

## **ENV 441 Environmental Planning**

Spring 2004; UR 106; Tuesday/Thurs. 4:00-5:50 p.m.

Instructor: Pamela L. Davis, AICP

Office Hours: By appointment

Office Phone: (216) 241-2414 Ext. 284

Work Email: pdavis@mpo.noaca.org

Home Phone: (216) 228-3119

Home Email: pamszoo@sbcglobal.net

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### **Course Organization and Objectives**

The purpose of the course is to present the concepts and frameworks used for environmental planning. The course presents both the contexts within which environmental planning takes place and the frameworks, tools and substantive knowledge with which environmental planners plan. The course uses examples from urban, metropolitan and regional environmental settings.

Our objectives are to:

- explore the relationships between ecological conditions and human settlements and to understand how human activities affect these conditions;
  - become familiar with the history and values of ecological/environmental planning; and
  - become familiar with the methods for planning to mitigate environmental negatives and restore and sustain ecological integrity and human quality of life.
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### **Course Requirements for Grading**

A grade of **Incomplete** will only be given when a student cannot complete course requirements because of a serious illness or crisis (as judged by the instructor), either of the student's or in his or her immediate family. Please remember that both "incomplete" and "x" grades will turn into "F" if work is not completed.

Written communication is critical to planning practice. All work completed outside the classroom should be typed. Grades for written work will be made on the basis of logical argument, organization, and correct use of English, timeliness and fulfilling assignment requirements. **Assignments will be not be accepted more than two weeks past the assignment's due date.**

Plagiarism and cheating of any kind will not be tolerated. Any student found cheating or presenting someone else's work without proper citations will receive an "F" on that exam or assignment. (Consult the University's policies on these infractions for further details.) If you are unsure about citation rules, please consult a citation guide and/or talk with the professor. The class sessions will consist of lectures, case study presentations, and class exercises. Active participation in class discussion is required. Attendance is expected at all sessions. All students are responsible for completing all weekly readings, homework assignments and participating in classroom exercises.

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## **Student grades**

Class exercises/reading assignments/discussion (10 points total)

Examinations (4) (80 points total)

Participation and attendance (10 points) – two unexcused absences will be allowed

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## **Students with Special Needs**

Students with special needs should identify themselves to the instructor by the second week of class so we can make appropriate accommodations for participation in class assignments. These accommodations are for those students who need physical accommodations or who have university-documented learning disabilities.

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## **Important dates for the course:**

Exam #1 February 3, 2004

Exam #2 February 24, 2004

Exam #3 April 1, 2004

Exam #4 May 6, 2004

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## **Course Materials**

### **Textbooks/Reserve**

Landscape Planning: Environmental Applications, 3<sup>rd</sup> ed., by William Marsh

The Environmental Planning Handbook for Sustainable Communities and Regions, Tom and Katherine Daniels

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January 20

Course overview and objectives, syllabus review.

Introduction: Landscape planning and Sustainability

Daniels – Introduction

Marsh – Introduction, Chapter 1, pp. 8-13

January 22

Marsh, Chapter 2 -Understanding the Physiographic Framework of the North America

January 27

Marsh, Chapter 1, pp. 13-23

Daniels, Chapter 1 - Taking Stock of the Local Environment and Creating an Environmental Action Plan

[Ohio EPA Guide to Local Watershed Planning](#) and [Appendix 8](#)

January 29

Daniels, Chapter 2 - The Legal, Economic, Ethical and Ecological Foundations of Environmental Planning

February 3  
Exam #1

February 5  
Presentation by Laura DeYoung – Environmental Inventory

February 10  
Marsh, Chapter 4 – Topography, Slopes and Land Use Planning

February 12  
Marsh, Chapter 5 – Soil, Land Use Suitability and Waste Disposal

February 17  
Daniels, Chapter 6 – Planning for Solid Waste and Recycling  
Daniels, Chapter 7 – Planning for Toxic Substances and Toxic Waste

February 19  
Marsh, Chapter 6 – Soils and Wastewater Disposal Systems

February 24  
TEST # 2

February 26  
Marsh, Chapter 9 – Watersheds, Drainage Nets and Land Use  
Marsh, Chapter 10 – Streamflow, River Valleys and Flood Hazard

March 2  
Daniels, Chapter 3 – Planning for Sustainable Water Supply

March 4  
Marsh, Chapter 7 - Ground Water, Land Use, and Aquifer Protection

March 9  
Daniels, Chapter 4 – Planning for Sustainable Water Quality  
Marsh, Chapter 11 – Water Quality, Runoff and Land Use

March 11  
Marsh, Chapter 8 – Storm Water Discharge, Water Management and Landscape Change

March 16 Spring Break  
March 18 Spring Break

March 23  
Marsh, Chapter 12 – Soil Erosion, Land Use and Stream Sedimentation  
Marsh, Chapter 13 – Streams, Channel Forms and the Riparian Landscape

March 25  
Daniels, Chapter 5 – Planning for Air Quality

March 30

Marsh, Chapter 16 – Microclimate, Air Pollution and the Urban Environment

Marsh, Chapter 17 – Ground Frost, Permafrost, Land Use and Environment

April 1

TEST #3

April 6

Daniels, Chapter 8 – Protecting Nation's Landscape Treasures

April 8

Marsh, Chapter 18 – Vegetation, Land Use, and Environmental Assessment

Daniels, Chapter 16 – Transportation Planning and the Environment

April 13

Daniels, Chapter 9 – Planning for Wildlife Habitat

April 15

TAX DAY!

Marsh, Chapter 19 – Landscape Ecology, Land Use and Habitat Conservation Planning

April 20

Daniels, Chapter 10 Planning and Managing Wetlands

Marsh, Chapter 20 – Wetlands, Habitat and Land Use Planning

April 22

Daniels, Chapter 11 – Coastal Zone Management

Marsh, Chapter 14 – Shoreline Processes, Sand Dunes and Coastal Zone Management

Presentation by Matthew L. Adkins, Coastal NPS Coordinator, Division of Soil and Water Conservation

April 27

Daniels, Chapter 17 – Planning for Energy

Marsh, Chapter 15 – Sun Angles, Solar Heat and the Environment

April 29

Daniels, Chapter 18 – Planning for Sustainable Built Environment

May 4

Daniels, Chapter 19 – Planning for the Built Environment: Greenfield Development and Site Design

Daniels, Chapter 20 – Positive Trends and Urgent Needs for Sustainable Environmental Planning

May 6

TEST #4