



TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS

NTC 2020-2021 Program: IT - Software Developer

NTC 2020-2021 Program: INFORMATION TECHNOLOGY

Minimum GPA for admission:

Initial effective date:

General Education Courses

NTC			Upper Iowa University		
Course No.	Course Title	Credits	Course No.	Course Title/Field -- (Fulfills Requirement)	Credits
10-801-196	Oral/Interpersonal Communications	3	COMM 200	Interpersonal Communication -- (Gen Ed Comm./Oral)	3
10-801-195	Written Communication <u>OR</u>	3	ENG 101	English Composition I -- (Gen Ed Comm./Wrtn)	3
10-801-136	English Composition 1				
10-804-189	Introductory Statistics	3	MATH 220	Elementary Statistics -- (Major & Gen Ed Math)	3
10-809-199	Psychology of Human Relations <u>OR</u>	3	---	(Elective) -- (Gen Ed Soc. Sci.)	3
10-809-198	Intro to Psychology		PSY 190	General Psychology -- (Gen Ed Soc. Sci.)	
10-809-166	Intro to Ethics: Theory & App	3	PHIL 202	Contemporary Ethics -- (Gen Ed Arts/Humn.)	3
10-804-133	Math & Logic	3	---	(Elective)	3
Total general education credits earned:		18	Total general education credits accepted:		18
Total transferable general education credits:		18			

Occupational Courses

Course No.	Course Title	Credits	Course No.	Course Title -- (Fulfills Requirement)	Credits
10-152-551	Web Design 1A	1	---	(Elective)	1
10-152-552	Web Design 1B	1	---	(Elective)	1
10-152-553	Web Design 1C	1	---	(Elective)	1
10-152-531	Data Concepts A	1	---	(Elective)	1
10-152-532	Data Concepts B	1	---	(Elective)	1
10-152-533	Data Concepts C	1	---	(Elective)	1
10-152-500	IT Development and Design Fundamentals	1	---	(Elective)	1
10-152-501	Programming Concepts A	1	---	(Elective)	1
10-152-502	Programming Concepts B	1	---	(Elective)	1
10-152-503	Programming Concepts C	1	---	(Elective)	1
10-152-223	User Experience Design	3	---	(Elective)	3
10-152-534	Database Design and SQL A and	1	CS 332	Databases & Information Management® -- (Major)	1
10-152-535	Database Design and SQL B and	1		(10-152-534, 10-152-535, & 10-152-536 must all be taken to transfer as CS 332)	1
10-152-536	Database Design and SQL C	1			1
10-152-391	Collaborative Application Development	3	---	(Elective)	3
10-152-504	Object - Oriented Programming A	1	---	(Elective)	1
10-152-505	Object - Oriented Programming B	1	---	(Elective)	1
10-152-506	Object - Oriented Programming C	1	---	(Elective)	1
10-152-561	Client-Side Web Development 1 A and	1	CS 140	Introduction to Programing® -- (Major)	1
10-152-562	Client-Side Web Development 1 B and	1		(10-152-561, 10-152-562, & 10-152-563 must all be taken to transfer as CS 140)	1
10-152-563	Client-Side Web Development 1 C	1			1
10-152-570	Advanced Data Management A	1	---	(Elective)	1
10-152-571	Advanced Data Management B	1	---	(Elective)	1
10-152-572	Advanced Data Management C	1	---	(Elective)	1
10-152-392	Software Architecture	3	---	(Elective)	3
10-152-507	Object - Oriented Design A	1	---	(Elective)	1
10-152-508	Object - Oriented Design B	1	---	(Elective)	1
10-152-509	Object - Oriented Design C	1	SE 200	Advanced Computer Programing -- (Elective)	1
10-152-564	Client-Side Web Development 2 A and	1	IT 390	Programing for the WWW® -- (Elective)	1
10-152-565	Client-Side Web Development 2 B and	1		(10-152-564, 10-152-565, & 10-152-166 must all be taken to transfer as IT 390)	1
10-152-566	Client-Side Web Development 2 C	1			1
10-152-393	Application Development Capstone Project	3	---	(Elective)	3
10-152-510	Advanced .Net Programming A	1	---	(Elective)	1
10-152-511	Advanced .Net Programming B	1	---	(Elective)	1
10-152-512	Advanced .Net Programming C	1	---	(Elective)	1
10-152-567	Open-Source Web Development A and		---	(Elective)	
10-152-568	Open-Source Web Development B and	3	---	(Elective)	3
10-152-569	Open-Source Web Development C <u>OR</u>		---	(Elective)	
10-152-337	Data Analytics		CS 130	Foundations of Information Systems -- (Major)	
Total occupational course credits earned:		46	Total occupational course credits accepted:		46
Total credits required for graduation:		64			
Total transferable credits:		64	Total credits accepted at UIU:		64

