# 495 Course Syllabus

<table>
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<tr>
<th>Syllabus</th>
<th>Current Schedule</th>
<th>List of Past Seminar Series</th>
<th>Comments</th>
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<tr>
<td><strong>Course Description:</strong></td>
<td>This course is presented in seminar form. The speakers are invited from a variety of different disciplines ranging from government and industry to academy. Some of the invitees are lawyers and administrators of environmental firms who can share their experiences in the making of environmental law and policies.</td>
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<td><strong>Co-requisite:</strong></td>
<td>None</td>
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<td><strong>Materials:</strong></td>
<td>Speakers may supply reference materials in PowerPoint or hard copy, or suggest supplementary readings.</td>
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| **Topics:** | 1. Hazardous Waste Management  
2. Biodegradation of environmental pollutants  
3. Groundwater problems  
4. Waste minimization  
5. Energy resources  
6. Air pollution control | | |
| **Course Objectives:** | (1) To understand the scope of environmental engineering  
**Outcomes:** The student will be knowledgeable about:  
- Environmental Sciences—chemistry, physics, mathematics, microbiology, ecology, geology, etc  
- Related engineering—fluid mechanics, mechanical engineering, power engineering, water resource energy, etc.  
- Borderline disciplines—environmental law, environmental health, environmental epidemiology, public policy, etc.  
(2) To be familiar with the job and role of an environmental engineer:  
**Outcomes:** The student will learn about the working experience in the fields of:  
- Government—city, county, state, and federal | | |
(3) To learn about the pressing problems and developments in environmental engineering:

**Outcomes:** To be exposed to the principles and case studies of:
- Air quality and pollution control
- Energy sources
- Biodegradation and waste minimization
- Natural waste systems
- Remediation and soil pollution
- Biological treatment processes

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<tr>
<th>Class Schedule:</th>
<th>Friday 1-2 PM</th>
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<tbody>
<tr>
<td>Laboratory:</td>
<td>None</td>
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<tr>
<td>Contribution of Course to Meeting the Professional Component:</td>
<td>Engineering Science: 1 unit or 100%</td>
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