

Program Transfer Guide

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

CYBERSECURITY

→ **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						
SDV 108	The College Experience	1	---	---	1	Free Elective
MAT 772	Applied Math	3	---	---	3	Free Elective
NET 213	Cisco Networking	4	IT 311	Networking* <i>(Requires both NET 213 & NET 225)</i>	4	Major
NET 202	Programming for Network Administrators	3	---	---	3	Free Elective
CIS 125	Intro to Programming Logic	3	---	---	3	Free Elective
ENG 105	Composition I	3	ENG 101	English Composition I*	3	Gen Ed Comm./Wrtn
Semester 2						
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
CIS 171	Java	3	---	---	3	Free Elective
PHI 105	Introduction to Ethics	3	PHIL 202	Contemporary Ethics	3	Gen Ed Arts/Humn.
Semester 3						
NET 168	Administering Windows Server	3	---	---	3	Free Elective
NET 315	Cloud Systems Administration	3	---	---	3	Free Elective
NET 373	Forensic Prac Cybersecurity	4	---	---	4	Free Elective
CIS 303	Introduction to Database	3	---	---	3	Free Elective
Social Behavioral Sciences Electives		3	---	---	3	Free Elective
Semester 4						
NET 350	Cisco Security	4	---	---	4	Free Elective
NET 377	Ethical Hacking Prac Cybersec	4	---	---	4	Free Elective
CIS 332	Database and SQL	3	CS 332	Databases & Info Mgmt.*	3	Major
NET 932	Internship	3	---	---	3	Free Elective
ENG 106	Composition II	3	ENG 102	English Composition II*	3	Gen Ed Comm./Wrtn

Total occupational course credits earned:	66
Total credits required for graduation:	66
Total transferable credits#:	66

Total course credits accepted: 66

UIU recommendations are **bolded**.

Years 3 & 4 at Upper Iowa University:

UIU Program Course List		# Cr	Requirement Fulfilled	Transferred In
General Education Courses				
	<i>any Gen Ed in Arts/Humanities</i>	3	<i>Gen Ed Arts/Humanities</i>	<i>PHIL 202</i>
	any Gen Ed in Arts/Humanities	3	Gen Ed Arts/Humanities	---
<i>ENG 101</i>	<i>English Composition I</i>	3	<i>Gen Ed Comm./Wrtn</i>	<i>ENG 105</i>
<i>ENG 102</i>	<i>English Composition II</i>	3	<i>Gen Ed Comm./Wrtn</i>	<i>ENG 106</i>
COMM 105 OR COMM 200	Public Speaking Interpersonal Communication	3	Gen Ed Comm./Oral	---
	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				
MATH 107	College Algebra *	3	Gen Ed Mathematics	---
Major Courses				
CS 102	Intro Computer Applications & Technology	3	Gen Ed Computer Skills & Major	---
MATH 115	Trigonometry and Analytic Geometry *	3	Major	---
CS 122	IT Infrastructure	4	Major	---
CS 130	Foundations of Information Systems	3	Major	---
CS 140	Introduction to Programing	4	Major	---
CS 206	Computer Architecture	4	Major	---
CS 213	Operating Systems	4	Major	---
MATH 220	Elementary Statistics	3	Major	---
<i>IT 311</i>	<i>Networking *</i>	<i>4</i>	<i>Major</i>	<i>NET 213</i>
IT 320	Web Systems and System Integration *	4	Major	---
<i>CS 332</i>	<i>Databases and Information Management *</i>	<i>3</i>	<i>Major</i>	<i>CIS 332</i>
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	---
Information Technology Upper-Division Electives		6	Major	---
Upper-division Electives		9	Degree Requirements	---
Total additional credits needed at UIU to complete degree:		84		
Total transferable credits from DMACC:		66		
Total Earned Credits:		150		

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 348	Advanced Networks
IT 370	Network Management

Information Technology Elective Options at UIU (cont.)	
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.
- ▲ notates courses that are upper-division that have an option of taking at DMACC, however, would require an upper-division course in place of this to meet degree requirement.
- • 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.

Elective Transfer Table						
DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Social Behavioral Sciences /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 & 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.

Elective Transfer Table (cont.)

DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Social Behavioral Sciences /Humanities Electives (cont.)						
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.
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.

Elective Transfer Table (cont.)

DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Social Behavioral Sciences /Humanities Electives (cont.)						
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
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	Introduction 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 and 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 & the Family •	3	Free Elective
SOC 200	Minority Group Relations	3	SOC 240	Diversity in the United States	3	Gen Ed Cultures or Gen Ed Soc. Sci.

Maximize Your Transfer to UIU

Take up to 12 credits to fulfill general education and major requirements.

