

# Economics and Computational Analysis, BS

## Economics and Computational Analysis, BS

- BS degree requires 120 credit hours.
- 12 credit hours of 300 level and above must be taken in the major.
- 12 of the last 18 credit hours must be taken at UAH, with an overall 25% of coursework taken at UAH.
- No more than 60 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/>).

Code	Title	Semester Hours
<b>Area I: Freshman Composition</b>		<b>3-6</b>
EH 101 or EH 101S	COLLEGE WRITING I COLLEGE WRITING I W/STUDIO	
EH 102	COLLEGE WRITING II	
EH 103	ACCELERATED COLLEGE WRITING	
EH 105	HONORS ENGLISH SEMINAR	
<b>Area II: Humanities and Fine Arts*</b>		<b>12</b>
Fine Arts		3
ARH 100	ARH SURV:ANCIENT-MEDIEVAL	
ARH 101	ARH SURV: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	
Literature		3-6
EH 207	READINGS LITERATURE/CULTURE I	
EH 208	READINGS LITERATURE/CULTURE 2	
EH 209	HONORS SEM READINGS LIT/CUL I	
EH 210	HONORS SEM READINGS LIT/CUL 2	
EH 242	MYTHOLOGY	
Humanities and Fine Arts		3-6
CM 113	Intro to Rhetorical Communication	
WLC 101S or WLC 101A or WLC 101F or WLC 101G or WLC 101J or WLC 101R	INTRO FOREIGN LANG I: SPANISH INTRO FOREIGN LANG I: ARABIC INTRO FOREIGN LANG I:FRENCH INTRO FOREIGN LANG I:GERMAN INTRO FOREIGN LANG I:JAPANESE INTRO FOREIGN LANG I:RUSSIAN	
WLC 102S or WLC 102A or WLC 102F or WLC 102G or WLC 102J or WLC 102R	INTRO FOREIGN LANG II:SPANISH INTRO FOREIGN LANG II: ARABIC INTRO FOREIGN LANG II:FRENCH INTRO FOREIGN LANG II:GERMAN INTRO FOREIGN LANG II:JAPANESE INTRO FOREIGN LANG II:RUSSIAN	
WLC 201S or WLC 201A or WLC 201F or WLC 201G or WLC 201J or WLC 201R	INTERM FOREIGN LANG:SPANISH INTERM FOREIGN LANG I: ARABIC INTERM FOREIGN LANG:FRENCH INTERM FOREIGN LANG:GERMAN INTERM FOREIGN LANG: JAPANESE INTERM FOREIGN LANG:RUSSIAN	

WLC 202S or WLC 202A or WLC 202F or WLC 202G or WLC 202J or WLC 202R	INTERM FOREIGN LANG II:SPANISH INTERM FOREIGN LANG II: ARABIC INTERM FOREIGN LANG II:FRENCH INTERM FOREIGN LANG II:GERMAN INTERM FORGN LANG II:JAPANESE INTERM FOREIGN LANG II:RUSSIAN	
WLC 204	INTERNATIONAL CINEMA	
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 SURV:ANCIENT-MEDIEVAL	
ARH 101	ARH SURV: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	
<b>Area III: Mathematics and Sciences</b>		<b>11-12</b>
Mathematics		3-4
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 & CH 105	INTRO TO CHEMISTRY and INTRO CHEMISTRY LAB	
CH 121 & CH 125	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB I	
CH 123 & CH 126	GENERAL CHEMISTRY II and GENERAL CHEMISTRY LAB II	
CH 151 & CH 105	GENERAL, ORGANIC, BIOCHEMISTRY and INTRO CHEMISTRY LAB	
ESS 103	ENVIRONMENTAL EARTH SCIENCE	
ESS 111	WEATHER, CLIMATE & GLOBAL CHNG	
PH 100	CONCEPTUAL PHYSICS	
PH 101	GENERAL PHYSICS I	
PH 102	GENERAL PHYSICS II	
PH 111 & PH 114	GEN PHYSICS W/CALCULUS I and GENERAL PHYSICS LAB I	

PH 112 & PH 115	GEN PHYSICS W/CALC II and GENERAL PHYSICS LAB II	
PH 113 & PH 116	GEN PHYSICS W/CALC III and GENERAL PHYSICS LAB III	
<b>Area IV: History and Social and Behavioral Sciences*</b>		<b>12</b>
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	
SOC 105		

\* 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.

