

Program Transfer Guide

**Des Moines Area Community College Associate in Applied Science
(AAS) in**

INFORMATION TECHNOLOGY/NETWORK ADMINISTRATION

→ **UIU Bachelor of Science (BS) in**

INFORMATION TECHNOLOGY

FEBRUARY 2020



EDUCATION BUILT FOR LIFE

Years 1 & 2 at Des Moines Area Community College:

DMACC Program Course Sequence			Course Transfers into UIU as			
Course ID	Course Name	# Cr	Course ID	Course Name	# Cr	Requirement Fulfilled
Semester 1						
NET 123	Computer Hardware Basics	4	CS 122	IT Infrastructure *	4	Major
NET 202	Programming for Network Admin	3	---	---	3	Free Elective
NET 213	Cisco Networking	4	IT 311	Networking * [@] <i>(Requires both NET 213 & NET 225)</i>	4	Major
SDV 108	The College Experience	1	---	---	1	Free Elective
MAT 121 OR Math Elective	College Algebra <i>(Elective)</i>	4 OR 3	MATH 107 ---	College Algebra * See Electives Table	4 OR 3	Gen Ed Math & Prereq See Electives Table
Semester 2						
NET 139	Microsoft Desktop Operate Sys	4	---	---	4	Free Elective
NET 166	Applied Computer Security	3	---	---	3	Free Elective
NET 225	Routing & Switching Essential	4	<i>Completing NET 213 & NET 225 fulfills UIU's IT 311</i>		4	Free Elective
NET 402	Linux Network Administration	3	---	---	3	Free Elective
ENG 105 OR Communications Elective	Composition I <i>(Elective)</i>	3 OR 3	ENG 101 ---	English Composition I * See Electives Table	3 OR 3	Gen Ed Comm./Wrtn See Electives Table
Semester 3						
NET 201	Web Concepts for Network Admin	3	---	---	3	Free Elective
NET 315	Cloud Systems Administration	3	---	---	3	Free Elective
NET 226	Scaling Networks	4	IT 348	Advanced Networks * [@] <i>(Requires both NET 226 & NET 227)</i>	4	Elective
Social & Behavioral Science Elective		3	---	See Electives Table	3	See Electives Table
Semester 4						
SPC 101	Fund of Oral Communication	3	COMM 105	Public Speaking	3	Gen Ed Comm./Oral
NET 163	Installing & Configuring Windows Server	3	---	---	3	Free Elective
NET 168	Administering Windows Server	3	---	---	3	Free Elective
NET 227	Connecting Networks	4	<i>Completing NET 226 & NET 227 fulfills UIU's IT 348</i>		4	Free Elective
NET 435	Linux Programming for Admin	3	CS 213	Operating Systems * [@] <i>(Requires both NET 412 & NET 435)</i>	3	Major
Semester 5						
NET 173	Configuring Advanced Windows Server Services	4	---	---	4	Free Elective
NET 412	Linux System Administration	3	<i>Completing NET 412 & NET 435 fulfills CS 213</i>		3	Free Elective
NET 432	Linux System Security	3	---	---	3	Free Elective
NET 350	Cisco Security	4	---	---	4	Free Elective

Total occupational course credits earned:	75-76
Total credits required for graduation:	75
Total transferable credits [#] :	75-76

Total course credits accepted: 75-76

UIU recommendations are **bolded**.