Choose up to 12 additional credits at Des Moines Area Community College to transfer into Upper Iowa University to fulfill general education and major 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 12 credits from the following areas:

- Arts/Humanities General Education Requirement – up to 3 credits
- Oral Communication General Education Requirement – Up to 3 credits
- Computer Skills General Education Requirement – up to 3 credits
- Mathematics General Education Requirement – up to 3 credits
- Natural Science General Education Requirement – up to 6 credits
- Social Science General Education Requirement – up to 6 credits
- Cultures General Education Requirement – up to 3 credits
- Major Electives

LEGEND:

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

<i>Additional Elective Transfer Guide</i>						
DMACC 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 133	Drawing Lab	3	ART 110	Drawing	3	Gen Ed Arts/Humn.
ART 143	Painting	3	ART 202	Painting	3	Gen Ed Arts/Humn.
ART 148	Landscape Painting	3	---	---	3	Gen Ed Arts/Humn.
ART 173	Ceramics	3	ART 222	Ceramics/Hand Building	3	Gen Ed Arts/Humn.
ART 174	Ceramics II	3	ART 222	Ceramics/Hand Building	3	Gen Ed Arts/Humn.
ART 176	Tilemaking	3	---	---	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.
ART 190	History of Photography	3	---	---	3	Gen Ed Arts/Humn.
ART 195	Design: Exploring Art Media	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.
ART 226	Alternative Photo Processes	3	---	---	3	Gen Ed Arts/Humn.
ART 292	Studio Photography	3	---	---	3	Gen Ed Arts/Humn.
DRA 101	Introduction to Theatre	3	THE 110	Introduction to Theatre	3	Gen Ed Arts/Humn.
ENG 221	Creative Writing	3	ENG 170	Introduction to Creative Writing	3	Gen Ed Arts/Humn.
ENG 225	Creative Writing: Poetry	3	---	---	3	Gen Ed Arts/Humn.
ENG 230	Creative Writing: Fiction	3	---	---	3	Gen Ed Arts/Humn.
ENG 235	Playwriting and Screenwriting	3	---	---	3	Gen Ed Arts/Humn.
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.

Additional Elective Transfer Guide (cont.)

DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Arts/Humanities General Education Requirement (cont.)						
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.
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 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.
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.
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 180	Mythology	3	ENG 216	Mythology	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 193	Humor in Literature	3	---	---	3	Gen Ed Arts/Humn.
LIT 209	Literature Film Adaptation	3	---	---	3	Gen Ed Arts/Humn.
LIT 210	The Graphic Novel	3	---	---	3	Gen Ed Arts/Humn.
MMS 480	Video Production I	3	GRAF 319	Digital Video and Editing	3	Gen Ed Arts/Humn.
MUS 100	Music Appreciation	3	MUS 100	Introduction to Music	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.

Additional Elective Transfer Guide (cont.)

DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Arts/Humanities General Education Requirement (cont.)						
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.
PRL 143	Business Organization Law	3	---	---	3	Gen Ed Arts/Humn.
REL 101	Survey of World Religions	3	REL 120	Introduction to World Religions	3	Gen Ed Arts/Humn.
Communications General Education Requirement						
SPC 101	Fund of Oral Communication	3	COMM 105	Public Speaking	3	Gen Ed Comm./Oral
SPC 122	Interpersonal Communication	3	COMM 200	Interpersonal Communication	3	Gen Ed Comm./Oral
SPC 126	Interpersonal & Small Group Comm	3	COMM 200	Interpersonal Communication	3	Gen Ed Comm./Oral
Computer Skills General Education Requirement						
BCA 212	Intro Computer Business Appl	3	CS 102	Intro to Computer Appls and Technology	3	Gen Ed Comp. Skills
CSC 110	Intro to Computers	3	CS 102	Intro to Computer Appls and Technology	3	Gen Ed Comp. Skills
Cultures General Education Requirement						
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.
ANT 125	Applications of Anthropology	3	---	---	3	Gen Ed Cultures
ANT 150	Global Issues-Local Perspec	3	---	---	3	Gen Ed Cultures
ASM 180	Cultural Diversity	1	---	---	1	Gen Ed Cultures
ASM 295	Death and Dying	3	PSY 321	Death and Dying	3	Gen Ed Cultures or Gen Ed Soc. Sci.
COM 148	Diversity and the Media	3	---	---	3	Gen Ed Cultures
GEO 124	Reg Geog of the NonWest World	3	---	---	3	Gen Ed Cultures
GLS 199	Japan: The Changing Tradition	2	---	---	2	Gen Ed Cultures
GLS 200	Country Study	3	---	---	3	Gen Ed Cultures
GLS 220	The Middle East and Islam	3	---	---	3	Gen Ed Cultures
GLS 230	Latin America	3	---	---	3	Gen Ed Cultures
GLS 235	Intro to International Studies	3	---	---	3	Gen Ed Cultures
HIS 211	Modern Asian History	3	HIST 302	Modern East Asia	3	Gen Ed Cultures
LIT 130	African-American Literature	3	ENG 265	African American Literature	3	Gen Ed Cultures or Gen Ed Arts/Humn.
SOC 200	Minority Group Relations	3	SOC 240	Diversity in the US	3	Gen Ed Cultures or Gen Ed Soc. Sci.
SPC 120	Intercultural Communication	3	COMM 221	Intercultural Communication	3	Gen Ed Cultures
Natural Science General Education Requirement						
AGV 129	Veterinary Physiology	3	---	---	3	Gen Ed Nat. Sci.
BIO 104	Introductory Biology w/lab	3	BIO 100	General Biological Science	3	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 135	Introduction to Botany	4	BIO 231	General Botany	4	Gen Ed Nat. Sci.
BIO 145	Ecology of Iowa	3	BIO 215	Local Field Science	3	Gen Ed Nat. Sci.
BIO 146	Genetics	3	---	---	3	Gen Ed Nat. Sci.

