.edu/>

INSTRUCTOR VITA

Richard S. Marshment, Ph.D.

Education

- 1968 B.S., Business Administration, Bowling Green State University.
- 1975 M.Arch., Urban Design, University of New Mexico.
- 1981 Ph.D., Urban Planning, University of Washington.

Current Position(s)

- Professor Emeritus, Division of Regional and City Planning, University of Oklahoma, 2010 – present.
- Visiting Professor of City and Regional Planning, Clemson University, 2011-2012.

Frequently Taught Advanced Programs Courses

- RCPL/Econ 5173 Urban and Regional Analysis
- RCPL/PSC 5353 State and Local Public Finance and Budgeting Systems
- RCPL/PSC 5913 Introduction to Analysis of Political and Administrative Data

Major Areas of Teaching and Research Interest

- Transportation Planning
- Transportation Economics
- Public Finance
- Urban and Regional Analysis

Representative Publications and Presentations

- Long-run elasticity of demand for passenger car travel with respect to toll and gasoline price, Chinese Overseas Transportation Officials' Conference on Transportation, Beijing, July 2012.
- Benchmarking transit research in the United States, *Journal of Public Transportation*, 10:3, 2007, pp. 95-118.
- Measuring highway bypass impacts on small town business districts, *Review of Urban and Regional Development Studies*, 12:3, Nov. 2000, pp. 250-265.
- Modeling Procedures for Conducting Multi-Modal Major Investment Studies. 6th National Conference on the Application of Transportation Planning Methods, Dearborn, Michigan, May 1997.
- Short Range Inter-City Traffic Forecasting Using Econometric Methods. *Journal of the Institute of Transportation Engineers*, 66:2, February 1996, pp. 37-43.
- Establishing National Priorities for Rail Transit Investments. *Policy Studies Journal*, 21:2, 1993, pp. 338-346.
- Measuring cost-effectiveness of rail transit projects, *Transportation Research Record* 1349, 1992, pp. 28-32.

Major Professional Affiliations

- Charter member, American Institute of Certified Planners
- Fellow, Institute of Transportation Engineers
- Transportation Research Board
- American Planning Association

Representative Honors and Awards

- Certificate of Appreciation, Transportation Planning Applications Committee, Transportation Research Board, National Academies, Washington, D.C., 2005.
- Outstanding Service Award, 1998, Outstanding Teaching Award, 1990, 1994, College of Architecture, University of Oklahoma,
- Fulbright Scholar, 1973, Colombia