Years 3 & 4 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	<i>(Social & Behavioral Sci. Elective if applicable)</i>
	any Gen Ed in Arts/Humanities	3	Gen Ed Arts/Humanities	---
<i>ENG 101</i>	<i>English Composition I</i>	<i>3</i>	<i>Gen Ed Comm./Wrtn</i>	<i>ENG 105</i>
ENG 102	English Composition II	3	Gen Ed Comm./Wrtn	---
<i>COMM 105</i>	<i>Public Speaking</i>	<i>3</i>	<i>Gen Ed Comm./Oral</i>	<i>SPC 101</i>
	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	---
	any Gen Ed in Social Science	3	Gen Ed Social Science	---
	any Gen Ed in Cultures	(3)	Gen Ed Cultures	---
Prerequisites				
<i>MATH 107</i>	<i>College Algebra*</i>	<i>3</i>	<i>Gen Ed Math & Prereq for MATH 220</i>	<i>MAT 121</i>
Major Courses				
CS 102	Intro Computer Applications & Technology	3	Gen Ed Computer Skills & Major	---
MATH 115	Trigonometry and Analytic Geometry	3	Major	---
<i>CS 122</i>	<i>IT Infrastructure</i>	<i>4</i>	<i>Major</i>	<i>NET 123</i>
CS 130	Foundations of Information Systems	3	Major	---
CS 140	Introduction to Programing	4	Major	---
CS 206	Computer Architecture	4	Major	---
<i>CS 213</i>	<i>Operating Systems</i>	<i>4</i>	<i>Major</i>	<i>NET 412 & NET 435</i>
MATH 220	Elementary Statistics	3	Major	---
<i>IT 311</i>	<i>Networking*</i>	<i>4</i>	<i>Major</i>	<i>NET 213 & NET 225</i>
IT 320	Web Systems and System Integration	4	Major	---
CS 332	Databases and Information Management	3	Major	---
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>Elective</i>	<i>NET 226 & NET 227</i>
Upper-division Electives <i>(from list below)</i>		6	Major	---
Upper-division Electives		6	Degree Requirements	---
Total additional credits needed at UIU to complete degree:		73		
Total transferable credits from DMACC:		75-76		
Total Earned Credits:		148-149		

Courses to be taken at Upper Iowa University

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	
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.
- () signifies credit listed within may change depending on course selection within UIU major.
- @ 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 Des Moines Area Community College. A minimum of 30 credits must be upper-division credits for a UIU baccalaureate degree; lower-division transfer work from Des Moines Area Community College does not contribute to the upper-division credit requirement at UIU.

This program transfer guide is based on the August 2019 course-to-course articulation (UIU 2019-2020 catalog & DMACC 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.

DMACC Electives Table						
DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Communication Electives						
ADM 157	Business English	3	---	---	3	Free Elective
COM 703	Communication Skills	3	---	---	3	Free Elective
ENG 105	Composition I	3	ENG 101	English Composition I •	3	Gen Ed Comm./Wrtn
ENG 106	Composition II	3	ENG 102	English Composition II •	3	Gen Ed Comm./Wrtn
ENG 108	Comp II: Technical Writing	3	---	---	3	Free Elective

DMACC Electives Table (cont.)

DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Mathematics Electives						
MAT 110	Math for Liberal Arts	3	---	---	3	Free Elective
MAT 114	Elementary Educators Math I	3	EDU 253	Mathematics for Elementary and Middle School Teachers	3	Free Elective
MAT 116	Elementary Educators Math II	3	---	---	3	Free Elective
MAT 121	College Algebra	4	MATH 107	College Algebra •	4	Gen Ed Mathematics
MAT 129	Precalculus	5	MATH 107	College Algebra •	5	Gen Ed Mathematics
MAT 130	Trigonometry	3	MATH 115	Trigonometry and Analytic Geometry •	3	Gen Ed Mathematics
MAT 141	Finite Math	4	---	---	4	Free Elective
MAT 157	Statistics	4	MATH 220	Elementary Statistics •	4	Gen Ed Mathematics
MAT 162	Prin. of Business Statistics	4	BA 256	Quantitative Analysis for Business I •	4	Free Elective
MAT 164	Calculus for Busn/Social Sci	4	MATH 109	Quantitative Methods •	4	Gen Ed Mathematics
MAT 211	Calculus I	5	MATH 120	Calculus I •	5	Gen Ed Mathematics
MAT 217	Calculus II	5	MATH 200	Calculus II •	5	Free Elective
MAT 219	Calculus III	4	MATH 215	Multivariable Calculus •	4	Free Elective
MAT 227	Diff Equations with Laplace	4	MATH 300	Differential Equations •	4	Free Elective
MAT 772	Applied Math	3	---	---	3	Free Elective
MAT 773	Applied Math II	3	---	---	3	Free Elective
Social & Behavioral Science /Humanities Electives						
AGB 101	Agricultural Economics	3	---	---	3	Free Elective
ANT 100	Introduction to Anthropology	3	---	---	3	Gen Ed Cultures
ANT 105	Cultural Anthropology	3	ANTH 110	Introduction to Cultural Anthropology	3	Gen Ed Cultures or Gen Ed Soc. Sci.
ART 101	Art Appreciation	3	ART 100	Introduction to Art	3	Gen Ed Arts/Humn.
ART 184	Principles of Photography	3	---	---	3	Gen Ed Arts/Humn.
ART 186	Principles Digital Photograph	3	GRAF 218	Digital Photography and Editing	3	Gen Ed Arts/Humn.
COM 146	Gender, Sexuality and Media	3	---	---	3	Gen Ed Soc. Sci.
COM 148	Diversity and the Media	3	---	---	3	Gen Ed Cultures
DRA 101	Introduction to Theatre	3	THE 110	Introduction to Theatre	3	Gen Ed Arts/Humn.
ECN 120	Principles of Macroeconomics	3	ECON 161	Principles of Macroeconomics •	3	Gen Ed Soc. Sci.
ECN 130	Principles of Microeconomics	3	ECON 160	Principles of Microeconomics	3	Gen Ed Soc. Sci.
FLA 141	Elementary Arabic I	4	---	---	4	Gen Ed Arts/Humn.
FLA 142	Elementary Arabic II	4	---	---	4	Gen Ed Arts/Humn.
FLA 241	Intermediate Arabic I	4	---	---	4	Gen Ed Arts/Humn.
FLA 242	Intermediate Arabic II	4	---	---	4	Gen Ed Arts/Humn.
FLC 141	Elementary Chinese I	4	---	---	4	Gen Ed Arts/Humn.
FLC 142	Elementary Chinese II	4	---	---	4	Gen Ed Arts/Humn.
FLC 241	Intermediate Chinese I	4	---	---	4	Gen Ed Arts/Humn.
FLC 242	Intermediate Chinese II	4	---	---	4	Gen Ed Arts/Humn.
FLF 151	Elementary French I	5	---	---	5	Gen Ed Arts/Humn.
FLF 152	Elementary French II	5	---	---	5	Gen Ed Arts/Humn.
FLF 241	Intermediate French I	4	---	---	4	Gen Ed Arts/Humn.
FLF 242	Intermediate French II	4	---	---	4	Gen Ed Arts/Humn.

