

City and Regional Planning 745
PHYSICAL ELEMENTS OF URBAN DEVELOPMENT
Syllabus - Winter 2006

Credit: 5 hours

Room: Lecture: Knowlton 190 MWF 8:30 A.M

Lab Lecture: Knowlton 190 F 9:30 A.M

Laboratory: Knowlton 430 M W 2:30-4:00; 4:00-5:30

Instructor: Steven I. Gordon

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Lab Assistants:

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Office Hours: As posted or by appointment

Class Listserv (you must request Prof. Gordon to register for this by sending e-mail to Gordon.1@osu.edu):

crpsg@lists.acs.ohio-state.edu

WebCT Course materials: <http://class.osu.edu>

COURSE DESCRIPTION

Introduction

This course is designed to provide a basic understanding of the physical planning process and of those environmental and man-made elements that impact physical development planning. The emphasis of the course is on the analysis of physical planning problems, the applications of physical planning standards, and the creation of planning solutions.

Course Objectives

The objective of this course is to prepare students for future professional roles as active and effective participants in the on-going process of managing the urban spatial environment by providing them with:

- an understanding of the critical elements affecting the physical form and spatial structure of urban areas;
- an extensive knowledge base of design/planning criteria with the emphasis on performance criteria for the essential elements underlying the physical form and spatial structure of urban areas;

- training in operational skills and tools required to develop solutions and to prepare and evaluate physical planning proposals.
- At the end of the course, students should be able to:
- identify and describe limitations that site characteristics place upon development;
- analyze alternative potentials for land/use development of a variety of different kinds of areas and which range in size from medium to large scale;
- evaluate and develop well-considered planning proposals for such areas that respect their relative contexts, are sensitive to their surroundings, and which are responsive to relevant environmental constraints;
- have a working knowledge of the Autocad drawing program.

Method

The course is divided into three parts:

Part I Landforms, soils, climate, storm drainage and utilities

Part II Circulation systems

Part III Land use and site design

The class will meet up to four times a week for lectures - on Mondays, Wednesdays, and Fridays at 8:30 A.M. and on Fridays at 9:30 A.M. Laboratory sessions are scheduled for Monday and Wednesday afternoons in Knowlton Hall 430. Some lecture sessions will be substituted with materials that are presented on-line. Students are required to review those materials and participate in weekly discussion sessions. The lectures will generally follow the outside readings but will expand upon them. The laboratory exercises will give each student an opportunity to utilize the various operational tools and to apply the theoretical materials presented in the lectures.

Evaluation

Two hour long exams will be given during the quarter concerning the material presented during that time period. Exams will be worth 15% of the final grade. A final design problem will be due during exam week and will contribute 15% toward the final grade. Students will be asked to participate in weekly discussion sessions in an assigned discussion group. This participation is worth an additional 15% of the final grade. Lab exercises will be worth 40% of the final grade. Each lab will be graded on the basis of a 10 point total. Lab exercises not complete within the assigned time period will be assessed a penalty of 0.5 points off per day to a maximum reduction of 2.5 points. All labs must be completed within the course period. Incompletes will only be granted for a valid reason and with permission of the instructor.

All students are held responsible for knowing and abiding by the Department's policies on plagiarism and the University's policies on academic misconduct. These have been distributed to all C&RP students. If you have not received a copy, please obtain them from the school staff on the main floor of Knowlton Hall. Students may share ideas on their lab assignments but their final products are expected to reflect individual work and not group output (with the exception of group discussions).

Texts

The texts are available at the Ohio State bookstore. Reading lists will be distributed with additional materials on reserve in the Knowlton Library.

Required Texts

Barnett, Jonathan Redesigning Cities, 2003
Available through the American Planning Association
122 S. Michigan, Suite 1600
Chicago, IL 60603
www.planning.org
ISBN 1-884829-71-6

Omura, George Mastering AutoCAD 200 and AutoCAD LT 2006
Sybex, 2005
ISBN 0-7821-4424-1

Materials for Lab

Students will be required to purchase the materials necessary to satisfactorily complete the lab exercises. Initially, students should acquire:

- A headset to listen to recorded lectures

- A calculator

- An engineers scale marked in tenths of an inch

- At least 3 RW CD's

- BuckId Printing

All final prints for computer assignments are to be printed on a laser printer.

Students are required to use their BuckId and add additional value to the card as necessary to be used with the laser printer in one of the Knowlton Hall microcomputer labs. Instructions on use of the printer will be handed out to each student.