Bachelor of Science - Engineering Technology Concentration

Bachelor of Professional Studies degree requires 120 hours:

- A minimum of 36 of 120 credit hours must be taken at the 300 level or higher; 6 credit hours must be taken at the 400 level.
- A minimum of 25% of the total requirements and 12 of the last 18 hours must be completed at UAH.
- No more than 60 credit hours from a 2-year or community college can be applied toward the BPS degree.
- A minimum GPA of 2.0 is required for all courses taken at UAH and is the minimum requirement for graduation.
- Students will work with the BPS Academic Success Specialist to learn how their transfer credits can apply toward this program of study.

Charger Foundations (General Education Requirements)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Area I: Freshman Composition</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EH 101</td>
<td>COLLEGE WRITING I</td>
<td>3-6</td>
</tr>
<tr>
<td>or EH 101S</td>
<td>COLLEGE WRITING I W/STUDIO</td>
<td></td>
</tr>
<tr>
<td>EH 102</td>
<td>COLLEGE WRITING II</td>
<td></td>
</tr>
<tr>
<td>EH 103</td>
<td>ACCELERATED COLLEGE WRITING</td>
<td></td>
</tr>
<tr>
<td>EH 105</td>
<td>HONORS ENGLISH SEMINAR</td>
<td></td>
</tr>
<tr>
<td><strong>Area II: Humanities and Fine Arts</strong></td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARH 100</td>
<td>ARH SURV: ANCIENT-MEDIEVAL</td>
<td>3</td>
</tr>
<tr>
<td>ARH 101</td>
<td>ARH SURV: RENAISSANCE-MODERN</td>
<td></td>
</tr>
<tr>
<td>ARH 103</td>
<td>ARH SUR: WORLD ART</td>
<td></td>
</tr>
<tr>
<td>ARS 160</td>
<td>DRAWING: FOUNDATIONS</td>
<td></td>
</tr>
<tr>
<td>TH 122</td>
<td>THEATRE APPRECIATION</td>
<td></td>
</tr>
<tr>
<td>TH 123</td>
<td>INTRO TO FILM STUDIES</td>
<td></td>
</tr>
<tr>
<td>MU 100</td>
<td>INTRO TO MUSIC LITERATURE</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EH 207</td>
<td>READINGS LITERATURE/CULTURE I</td>
<td>3-6</td>
</tr>
<tr>
<td>EH 208</td>
<td>READINGS LITERATURE/CULTURE 2</td>
<td></td>
</tr>
<tr>
<td>EH 209</td>
<td>HONORS SEM READINGS LIT/CUL I</td>
<td></td>
</tr>
<tr>
<td>EH 210</td>
<td>HONORS SEM READINGS LIT/CUL 2</td>
<td></td>
</tr>
<tr>
<td>EH 242</td>
<td>MYTHOLOGY</td>
<td></td>
</tr>
<tr>
<td>Humanities and Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CM 113</td>
<td>Intro to Rhetorical Communication</td>
<td>3-6</td>
</tr>
<tr>
<td>WLC 101S</td>
<td>INTRO FOREIGN LANG I: SPANISH</td>
<td></td>
</tr>
<tr>
<td>or WLC 101A</td>
<td>INTRO FOREIGN LANG I: ARABIC</td>
<td></td>
</tr>
<tr>
<td>or WLC 101F</td>
<td>INTRO FOREIGN LANG I: FRENCH</td>
<td></td>
</tr>