DMACC Electives Table (cont.)						
DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Social & Behavioral Science /Humanities Electives (cont.)						
FLG 141	Elementary German I	4	---	---	4	Gen Ed Arts/Humn.
FLG 142	Elementary German II	4	---	---	4	Gen Ed Arts/Humn.
FLG 241	Intermediate German I	4	---	---	4	Gen Ed Arts/Humn.
FLG 242	Intermediate German II	4	---	---	4	Gen Ed Arts/Humn.
FLI 141	Elementary Italian I	4	---	---	4	Gen Ed Arts/Humn.
FLI 142	Elementary Italian II	4	---	---	4	Gen Ed Arts/Humn.
FLI 241	Intermediate Italian I	4	---	---	4	Gen Ed Arts/Humn.
FLI 242	Intermediate Italian II	4	---	---	4	Gen Ed Arts/Humn.
FLJ 141	Elementary Japanese I	4	---	---	4	Gen Ed Arts/Humn.
FLJ 142	Elementary Japanese II	4	---	---	4	Gen Ed Arts/Humn.
FLJ 241	Intermediate Japanese I	4	---	---	4	Gen Ed Arts/Humn.
FLJ 242	Intermediate Japanese II	4	---	---	4	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 181	Spanish for Heritage Spkrs I	4	---	---	4	Free Elective
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.
FLS 281	Spanish for Heritage Spkrs II	4	---	---	4	Free Elective
GEO 111	Intro to Geography	3	GEOG 200	World Regional Geography	3	Gen Ed Soc. Sci.
GEO 124	Reg Geog of the NonWest World	3	---	---	3	Gen Ed Cultures
GEO 125	Regional Geog of the Dev World	3	---	---	3	Gen Ed Soc. Sci.
HIS 112	West Civ: Ancient to Early Mod	4	---	---	4	Gen Ed Soc. Sci.
HIS 113	West Civ: Early Modern to Pres	4	---	---	4	Gen Ed Soc. Sci.
HIS 150	U.S. History to 1877	4	HIST 110	American History to 1877	4	Gen Ed Soc. Sci.
HIS 153	U.S. History since 1877	4	HIST 111	American History Since 1877	4	Gen Ed Soc. Sci.
HIS 257	African-American History	3	HIST 330	African American History	3	Gen Ed Soc. Sci.
HUM 116	Encounters in Humanities	3	---	---	3	Gen Ed Arts/Humn.
HUM 120	Introduction to Film	3	COMM 290	The Movies (also ENG 290)	3	Gen Ed Arts/Humn.
HUM 121	America in the Movies	3	ENG 290	The Movies (also COMM 290)	3	Gen Ed Arts/Humn.
JOU 110	Intro to Mass Media	3	---	---	3	Gen Ed Soc. Sci.
JOU 113	Gender, Sexuality and Media	3	---	---	3	Gen Ed Soc. Sci.
JOU 114	Diversity and the Media	3	---	---	3	Gen Ed Soc. Sci.
LIT 101	Intro to Literature	3	ENG 125	Introduction to Literature	3	Gen Ed Arts/Humn.
LIT 110	Amer Literature to Mid 1800s	3	ENG 209	American Literature I	3	Gen Ed Arts/Humn.
LIT 111	Amer Literature since Mid 1800	3	ENG 210	American Literature II	3	Gen Ed Arts/Humn.
LIT 130	African-American Literature	3	ENG 265	African American Literature	3	Gen Ed Arts/Humn. or Gen Ed Cultures
LIT 142	Major British Writers	3	ENG 212	British Literature II	3	Gen Ed Arts/Humn.
LIT 150	World Literature I	3	---	---	3	Gen Ed Arts/Humn.
LIT 151	World Literature II	3	ENG 214	World Literature Survey	3	Gen Ed Arts/Humn.
LIT 166	Science Fiction	3	---	---	3	Gen Ed Arts/Humn.
LIT 185	Contemporary Literature	3	---	---	3	Gen Ed Arts/Humn.
LIT 188	Detective Fiction	3	---	---	3	Gen Ed Arts/Humn.
LIT 190	Women Writers	3	---	---	3	Free Elective

