

## Program Transfer Guide

**Central Texas College District Associate of Science (AS) in**

**COMPUTER SCIENCE**

→ **UIU Bachelor of Science (BS) in**

**INFORMATION SYSTEMS**

**JANUARY 2020**



EDUCATION BUILT FOR LIFE

### Years 1 & 2 at Central Texas College District:

CTCD Program Course Sequence			Course Transfers into UIU as			
Course ID	Course Name	# Cr	Course ID	Course Name	# Cr	Requirement Fulfilled
<b>Semester 1</b>						
COSC 1301	Introduction to Computing	3	CS 102	Intro to Computer Applications & Technology	3	Gen Ed Comp. Skills
COSC 1315	Intro to Computer Programming	3	---	---	3	Free Elective
ENGL 1301	Composition I	3	ENG 101	English Composition I *	3	Gen Ed Comm./Wrtn
<b>MATH 1314</b>	<b>College Algebra</b>	<b>3</b>	<b>MATH 107</b>	<b>College Algebra *</b>	<b>3</b>	<b>Gen Ed Math, Prereq &amp; Major</b>
OR		OR			OR	
MATH 1332	Contemporary Mathematics (Quantitative Reasoning)	3	---	---	3	Free Elective
OR		OR			OR	
MATH 1342	Elementary Statistical Methods	3	MATH 220	Elementary Statistics *	3	Gen Ed Math & Major
HIST 1301	United States History I	3	HIST 110	American History to 1877	3	Gen Ed Soc. Sci.
<b>Semester 2</b>						
COSC 1336	Programming Fundamentals I	3	CS 140	Introduction to Programing *	3	Free Elective
SPCH 1321	Business and Professional Communication	3	COMM 307	Business and Professional Communication *	3	Free Elective
OR		OR			OR	
SPCH 1318	Interpersonal Communication	3	---	---	3	Free Elective
PHYS 1415	Physical Science I	4	---	---	4	Gen Ed Nat. Sci.
ANTH 2351	Cultural Anthropology	3	ANTH 110	Introduction to Cultural Anthropology	3	Gen Ed Cultures
HIST 1302	United States History II	3	HIST 111	American History Since 1877	3	Gen Ed Soc. Sci.
<b>Semester 3</b>						
COSC 1337	Programming Fundamentals II	3	SE 200	Advanced Computer Programing *	3	Free Elective
COSC 2325	Computer Organization	3	CS 206	Computer Architecture *	3	Free Elective
HUMA 1315	Fine Arts Appreciation	3	---	---	3	Gen Ed Arts/Humn.
GOVT 2305	Federal Government	3	PS 100	U.S. Government	3	Gen Ed Soc. Sci.
PSYC 2315	Psychology of Adjustment	3	PSY 201	Adjustment	3	Gen Ed Soc. Sci.
<b>Semester 4</b>						
COSC 2336	Programming Fundamentals III	3	SE 256	Game Design & Programing *	3	Free Elective
GOVT 2306	Texas Government	3	---	---	3	Gen Ed Soc. Sci.
ENVR 1401	Environmental Science I	4	ES 161	Intro to Environmental Science	4	Gen Ed Nat. Sci.
Approved Elective (from Component Area Option 090)		4	---	See Elective Table	4	See Elective Table

Total occupational course credits earned:	60
Total credits required for graduation:	60
Total transferable credits#:	60

