Agricultural and Biosystems Engineering

Department Information

- **Department Location:** Agricultural and Biosystems Engineering
- **Department Phone:** 701-231-7261
- **Department Email:** ndsu.asm@ndsu.edu
- **Department Web Site:** www.ndsu.edu/aben/ (http://www.ndsu.edu/aben/)
- **Credential Offered:** B.S.A.B.En.
- **Plan Of Study Sample:** bulletin.ndsu.edu/programs-study/undergraduate/agricultural-biosystems-engineering/ (http://bulletin.ndsu.edu/programs-study/undergraduate/agricultural-biosystems-engineering/)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ABEN 444</td>
<td>Transport Processes</td>
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<td>ABEN 452</td>
<td>Bioenvironmental Systems Design</td>
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<td>ABEN 458</td>
<td>Process Engineering for Food, Biofuels and Bioproducts</td>
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<td>ABEN 464</td>
<td>Resource Conservation and Irrigation Engineering</td>
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<tr>
<td>ABEN 484</td>
<td>Drainage and Wetland Engineering</td>
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**Advanced Biosciences Electives - 9 credits required. Students may double count with other program electives. A minimum of 3 credits must be from non-ABEN prefix courses in the Advanced Biosciences tab.**

**ABEN Courses (Eligible for Adv. Biosci.)**

- ABEN 444 Transport Processes
- ABEN 452 Bioenvironmental Systems Design
- ABEN 456 Biobased Energy
- ABEN 458 Process Engineering for Food, Biofuels and Bioproducts
- ABEN 464 Resource Conservation and Irrigation Engineering
- ABEN 484 Drainage and Wetland Engineering

**Engineering Electives (Eligible for Adv. Biosci.)**

- CE 370 Introduction to Environmental Engineering
- CE 371 Environmental Engineering Laboratory

**CHEM/BIO Electives (Eligible for Adv. Biosci.)**

- ANSC 357 Animal Genetics
- BIOC 260 Elements of Biochemistry
- BIOC 473 Methods of Biochemical Research
- BIOC 474 Methods of Recombinant DNA Technology
- BIOL 364 General Ecology
- CHEM 240 Survey of Organic Chemistry
- CHEM 341 Organic Chemistry I
- CHEM 341L Organic Chemistry I Laboratory
- CHEM 342 Organic Chemistry II
- CHEM 342L Organic Chemistry II Laboratory
- MICR 350 General Microbiology
- MICR 350L General Microbiology Lab
- MICR 352 General Microbiology II
- MICR 352L General Microbiology Lab II
- MICR 452 Microbial Ecology