DMACC Electives Table (cont.)						
DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Social & Behavioral Science /Humanities Electives (cont.)						
LIT 193	Humor in Literature	3	---	---	3	Gen Ed Arts/Humn.
LIT 209	Literature Film Adaptation	3	---	---	3	Gen Ed Arts/Humn.
MGT 145	Human Relations in Management	3	---	---	3	Free Elective
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.
MUS 202	World Music	3	---	---	3	Gen Ed Arts/Humn.
MUS 205	Jazz History and Appreciation	3	MUS 200	American Jazz Styles	3	Gen Ed Arts/Humn.
PHI 101	Introduction to Philosophy	3	PHIL 150	Intro to Philosophy	3	Gen Ed Arts/Humn.
PHI 105	Introduction to Ethics	3	PHIL 202	Contemporary Ethics	3	Gen Ed Arts/Humn.
PHI 110	Introduction to Logic	3	---	---	3	Gen Ed Arts/Humn.
POL 111	American National Government	3	PS 100	U.S. Government	3	Gen Ed Soc. Sci.
POL 112	Amer State & Local Government	3	PS 230	State & Local Government	3	Gen Ed Soc. Sci.
POL 121	International Relations	3	PS 211	International Relations	3	Gen Ed Soc. Sci.
POL 125	Comparative Gov't & Politics	3	PS 212	Comparative Politics	3	Gen Ed Soc. Sci.
POL 171	Intro to Public Administration	3	---	---	3	Free Elective
PSY 102	Human and Work Relations	3	---	---	3	Gen Ed Soc. Sci.
PSY 111	Introduction to Psychology	3	PSY 190	General Psychology	3	Gen Ed Soc. Sci.
PSY 121	Developmental Psychology	3	EDU 142	Human Growth, Development & Guidance	3	Gen Ed Soc. Sci.
PSY 241	Abnormal Psychology	3	PSY 360	Abnormal Psychology *	3	Free Elective
PSY 251	Social Psychology	3	PSY 310	Social Psychology (also SOC 310) *	3	Free Elective
PSY 261	Human Sexuality	3	PSY 270	Human Sexuality	3	Gen Ed Soc. Sci.
REL 101	Survey of World Religions	3	REL 120	Intro to World Religions	3	Gen Ed Arts/Humn.
SOC 110	Introduction to Sociology	3	SOC 110	Principles of Sociology	3	Gen Ed Soc. Sci.
SOC 115	Social Problems	3	SOC 220	Social Problems	3	Gen Ed Soc. Sci.
SOC 120	Marriage & Family	3	SOC 361	Marriage and the Family *	3	Free Elective
SOC 200	Minority Group Relations	3	SOC 240	Diversity in the US	3	Gen Ed Cultures or Gen Ed Soc. Sci.