Environmental Management Options for Animal Agriculture

Instructors:
Dr. Harold Keener, Jon Rausch
Ohio State University

Course Prerequisites:
• Jr., Sr. Engineering or Graduate
• Or by permission of professor

Description:
Develop and design manure handling and storage facilities for modern animal production facilities including visits to existing facilities

Credits : 4

For More Information:
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A focus on sustainable approaches to agricultural and watershed management at the rural/suburban interface

Undergraduate and Graduate Biological and Agricultural Engineering

Michigan State University
Ohio State University
Purdue University
Central State University
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Instructor</th>
<th>Course Prerequisites</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Agricultural Air Quality Engineering</strong></td>
<td>Dr. Lingying Zhao</td>
<td>- Jr. Engineering or above</td>
<td>Fundamentals of air quality and selection and design of air pollution mitigation options for animal production facilities</td>
<td>4</td>
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<tr>
<td></td>
<td>Dr. William Northcott, Mr. Steve</td>
<td>- Hydrology and Hydraulics</td>
<td>Evaluate and design management practices using water quality and quantity models at the suburban/rural interface</td>
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<td></td>
<td>Miller, P.E.</td>
<td>- Major water quality issues</td>
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<td>- Show competency through examination</td>
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<tr>
<td><strong>Suburban/Rural Watershed Interface Management</strong></td>
<td>Larry Stephens P.E., Dr. Ted</td>
<td>- Microbiology or Biochemistry</td>
<td>An overview of decentralized wastewater treatment systems and how they relate to sustainable wastewater management infrastructure</td>
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<td>Loudon</td>
<td>- Fluid Mechanics</td>
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<td>- Fundamentals of Soil Science</td>
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<tr>
<td><strong>Design and Management of Decentralized Wastewater Systems</strong></td>
<td>Larry Stephens P.E., Dr. Ted</td>
<td>- Microbiology or Biochemistry</td>
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What is ECOSEAM?

The Educational Collaborative on Sustainable Environmental and Agricultural Management is a partnership between multiple institutions to offer technical courses in the area of agricultural and watershed engineering. Students will gain knowledge and practical experience through class and professional mentoring. This program will prepare students for careers in the public policy, land use planning, and primarily environmental engineering.