

## Program Transfer Guide

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

**HEALTH INFORMATION TECHNOLOGY**

**→ UIU Bachelor of Science (BS) in**

**HEALTH SERVICES ADMINISTRATION – GENERAL EMPHASIS**

**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
<b>Semester 1</b>						
CSC 110	Intro to Computers	3	CS 102	Intro Computer Appls & Tech	3	Gen Ed Comp. Skills
HIT 390	Intro HIT Project Management	1	---	---	1	Free Elective
HIT 125	Essentials of Health Records	2	---	---	2	Free Elective
HSC 120	Medical Terminology I	3	---	---	3	Free Elective
HIT 360	Introduction to HIT	3	---	---	3	Free Elective
<b>Semester 2</b>						
HIT 450	Health Statistics	2	---	---	2	Free Elective
MAP 141	Medical Insurance	3	---	---	3	Free Elective
HSC 121	Medical Terminology II	3	---	---	3	Free Elective
HIT 120	Pharmacology for HIT	1	---	---	1	Free Elective
INF 110	Fundamental Informatics	3	HSA 241	Healthcare Informatics	3	Major
SPC 101 OR	Fund of Oral Communication	3 OR	COMM 105	Public Speaking	3 OR	Gen Ed Comm./Oral
SPC 122	Interpersonal Communication	3	COMM 200	Interpersonal Communication	3	Gen Ed Comm./Oral
<b>Semester 3</b>						
HIT 520	Internship I	2	---	---	2	Free Elective
ENG 105	Composition I	3	ENG 101	English Composition I *	3	Gen Ed Comm./Wrtn
BIO 733	Health Science Anatomy	3	---	---	3	Free Elective
HIT 162	Data Security for Health IT	2	---	---	2	Free Elective
<b>Semester 4</b>						
HIT 315	Electronic App for Health Data	2	---	---	2	Free Elective
MAP 144	Beginning Medical Coding	3	---	---	3	Free Elective
PSY 102 OR	Human and Work Relations	3 OR	---	---	3 OR	Gen Ed Soc. Sci.
PSY 111	Introduction to Psychology	3	PSY 190	General Psychology	3	Gen Ed Soc. Sci.
<b>ENG 106</b> OR	<b>Composition II</b>	<b>3</b> OR	<b>ENG 102</b>	<b>English Composition II *</b>	<b>3</b> OR	<b>Gen Ed Comm./Wrtn</b>
ENG 108	Comp II: Technical Writing	3	---	---	3	Free Elective
CIS 125 OR	Intro to Programming Logic	3 OR	---	---	3 OR	Free Elective
CIS 303	Introduction to Database	3	---	---	3	Free Elective
<b>Semester 5</b>						
HIT 420	Legal Aspects of Health Info	2	---	---	2	Free Elective
HIT 290	Reimbursement Methods	3	---	---	3	Free Elective
HIT 429	Quality Improvement	3	---	---	3	Free Elective
HIT 521	Internship II	4	---	---	4	Free Elective
HIT 339	Quality Management	2	---	---	2	Free Elective

Total occupational course credits earned:	65
Total credits required for graduation:	65
Total transferable credits#:	65

Total course credits accepted: 65

UIU recommendations are **bolded**.