Code	Title	Semester Hours
<b>Charger Foundations</b>		<b>41</b>
<b>Additional Lower Division Economics Degree Requirements</b>		<b>9</b>
Courses in this area may also fulfill Charger Foundations requirements.		
MA 120	MATH PROFESSIONAL APPLICATIONS	
ECN 142	PRINC OF MACROECONOMICS <sup>1</sup>	
ECN 143	PRINC OF MICROECONOMICS <sup>1</sup>	
MSC 287	BUSINESS STATISTICS I	
MSC 288	BUSINESS STATISTICS II	
100-400 level free elective		9
<b>Select 1 semester hour from the following:</b>		<b>1</b>
FYE 101	CHARGER SUCCESS	
HON 101	INTRO TO HONORS RESEARCH	
BUS 300	BUSINESS TRANSITIONS	
<b>Upper Division Economics Degree Requirements</b>		<b>24</b>
ECN 340	MACRO ECONOMIC ANALYSIS	
ECN 345	MICRO ECONOMIC ANALYSIS	
ECN 411	ECONOMICS INFORMATION TECH	
ECN 475	LABOR ECONOMICS	
<b>Select 12 semester hours from the following:</b>		
ECN 352	MONEY AND BANKING	
ECN 406	SPORTS ECONOMICS	
ECN 445	GAMES AND NETWORKS	
ECN 461	ECONOMIC DEVELOPMENT	

ECN 470	SEMINAR IN ECONOMICS	
ECN 480	INTRO ECONOMETRICS	
ECN 490	SPECIAL PROJECTS	
ECN 499	AGENT-BASED COMPUTA ECON	
FIN 454	INTERNATIONAL FINANCE	
FIN 490	SPECIAL PROJECTS	

<b>Upper Division Electives</b>		<b>15</b>
<b>Minor/Second Major</b>		<b>21</b>
<hr/>		
Total Semester Hours		120

<sup>1</sup> BS-ECA students must choose both ECN 142 and ECN 143 to satisfy both Area IV: Social and Behavioral Sciences in Charger Foundations and Lower Division Economics Degree Requirements.

**Year 1**

<b>Fall</b>		<b>Semester Hours</b>
FYE 101	CHARGER SUCCESS	1
EH 101	COLLEGE WRITING I	3
MA 107	ALGEBRA WITH APPLICATIONS	3
or MA 110	or FINITE MATHEMATICS	
or MA 112	or PRECALCULUS ALGEBRA	
ECN 142	PRINC OF MACROECONOMICS	3
Fine Arts Elective		3
100-400 Level Free Elective		3
<hr/>		
Term Semester Hours:		16

**Spring**

EH 102	COLLEGE WRITING II	3
MA 120	MATH PROFESSIONAL APPLICATIONS	3
ECN 143	PRINC OF MICROECONOMICS	3
Humanities Elective		3
Science w/Lab		4
<hr/>		
Term Semester Hours:		16

**Year 2**

<b>Fall</b>		
EH 207	READINGS LITERATURE/CULTURE I	3
or EH 208	or READINGS LITERATURE/CULTURE 2	
MSC 287	BUSINESS STATISTICS I	3
Science w/Lab		4
Minor Elective		6
<hr/>		
Term Semester Hours:		16

**Spring**

EH 207	READINGS LITERATURE/CULTURE I	3
or EH 208	or READINGS LITERATURE/CULTURE 2	
MSC 288	BUSINESS STATISTICS II	3
ECN 340	MACRO ECONOMIC ANALYSIS	3
Minor Elective		3
100-400 Level Free Elective		3
<hr/>		
Term Semester Hours:		15

**Year 3**

<b>Fall</b>		
ECN 345	MICRO ECONOMIC ANALYSIS	3
300-400 Level ECN Elective		3
Social Behavioral Sciences Elective		3

Minor Elective		3
History		3
Term Semester Hours:		15
<b>Spring</b>		
Upper Division Elective		6
300-400 Level ECN Elective		3
100-400 Level Free Electives		3
Minor Elective		3
Term Semester Hours:		15
<b>Year 4</b>		
<b>Fall</b>		
ECN 411	ECONOMICS INFORMATION TECH	3
ECN 475	LABOR ECONOMICS	3
Upper Division Electives		3
300-400 Level ECN Elective		3
Minor Elective		3
Term Semester Hours:		15
<b>Spring</b>		
Upper Division Electives		6
300-400 Level ECN Elective		3
Minor Elective		3
Term Semester Hours:		12
Total Semester Hours:		120