BSAB in Applied Biotechnology

http://students.caes.uga.edu/undergraduate/majors/applied-biotechnology.cfm

<table>
<thead>
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<th>YEAR ONE</th>
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<tbody>
<tr>
<td><strong>Fall Courses</strong></td>
<td><strong>Hours</strong></td>
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<tr>
<td>ENGL 1101 English Composition I</td>
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<tr>
<td>CHEM 1211-1211L Freshman Chemistry I</td>
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<tr>
<td>MATH 1113 Precalculus or General Elective</td>
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<tr>
<td>World Languages and Culture (Gen Ed IV)</td>
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<td>FYOS 1001 First Year Odyssey Seminar</td>
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<td><strong>Spring Courses</strong></td>
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<tr>
<td>ENGL 1102 English Composition II</td>
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<tr>
<td>CHEM 1212-1212L Freshman Chemistry II</td>
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<tr>
<td>MATH 2200 Analytic Geometry and Calculus</td>
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<td><strong>Fall Courses</strong></td>
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<tr>
<td>World Languages and Culture (Gen Ed IV)</td>
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<tr>
<td>AAEC 2580 Applied Microeconomic Principles or PHIL 2400 Philosophy, Science, and Nature</td>
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<tr>
<td>BIOL 1107-1107L Principles of Biology I</td>
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<td>CHEM 2211-2211L Modern Organic Chemistry II</td>
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<td>PHIL 2020 Logic and Critical Thinking</td>
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<td>HIST 2111 or 2112 American History</td>
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<td>BIOL 1108-1108L Principles of Biology II</td>
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<td>POLS 1101 American Government</td>
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<td>BCMB 3100 Intro Biochemistry &amp; Molecular Biology</td>
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<td>PHYS 1111/1112-1111L/1112L Introductory Physics: Mechanics, Waves, Thermodynamics / Electricity &amp; Magnetism, Optics, Modern Physics</td>
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<td><strong>Spring Courses</strong></td>
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<td>CBIO(BIOL) 3400 Cell Biology</td>
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<td>GENE(BIOL) 3200 Genetics</td>
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<td><strong>Fall Courses</strong></td>
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<td>Laboratory Requirement²</td>
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<tr>
<td>BTEC(AGCM) 3000 Ethics and Comm in Biotechnology</td>
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<tr>
<td>BTEC 3910 Internship in Applied Biotech or BTEC 3990 Independent Research in Applied Biotech</td>
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<td>MIBO 3500 Introductory Microbiology</td>
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<td>Quantitative Reasoning Course (Gen Ed III)</td>
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<td>BCMB(ENTO)(BTEC) 4200 Biotechnology</td>
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<td>BTEC(BCMB)(PBIO) 4000L Methods in Biotechnology</td>
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<td>General Elective (2)</td>
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Total Hours Over 4-Year Academic Period | 121
1 Select 16-19 hours from area of emphasis (below).

### Plant Science Emphasis

**Choose 16-19 hours:**

### Animal Science Emphasis

**Choose 16-19 hours:**
ADSC 3110 Intro to Genetics of Livestock Improvement, ADSC 3300 Animal Nutrition and Metabolism, ADSC 3400 Physiology of Reproduction in Domestic Animals, ADSC 4100/6100 Advanced Genetics of Livestock Improvement, ADSC 4410/6410-4410L/6410L Applied Reproductive Management in Cattle and Swine, ANNU(ADSC)(POUL) 4370/6370 Monogastric Nutrition, CBIO 4500/6500 Medical Parasitology, CBIO 4730/6730 Endocrinology, CBIO(BIOL) 3300 Developmental Biology, CBIO(BIOL) 3410L Lab in Cellular and Developmental Biology, CBIO(MIBO)(IDIS) 4100/6100 Immunology, ENTO 3650-3650L Medical Entomology, POUL 3720 Poultry Breeding, POUL 4050/6050 Advanced Poultry Breeding, POUL 4330/6330 Basic Mycotoxicology, POUL(BIOL) 4060/6060 Reproductive Endocrinology

### Food Science And Technology Emphasis

**Choose 16-19 hours:**

### Applied Economics Emphasis

**Choose 16-19 hours:**
Laboratory Requirement:

Choose one course from the following:
CBIO(BIOL) 3410L Laboratory in Cellular and Developmental Biology, GENE(BIOL) 3210L Experimental Genetics, MIBO 4600L/6600L Experimental Microbiology Laboratory, PBIO(BIOL) 3240L Bioinformatic and Experimental Genome Analysis, PBIO(BIOL) 3250L The Dynamic Genome: Introduction to Bioinformatic and Experimental Research.