<tr>
<td>or WLC 101G</td>
<td>INTRO FOREIGN LANG I: GERMAN</td>
<td></td>
</tr>
<tr>
<td>or WLC 101J</td>
<td>INTRO FOREIGN LANG I: JAPANESE</td>
<td></td>
</tr>
<tr>
<td>or WLC 101R</td>
<td>INTRO FOREIGN LANG I: RUSSIAN</td>
<td></td>
</tr>
<tr>
<td>WLC 102S</td>
<td>INTRO FOREIGN LANG II: SPANISH</td>
<td></td>
</tr>
<tr>
<td>or WLC 102A</td>
<td>INTRO FOREIGN LANG II: ARABIC</td>
<td></td>
</tr>
<tr>
<td>or WLC 102F</td>
<td>INTRO FOREIGN LANG II: FRENCH</td>
<td></td>
</tr>
<tr>
<td>or WLC 102G</td>
<td>INTRO FOREIGN LANG II: GERMAN</td>
<td></td>
</tr>
<tr>
<td>or WLC 102J</td>
<td>INTRO FOREIGN LANG II: JAPANESE</td>
<td></td>
</tr>
<tr>
<td>or WLC 102R</td>
<td>INTRO FOREIGN LANG II: RUSSIAN</td>
<td></td>
</tr>
<tr>
<td>WLC 201S</td>
<td>INTERM FOREIGN LANG: SPANISH</td>
<td></td>
</tr>
<tr>
<td>or WLC 201A</td>
<td>INTERM FOREIGN LANG I: ARABIC</td>
<td></td>
</tr>
</tbody>
</table>
Bachelor of Science - Engineering Technology Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLC 201F</td>
<td>INTERM FOREIGN LANG: FRENCH</td>
</tr>
<tr>
<td>or WLC 201G</td>
<td>INTERM FOREIGN LANG: GERMAN</td>
</tr>
<tr>
<td>or WLC 201J</td>
<td>INTERM FOREIGN LANG: JAPANESE</td>
</tr>
<tr>
<td>or WLC 201R</td>
<td>INTERM FOREIGN LANG: RUSSIAN</td>
</tr>
<tr>
<td>WLC 202S</td>
<td>INTERM FOREIGN LANG II: SPANISH</td>
</tr>
<tr>
<td>or WLC 202A</td>
<td>INTERM FOREIGN LANG II: ARABIC</td>
</tr>
<tr>
<td>or WLC 202F</td>
<td>INTERM FOREIGN LANG II: FRENCH</td>
</tr>
<tr>
<td>or WLC 202G</td>
<td>INTERM FOREIGN LANG II: GERMAN</td>
</tr>
<tr>
<td>or WLC 202J</td>
<td>INTERM FORGN LANG II: JAPANESE</td>
</tr>
<tr>
<td>or WLC 202R</td>
<td>INTERM FOREIGN LANG II: RUSSIAN</td>
</tr>
<tr>
<td>WLC 204</td>
<td>INTERNATIONAL CINEMA</td>
</tr>
<tr>
<td>PHL 101</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
</tr>
<tr>
<td>PHL 102</td>
<td>INTRO TO ETHICS</td>
</tr>
<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO LOGIC</td>
</tr>
<tr>
<td>PHL 150</td>
<td>TECH, SCIENCE &amp; HUMAN VALUES</td>
</tr>
<tr>
<td>WGS 200</td>
<td>INTRO WOMENS &amp; GENDER STUDIES</td>
</tr>
<tr>
<td>AMS 229</td>
<td>ANCIENT &amp; MEDIEVAL WORLDS</td>
</tr>
<tr>
<td>ARH 100</td>
<td>ARH SURV: ANCIENT-MEDIEVAL</td>
</tr>
<tr>
<td>ARH 101</td>
<td>ARH SURV: RENAISSANCE-MODERN</td>
</tr>
<tr>
<td>ARH 103</td>
<td>ARH SUR: WORLD ART</td>
</tr>
<tr>
<td>ARS 160</td>
<td>DRAWING: FOUNDATIONS</td>
</tr>
<tr>
<td>TH 122</td>
<td>THEATRE APPRECIATION</td>
</tr>
<tr>
<td>TH 123</td>
<td>INTRO TO FILM STUDIES</td>
</tr>
<tr>
<td>MU 100</td>
<td>INTRO TO MUSIC LITERATURE</td>
</tr>
</tbody>
</table>