Total course credits accepted: 60

*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	Students who transfer to UIU with a completed Associate of Arts (AA) or Associate of Science (AS) degree in liberal arts from Central Texas College District, will be considered to have fulfilled all lower-division Upper Iowa University general education requirements.	
	any Gen Ed in Arts/Humanities	3		
ENG 101	English Composition I <sup>[ENGL 1301]</sup>	3		
ENG 102	English Composition II	3		
COMM 105	Public Speaking	3		
CS 102	Intro Computer Applications & Technology <sup>[COSC 1301]</sup>	3		
	any Gen Ed in Mathematics (MATH 105 or higher) <sup>[MATH 107]</sup>	3		
	any Gen Ed in Natural Science <sup>[PHYS 1415]</sup>	3		
	any Gen Ed in Natural Science <sup>[ENVR 1401]</sup>	3		
	any Gen Ed in Social Science <sup>[ECON 160]</sup>	3		
	any Gen Ed in Social Science <sup>[HIST 1301]</sup>	3		
	any Gen Ed in Cultures <sup>[ANTH 2351]</sup>	3		
<b>Major Courses</b>				
MATH 107	College Algebra	3	Major & Prereq for MATH 220	MATH 1314
CS 122	IT Infrastructure	4	Major	---
CS 130	Foundations of Information Systems	3	Major	---
ECON 160	Principles of Microeconomics	3	Major	---
ACCT 201	Accounting Principles I	3	Major	---
MKT 208	Marketing Principles	3	Major	---
BA 210	Management Principles	3	Major	---
MATH 220	Elementary Statistics	3	Major	---
BA 222	Management Information Systems	3	Major	---
BA 302	Business Law and Ethics	3	Major	---
IS 310	Systems Analysis and Design	3	Major	---
IS 320	Enterprise Architecture	3	Major	---
CS 332	Databases and Information Management	3	Major	---
CS 342	Human Computer Interaction	3	Major	---
CS 400	Project Management and Integration	4	Major	---
IS 410	IS Strategy, Management, and Acquisition	3	Major	---
IS 480	IS Senior Capstone	1	Major	---
IS 481	IS Senior Capstone II	2	Major	---
Upper-division Electives (from list below)		6	Major	---
Electives		9	Degree Requirements	---
Total additional credits needed at UIU to complete degree:		<b>65</b>		
Total transferable credits from CTCD:		<b>60</b>		
<b>Total Earned Credits:</b>		<b>125</b>		

**Courses to be taken at Upper Iowa University**

<b>Information Systems (IS) Elective Options at UIU</b>	
<b>Information Systems, Security and Integration (ISSI) Specialization Electives</b>	
IS 360	IT Security and Risk Management
IS 420	Enterprise Systems and Integration
<b>Information Systems and Technology Management (ISTM) Specialization Electives</b>	
IS 348	Business Process Management
IS 370	IT Audit and Controls

<b>Information Systems Elective Options at UIU (cont.)</b>			
<b>Other IS Electives</b>			
IS 499	Special Project		
<b>Non-IS Electives</b>			
SE 300	Data Structures and Algorithms •	IT 320	Web Systems and System Integration •
IT 311	Networking •	IT 410	Information and System Security •
SE 310	Software Application and Interface Design •	SE 410	Software Testing, Validation and Verification •

## ~~ NOTES ~~

**LEGEND:**

- #Transfer grades lower than a C- will not be accepted.
- • Course has a prerequisite.
- **Bolded** text indicates UIU recommendations.
- *Grayed out text* indicates courses fulfilled through transfer. Strikethrough indicates specific course if within grouping.

Students who transfer to UIU with a completed Associate of Arts (AA) or Associate of Science (AS) degree in liberal arts from Central Texas College District, will be considered to have fulfilled all lower-division Upper Iowa University general education requirements.

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

*This program transfer guide is based on the November 2019 course-to-course articulation (UIU 2019-2020 catalog & CTCD 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.

<b>Elective Transfer Table</b>						
<b>CTCD ELECTIVES</b>			<b>Transfers as UIU Course</b>			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
<b>Approved Electives from Component Area Option (090)</b>						
AGRI 1407	Agronomy	4	---	---	4	Free Elective
AGRI 1415	Horticulture	4	---	---	4	Free Elective
AGRI 1419	Introductory Animal Science	4	---	---	4	Free Elective
AGRI 2317	Intro to Agriculture Economics	3	ECON 212	Agricultural Economics •	3	Free Elective
ARTS 1303	Art History I	3	ART 211	Art History I	3	Gen Ed Arts/Humn.
ARTS 1304	Art History II	3	ART 212	Art History II	3	Gen Ed Arts/Humn.
BIOL 1406	Biology for Science Majors I	4	BIO 135	Principles of Biology I	4	Gen Ed Nat. Sci.
BIOL 1407	Biology for Science Majors II	4	BIO 140	Principles of Biology II •	4	Gen Ed Nat. Sci.
BIOL 1408	Biology for Non-Science Majors I	4	BIO 100	General Biological Science	4	Gen Ed Nat. Sci.
BIOL 1409	Biology for Non-Science Majors II	4	---	---	4	Free Elective
BIOL 1411	General Botany	4	BIO 231	General Botany •	4	Gen Ed Nat. Sci.
BIOL 1413	General Zoology	4	BIO 220	Zoology •	4	Gen Ed Nat. Sci.
BIOL 2401	Anatomy and Physiology I	4	BIO 270	Human Anatomy and Physiology I •	4	Gen Ed Nat. Sci.
BIOL 2402	Anatomy and Physiology II	4	BIO 275	Human Anatomy and Physiology II •	4	Free Elective

