

# EVSP414

**STUDENT WARNING:** This course syllabus is from a previous semester archive and serves only as a preparatory reference. Please use this syllabus as a reference only until the professor opens the classroom and you have access to the updated course syllabus. Please do NOT purchase any books or start any work based on this syllabus; this syllabus may NOT be the one that your individual instructor uses for a course that has not yet started. If you need to verify course textbooks, please refer to the online course description through your student portal. This syllabus is proprietary material of APUS.

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## Course Summary

**Course :** EVSP414 **Title :** Air Quality Management

**Length of Course :** 8

**Prerequisites :** N/A **Credit Hours :** 3

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## Description

**Course Description:** In this course, the student will examine types of outdoor and indoor air pollutants, their sources, health effects, environmental and aesthetic effects, and methods of measurement and control. An in-depth review of the regulatory framework for air quality in the U.S. and related international treaties and agreements will be explored.

### Course Scope:

This course will investigate the sources, human and ecological health effects, control and challenges of air pollution. The student will learn the fundamental earth science processes associated with the atmosphere, the USA and international regulations governing air pollution sources and air pollution control processes. In addition to the textbook readings, case studies will be explored to illustrate some of the main air quality management concepts. The student will be required to understand the science behind air pollution and regulatory programs and to evaluate the effectiveness of these programs.

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## Objectives

After successfully completing this course, you will be able to:

- LO-1 Describe the major types and sources of indoor and outdoor air pollutants.
  - LO-2 Compare and contrast air quality index values from one area of the county to your home.
  - LO-3 Assess the lessons of the “Tragedy of the Commons” to current air quality problems.
  - LO-4 Analyze the impact of air pollutants on human health and ecological systems.
  - LO-5 Analyze the influence of air pollution regulations and control on the economy.
  - LO-6 Assess the effectiveness of current air quality regulations and international treaties and agreements in limiting the degradation of air resources
  - LO-7 Analyze air pollution source control technologies for particulate matter.
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## Outline

## **Week 1:**

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### Learning Outcomes

LO-1 Describe the major types and sources of indoor and outdoor air pollutants.

LO-2 Compare and contrast air quality index values from one area of the county to your home.

LO-4 Analyze the impact of air pollutants on human health and ecological systems.

### Readings

Godish Chapter 1

### Assignments

Forum 1

Assignment 1

## **Week 2:**

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### Learning Outcomes

LO-1 Describe the major types and sources of indoor and outdoor air pollutants.

LO-2 Compare and contrast air quality index values from one area of the county to your home.

LO-4 Analyze the impact of air pollutants on human health and ecological systems.

### Readings

Godish Chapters 2 & 3

### Assignments

Forum 2

Assignment 2

## **Week 3:**

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### Learning Outcomes

LO-1 Describe the major types and sources of indoor and outdoor air pollutants.

LO-4 Analyze the impact of air pollutants on human health and ecological systems.

### Readings

Godish Chapter 4

### Assignments

Forum 3

Assignment 3

## **Week 4:**

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### Learning Outcomes

LO-1 Describe the major types and sources of indoor and outdoor air pollutants.

LO-4 Analyze the impact of air pollutants on human health and ecological systems.

LO-6 Assess the effectiveness of current air quality regulations and international treaties and agreements in limiting the degradation of air resources

### Readings

Godish Chapters 5 & 6

### Assignments

Forum 4

Assignment 4

## **Week 5:**

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### Learning Outcomes

LO-1 Describe the major types and sources of indoor and outdoor air pollutants.

LO-6 Assess the effectiveness of current air quality regulations and international treaties and agreements in limiting the degradation of air resources

### Readings

Godish Chapter 7

### Assignments

Forum 5

Assignment 5 (Midterm)

## **Week 6:**

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### Learning Outcomes

LO-1 Describe the major types and sources of indoor and outdoor air pollutants.

LO-5 Analyze the influence of air pollution regulations and control on the economy.

LO-6 Assess the effectiveness of current air quality regulations and international treaties and agreements in limiting the degradation of air resources

### Readings

Godish Chapter 8

### Assignments

Forum 6

## Assignment 6

### Week 7:

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#### Learning Outcomes

LO-5 Analyze the influence of air pollution regulations and control on the economy.

LO-6 Assess the effectiveness of current air quality regulations and international treaties and agreements in limiting the degradation of air resources

LO-7 Analyze air pollution source control technologies for particulate matter.

#### Readings

Godish Chapters 9 & 10

#### Assignments

Forum 7

Assignment 7

### Week 8:

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#### Learning Outcomes

LO-1 Describe the major types and sources of indoor and outdoor air pollutants.

LO-4 Analyze the impact of air pollutants on human health and ecological systems.

LO-6 Assess the effectiveness of current air quality regulations and international treaties and agreements in limiting the degradation of air resources

LO-7 Analyze air pollution source control technologies for particulate matter.

