

Program Transfer Guide

Hawkeye Community College Associate in Applied Science (AAS) in

NETWORK ADMINISTRATION AND ENGINEERING

→ **UIU Bachelor of Science (BS) in**

INFORMATION TECHNOLOGY

AUGUST 2020



Years 1 & 2 at Hawkeye Community College:

HCC Program Course Sequence			Course Transfers into UIU as			
Course ID	Course Name	# Cr	Course ID	Course Name	# Cr	Requirement Fulfilled
Semester 1						
COM 781 OR ENG 105	Written Communication in the Workplace Composition I	3 OR 3	---	---	3 OR 3	Free Elective Gen Ed Comm./Wrtn
CSC 116 OR CSC 110 OR BCA 205	Information Computing Introduction to Computers Database/Spreadsheets	3 OR 3 OR 3	CS 102 CS 102	Introduction to Computer Applications & Technology Introduction to Computer Applications & Technology	3 OR 3 OR 3	Gen Ed Comp. Skills Gen Ed Comp. Skills Free Elective
MAT 110	Math for Liberal Arts	3	---	---	3	Free Elective
NET 109	A+ Certification Prep Course	4	CS 122	IT Infrastructure	4	Major
NET 115	College Experience	1	---	---	1	Free Elective
NET 213	CISCO Networking	4	IT 311	Networking® (Both NET 213 & NET 225 required to transfer as IT 311)	4	Major
Semester 2						
CIS 303	Introduction to Database	3	CS 332	Databases & Information Mgmt.	3	Major
NET 225	Routing and Switching Essentials	4	---	(Both NET 213 & NET 225 required to transfer as IT 311)	4	Free Elective
NET 313	Windows Server	3	CS 213	Operating Systems® (Both NET 313 & NET 412 required to transfer as CS 213)	3	Major
NET 412	Linux System Administration	3	---	(Both NET 313 & NET 412 required to transfer as CS 213)	3	Free Elective
PSY 102 OR PSY 111 OR SOC 110	Human and Work Relations Introduction to Psychology Introduction to Sociology	3 OR 3 OR 3	---	---	3 OR 3 OR 3	Free Elective Gen Ed Soc. Sci. Gen Ed Soc. Sci.
---	---	---	SOC 110	Principles of Sociology	3	Gen Ed Soc. Sci.
Semester 3						
NET 168	Administering Windows Server	3	---	---	3	Free Elective
NET 268	CCNA Routing and Switching: Scaling Networks	3	IT 348	Advanced Networks® (Both NET 268 & NET 269 required to transfer as IT 348)	3	IT Elective
NET 310	Virtual Machines	3	---	---	3	Free Elective
NET 346	Windows Exchange Server	3	---	---	3	Free Elective
NET 612	Fundamentals of Network Security	3	---	---	3	Free Elective
SPC 101	Fundamentals of Oral Communication	3	COMM 105	Public Speaking	3	Gen Ed Comm./Oral

Years 1 & 2 at Hawkeye Community College: (continued)

HCC Program Course Sequence			Course Transfers into UIU as			
Course ID	Course Name	# Cr	Course ID	Course Name	# Cr	Requirement Fulfilled
Semester 4						
CIS 750	Project Management	3	---	---	3	Free Elective
NET 269	CCNA Routing and Switching: Connecting Networks	3	---	(Both NET 268 & NET 269 required to transfer as IT 348)	3	Free Elective
NET 475 OR	Certification Preparation	2 OR	---	---	2 OR	Free Elective
NET 474 OR	Certification Preparation [1 credit] (Need 2 credits)	2 OR	---	---	2 OR	Free Elective
CIS 604 OR	Visual Basic	3 OR	CS 140	Introduction to Programing	3 OR	Major
NET 949	Special Topics	1	---	---	1	Free Elective
NET 710	SQL Database	2	---	---	2	Free Elective
NET 916	Experiential Learning	5	---	---	5	Free Elective
NET 932	Internship	2	---	---	2	Free Elective

Total occupational course credits earned:	69-70
Total credits required for graduation:	69
Total transferable credits#:	69-70

Total course credits accepted: 69-70

 UIU recommendations are **bolded**.

