

## Transfer Guide UAH and Alabama Community Colleges Atmsopheric & Earth Science (AES) Major

Courses listed below can be taken at an any Alabama Community College (ACC) and *may be* applied toward an ESS degree at UAH.

64 credit hours can be applied toward a UAH College of Science degree.

English Composition   ENG 101	English Composition				
English Composition   ENG 101	Course Title	ACC Course	UAH Equivalent	STARS Area	Credit Hours
Course Title	English Composition I	ENG 101	EH 101	Area I	
Course Title	English Composition II	ENG 102	EH 102	Area I	3
Fine Art: Choose one	Humanities and Fine Arts				
THE 120	Course Title	ACC Course	UAH Equivalent	STARS Area	Credit Hours
Speech: Required   SPH 107	Fine Art: Choose one		ARH 1XX, ARH 100, ARH 101, MU 100, TH 122	Area II	3
Humanity/FineArt/Literature** Choose one more course from: Fine art. Literature, Foreign Language, Philosophy, or Religion. "A sequence in History or Literature is required  MA 171, MA 172, MA 201, MA 238 and MA 385 required for ESS/Atmospheric Science/Meteorology degree. MA 385 taken at UAH only.  MA 171, MA 172, MA 201, MA 238 and MA 385 required for ESS/Geographic Information Systems GIS degree.  Course Title ACC Course  Pre-Calculus Rights  MTH 112 MA 112 STARS Area  Credit Hour Pre-Calculus Rights  MTH 120 MA 113 3  Calculus With Applications  MTH 120 MA 120 Area III 3  Calculus III MTH 125 MA 171 Area III 4  Calculus III MTH 126 MA 172 Area V 4  Calculus III MTH 127 MA 201 Area V 4  Calculus III MTH 288 MA 201 Area V 3  Statistics  MTH 238 MA 238 Area V 3  Statistics  MTH 238 MA 238 Area V 3  Statistics  MTH 255 MA/ST 281 Area V 3  Natural/Lab Sciences CH 121/125, PH 111/114, PH 112/115 required for ESS/Atmospheric Science/Meteorology and ESS/GIS degree.  Course Title  ACC Course  Course Title  ACC Course  Course Title  ACC Course  LH History, Social & Behavioral Sciences  Course Title  ACC Course  Course Title  ACC Course  LH PY 201 + 202 PH 101 + PH 102 Area III 4  Gen Physics W Calculus II PHY 201 + 202 PH 101 + PH 102 Area III 4  Gen Physics W Calculus II PHY 213 PH 111/114 Area III 4  Gen Physics W Calculus II PHY 214 PH 112/115 Area III 4  Gen Physics W Calculus II PHY 213 PH 111/114 Area III 4  History, Social & Behavioral Sciences  Course Title  ACC Course  LH Equivalent  STARS Area  Credit Hour Physics W Calculus II PHY 2173 PH 111/114 Area III 4  Gen Physics W Calculus II PHY 2173 PH 111/114 Area III 4  Gen Physics W Calculus II PHY 214 PH 112/115 Area III 4  Gen Physics W Calculus II PHY 2173 PH 111/114 Area III 4  Gen Physics W Calculus II PHY 2174 PH 102 Area III 4  Gen Physics W Calculus II PHY 2174 PH 102 Area III 4  Gen Physics W Calculus II PHY 2174 PH 1074 PH 1	Literature: Choose one	ENG 251, 252, 261, 262, 271, 272	EH 207 or EH 208	Area II	3
Mathematics	Speech: Required	SPH 107	CM 113	Area II	3
MA 171, MA 172, MA 201, MA 238 and MA 385 required for ESS/Atmospheric Science/Meteorology degree. MA 385 taken at UAH only.    MA 171, MA 172, MA/ST 281 required for ESS/Geographic Information Systems GIS degree.	Humanity/FineArt/Literature**			Area II	3
MA 171, MA 172, MA/ST 281 required for ESS/Geographic Information Systems GIS degree.   Course Title	Mathematics				
Course Title	MA 171, MA 17	72, MA 201, MA 238 and MA 385 required fo	r ESS/Atmospheric Science/Meteorology degree. M	A 385 taken at UAH onl	у.
Pre-Calculus Algebra		MA 171, MA 172, MA/ST 281 required	for ESS/Geographic Information Systems GIS deg	ree.	
Pre-Calculus Trigonometry	Course Title	ACC Course	UAH Equivalent	STARS Area	Credit Hours
Calculus with Applications	Pre-Calculus Algebra	MTH 112	MA 112		3
Calculus   MTH 125	Pre-CalculusTrigonometry	MTH 113	MA 113		3
Calculus   I	Calculus with Applications	MTH 120	MA 120	Area III	3
Calculus   III   MTH 227   MA 201   Area V   4	Calculus I	MTH 125	MA 171	Area III	4
Differential Equations	Calculus II	MTH 126	MA 172	Area V	4
Statistics   MTH 265   MA/ST 281   Area V   3	Calculus III	MTH 227	MA 201	Area V	4
Natural/Lab Sciences CH 121/125, PH 111/114, PH 112/115 required for ESS/Atmospheric Science/Meteorology and ESS/GIS degree.    Course Title	Differential Equations	MTH 238	MA 238	Area V	3
