Bachelor of Science - Engineering Technology Concentration

Bachelor of Professional Studies degree requires 120 hours:

- BPS degree requires 120 credit hours and an overall minimum 2.0 GPA.
- 36 credit hours must be taken at the 300 or 400 level; 6 credit hours must be taken at the 400 level.
- 12 of the last 18 hours must be completed at UAH, with an overall 25% of coursework taken at UAH.
- No more than 60 credit hours from a 2-year college can be applied toward a UAH degree.
- All Engineering Technology (ET) courses and prerequisite courses must be completed with a minimum grade of C-.

Charger Foundations (General Education Requirements)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area I: Freshman Composition</strong></td>
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<tr>
<td></td>
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<td>3-6</td>
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<tr>
<td>EH 101</td>
<td>COLLEGE WRITING I</td>
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<tr>
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<td>COLLEGE WRITING I W/STUDIO</td>
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<tr>
<td>EH 102</td>
<td>COLLEGE WRITING II</td>
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<tr>
<td>EH 103</td>
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<tr>
<td>EH 105</td>
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<td></td>
<td><strong>Area II: Humanities and Fine Arts</strong></td>
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<td><strong>Fine Arts</strong></td>
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<td>ARH 100</td>
<td>ARH SUR: ANCIENT-MEDIEVAL</td>
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<td>ARH SUR: WORLD ART</td>
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<td>DRAWING: FOUNDATIONS</td>
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<tr>
<td>TH 122</td>
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<td>TH 123</td>
<td>INTRO TO FILM STUDIES</td>
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<td>MU 100</td>
<td>INTRO TO MUSIC LITERATURE</td>
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<td>EH 210</td>
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<td>MYTHOLOGY</td>
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<td>or WLC 101J</td>
<td>INTRO FOREIGN LANG I: JAPANESE</td>
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<tr>
<td>or WLC 101R</td>
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<td>WLC 201S</td>
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<td>INTERM FOREIGN LANG I: ARABIC</td>
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</table>
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**Area I: Language**

- or WLC 201F
  - INTERM FOREIGN LANG: FRENCH
- or WLC 201G
  - INTERM FOREIGN LANG: GERMAN
- or WLC 201J
  - INTERM FOREIGN LANG: JAPANESE
- or WLC 201R
  - INTERM FOREIGN LANG: RUSSIAN
- WLC 202S
  - INTERM FOREIGN LANG II: SPANISH
- or WLC 202A
  - INTERM FOREIGN LANG II: ARABIC
- or WLC 202F
  - INTERM FOREIGN LANG II: FRENCH
- or WLC 202G
  - INTERM FOREIGN LANG II: GERMAN
- or WLC 202J
  - INTERM FOREIGN LANG II: JAPANESE
- or WLC 202R
  - INTERM FOREIGN LANG II: RUSSIAN

**Area II: International Cinema**

- WLC 204
  - INTERNATIONAL CINEMA

**Area III: Philosophy**

- PHL 101
  - INTRODUCTION TO PHILOSOPHY
- PHL 102
  - INTRO TO ETHICS
- PHL 103
  - INTRODUCTION TO LOGIC
- PHL 150
  - TECH, SCIENCE & HUMAN VALUES
- WGS 200
  - INTRO WOMEN'S & GENDER STUDIES
- AMS 229
  - ANCIENT & MEDIEVAL WORLDS
- ARH 100
  - ARH SUR: ANCIENT-MEDIEVAL
- ARH 101
  - ARH SUR: RENAISSANCE-MODERN
- ARH 103
  - ARH SUR: WORLD ART
- ARS 160
  - DRAWING: FOUNDATIONS
- TH 122
  - THEATRE APPRECIATION
- TH 123
  - INTRO TO FILM STUDIES
- MU 100
  - INTRO TO MUSIC LITERATURE

**Area III: Mathematics and Sciences** 11-12

- Mathematics
  - MA 105
    - NATURE OF MATHEMATICS
  - MA 107
    - ALGEBRA WITH APPLICATIONS
  - MA 110
    - FINITE MATHEMATICS
  - MA 112
    - PRECALCULUS ALGEBRA
  - MA 113
    - PRECALCULUS TRIGONOMETRY
  - MA 115
    - PRECALCULUS ALGEBRA & TRIG
  - MA 120
    - MATH PROFESSIONAL APPLICATIONS
  - MA 171
    - CALCULUS A