Additional Elective Transfer Guide (cont.)

DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Natural Science General Education Requirement (cont.)						
BIO 151	Nutrition	3	BIO 165	Human Biology & Nutrition	3	Gen Ed Nat. Sci.
BIO 156	Human Biology w/lab	3	---	---	3	Gen Ed Nat. Sci.
BIO 164	Essentials Anatomy/Physiology	5	BIO 268	Introduction to Human Anatomy and Physiology	5	Gen Ed Nat. Sci.
BIO 168	Anatomy & 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.
BIO 225	Marine Biology I	4	---	---	4	Gen Ed Nat. Sci.
BIO 227	Marine Biology II	4	---	---	4	Gen Ed Nat. Sci.
BIO 260	Biology of Aging	3	---	---	3	Gen Ed Nat. Sci.
BIO 295	General Ecology and Lab	4	---	---	4	Gen Ed Nat. Sci.
BIO 732	Health Science Microbiology	4	---	---	4	Gen Ed Nat. Sci.
CHM 105	Survey of Chemistry	3	CHEM 140	Chemistry for Everyday Life	3	Gen Ed Nat. Sci.
CHM 122	Intro to General Chemistry	4	---	---	4	Gen Ed Nat. Sci.
CHM 132	Intro to Organic/Biochemistry	4	---	---	4	Gen Ed Nat. Sci.
CHM 165	General/ Inorg Chemistry I	4	CHEM 151	General Chemistry I	4	Gen Ed Nat. Sci.
CHM 175	General/ Inorg Chemistry II	4	CHEM 152	General Chemistry II	4	Gen Ed Nat. Sci.
ENV 115	Environmental Science	3	ES 161	Introduction to Environmental Science	3	Gen Ed Nat. Sci.
PHS 166	Meteorology, Weather & Climate	4	---	---	4	Gen Ed Nat. Sci.
PHY 106	Survey of Physics	4	PHY 105	Conceptual Physics	4	Gen Ed Nat. Sci.
PHY 160	General Physics I	5	PHY 111	Introductory Physics I	5	Gen Ed Nat. Sci.
PHY 161	General Physics II	5	PHY 113	Introductory Physics II	5	Gen Ed Nat. Sci.
PHY 213	Classical Physics I	6	PHY 111	Introductory Physics I	6	Gen Ed Nat. Sci.
PHY 223	Classical Physics II	6	PHY 113	Introductory Physics II	6	Gen Ed Nat. Sci.
PHY 710	Technical Physics	3	---	---	3	Gen Ed Nat. Sci.
VIN 249	Plant Physiology	4	---	---	4	Gen Ed Nat. Sci.
Social Science General Education Requirement						
ANT 105	Cultural Anthropology	3	ANTH 110	Introduction to Cultural Anthropology	3	Gen Ed Cultures or Gen Ed Soc. Sci.
ANT 202	Human Origins	3	---	---	3	Gen Ed Soc. Sci.
ASM 295	Death and Dying	3	PSY 321	Death and Dying	3	Gen Ed Cultures or Gen Ed Soc. Sci.
COM 146	Gender, Sexuality and Media	3	---	---	3	Gen Ed Soc. Sci.
CRJ 100	Intro to Criminal Justice	3	CJ 224	Introduction to Criminal Justice	3	Gen Ed Soc. Sci.
CRJ 107	Survey Crim Justice Agencies	3	---	---	3	Gen Ed Soc. Sci.
CRJ 222	Correctional Treatment Methods	3	---	---	3	Gen Ed Soc. Sci.
CRJ 238	Corrections & Constitutional Law	3	---	---	3	Gen Ed Soc. Sci.
CRJ 303	Intel Analysis & Sec Mgmt	3	---	---	3	Gen Ed Soc. Sci.
ECE 170	Child Growth & Development	3	PSY 212	Developmental Psychology: Birth to Adolescence	3	Gen Ed Soc. Sci.
ECN 120	Principles of Macroeconomics	3	ECON 161	Principles of Macroeconomics	3	Gen Ed Soc. Sci.

