

Computer Information Systems (CIS)



College of DuPage and Lewis University

3+1 Bachelor of Science Degree Program in Computer Science

A convenient, affordable and streamlined approach to earn the Bachelor of Science in Computer Science degree.

Program Overview

- All classes are held at the College of DuPage Glen Ellyn campus.
- The 32 Lewis University credit hours are offered at a discounted tuition rate.
- For students earning an Associate in Applied Science in Computer Information Systems-Application and Technical Support Specialist, the program consists of 128 credit hours, including 96 credit hours of College of DuPage courses and 32 credit hours of Lewis University coursework.

Who can enroll in the program?

- Students who have completed an Associate in Applied Science degree in Computer Information Systems-Application and Technical Support Specialist and have taken the necessary additional general education courses.
- New students interested in pursuing a Bachelor of Science degree in Computer Science offered by Lewis University at College of DuPage.
- Students who graduated from College of DuPage and went elsewhere can be considered for admission for this 3+1 program if they complete any necessary prerequisites. A transcript evaluation needs to be completed by both schools.

(Academic Plan on back.)

The Advantage

The 3+1 program allows students to complete their AAS degree from College of DuPage. Once completed, our students are allowed to take additional courses beyond their degree from COD paying our much lower tuition rates. The final year of classes are taught by Lewis University faculty and are offered on College of DuPage's campus at a significantly reduced rate, making the goal of continuing an education a reality for more students. This program exemplifies College of DuPage's mission to make education more affordable for its students while stressing academic quality, first-class faculty and extraordinary learning environments.

(Academic Plan on back.)

For more information contact:

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Computer Information Systems (CIS)

3+1 Agreement between College of DuPage and Lewis University

AAS degree in Computer Information Systems (CIS.AAS-TECH)—Application and Technical Support Specialist/
Bachelor of Science degree in Computer Science

Academic Plan

COLLEGE OF DUPAGE AAS DEGREE		CREDITS	LEWIS UNIVERSITY		CREDITS
<i>Courses for Years 1 and 2</i>			<i>Courses for Year 4</i>		
General Education		(21 to 22 Credits)	CPSC 24500	Object Oriented Programming	3
ENGLI 1105	Writing for the Workplace	3	MATH 24000	Applied Calculus	4
SPEEC 1100	Fundamentals of Speech Communication	3	MATH 30700	Applied Linear Algebra	3
Physical or Life Science (<i>must have a lab component</i>)		4 to 5	CPSC 34000	Algorithms and Data Structure	3
MATH 1431	Pre-Calculus	5	MATH 31000	Discrete Mathematics	4
Humanities and Fine Arts		3	THEO 10000	Search for Faith	3
Social and Behavioral Sciences		3	CPSC 35000	Operating Systems	3
Program Requirements		(33 Credits)	CPSC 46000	Programming Languages	3
CIS 1150	Intro to Computer Information Systems	3	CPSC 49200	Software Systems Capstone	3
CIS 1160	Windows Command Shell	3	SOCI 29000	Diversity and Social Justice	3
CIS 1180	Introduction to Networking	3	Credit hours completed through Lewis University		32
CIS 1205	Office Suite Software and Integration	3	Total credit hours required to complete the entire program:		
CIS 1310	HTML and CSS	3	96+32=128		
CIS 1400	Programming Logic & Technique	4			
CIS 1450	Intro to Linux/Unix Operating Systems	3			
CIS 1610	Windows Client OS	3			
CIS 2770	Intro to Systems Analysis and Design	3			
BUSIN 1111	Customer Service	3			
CIT 1100	IT Fundamentals	2			
Program Electives		(14 to 15 Credits)			
For the 3+1 program students must complete one of the following sequences with their electives.					
<u>C++ Emphasis</u>					
CIS 2541	C++ Language Programing	4			
CIS 2542	Advanced C++ programming	4			
<u>Java Emphasis</u>					
CIS 2571	Introduction to Java	4			
CIS 2572	Collections in Java	4			
<u>Python</u>					
CIS 2531	Intro to Python Programming	4			
CIS 2532	Advanced Python Programming	4			
AND					
CIS 2790	Systems Analyst Simulation	3			
Select one course from the following (3 to 5 credits)					
CIS 1510, GUI Programming (VB.NET); CIS 2220, Game Prog. Using C++;					
CIS 2250, XNA Game Programming; CIS 2260, Game Prog. X Platform; CIS					
2320, Javascript and Advanced HTML; CIS 2350, Intro to ASP.NET; CIS					
2561, Intro to C#.NET; CIS 2591, Objective C ; CIS 2592, iPhone and iPad					
App. Develop.; CIS 2593, Android Applications Develop.					
Year 3 Courses Beyond the Associate's Degree		(28 Credit Hours)			
ENGLI 1101	English Composition I	3			
ENGLI 1102	English Composition II	3			
IAI	Physical or Life Sciences	3			
Humanities and Fine Arts		6			
<i>(select IAI approved courses)</i>					
Social and Behavioral Sciences		6			
<i>(select IAI approved courses)</i>					
PHIL 1110	Ethics	3			
CIS 2420	Microprocessor Assembly Language	4			
Minimum credit hours transferring from COD		96			