Years 3 & 4 at Upper Iowa University:

Courses to be taken at Upper Iowa University	UIU Program Course List		# Cr	Requirement Fulfilled	Transferred In	
	General Education Courses					
		any Gen Ed in Arts/Humanities	3	Gen Ed Arts/Humanities	---	
		any Gen Ed in Arts/Humanities	3	Gen Ed Arts/Humanities	---	
	ENG 101	English Composition I	3	Gen Ed Comm./Wrtn	ENG 105	
	ENG 102	English Composition II	3	Gen Ed Comm./Wrtn	---	
	COMM 105	Public Speaking	3	Gen Ed Comm./Oral	SPC 101	
		any Gen Ed in Natural Science	3	Gen Ed Natural Science	---	
		any Gen Ed in Natural Science	3	Gen Ed Natural Science	---	
		any Gen Ed in Social Science	3	Gen Ed Social Science	PSY 111 OR SOC 110	
	any Gen Ed in Social Science	3	Gen Ed Social Science	---		
	any Gen Ed in Cultures	3	Gen Ed Cultures	---		
Prerequisites						
MATH 107	College Algebra *	3	Gen Ed Math & Prereq. for MATH 115 or MATH 220	---		
Major Courses						
CS 102	Intro Computer Applications & Technology	3	Gen Ed Computer Skills & Major	CSC 116 OR CSC 110		
MATH 115	Trigonometry and Analytic Geometry *	3	Major	---		
CS 122	IT Infrastructure	4	Major	NET 109		
CS 130	Foundations of Information Systems	3	Major	---		
CS 140	Introduction to Programing	4	Major	CIS 604		
CS 206	Computer Architecture	4	Major	---		
CS 213	Operating Systems	4	Major	NET 313		
MATH 220	Elementary Statistics	3	Major	---		
IT 311	Networking *	4	Major	NET 213 & NET 225		
IT 320	Web Systems and System Integration *	4	Major	---		
CS 332	Databases & Information Management *	3	Major	CIS 303		

Years 3 & 4 at Upper Iowa University: (continued)

UIU Program Course List		# Cr	Requirement Fulfilled	Transferred In
Major Courses (continued)				
CS 342	Human Computer Interaction •	3	Major	---
CS 400	Project Management and Integration •	4	Major	---
IT 410	Information and System Security •	3	Major	---
CS 480	Senior Capstone I •	1	Major	---
CS 481	Senior Capstone II •	2	Major	---
<i>IT 348</i>	<i>Advanced Networks</i>	<i>3</i>	<i>NET Spec. Elective</i>	<i>NET 268 & NET 269</i>
Upper-Division Electives (from list below)		6	Major	---
Additional Electives				
Upper-Division Elective		9	Degree Requirements	---
Total additional credits needed at UIU to complete degree:		69		
Total transferable credits from HCC:		69-70		
Total Earned Credits:		138-139		

Information Technology Elective Options at UIU	
Cyber Security & Computer Forensics (SEC) Specialization Electives	
IT 360	Computer Forensics and Incident Response
IT 420	System Security and Risks
Network Management (NET) Specialization Electives	
<i>IT 348</i>	<i>Advanced Networks</i>
IT 370	Network Management
Other IT Electives	
IT 499	Special Project
Non-IT Electives	
SE 300	Data Structures and Algorithms •
IS 310	Systems Analysis and Design •
SE 310	Software Application and Interface Design •
IS 320	Enterprise Architecture •
IS 410	IS Strategy, Management, and Acquisition •
SE 410	Software Testing, Validation and Verification •

~~ NOTES ~~

LEGEND:

- # Transfer grades lower than a C- will not be accepted.
- @ indicates both courses are required to meet this course, else if only part of this combination is taken, all courses would be considered free electives.
- • Course has a prerequisite.
- **Bolded** text indicates UIU recommendations.
- *Grayed out text* indicates courses fulfilled through transfer. Strikethrough indicates specific course if within grouping.

A minimum of 120 semester credits is required for a baccalaureate degree; up to 78 lower-division college semester credits from Hawkeye Community College. A minimum of 30 credits must be upper-division credits for a UIU baccalaureate degree; lower-division transfer work from Hawkeye Community College does not contribute to the upper-division credit requirement at UIU.

This program transfer guide is based on the May 2020 course-to-course articulation (UIU 2019-2020 catalog & HCC 2019-2020 catalog).

Every effort has been made to ensure the accuracy and completeness of this program articulation. The office of the Registrar of Upper Iowa University reserves the right to make corrections, additions, and deletions as necessary.

Maximize Your Transfer to UIU

Take up to 6 credits to fulfill general education requirements.