Disclaimer: Students planning to transfer should contact NTC's Transfer Specialist and transfer personnel at UIU for the most current transfer information.

A minimum of 120 semester credits is required for a Bachelor of Science degree at Upper Iowa University. A minimum of 30 credits must be upper-division credits; lower-division transfer work from NTC does not contribute to the upper-division credit requirement at UIU.

Transfer grades lower than C- are not accepted by UIU.

Legend:

- *Grayed courses* indicate a course already fulfilled.
- **Bolded courses** are recommended by UIU.
- * Course has a prerequisite.
- ® indicates all courses are required to meet this course, else if only part of this combination is taken, all courses would be considered free electives.

Courses needed to complete degree at UIU:

Course No.	Course Title	Credits
General Education Studies		
	<i>Any Gen Ed in Arts/Humanities (PHIL 202)</i>	3
	Any Gen Ed in Arts/Humanities	3
ENG 101	<i>English Composition I (Gen Ed Comm./Wrtn)</i>	3
ENG 102	English Composition II (Gen Ed Comm./Wrtn)	3
COMM 200	<i>Interpersonal Comm. (Gen Ed Comm./Oral)</i>	3
CS 102	<i>Intro Computer Applications & Technology (Gen Ed Comp. Skills) -- (Satisfied in Major)</i>	3
	<i>Any Gen Ed in Mathematics (MATH 220)</i>	3
	Any Gen Ed in Natural Science	3
	Any Gen Ed in Natural Science	3
	<i>Any Gen Ed in Social Science (PSY 190)</i>	3
	Any Gen Ed in Social Science	3
	Any Gen Ed in Cultures	3

More on next page.

Courses needed to complete degree at UIU: (continued)

Course No.	Course Title	Credits
Prerequisites		
MATH 107	College Algebra *	3
Major		
CS 102	Intro Computer Applications & Technology	3
MATH 115	Trigonometry and Analytic Geometry	3
CS 122	IT Infrastructure	4
CS 130	<i>Foundations of Information Systems</i>	3
CS 140	<i>Introduction to Programming</i>	4
CS 206	Computer Architecture	4
CS 213	Operating Systems	4
MATH 220	<i>Elementary Statistics</i>	3
IT 311	Networking	4
IT 320	Web Systems and System Integration	4
CS 332	<i>Databases and Information Management</i>	3
CS 342	Human Computer Interaction	3
CS 400	Project Management and Integration	4
IT 410	Information and System Security	3
CS 480	Senior Capstone I	1
CS 481	Senior Capstone II	2
Upper-Division Electives (<i>see below</i>)		6
Additional Electives		
Upper-Division Electives		3
Total additional credits needed at UIU to complete degree:		69
Total Credits Earned:		133

Elective Options at Upper Iowa University

Cyber Security & Computer Forensics (SEC) Specialization	
IT 360	Computer Forensics and Incident Response
IT 420	System Security and Risks

Network Management (NET) Specialization	
IT 348	Advanced Networks
IT 370	Network Management

Other IT Elective	
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 *