**Area III: Mathematics and Sciences**

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>11-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 105</td>
<td>NATURE OF MATHEMATICS</td>
</tr>
<tr>
<td>MA 107</td>
<td>ALGEBRA WITH APPLICATIONS</td>
</tr>
<tr>
<td>MA 110</td>
<td>FINITE MATHEMATICS</td>
</tr>
<tr>
<td>MA 112</td>
<td>PRECALCULUS ALGEBRA</td>
</tr>
<tr>
<td>MA 113</td>
<td>PRECALCULUS TRIGONOMETRY</td>
</tr>
<tr>
<td>MA 115</td>
<td>PRECALCULUS ALGEBRA &amp; TRIG</td>
</tr>
<tr>
<td>MA 120</td>
<td>MATH PROFESSIONAL APPLICATIONS</td>
</tr>
<tr>
<td>MA 171</td>
<td>CALCULUS A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Natural Sciences (Lab)</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 100</td>
<td>SURVEY OF ASTRONOMY</td>
</tr>
<tr>
<td>AST 106</td>
<td>EXPLORING THE COSMOS I</td>
</tr>
<tr>
<td>AST 107</td>
<td>EXPLORING THE COSMOS II</td>
</tr>
<tr>
<td>BYS 109</td>
<td>FUNDAMENTALS OF BIOLOGY</td>
</tr>
<tr>
<td>BYS 119</td>
<td>PRINCIPLES OF BIOLOGY</td>
</tr>
<tr>
<td>BYS 120</td>
<td>ORGANISMAL BIOLOGY</td>
</tr>
<tr>
<td>BYS 215</td>
<td>HUMAN ANATOMY &amp; PHYSIOLOGY I</td>
</tr>
<tr>
<td>CH 101 &amp; CH 105</td>
<td>INTRO TO CHEMISTRY &amp; INTRO CHEMISTRY LAB</td>
</tr>
<tr>
<td>CH 121 &amp; CH 125</td>
<td>GENERAL CHEMISTRY I &amp; GENERAL CHEMISTRY LAB I</td>
</tr>
<tr>
<td>CH 123 &amp; CH 126</td>
<td>GENERAL CHEMISTRY II &amp; GENERAL CHEMISTRY LAB II</td>
</tr>
<tr>
<td>CH 151 &amp; CH 105</td>
<td>GENERAL, ORGANIC, BIOCHEMISTRY &amp; INTRO CHEMISTRY LAB</td>
</tr>
<tr>
<td>ESS 103</td>
<td>ENVIRONMENTAL EARTH SCIENCE</td>
</tr>
<tr>
<td>ESS 111</td>
<td>WEATHER, CLIMATE &amp; GLOBAL CHNG</td>
</tr>
<tr>
<td>PH 100</td>
<td>CONCEPTUAL PHYSICS</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>PH 101</td>
<td>GENERAL PHYSICS I</td>
</tr>
<tr>
<td>PH 102</td>
<td>GENERAL PHYSICS II</td>
</tr>
<tr>
<td>PH 111</td>
<td>GEN PHYSICS W/CALCULUS I</td>
</tr>
<tr>
<td>&amp; PH 114</td>
<td>and GENERAL PHYSICS LAB I</td>
</tr>
<tr>
<td>PH 112</td>
<td>GEN PHYSICS W/CALC II</td>
</tr>
<tr>
<td>&amp; PH 115</td>
<td>and GENERAL PHYSICS LAB II</td>
</tr>
<tr>
<td>PH 113</td>
<td>GEN PHYSICS W/CALC III</td>
</tr>
<tr>
<td>&amp; PH 116</td>
<td>and GENERAL PHYSICS LAB III</td>
</tr>
</tbody>
</table>

**Area IV: History and Social and Behavioral Sciences**

<table>
<thead>
<tr>
<th>History</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HY 103 WORLD HISTORY TO 1500</td>
<td></td>
</tr>
<tr>
<td>HY 104 WORLD HISTORY SINCE 1500</td>
<td></td>
</tr>
<tr>
<td>HY 221 UNITED STATES TO 1877</td>
<td></td>
</tr>
<tr>
<td>HY 222 UNITED STATES SINCE 1877</td>
<td></td>
</tr>
</tbody>
</table>

