OCCUPATIONAL SAFETY & ENVIRONMENTAL HEALTH, B.S.

The OSEH program is designed for persons interested in the safety, industrial hygiene and environmental health professions. OSEH includes general education studies, with emphasis on the sciences and core studies in the technical and managerial aspects of industrial safety and hygiene. An internship is required in industry or in an insurance or government agency. Continuous improvement of the program is guided by an advisory committee of safety professionals. Graduates of this program typically work as safety and health managers, industrial hygienists, loss-control consultants, compliance officers and environmental safety specialists. The OSEH minor should be an attribute to majors in biology, business administration, chemistry, applied engineering and technology management, political science and nursing. OSEH is nationally accredited by the Accreditation Board for Engineering and Technology (ABET).

### Major in Occupational Saf & Env Health, BS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>OSEH 120</td>
<td>Fundamentals of Safety, Health, Environmental Issues</td>
<td>3</td>
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<td>OSEH 220</td>
<td>Legal Aspects Environmental Safety</td>
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<td>OSEH 221</td>
<td>Industrial Fire Prevention, Protection and Control</td>
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<td>OSEH 320</td>
<td>Safety Engineering Principles</td>
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<td>OSEH 321</td>
<td>Environmental &amp; Industrial Hygiene I - Chemical and Biological Hazards</td>
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<td>OSEH 323</td>
<td>Human Factors in OSEH</td>
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<td>OSEH 333</td>
<td>Introduction to System Safety</td>
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<td>OSEH 410</td>
<td>Safety and Hygiene Management</td>
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<td>Environmental &amp; Industrial Health II - Physical Hazards</td>
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<td>OSEH 430</td>
<td>Topics in Occupational Safety &amp; Environmental Health</td>
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<td>OSEH 435</td>
<td>Environmental Health</td>
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<td><strong>Total Hours</strong></td>
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### Req Related for Occupatnl Safety & Env. Health

**MATHEMATICS**

- Statistics Course - Choose 1 of the following:
  - MATH 130  Elements of Statistics 1
  - MATH 235  Survey of Statistics
  - ECON 231  Applied Statistics 1
- Calculus - Choose 1 of the following:
  - MATH 151  Calculus for Management
  - MATH 160  Precalculus
  - MATH 161  Calculus 1
  - MATH 211  Calculus 2

**BIOLOGY AND CHEMISTRY**

- BIOL 100  General Biology

### Chemistry I - Choose 1 of the following:

- CHEM 103  Gen Organic and Biochemistry 1
- CHEM 111  Introductory Chemistry 1
- CHEM 231  Organic Chemistry 1

### Chemistry II - Choose 1 of the following:

- CHEM 104  Gen Organic and Biochemistry 2
- CHEM 112  Introductory Chemistry 2
- CHEM 232  Organic Chemistry 2

**PHYSICS AND INDUSTRIAL TECHNOLOGY**

- AENG 130  Production Materials & Processes
- AENG 392  Intro to Industrial Training

### Physics Options - Choose 1 of the following options 1-2:

- Option 1. Physics Elective and Energy Power Systems - See Appendix 1
- Option 2. Physics Courses
  - PHYS 131  Physics 1 with Algebra & PHYS 132  and Physics 2 with Algebra

**Total Hours** 36-39

### Appendix 1. Physics Elective and Energy & Power Systems

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<td>Energy Systems</td>
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<td>PHYS Elective - Choose 1 of the following:</td>
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<td>PHYS 103</td>
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<td>PHYS 131</td>
<td>Physics 1 with Algebra</td>
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Occupational Safety & Environmental Health, B.S. 1