Choose up to 6 additional credits at Hawkeye Community College to transfer into Upper Iowa University to fulfill general education requirements. View the Additional Elective Transfer Guide list below for course selection and recommendations. Talk with your advisors to ensure additional courses will fit with your degree plan and financial aid requirements.

Choose up to 6 credits from the following areas:

- Arts/Humanities General Education Requirement – up to 6 credits
- Communication (Written) General Education Requirement – up to 3 credits
- Natural Science General Education Requirement – up to 6 credits
- Social Science General Education Requirement – Up to 3 credits
- Cultures General Education Requirement – up to 3 credits

LEGEND:

- **Bolded** text indicates UIU recommendations
- • Course has a prerequisite

<i>Additional Elective Transfer Guide</i>						
HCC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Arts/Humanities General Education Requirement						
ART 101	Art Appreciation	3	ART 100	Introduction to Art	3	Gen Ed Arts/Humn.
ART 120	2-D Design	3	ART 109	Two Dimensional Foundations	3	Gen Ed Arts/Humn.
ART 123	3-D Design	3	ART 120	Three Dimensional Foundations	3	Gen Ed Arts/Humn.
ART 133	Drawing	3	ART 110	Drawing	3	Gen Ed Arts/Humn.
ART 134	Drawing II	3	ART 210	Intermediate Drawing •	3	Gen Ed Arts/Humn.
ART 143	Painting	3	ART 202	Painting •	3	Gen Ed Arts/Humn.
ART 144	Painting II	3	---	---	3	Gen Ed Arts/Humn.
ART 173	Ceramics	3	ART 222	Ceramics/Hand Building	3	Gen Ed Arts/Humn.
ART 184	Photography	3	---	---	3	Gen Ed Arts/Humn.
ART 203	Art History I	3	ART 211	Art History I	3	Gen Ed Arts/Humn.
ART 204	Art History II	3	ART 212	Art History II	3	Gen Ed Arts/Humn.
DRA 107	Theatrical Arts and Society	3	---	---	3	Gen Ed Arts/Humn.
DRA 110	Introduction to Film	3	---	---	3	Gen Ed Arts/Humn.
ENG 221	Creative Writing	3	ENG 170	Introduction to Creative Writing •	3	Gen Ed Arts/Humn.
ENG 235	Playwriting and Screenwriting	3	---	---	3	Gen Ed Arts/Humn.
FLF 145	French I	5	---	---	5	Gen Ed Arts/Humn.
FLF 245	French II	5	---	---	5	Gen Ed Arts/Humn.
FLS 128	Conversational Spanish	3	---	---	3	Gen Ed Arts/Humn.
FLS 151	Elementary Spanish I	5	SPN 101	Beginning Spanish I	5	Gen Ed Arts/Humn.
FLS 152	Elementary Spanish II	5	SPN 102	Beginning Spanish II •	5	Gen Ed Arts/Humn.
FLS 241	Intermediate Spanish I	4	SPN 201	Intermediate Spanish I •	4	Gen Ed Arts/Humn.
FLS 242	Intermediate Spanish II	4	SPN 202	Intermediate Spanish II •	4	Gen Ed Arts/Humn.
GRA 206	Advanced Design and Layout	4	GRAF 335	Publication Design •	4	Gen Ed Arts/Humn.
HUM 130	Holocaust Perspectives: Confronting the Future	3	---	---	3	Gen Ed Arts/Humn.

Additional Elective Transfer Guide (continued)

