Animal and Biomedical Industries (ABI) Checklist (2017 Catalog)
This checklist is intended as a guide and is not an official document.

Graduation Requirements

Total Units: _____/120
Upper Division Units: _____/42
4 year institution Units: _____/56
Cumulative GPA:
Major GPA:
Mid Career-Writing Assessment:
Minor:
Minor GPA:
Remaining Minor Courses:
Honors:
Remaining Honors Units:

General Education Requirements

Foundations

______ MATH 112 College Algebra or higher
______ ENGL101/102 or ENGL 109H
______ Foreign Language: 1-2 semesters depending on placement or 1 year proficiency required (included SERP 370a AND 370b)

Core Curriculum Tier One (12 units)

______ and _______ Individuals and Societies (2 courses from 150a, 150b or 150c)
______ and _______ Traditions and Cultures (2 courses from 160a, 160b, 160c or 160d)

Core Curriculum Tier Two (9 units)

______ and _______ Arts (3 units)
______ and _______ Humanities (3 units)
______ and _______ Individuals and Societies (3 units)
(ECON 200 counts towards the major and not towards this requirement).
______ Diversity Emphasis Course

For more information contact:
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*If you test out of Math 112, you are not eligible to take this course.

ABI BS Requirements

Supporting Coursework

______ Communications 3 units
(AGTM 422 or Comm. 101 or 119)
______ General Biology I 4 units
(MCB 181R and MCB 181L or MCB 184)
______ General Biology II 4 units
(ECOL 182R and ECOL 182L)
______ General Microbiology 4 units
(MIC 205a and MIC 205L)
______ Fundamentals of Biochemistry 3 units
(BIOC 384)
______ Metabolic Biochemistry 3 units
(BIOC 385)
______ Statistics 3-4 units
(MATH 263 or 163, SBS 200, PSY 230* and ISTA 116)
______ General Physics I 4 units
(PHYS 102 and 181)
______ General Physics II 4 units
(PHYS 103 and 182)
______ Economics 3 units
(ECON 200 or 201a)
______ General Chemistry I 4 units
(CHEM 151)
______ General Chemistry II 4 units
(CHEM 152)
______ Organic Chemistry I 4 units
(CHEM 241A AND CHEM 243A)
______ Organic Chemistry I 4 units
(CHEM 241B AND CHEM 243b)

Major Core Courses (30 units)

Fall Courses:
______ ACBS 464A Physical Science for One Health (3)
______ ACBS 466 Principles of Disease (3)
______ ACBS 467 Computation in Biomedicine (3)
______ ACBS 468A Bio-economy, Marketing, & Business Principles (3)
______ ACBS 469A Ethology, Evolution, Ethics, & Animal Handling (3)

Spring Courses:
______ ACBS 464B Physical Science for One Health (3)
______ ACBS 470 Interactions of Animals, Humans and Ecosystems (3)
______ ACBS 468B Bio-economy, Marketing, & Business Principles (3)
______ ACBS 469B Ethology, Evolution, Ethics, & Animal Handling (3)
______ ACBS 471 Risk Assessment, Management and Communication (3)

Major Core Electives (See Page 2, min. 11 units)

__________________________________________
__________________________________________
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Animal and Biomedical Industries’ Electives

To complete your major electives complete ≥ 11 units.
**Up to 3 units of independent Study (ACBS 399/499), Internship (ACBS 493), or Preceptorship (ACBS 491) can be counted as elective units.

<table>
<thead>
<tr>
<th>Term</th>
<th>Courses</th>
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<tbody>
<tr>
<td>Fall</td>
<td>ACBS 380 Food Safety and Microbiology (4) L</td>
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<td>ACBS 403R Biology of Animal Parasites (3)</td>
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<td>ACBS 410 Animal Toxicology (3)</td>
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<td>ACBS 419 Immunology (4)</td>
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<td>MIC 420 Pathogenic Bacteriology (3)</td>
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<td>ACBS 443 Research Animal Methods (3)</td>
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<td>ACBS 449 Diseases of Wildlife (3)</td>
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<td>MIC 452 Antibiotics: A Biological Perspective</td>
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<td>ACBS 491 Preceptorship (1-3)</td>
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<td>ACBS 492 Directed Research (1-6)</td>
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<td>ACBS 493 Internship (1-3)</td>
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<td>ACBS 399/499 Independent Study (1-3)</td>
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<tr>
<td>Spring</td>
<td>ACBS 317 One Health: A Microbial Perspective (3)</td>
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<td>ACBS 405 Principles of Livestock Health Management (3)</td>
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<td>ACBS 406 Companion Animal Diseases (3)</td>
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<td>ACBS 423 Mechanisms of Disease (3)</td>
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<td>MIC 430 Food Microbiology and Biotechnology (3)</td>
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<td>MIC 433 Medical and Molecular Virology (4)</td>
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<td>ACBS 438 Ecology of Infectious Disease (3)</td>
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<td>ACBS 457 Medical-Veterinary Entomology</td>
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*****When picking your major electives please consult with your major advisor to ensure that you are aware of all course possibilities and are meeting the prerequisites for the courses.****