Additional Elective Transfer Guide (cont.)

DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Social Science General Education Requirement (cont.)						
ECN 130	Principles of Microeconomics	3	ECON 160	Principles of Microeconomics	3	Gen Ed Soc. Sci.
GEO 111	Intro to Geography	3	GEOG 200	World Regional Geography	3	Gen Ed Soc. Sci.
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 201	Iowa History	3	HIST 222	History of Iowa	3	Gen Ed Soc. Sci.
HIS 216	History of Modern Russia	4	---	---	4	Gen Ed Soc. Sci.
HIS 257	African-American History	3	HIST 330	African American History	3	Gen Ed Soc. Sci.
HIS 266	The Civil War	3	---	---	3	Gen Ed Soc. Sci.
HSV 133	Conflict Resolution	3	PSY 240	Conflict Resolution	3	Gen Ed Soc. Sci.
HSV 135	Women's Issues	3	---	---	3	Gen Ed Soc. Sci.
HSV 185	Discrimination and Diversity	3	---	---	3	Gen Ed Soc. Sci.
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.
MGT 128	Organizational Behavior	3	---	---	3	Gen Ed Soc. Sci.
MOR 320	Thanatology	3	---	---	3	Gen Ed Soc. Sci.
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 and 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.
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 140	Exploring Mental Health	3	---	---	3	Gen Ed Soc. Sci.
PSY 261	Human Sexuality	3	PSY 270	Human Sexuality	3	Gen Ed Soc. Sci.
PSY 291	Prin. of Behavior Modification	3	---	---	3	Gen Ed Soc. Sci.
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 165	Group Dynamics	3	PSY 232	Group Dynamics (also SOC 232)	3	Gen Ed Soc. Sci.
SOC 200	Minority Group Relations	3	SOC 240	Diversity in the United States	3	Gen Ed Cultures or Gen Ed Soc. Sci.
SOC 282	Environmental Sociology	3	---	---	3	Gen Ed Soc. Sci.
Mathematics General Education Requirement						
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 & Major
MAT 157	Statistics	4	MATH 220	Elementary Statistics	4	Gen Ed Mathematics & Major

Additional Elective Transfer Guide (cont.)

DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
Mathematics General Education Requirement (cont.)						
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
Major Requirement						
CIS 161 AND CIS 169 AND CIS 171	C++ C# Java	3 3 3	CS 140 --- ---	Intro to Programing • (Requires all CIS 161, CIS 169 & CIS 171) --- ---	3 AND 3 AND 3	Major Free Elective Free Elective
OR			OR			
CIS 402 AND CIS 413	COBOL COBOL II	3 4	CS 140 ---	Intro to Programing • (Requires both CIS 402, CIS 413) ---	3 AND 4	Major Free Elective
OR			OR			
CIS 604	Visual Basic	3	CS 140	Intro to Programing •	3	Major
ELT 652 OR NET 123	Computer Repair & Networking Computer Hardware Basics	4 4	CS 122	IT Infrastructure •	4	Major
ELT 622 AND ELT 623	Microcontrollers Microcontrollers Lab	3 1	CS 206 ---	Computer Architecture • (Requires both ELT 622 & ELT 623) ---	3 AND 1	Major Free Elective
OR			OR			
NET 144 AND NET 145	Digital & Computer Electronics Digital & Computer Elect. Lab	3 3	CS 206 ---	Computer Architecture • (Requires both NET 144 & NET 145) ---	3 AND 3	Major Free Elective
INF 220	Human-Computer Interaction	3	CS 342	Human Computer Interaction •	3	
MAT 130	Trigonometry	3	MATH 115	Trigonometry and Analytic Geometry •	3	Gen Ed Mathematics & Major
MAT 157	Statistics	4	MATH 220	Elementary Statistics •	4	Gen Ed Mathematics & Major
NET 412 AND NET 435	Linux System Administration Linux Programming for Admin	3 3	CS 213 ---	Operating Systems • (Requires both NET 412 & NET 435) ---	3 AND 3	Major Free Elective