***Elective Transfer Table (cont.)***

CTCD ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
<b>Approved Electives from Component Area Option (090) (cont.)</b>						
BIOL 2420	Microbiology for Non-Science Majors	4	---	---	4	Gen Ed Nat. Sci.
BIOL 2421	Microbiology for Science Majors	4	BIO 210	Microbiology •	4	Gen Ed Nat. Sci.
BUSI 1301	Business Principles	3	---	---	3	Free Elective
CHEM 1406	Introductory Chemistry I	4	CHEM 140	Chemistry for Everyday Life	4	Gen Ed Nat. Sci.
CHEM 1407	Introductory Chemistry II	4	---	---	4	Gen Ed Nat. Sci.
CHEM 1411	General Chemistry I	4	CHEM 151	General Chemistry I	4	Gen Ed Nat. Sci.
CHEM 1412	General Chemistry II	4	CHEM 152	General Chemistry II •	4	Gen Ed Nat. Sci.
DRAM 1310	Introduction to Theater	3	THE 110	Introduction to Theatre	3	Gen Ed Arts/Humn.
DRAM 2361	History of Theatre I	3	---	---	3	Free Elective
DRAM 2362	History of Theatre II	3	---	---	3	Free Elective
DRAM 2366	Introduction to Cinema	3	COMM 290	The Movies (also ENG 290)	3	Gen Ed Arts/Humn.
ECON 2301	Principles of Macroeconomics	3	ECON 161	Principles of Macroeconomics •	3	Gen Ed Soc. Sci.
ECON 2302	Principles of Microeconomics	3	ECON 160	Principles of Microeconomics	3	Gen Ed Soc. Sci.
EDUC 1100	Learning Frameworks	1	---	---	1	Free Elective
ENGL 1302	Composition II	3	ENG 102	English Composition II •	3	Gen Ed Comm./Wrtn
ENGL 2322	British Literature I	3	ENG 211	British Literature I	3	Gen Ed Arts/Humn.
ENGL 2323	British Literature II	3	ENG 212	British Literature II	3	Gen Ed Arts/Humn.
ENGL 2327	American Literature I	3	ENG 209	American Literature I	3	Gen Ed Arts/Humn.
ENGL 2328	American Literature II	3	ENG 210	American Literature II	3	Gen Ed Arts/Humn.
ENGL 2332	World Literature I	3	---	---	3	Gen Ed Arts/Humn.
FREN 1411	Beginning French I	4	---	---	4	Gen Ed Arts/Humn.
FREN 1412	Beginning French II	4	---	---	4	Gen Ed Arts/Humn.
GEOG 1301	Physical Geography	3	GEOG 100	Intro to Physical Geography	3	Gen Ed Nat. Sci. or Gen Ed Soc. Sci.
GEOG 1302	Human Geography	3	---	---	3	Gen Ed Soc. Sci.
GEOG 1303	World Regional Geography	3	GEOG 200	World Regional Geography	3	Gen Ed Soc. Sci.
GEOG 1403	Physical Geology	4	ES 100	Introduction to Geology	4	Gen Ed Nat. Sci.
GEOG 1404	Historical Geology	4	---	---	4	Gen Ed Nat. Sci.
GERM 1411	Beginning German I	4	---	---	4	Gen Ed Arts/Humn.
GERM 1412	Beginning German II	4	---	---	4	Gen Ed Arts/Humn.
GOVT 2304	Introduction to Political Science	3	---	---	3	Gen Ed Soc. Sci.
HIST 2301	Texas History	3	---	---	3	Gen Ed Soc. Sci.
HIST 2311	Western Civilization I	3	---	---	3	Gen Ed Soc. Sci.
HIST 2312	Western Civilization II	3	---	---	3	Gen Ed Soc. Sci.
HIST 2381	African-American History	3	HIST 330	African American History	3	Gen Ed Soc. Sci.
MATH 2412	Precalculus Math	4	MATH 115	Trigonometry and Analytic Geometry •	4	Gen Ed Mathematics
MATH 2413	Calculus I	4	MATH 120	Calculus I •	4	Gen Ed Mathematics
MUSI 1306	Music Appreciation	3	MUS 100	Introduction to Music	3	Gen Ed Arts/Humn.
MUSI 1307	Music Literature	3	---	---	3	Gen Ed Arts/Humn.
PHIL 1301	Introduction to Philosophy	3	PHIL 150	Introduction to Philosophy	3	Gen Ed Arts/Humn.
PHIL 1304	Introduction to World Religions	3	REL 120	Introduction to World Religions	3	Gen Ed Arts/Humn.
PHIL 2306	Introduction to Ethics	3	PHIL 202	Contemporary Ethics	3	Gen Ed Arts/Humn.
PHIL 2307	Introduction to Social and Political Philosophy	3	---	---	3	Free Elective
PHIL 2321	Philosophy of Religion	3	---	---	3	Gen Ed Arts/Humn.