#### Readings

Godish Chapter 11

#### Assignments

Forum 8

Project

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## Evaluation

### Grading:

Name	Grade %
Forums	24.00 %
Week 1	3.00 %
Week 2	3.00 %
Week 3	3.00 %

Week 4	3.00 %
Week 5	3.00 %
Week 6	3.00 %
Week 7	3.00 %
Week 8	3.00 %
<b>Assignments</b>	<b>42.00 %</b>
Top Air Pollution Issues (Wk 1)	7.00 %
The Tragedy of the Commons (Wk2)	7.00 %
Natural Air Pollutants (Wk 3)	7.00 %
Lead (Wk 4)	7.00 %
Limiting Air Pollution (Wk 6)	7.00 %
Stationary Sources (Wk 7)	7.00 %
<b>Midterm</b>	<b>14.00 %</b>
Sampling Methods (Wk 5)	14.00 %
<b>Final Term Project</b>	<b>20.00 %</b>
Final Term Project	20.00 %

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## Materials

**Book Title:** Air Quality, 5th ed. - E-book available in the APUS Online Library

**Author:** Godish, Davis, Fu

**Publication Info:** Taylor & Francis

**ISBN:** 9781466584440

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**Book Title:** To find the library e-book(s) req'd for your course, please visit <http://apus.libguides.com/er.php> to locate the eReserve by course #. You must be logged in to eCampus first to access the links.

**Author:** N/A

**Publication Info:** N/A

**ISBN:** N/A

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## Course Guidelines

### Citation and Reference Style

- Attention Please: Students will follow the APA Format as the sole citation and reference style used in written work submitted as part of coursework to the University. Assignments completed in a narrative essay or composition format must follow the citation style cited in the APA Format.

### Tutoring

- [Tutor.com](http://www.tutor.com) offers online homework help and learning resources by connecting students to certified tutors for one-on-one help. AMU and APU students are eligible for 10 free hours\* of tutoring provided by APUS. Tutors are available 24/7 unless otherwise noted. Tutor.com also has a SkillCenter Resource Library offering educational resources, worksheets, videos, websites and career help.

Accessing these resources does not count against tutoring hours and is also available 24/7. Please visit the APUS Library and search for 'Tutor' to create an account.

## **Late Assignments**

- Students are expected to submit classroom assignments by the posted due date and to complete the course according to the published class schedule. The due date for each assignment is listed under each Assignment.
- Generally speaking, late work may result in a deduction up to 15% of the grade for each day late, not to exceed 5 days.
- As a working adult I know your time is limited and often out of your control. Faculty may be more flexible if they know ahead of time of any potential late assignments.

## **Turn It In**

- Faculty may require assignments be submitted to Turnitin.com. Turnitin.com will analyze a paper and report instances of potential plagiarism for the student to edit before submitting it for a grade. In some cases professors may require students to use Turnitin.com. This is automatically processed through the Assignments area of the course.

## **Academic Dishonesty**

- Academic Dishonesty incorporates more than plagiarism, which is using the work of others without citation. Academic dishonesty includes any use of content purchased or retrieved from web services such as CourseHero.com. Additionally, allowing your work to be placed on such web services is academic dishonesty, as it is enabling the dishonesty of others. The copy and pasting of content from any web page, without citation as a direct quote, is academic dishonesty. When in doubt, do not copy/paste, and always cite.

## **Submission Guidelines**

- Some assignments may have very specific requirements for formatting (such as font, margins, etc) and submission file type (such as .docx, .pdf, etc) See the assignment instructions for details. In general, standard file types such as those associated with Microsoft Office are preferred, unless otherwise specified.

## **Disclaimer Statement**

- Course content may vary from the outline to meet the needs of this particular group.

## **Communicating on the Forum**

- Forums are the heart of the interaction in this course. The more engaged and lively the exchanges, the more interesting and fun the course will be. Only substantive comments will receive credit. Although there is a final posting time after which the instructor will grade comments, it is not sufficient to wait until the last day to contribute your comments/questions on the forum. The purpose of the forums is to actively participate in an on-going discussion about the assigned content.
- “Substantive” means comments that contribute something new and hopefully important to the discussion. Thus a message that simply says “I agree” is not substantive. A substantive comment contributes a new idea or perspective, a good follow-up question to a point made, offers a response to a question, provides an example or illustration of a key point, points out an inconsistency in an argument, etc.
- As a class, if we run into conflicting view points, we must respect each individual's own opinion. Hateful and hurtful comments towards other individuals, students, groups, peoples, and/or societies will not be tolerated.

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## **University Policies**

## [Student Handbook](#)

- [Drop/Withdrawal policy](#)
- [Extension Requests](#)
- [Academic Probation](#)
- [Appeals](#)
- [Disability Accommodations](#)

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