**Years 3 & 4 at Upper Iowa University:**

UIU Program Course List		# Cr	Requirement Fulfilled	Transferred In
<b>General Education Courses</b>				
	any Gen Ed in Arts/Humanities	3	Gen Ed Arts/Humanities	---
	any Gen Ed in Arts/Humanities	3	Gen Ed Arts/Humanities	---
<i>ENG 101</i>	<i>English Composition I</i>	<del>3</del>	<i>Gen Ed Comm./Wrtn</i>	<i>ENG 105</i>
<i>ENG 102</i>	<i>English Composition II</i>	<del>3</del>	<i>Gen Ed Comm./Wrtn</i>	<i>ENG 106</i>
<i>COMM 105</i> OR <i>COMM 200</i>	<i>Public Speaking</i>  <i>Interpersonal Communication</i>	<del>3</del>	<i>Gen Ed Comm./Oral</i>	<i>SPC 101</i> OR <i>SPC 122</i>
<i>CS 102</i>	<i>Intro Computer Applications &amp; Technology</i>	<del>3</del>	<i>Gen Ed Computer Skills</i>	<i>CSC 110</i>
<b>MATH 105</b> or higher	College Algebra w/ Applications	3	Gen Ed Mathematics	---
	any Gen Ed in Natural Science	3	Gen Ed Natural Science	---
	any Gen Ed in Natural Science	3	Gen Ed Natural Science	---
	<i>any Gen Ed in Social Science</i>	<del>3</del>	<i>Gen Ed Social Science</i>	<i>ECON 160</i>
	<i>any Gen Ed in Social Science</i>	<del>3</del>	<i>Gen Ed Social Science</i>	<i>PSY 102 or PSY 111</i>
	any Gen Ed in Cultures	3	Gen Ed Cultures	---
<b>Business Core Courses</b>				
ECON 160	Principles of Microeconomics	3	Business Core	---
ACCT 201	Accounting Principles I	3	Business Core	---
BA 210	Management Principles	3	Business Core	---
BA 361	Human Resources Management ▲	3	Business Core	---
BA 460	Strategic Management	3	Business Core	---
<b>Major Courses</b>				
HSA 205	Intro to the American Health System	3	Major	---
<i>HSA 241</i>	<i>Healthcare Informatics</i>	<del>3</del>	<i>Major</i>	<i>INF 110</i>
HSA 344	Population Health Management	3	Major	---
HSA 360	Health Care Law & Ethics ▲	3	Major	---
HSA 362	Financial Management of Health Care Organizations	3	Major	---
HSA 440	Health Services Administration	3	Major	---
HSA 460	Health Services Policy & Regulation	3	Major	---
HSA 490	Health Program Planning & Evaluation	3	Major	---
HSA 306	Long Term Care Administration	3	Emphasis	---
HSA 312	Community & Public Health	3	Emphasis	---
ECON 455	Economics of Health and Health Care	3	Emphasis	---
Total additional credits needed at UIU to complete degree:		<b>63</b>		
Total transferable credits from DMACC:		<b>65</b>		
<b>Total Earned Credits:</b>		<b>128</b>		

Courses to be taken at Upper Iowa University

## ~~ 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.



Program Transfer Guide – DMACC HEALTH INFORMATION TECHNOLOGY → UIU HEALTH SERVICES ADMINISTRATION – February 2020

**~~ NOTES ~~ (cont.)**

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.**

## Maximize Your Transfer to UIU

*Take up to 12 credits to fulfill general education and business core requirements.*

Choose up to 12 additional credits at Des Moines Area Community College to transfer into Upper Iowa University to fulfill general education and business core 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 6 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
- Cultures General Education Requirement – up to 3 credits

**LEGEND:**

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

<b><i>Additional Elective Transfer Guide</i></b>						
<b>DMACC ELECTIVES</b>			<b>Transfers as UIU Course</b>			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
<b>Arts/Humanities General Education Requirement</b>						
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 & 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	Intro 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.
FLA 242	Intermediate Arabic II	4	---	---	4	Gen Ed Arts/Humn.
FLC 141	Elementary Chinese 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
<b>Arts/Humanities General Education Requirement (cont.)</b>						
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.
PHI 101	Introduction to Philosophy	3	PHIL 150	Intro to Philosophy	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
<b>Arts/Humanities General Education Requirement (cont.)</b>						
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	Intro to World Religions	3	Gen Ed Arts/Humn.
<b>Cultures General Education Requirement</b>						
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 United States	3	Gen Ed Cultures or Gen Ed Soc. Sci.
SPC 120	Intercultural Communication	3	COMM 221	Intercultural Communication	3	Gen Ed Cultures
<b>Natural Science General Education Requirement</b>						
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.
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.

### *Additional Elective Transfer Guide (cont.)*

DMACC ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
<b>Natural Science General Education Requirement (cont.)</b>						
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.
<b>Mathematics General Education Requirement</b>						
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 157	Statistics	4	MATH 220	Elementary Statistics •	4	Gen Ed Mathematics
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
<b>Business Core Requirement</b>						
ACC 131	Principles of Accounting I	4	ACCT 201	Accounting Principles I	4	Business Core
ECN 130	Principles of Microeconomics	3	ECON 160	Principles of Microeconomics	3	Gen Ed Soc. Sci. & Business Core
ASM 279 OR MGT 170	HealthCare Human Resources Human Resource Management	3 OR 3	BA 361	Human Resources Management •	3	Business Core
AGB 330 OR AGB 331 OR MGT 101 OR PEH 255	Farm Business Management Entrepreneurship in Agricult Principles of Management Principles-Sports Management	3 OR 3 OR 3 OR 3	BA 210	Management Principles	3	Business Core
<b>Major Requirement</b>						
ASM 274	Law & Ethics in Healthcare	3	HSA 360	Health Care Law & Ethics •	3	Major