HCC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Arts/Humanities General Education Requirement (continued)						
HUM 140	Shakespeare: Dramatist, Psychologist, Historian	3	---	---	3	Gen Ed Arts/Humn.
HUM 141	J.R.R. Tolkien: Mythology and Methodology	3	ENG 135	Tolkien	3	Gen Ed Arts/Humn.
LIT 101	Introduction to Literature	3	ENG 125	Introduction to Literature	3	Gen Ed Arts/Humn.
LIT 133	Minority Voices in U.S. Literature	3	---	---	3	Gen Ed Arts/Humn.
LIT 142	Major British Writers	3	---	---	3	Gen Ed Arts/Humn.
LIT 189	Women and Literature	3	---	---	3	Gen Ed Arts/Humn.
MMS 103	Basic Digital Photography	3	GRAF 218	Digital Photography and Editing	3	Gen Ed Arts/Humn.
MUS 100	Music Appreciation	3	MUS 100	Introduction to Music	3	Gen Ed Arts/Humn.
MUS 102	Music Fundamentals	3	---	---	3	Gen Ed Arts/Humn.
PHI 101	Introduction to Philosophy	3	PHIL 150	Introduction to Philosophy	3	Gen Ed Arts/Humn.
PHI 105	Introduction to Ethics	3	PHIL 202	Contemporary Ethics	3	Gen Ed Arts/Humn.
PHI 121	Classical/Medieval Philosophy	3	---	---	3	Gen Ed Arts/Humn.
REL 101	Survey of World Religions	3	REL 120	Introduction to World Religions	3	Gen Ed Arts/Humn.
REL 130	Introduction to Religions of the East	3	REL 205	Religions of Asia	3	Gen Ed Arts/Humn.
Communication (Written) General Education Requirement						
ENG 106	Composition II	3	ENG 102	English Composition II *	3	Gen Ed Comm./Wrtn
Cultures General Education Requirement						
ANT 105 OR SOC 208	Cultural Anthropology Introduction to Cultural Anthropology	3	ANTH 110	Introduction to Cultural Anthropology	3	Gen Ed Cultures or Gen Ed Soc. Sci.
CLS 130	African Cultures	3	---	---	3	Gen Ed Cultures
CLS 141	Middle Eastern History and Culture	3	---	---	3	Gen Ed Cultures
CLS 150	Latin American History and Culture	3	SPN 125	Introduction to Hispanic Culture & Society	3	Gen Ed Cultures or Gen Ed Soc. Sci.
CLS 160	East Asian Cultures	3	---	---	3	Gen Ed Cultures
CLS 164	Japanese History and Culture	3	---	---	3	Gen Ed Cultures
CLS 172	Russian Civilization	3	---	---	3	Gen Ed Cultures
COM 148	Diversity and the Media	3	---	---	3	Gen Ed Cultures
EDU 223	Multicultural Education	3	EDU 162	Diversity for Teachers	3	Gen Ed Cultures
SOC 135	Death and Dying	3	PSY 321	Death and Dying *	3	Gen Ed Soc. Sci. or Gen Ed Cultures
SOC 200 OR SOC 205	Minority Group Relations Diversity in America	3	SOC 240	Diversity in the United States	3	Gen Ed Cultures or Gen Ed Soc. Sci.
SPC 120	Intercultural Communications	3	COMM 221	Intercultural Communication	3	Gen Ed Cultures

Additional Elective Transfer Guide (continued)

HCC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Social Science General Education Requirement						
ANT 105 OR SOC 208	Cultural Anthropology Introduction to Cultural Anthropology	3	ANTH 110	Introduction to Cultural Anthropology	3	Gen Ed Cultures or Gen Ed Soc. Sci.
CLS 150	Latin American History and Culture	3	SPN 125	Introduction to Hispanic Culture & Society	3	Gen Ed Cultures or Gen Ed Soc. Sci.
CRJ 100	Introduction to Criminal Justice	3	CJ 224	Introduction to Criminal Justice	3	Gen Ed Soc. Sci.
CRJ 317	White Collar Crime	3	---	---	3	Gen Ed Soc. Sci.
CRJ 318	Crime Analysis	3	---	---	3	Gen Ed Soc. Sci.
ECE 170	Child Growth and Development	3	PSY 212	Developmental Psychology: Birth to Adolescence •	3	Gen Ed Soc. Sci.
ECN 110 OR ECN 130	Introduction to Economics Principles of Microeconomics	3	ECON 160	Principles of Microeconomics	3	Gen Ed Soc. Sci.
ECN 120	Principles of Macroeconomics	3	ECON 161	Principles of Macroeconomics •	3	Gen Ed Soc. Sci.
GEO 115	Human Geography	3	---	---	3	Gen Ed Soc. Sci.
GEO 121	World Regional Geography	3	GEOG 200	World Regional Geography	3	Gen Ed Soc. Sci.
GEO 131	Physical Geography	3	GEOG 100	Introduction to Physical Geography	3	Gen Ed Nat. Sci. or Gen Ed Soc. Sci.
HIS 117	Western Civilization I: Ancient and Medieval	3	---	---	3	Gen Ed Soc. Sci.
HIS 118	Western Civilization II: Early Modern	3	---	---	3	Gen Ed Soc. Sci.
HIS 119	Western Civilization III: The Modern Period	3	---	---	3	Gen Ed Soc. Sci.
HIS 151	U.S. History to 1877	3	HIST 110	American History to 1877	3	Gen Ed Soc. Sci.
HIS 152	U.S. History Since 1877	3	HIST 111	American History Since 1877	3	Gen Ed Soc. Sci.
HIS 201	Iowa History	3	HIST 222	History of Iowa	3	Gen Ed Soc. Sci.
HIS 257	African American History	3	HIST 330	African American History	3	Gen Ed Soc. Sci.
POL 111	American National Government	3	PS 100	U.S. Government	3	Gen Ed Soc. Sci.
POL 121	International Relations	3	PS 211	International Relations	3	Gen Ed Soc. Sci.
POL 125	Comparative Government and Politics	3	PS 212	Comparative Politics	3	Gen Ed Soc. Sci.
PSY 121	Developmental Psychology	3	EDU 142	Human Growth, Development and Guidance	3	Gen Ed Soc. Sci.
PSY 261 OR SOC 261	Human Sexuality Human Sexuality	3	PSY 270	Human Sexuality	3	Gen Ed Soc. Sci.
PSY 262	Psychology of Gender	3	SOC 260	Gender Roles (also PSY 260) •	3	Gen Ed Soc. Sci.
SOC 115	Social Problems	3	SOC 220	Social Problems	3	Gen Ed Soc. Sci.
SOC 135	Death and Dying	3	PSY 321	Death and Dying •	3	Gen Ed Soc. Sci. or Gen Ed Cultures

