Building Energy Systems Minor

The students seeking Minor in Building Energy Systems must satisfy the degree requirements for an ME, MET, CE, CET, EE or Arch degree plus the following courses to obtain a Minor in Building Energy Systems. Montana State University, Bozeman, proposes to offer a non-teaching minor in building energy systems called the Building Energy Systems Minor. This minor provides a suite of courses from a wide variety of disciplines, which are relevant to the built environment.

The Building Energy Systems Minor requires a minimum of 22 credits, 8 credits of required core coursework and 14 credits of elective coursework chosen from each of the 5 categories.

<table>
<thead>
<tr>
<th>Core Coursework</th>
<th>8</th>
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<tbody>
<tr>
<td>EGEN 324</td>
<td>Applied Thermodynamics</td>
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<tr>
<td>EMEC 321</td>
<td>Thermodynamics II</td>
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<tr>
<td>ETME 321</td>
<td>Applied Heat Transfer</td>
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<tr>
<td>EMEC 326</td>
<td>Fundamentals of Heat Transfer</td>
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<tr>
<td>ETME 327</td>
<td>Commercial Building Energy Assessment Lab</td>
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<tr>
<td>ETME 424</td>
<td>Thermal Processes Lab</td>
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</table>

Integrated Building Design 3-5
Choose one from the following:
- ETME 423 Principles of HVAC II
- ARCH 431 Sustainability in Architecture

Power Systems 3-4
Choose one from the following:
- EELE 250 Circuits, Devices and Motors
- EELE 354 Electric Power Applications
- EELE 355 Energy Conversion Devices
- EELE 408 Photovoltaic Systems
- EELE 454 Power Systems Analysis and Design
- EELE 455 Alternative Energy Power Gen
- ETME 470 Renewable Energy Applications

Environmental Controls/HVAC 3-4
Choose one from the following:
- ARCH 331 Environmental Controls I
- ETME 422 Principles of HVAC I
- ETME 425 Building Systems

Building Construction/Design 3-4
Choose one from the following:
- ARCH 241 Building Construction I
- ECIV 308 Construction Practice
- ECIV 320 Geotechnical Engineering

Building Information Modeling 2-3
Choose one from the following:
- ARCH 363 Architectural Graphics III
- ECIV 309 Building Information Modeling in Construction
- ETME 309 Building Information Modeling in MEP

Total credits for Building Energy Systems Minor 22 (min. credits)
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.