**Social and Behavioral Sciences**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECN 142</td>
<td>PRINC OF MACROECONOMICS</td>
<td></td>
</tr>
<tr>
<td>ECN 143</td>
<td>PRINC OF MICROECONOMICS</td>
<td></td>
</tr>
<tr>
<td>GS 200</td>
<td>GLOBAL SYSTEMS AND CULTURES</td>
<td></td>
</tr>
<tr>
<td>ESS 105</td>
<td>WORLD REGIONAL GEOGRAPHY</td>
<td></td>
</tr>
<tr>
<td>ESS 110</td>
<td>PRINCIPLES OF HUMAN GEOGRAPHY</td>
<td></td>
</tr>
<tr>
<td>PSC 101</td>
<td>INTRO TO AMERICAN GOVERNMENT</td>
<td></td>
</tr>
<tr>
<td>PSC 102</td>
<td>INTRO TO COMPARATIVE POLITICS</td>
<td></td>
</tr>
<tr>
<td>PSC 260</td>
<td>INTRODUCTION TO INTERNATIONAL RELATIONS</td>
<td></td>
</tr>
<tr>
<td>PY 101</td>
<td>GENERAL PSYCHOLOGY I</td>
<td></td>
</tr>
<tr>
<td>PY 201</td>
<td>LIFE-SPAN DEVELOPMENT</td>
<td></td>
</tr>
<tr>
<td>SOC 100</td>
<td>INTRO TO SOCIOLOGY</td>
<td></td>
</tr>
<tr>
<td>SOC 102</td>
<td>ANALYSIS OF SOCIAL PROBLEMS</td>
<td></td>
</tr>
<tr>
<td>SOC 103</td>
<td>INTRO TO CRIMINOLOGY</td>
<td></td>
</tr>
<tr>
<td>SOC 105</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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.

**Pre Professional Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 171</td>
<td>CALCULUS A</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101</td>
<td>INTRO COMPUTING ENGINEERS</td>
<td>3</td>
</tr>
<tr>
<td>MSC 287</td>
<td>BUSINESS STATISTICS I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Professional Studies Interdisciplinary Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRO 301</td>
<td>THRY &amp; PRAC ADULT LEARNING</td>
<td>3</td>
</tr>
<tr>
<td>PRO 310</td>
<td>ACADEMIC WRITING PROFESS STUDI</td>
<td>3</td>
</tr>
<tr>
<td>PRO 320</td>
<td>INDS PERSPECT &amp; CRITICAL THINKG</td>
<td>3</td>
</tr>
</tbody>
</table>

PRO 301 is required for students with less than 60 hours credit and/or those who have not been enrolled in higher education for an extended period. MUST enroll during the first semester.

**Engineering Technology**
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRO 315</td>
<td>ENGINEERING COMMUNICATION</td>
<td>3</td>
</tr>
<tr>
<td>PRO 331</td>
<td>ENGINEERING TECH FNDNS I</td>
<td>3</td>
</tr>
<tr>
<td>PRO 332</td>
<td>ENGINEERING TECH FNDNS II</td>
<td>3</td>
</tr>
<tr>
<td>PRO 333</td>
<td>COMPUTER-AIDED DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>PRO 341</td>
<td>ELECTRICAL CIRCUITS &amp; SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>PRO 334</td>
<td>PRINCIPLES OF STATICS</td>
<td>3</td>
</tr>
<tr>
<td>PRO 335</td>
<td>STRENGTH OF MATERIALS</td>
<td>3</td>
</tr>
<tr>
<td>PRO 336</td>
<td>PRINCIPLES OF DYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>PRO 431</td>
<td>FUNDAMENTALS OF MANUFACTURING</td>
<td>3</td>
</tr>
<tr>
<td>PRO 433</td>
<td>INSTRUMENTATION &amp; MEASUREMENT</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (Total of 29-32 hours)

Additional Elective courses 100+ level to reach 120 credit hours. Electives can be taken from any department and do not have to be taken in your concentration.

**Overall Requirements**

All Professional Studies degrees must have at least 120 credits.

At least 36 credits of the 120 must be at the 300+ level and 6 credits must be at the 400 level.

¹Based on Math placement, a prerequisite of MA 113 may be required.

²A two course sequence of General Physics (PH 101 and PH 102) is required.