***Elective Transfer Table (cont.)***

CTCD ELECTIVES			Transfers as UIU Course			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
<b>Approved Electives from Component Area Option (090) (cont.)</b>						
PHYS 1401	College Physics I	4	PHY 111 & PHY 112	Intro Physics I (3) & Intro Physics Laboratory I (1)	4	Gen Ed Nat. Sci.
PHYS 1402	College Physics II	4	PHY 113 & PHY 114	Intro Physics II (3) & Intro Physics Laboratory II (1) •	4	Gen Ed Nat. Sci.
PHYS 1403 OR PHYS 1404	Stars and Galaxies Solar System	4 OR 4	PHY 110	Introduction to Astronomy	4	Gen Ed Nat. Sci.
PSYC 2301	General Psychology	3	PSY 190	General Psychology	3	Gen Ed Soc. Sci.
PSYC 2308	Child Psychology	3	PSY 212	Developmental Psychology: Birth to Adolescence •	3	Gen Ed Soc. Sci.
PSYC 2314	Life Span Growth and Development	3	EDU 142	Human Growth, Development and Guidance	3	Gen Ed Soc. Sci.
PSYC 2316	Psychology of Personality	3	PSY 332	Personality •	3	Free Elective
RUSS 1411	Beginning Russian I	4	---	---	4	Gen Ed Arts/Humn.
RUSS 1412	Beginning Russian II	4	---	---	4	Gen Ed Arts/Humn.
SOCI 1301	Introduction to Sociology	3	SOC 110	Principles of Sociology	3	Gen Ed Soc. Sci.
SOCI 1306	Social Problems	3	SOC 220	Social Problems	3	Gen Ed Soc. Sci.
SOCI 2301	Marriage and The Family	3	SOC 361	Marriage and the Family •	3	Free Elective
SOCI 2319	Minority Studies	3	SOC 240	Diversity in the United States	3	Gen Ed Cultures or Gen Ed Soc. Sci.
SPAN 1411	Beginning Spanish I	4	SPN 101	Beginning Spanish I	4	Gen Ed Arts/Humn.
SPAN 1412	Beginning Spanish II	4	SPN 102	Beginning Spanish II •	4	Gen Ed Arts/Humn.
SPCH 1315	Public Speaking	3	COMM 105	Public Speaking	3	Gen Ed Comm./Oral

## Maximize Your Transfer to UIU

*Take up to 18 credits to fulfill major requirements.*

Choose up to 18 additional credits at Central Texas College District to transfer into Upper Iowa University to fulfill 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 18 credits from the following areas:**

- Major Elective Requirement– up to 18 credits

**LEGEND:**

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

<i><b>Additional Elective Transfer Guide</b></i>						
<b>CTCD ELECTIVES</b>			<b>Transfers as UIU Course</b>			
Course Id	Course Name	# Cr	Course Id	Course Name	# Cr	Requirement Fulfilled
<b>Major Elective Requirement</b>						
CPMT 1345	Computer Systems Maintenance	3	CS 122	IT Infrastructure	3	Major
ITSC 1325	Personal Computer Hardware	3	CS 122	IT Infrastructure	3	Major
ITSC 1415	Project Management Software	4	CS 130	Foundations of Information Systems	4	Major
ECON 2302	Principles of Microeconomics	3	ECON 160	Principles of Microeconomics	3	Gen Ed Soc. Sci. & Major
ACCT 2301	Principles of Financial Accounting	3	ACCT 201	Accounting Principles I	3	Major
HAMG 2307	Hospitality Marketing and Sales	3	MKT 208	Marketing Principles	3	Major
MRKG 1311	Principles of Marketing	3	MKT 208	Marketing Principles	3	Major
BMGT 1327	Principles of Management	3	BA 210	Management Principles	3	Major
MATH 1342	Elementary Statistical Methods	3	MATH 220	Elementary Statistics	3	Major