BIOMEDICAL SCIENCE, BS

Bachelor of Science in Biomedical Science (390002BS)

More on the Biomedical Science major (https://www.uakron.edu/biology/academics/undergraduate-major-information/biology-undergraduate-degree.dot)

Requirements Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements (<a href="https://bulletin.uakron.edu/undergraduate/general-education">https://bulletin.uakron.edu/undergraduate/general-education</a>)</td>
<td>34</td>
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<tr>
<td></td>
<td>Biology Requirements</td>
<td>34</td>
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<tr>
<td></td>
<td>Chemistry Requirements</td>
<td>25</td>
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<tr>
<td></td>
<td>Math and Physics Requirements</td>
<td>16</td>
</tr>
<tr>
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<td>Program Requirements</td>
<td>12</td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
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Recommended General Education Courses

Students pursuing a bachelor's degree must complete three tiers of General Education coursework. Tiers I and II provide students with foundational skills and breadth of disciplinary knowledge. Tier III courses require students to integrate knowledge, understand diverse perspectives, and think critically about complex issues. Courses tagged for Tier III may also fulfill major or Disciplinary Area requirements.

Students are not required to enroll in the specific courses listed below. However, to facilitate successful degree completion, the academic department strongly encourages completion of the following recommendations.

**Tier I: Academic Foundations**

- **Quantitative Reasoning**: 3 credit hours
  - 3450:221 Analytic Geometry-Calculus I

- **Speaking**: 3 credit hours
  - 7600:105 Introduction to Public Speaking
  - or 7600:106 Effective Oral Communication

- **Writing**: 6 credit hours
  - 3300:111 English Composition I
  - 3300:112 English Composition II

**Tier II: Disciplinary Areas**

- **Arts/Humanities**: 9 credit hours
  - Natural Sciences: 7 credit hours
  - Social Sciences: 6 credit hours
  - 3750:100 Introduction to Psychology
  - 3850:100 Introduction to Sociology

**Tier III: Tagged Courses**

Select one class from each of the following subcategories:

- Complex Systems
- Biomedical Ethics
- Critical Thinking

Domestic Diversity

3850:100 Introduction to Sociology

Global Diversity

Review the General Education Requirements page for detailed course listings.

Total Hours 34

College of Arts & Sciences Requirements

<table>
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<tr>
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<th>Hours</th>
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<tbody>
<tr>
<td>3100:111</td>
<td>Principles of Biology I</td>
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<tr>
<td>3100:112</td>
<td>Principles of Biology II</td>
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<td>3100:211</td>
<td>General Genetics</td>
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<td>3100:212</td>
<td>Genetics Laboratory</td>
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<td>3100:316</td>
<td>Evolutionary Biology</td>
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<td>3100:363</td>
<td>Foundations of Physiology I</td>
<td>3</td>
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<tr>
<td>3100:364</td>
<td>Foundations of Physiology Laboratory I</td>
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<td>3100:485</td>
<td>Cell Physiology</td>
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<td>3100:486</td>
<td>Cell Physiology Laboratory</td>
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<td>3100:3xx/4xx</td>
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Chemistry Requirements

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<tr>
<td>3150:151</td>
<td>Principles of Chemistry I</td>
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<td>3150:152</td>
<td>Principles of Chemistry I Laboratory</td>
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<td>3150:153</td>
<td>Principles of Chemistry II</td>
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<td>3150:154</td>
<td>Qualitative Analysis</td>
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<td>3150:263</td>
<td>Organic Chemistry Lecture I</td>
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<td>3150:265</td>
<td>Organic Chemistry Laboratory I</td>
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<td>3150:264</td>
<td>Organic Chemistry Lecture II</td>
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<td>3150:266</td>
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<td>3150:402</td>
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Math and Physics Requirements

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<tr>
<td>3450:221</td>
<td>Analytic Geometry-Calculus I</td>
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<td>3470:261</td>
<td>Introductory Statistics I</td>
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<td>3470:262</td>
<td>Introductory Statistics II</td>
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<tr>
<td>3650:261</td>
<td>Physics for Life Sciences I</td>
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3650:262  Physics for Life Sciences II  4

Total Hours  16

Program Requirements

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<tbody>
<tr>
<td>3230:309</td>
<td>Medicine &amp; the Humanities</td>
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<tr>
<td>3600:361</td>
<td>Biomedical Ethics</td>
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<tr>
<td>3750:100</td>
<td>Introduction to Psychology</td>
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<tr>
<td>3850:100</td>
<td>Introduction to Sociology</td>
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Total Hours  12