Biological Sciences, BS - Biochemistry Concentration

Biological Sciences, Biochemistry Concentration, BS Requirements:

• All students are encouraged to see an advisor after completion of 24 credits.
• Biological Sciences, Biochemistry concentration BS degree requires 128 credit hours.
• 39 of 128 credit hours must be taken at 300 level or higher (39 credits includes courses taken at the 300+ level in major, minor (if chosen), Pre professional area and electives).
• 12 credit hours of 300 level and above must be taken in the major or 6 credit hours in the major and 6 credit hours in the minor (if chosen).
• 12 of the last 18 credit hours must be taken at UAH, with an overall 25% of coursework taken at UAH.
• Unless otherwise noted a C- or better is required for all College of Science prerequisite courses.
• No more than 64 credit hours from a two-year college can be applied toward a UAH degree.
• For graduation application instructions, see [here](http://catalog.uah.edu/undergrad/policies-procedures/application-graduation/).

Degree Requirements

Charger Foundations Requirements

*Please see Area V for CoS requirements that can also be used to fulfill Charger Foundations Requirements.

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<td>PRECALCULUS ALGEBRA &amp; TRIG</td>
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**Natural Sciences (Lab)**

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<td>AST 106</td>
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<td>AST 107</td>
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<td>BYS 120</td>
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<td>BYS 215</td>
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<td>ESS 111</td>
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**History**

**Social and Behavioral Sciences**

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<td>PRINCIPLES OF HUMAN GEOGRAPHY</td>
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* Take either 1 EH (Area II) + 2 HY (Area IV) <OR> 2 EH (Area II) + 1 HY (Area IV). Take no more than six hours in a single discipline in Area II or Area IV.

**Area V: Pre Professional Requirements**

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**Computer Programming - choose one:**

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Biological Sciences, BS - Biochemistry Concentration

- or CS 102 INTRO TO C PROGRAMMING
- or CS 103 INTRO PROGRAMMING USING JAVA
- or CS 104 INTRO TO CS USING PYTHON

### Technical Writing
- EH 301 TECHNICAL WRITING 3

#### Major Requirements

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#### Biochemistry Concentration Requirements
- BYS 321 & 321L | GENERAL MICROBIOLOGY I and LABORATORY |
- BYS 361 | GENERAL BIOCHEMISTRY |
- BYS 363 & BYS 365 | GEN BIOCHEMISTRY II and GEN BIOCHEMISTRY LAB II |

Chemistry Elective courses 300+ level (7 credits)

### Chemistry Minor Requirements (this minor is required for this concentration)

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### Elective Requirements

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Additional elective courses, 100+ level, to reach 128 credits. Electives can be taken from any department and do not have to be taken in your major or minor. No more than 4 credits of 100 level HPE courses can count toward degree requirements.

### Overall Requirements
All College of Science degrees must have at least 128 credits.
At least 39 of the 128 credits must be at the 300+ level. These may be taken in any area including electives.

Sample four year plan for Biological Sciences, Biochemistry Concentration BS degree:

Note: This is only an example and variations are possible.

**Year 1**

**Fall**

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Term Semester Hours: 16

**Spring**

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Electives can be taken from any department and do not have to be taken in your major or minor. No more than 4 credit hours of 100 level HPE courses can count toward degree requirements.

Term Semester Hours: 16

**Year 2**

**Fall**

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<tr>
<td>BYS 219 &amp; 219L &amp; 219R</td>
<td>GENETICS AND EVOLUTION and LABORATORY and RECITATION</td>
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<tr>
<td>CH 223 &amp; CH 224</td>
<td>QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB</td>
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Literature

See Requirements tab for approved list.

Fine Art

See Requirements tab for approved list.

Social/Behavioral Science

3
See Requirements tab for approved list.

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<tr>
<th>Term</th>
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<tr>
<td>Spring</td>
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<tr>
<td>BYS 300 &amp; 300L</td>
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<td>CH 331 &amp; CH 335</td>
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<td>PH 111 &amp; PH 114</td>
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<td>Humanities, 2nd Fine Art or 2nd Literature</td>
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<td>PH 112 &amp; PH 115</td>
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<td>History</td>
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<td>BYS 321 &amp; 321L</td>
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<td>Electives can be taken from any department and do not have to be taken in your major or minor. No more than 4 credit hours of 100 level HPE courses can count toward degree requirements.</td>
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<td>&amp; BYS 365</td>
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<td>BYS 490</td>
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