Course Title         ACC Course         UAH Equivalent         STARS Area         Credit Hour           Introto Chemistry         CHM 104         CH 101/105         Area V         4           General Chemistry I         CHM 111         CH 121/125         Area V         4           General Physics I + II         PHY 201 + 202         PH 101 + PH 102         Area III         4           Gen Physics w/ Calculus I         PHY 213         PH 111/114         Area III         4           Gen Physics w/ Calculus II         PHY 214         PH 112/115         Area III         4           History, Social & Behavioral Sciences         VAIL Equivalent         STARS Area         Credit Hour           History: Choose one         HIS 101, 102,121,122,201,202         HY 101, 102, 103, 104, 221, 222         Area IV         3           Social & Behavioral Science: Choose one         ANT 200, ECO 231, ECO 232, GEO 100, GEO 201, POL 211, PSY 200, PSY 210, SOC 200, SOC 210         SOC 105, ECN 142, ECN 143, GY 105, GY 110, PSC 101, PY 201, SOC 100, SOC 102         Area IV         6           History/Soc & Beh Science**         Choose one more History or Social/Behavioral Science course **A sequence in History or Literature is required         Area IV         3           Computer Programming, required for all COS degrees. Choose one:         UAH Equivalent         STARS Area         Credit Hour	Statistics	MTH 265	MA/ST 281	Area V	3
Introto Chemistry	Natural/Lab Sciences CH 12	1/125, PH 111/114, PH 112/115 required for	ESS/Atmospheric Science/Meteorology and ESS/G	GIS degree.	
General Chemistry   CHM 111   CH 121/125   Area V   4	Course Title	ACC Course	UAH Equivalent	STARS Area	Credit Hours
General Physics I + II	Introto Chemistry	CHM 104	CH 101/105	Area V	4
Course Title	General Chemistry I	CHM 111	CH 121/125	Area V	4
Gen Physics w/ Calculus II PHY 214 PH 112/115 Area III 4  History, Social & Behavioral Sciences  Course Title ACC Course UAH Equivalent STARS Area Credit Hour History: Choose one HIS 101, 102,121,122,201,202 HY 101, 102, 103, 104, 221, 222 Area IV 3  Social & Behavioral Science: Choose 2 ANT 200, ECO 231, ECO 232, GEO 100, GEO 201, POL 211, PSY 200, PSY 210, SOC 105, ECN 142, ECN 143, GY 105, GY 110, PSC 101, PY 101, PY 201, SOC 100, SOC 102  History/Soc & Beh Science** Choose one more History or Social/Behavioral Science course **A sequence in History or Literature is required  Computer Programming, required for all COS degrees. Choose one:  Course Title ACC Course UAH Equivalent STARS Area Credit Hour C/C++ Programming CIS 251 CS 102 Area V 3	General Physics I + II	PHY 201 + 202	PH 101 + PH 102	Area III	4
Course Title	Gen Physics w/ Calculus I	PHY 213	PH 111/114	Area III	4
Course Title         ACC Course         UAH Equivalent         STARS Area         Credit Hour           History: Choose one         HIS 101, 102,121,122,201,202         HY 101, 102, 103, 104, 221, 222         Area IV         3           Social & Behavioral Science: Choose 2         ANT 200, ECO 231, ECO 232, GEO 100, GEO 201, POL 211, PSY 200, PSY 210, SOC 200, SOC 210         SOC 105, ECN 142, ECN 143, GY 105, GY 110, PSC 101, PY 101, PY 201, SOC 100, SOC 102         Area IV         6           History/Soc & Beh Science**         Choose one more History or Social/Behavioral Science course **A sequence in History or Literature is required         Area IV         3           Computer Programming, required for all COS degrees. Choose one:         UAH Equivalent         STARS Area         Credit Hour           C/C++ Programming         CIS 251         CS 102         Area V         3	Gen Physics w/ Calculus II	PHY 214	PH 112/115	Area III	4
History: Choose one	History, Social & Behavioral	Sciences			
History: Choose one   HIS 101, 102,121,122,201,202   HY 101, 102, 103, 104, 221, 222   Area IV   3	Course Title	ACC Course	UAH Equivalent	STARS Area	Credit Hours
GEO 201, POL 211, PSY 200, PSY 210, PSC 101, PY 101, PY 201, SOC 100, SOC 102  History/Soc & Beh Science**  Choose one more History or Social/Behavioral Science course **A sequence in History or Literature is required  Computer Programming, required for all COS degrees. Choose one:  Course Title  ACC Course  UAH Equivalent  C/C++ Programming  CIS 251  CS 102  Area IV  Area IV  3	History: Choose one	HIS 101, 102,121,122,201,202	-	Area IV	3
Computer Programming, required for all COS degrees. Choose one:  Course Title ACC Course UAH Equivalent STARS Area Credit Hour C/C++ Programming CIS 251 CS 102 Area V 3	Social & Behavioral Science:	GEO 201, POL 211, PSY 200, PSY 210,		Area IV	6
Course Title         ACC Course         UAH Equivalent         STARS Area         Credit Hour           C/C++ Programming         CIS 251         CS 102         Area V         3	History/Soc & Beh Science**			Area IV	3
C/C++ Programming         CIS 251         CS 102         Area V         3	Computer Programming, rec	quired for all COS degrees. Choose on	e:		
· · ·	Course Title	ACC Course	UAH Equivalent	STARS Area	Credit Hours
	C/C++ Programming	CIS 251	CS 102	Area V	3
		CIS 255	CS 103	Area V	3