- Natural Sciences (Lab) 8
  - AST 100
    - SURVEY OF ASTRONOMY
  - AST 106
    - EXPLORING THE COSMOS I
  - AST 107
    - EXPLORING THE COSMOS II
  - BYS 109
    - FUNDAMENTALS OF BIOLOGY
  - BYS 119
    - PRINCIPLES OF BIOLOGY
  - BYS 120
    - ORGANISMAL BIOLOGY
  - BYS 215
    - HUMAN ANATOMY & PHYSIOLOGY I
  - CH 101
    - INTRO TO CHEMISTRY
  - & CH 105
    - and INTRO CHEMISTRY LAB
  - CH 121
    - GENERAL CHEMISTRY I
  - & CH 125
    - and GENERAL CHEMISTRY LAB I
  - CH 123
    - GENERAL CHEMISTRY II
  - & CH 126
    - and GENERAL CHEMISTRY LAB II
  - CH 151
    - GENERAL, ORGANIC, BIOCHEMISTRY
  - & CH 105
    - and INTRO CHEMISTRY LAB
  - ESS 103
    - ENVIRONMENTAL EARTH SCIENCE
  - PH 100
    - CONCEPTUAL PHYSICS
  - PH 101
    - GENERAL PHYSICS I
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**PH 102**  
GENERAL PHYSICS II

**PH 111**  
GEN PHYSICS W/CALCULUS I

& **PH 114**  
and GENERAL PHYSICS LAB I

**PH 112**  
GEN PHYSICS W/CALC II

& **PH 115**  
and GENERAL PHYSICS LAB II

**PH 113**  
GEN PHYSICS W/CALC III

& **PH 116**  
and GENERAL PHYSICS LAB III

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

**History**  
3-6

**HY 103**  
WORLD HISTORY TO 1500

**HY 104**  
WORLD HISTORY SINCE 1500

**HY 221**  
UNITED STATES TO 1877

**HY 222**  
UNITED STATES SINCE 1877

**Social and Behavioral Sciences**  
6-9

**ECN 142**  
PRINC OF MACROECONOMICS

**ECN 143**  
PRINC OF MICROECONOMICS

**GS 200**  
GLOBAL SYSTEMS AND CULTURES

**ESS 105**  
WORLD REGIONAL GEOGRAPHY

**ESS 110**  
PRINCIPLES OF HUMAN GEOGRAPHY

**PSC 101**  
INTRO TO AMERICAN GOVERNMENT

**PSC 102**  
INTRO TO COMPARATIVE POLITICS

**PSC 260**  
INTRODUCTION TO INTERNATIONAL RELATIONS

**PY 101**  
GENERAL PSYCHOLOGY I

**PY 201**  
LIFE-SPAN DEVELOPMENT

**SOC 100**  
INTRO TO SOCIOLOGY

**SOC 102**  
ANALYSIS OF SOCIAL PROBLEMS

**SOC 103**  
INTRO TO CRIMINOLOGY

*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>
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<th>Semester Hours</th>
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<tbody>
<tr>
<td>MA 171</td>
<td>CALCULUS A</td>
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<tr>
<td>ENG 101</td>
<td>INTRO COMPUTING ENGINEERS</td>
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</tr>
<tr>
<td>MSC 287</td>
<td>BUSINESS STATISTICS I</td>
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### Professional Studies Interdisciplinary Core

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>PRO 301</td>
<td>THRY &amp; PRAC ADULT LEARNING</td>
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<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 THNKG</td>
<td>3</td>
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</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>
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<tbody>
<tr>
<td>ET 301</td>
<td>ENGINEERING TECH FNDNS I</td>
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<tr>
<td>ET 302</td>
<td>ENGINEERING TECH FNDNS II</td>
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</tr>
<tr>
<td>ET 305</td>
<td>ENGINEERING COMMUNICATION</td>
<td>3</td>
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</tbody>
</table>
Bachelor of Science - Engineering Technology Concentration

ET 310 COMPUTER-AIDED DESIGN 3
ET 334 PRINCIPLES OF STATICS 3
ET 335 STRENGTH OF MATERIALS 3
ET 336 PRINCIPLES OF DYNAMICS 3
ET 341 ELECTRICAL CIRCUITS & SYSTEMS 3
ET 431 FUNDAMENTALS OF MANUFACTURING 3
ET 433 INSTRUMENTATION & MEASUREMENT 3

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.