Additional Elective Transfer Guide (continued)

HCC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Social Science General Education Requirement (continued)						
SOC 200 OR SOC 205	Minority Group Relations Diversity in America	3	SOC 240	Diversity in the United States	3	Gen Ed Cultures or Gen Ed Soc. Sci.
SOC 220	Sociology of Aging	3	---	---	3	Gen Ed Soc. Sci.
Natural Science General Education Requirement						
AGA 154	Fundamentals of Soil Science	3	---	---		Gen Ed Nat. Sci.
BIO 105	Introductory Biology	4	BIO 100	General Biological Science	4	Gen Ed Nat. Sci.
BIO 112	General Biology I	4	BIO 135	Principles of Biology I	4	Gen Ed Nat. Sci.
BIO 113	General Biology II	4	BIO 140	Principles of Biology II •	4	Gen Ed Nat. Sci.
BIO 151	Nutrition	3	BIO 165	Human Biology and Nutrition	3	Gen Ed Nat. Sci.
BIO 154	Human Biology	3	---	---	3	Gen Ed Nat. Sci.
BIO 163 OR BIO 166	Essentials of Anatomy and Physiology Fundamentals of Anatomy and Physiology	4	BIO 268	Introduction to Human Anatomy and Physiology •	4	Gen Ed Nat. Sci.
BIO 168	Human Anatomy and Physiology I	4	BIO 270	Human Anatomy and Physiology I •	4	Gen Ed Nat. Sci.
BIO 186	Microbiology	4	BIO 210	Microbiology •	4	Gen Ed Nat. Sci.
CHM 122	Introduction to General Chemistry	4	---	---	4	Gen Ed Nat. Sci.
CHM 132	Introduction to Organic and Biochemistry	4	---	---	4	Gen Ed Nat. Sci.
CHM 165	General Chemistry I	4	CHEM 151	General Chemistry I	4	Gen Ed Nat. Sci.
CHM 175	General Chemistry II	4	CHEM 152	General Chemistry II •	4	Gen Ed Nat. Sci.
CNS 121 OR ENV 115	Environmental Conservation Environmental Science	3	ES 161	Introduction to Environmental Science	3	Gen Ed Nat. Sci.
GEO 131	Physical Geography	3	GEOG 100	Introduction to Physical Geography	3	Gen Ed Nat. Sci. or Gen Ed Soc. Sci.
PHS 142	Principles of Astronomy	3	PHY 110	Introduction to Astronomy	3	Gen Ed Nat. Sci.
PHY 100 OR PHY 183	Physics in Everyday Life Applied Physics	3	PHY 105	Conceptual Physics	3	Gen Ed Nat. Sci.
PHY 162 OR PHY 212	College Physics I Classical Physics I	4 5	PHY 111 & PHY 112	Introductory Physics I (3) & Introductory Physics Laboratory I (1)	4 5	Gen Ed Nat. Sci.
PHY 172 OR PHY 222	College Physics II Classical Physics II	4 5	PHY 113 & PHY 114	Introductory Physics II (3) & Introductory Physics Laboratory II (1) •	4 5	Gen Ed Nat. Sci.