Important Notes

- Students must complete the associate degree requirements prior to taking 3rd year COD coursework.
- Students utilizing financial aid must apply and be accepted into Lewis University prior to taking any classes beyond the AAS degree. It is recommended that students using financial aid should begin applying to Lewis University one semester before completing the AAS degree and ask for the financial aid consortium agreement. Students also need to apply for graduation from the AAS degree program at COD. Not doing so will result in not receiving financial aid.
- Please consult your academic advisor and the current course schedule to determine when courses should be taken.
- The Associate in Applied Science degree must be completed and conferred in order to validate this agreement. Please refer to the student planning worksheet at www.cod.edu/counseling for COD's AAS degree requirements.
- A student must earn a minimum of 128 credit hours to qualify for graduation with a Bachelor's degree. At least 32 of the 128 credit hours for graduation must be completed through Lewis University. Students follow the degree requirements for the catalog year in which they enter Lewis University.
- Students cannot take College of DuPage courses during their last semester before graduation from Lewis University.

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Associate in Applied Science in Application and Technical Support Specialist to Bachelor of Science in Computer Science

Term-by-term Plan:

College of DuPage total credits= 96, Lewis University total credits= 32

Courses listed in *italics* are Lewis courses; all other courses are COD courses.

FIRST SEMESTER		HOURS	SECOND SEMESTER		HOURS
Cis 1150	Intro to Comp Info Systems	3	Cis 1180	Intro to Networking	3
Cis 1160	Windows Command Line	3	Cis 1205	Office Suite Software	3
Math 1431	Pre-Calculus	5	Cis 1400	Prog Logic & Technique	4
Busin 1111	Customer Service	3	Speech 1100	Fund. of Speech Comm.	3
Cit 1100	IT Fundamentals	2	Humanities & Fine Arts		3
Total Hours		16	Total Hours		16

THIRD SEMESTER		HOURS	FOURTH SEMESTER		HOURS
Cis 1310	HTML and CSS	3	Cis 1450	Intro to Linux	3
Cis 1610	Windows Client OS	3	ENGLI 1105	Writing for Workplace	3
CIS emphasis course sequence (see emphasis section above)		4	Cis 2790	Systems Analyst Simulation	3
IAI Physical or Life Science (<i>must have a lab component</i>)		4-5	Social & Behavior Sciences		3
Cis 2770	Intro to Sys. Analysis	3	CIS <i>emphasis course sequence</i> (see emphasis section above)		4
Total Hours		17-18	Total Hours		16

STOP

DO NOT take fifth semester courses (junior year) until you have completed semester 1-4 courses (freshman-sophomore) first. Once done, take fifth and sixth semester courses after application and acceptance into Lewis University.

FIFTH SEMESTER		HOURS	SIXTH SEMESTER		HOURS
English 1101	Composition I	3	Humanities & Fine Arts		3
IAI Physical or Life Science		3	Social & Behavior Sciences		3
Humanities & Fine Arts		3	Philo 1110	Ethics	3
Social & Behavior Sciences		3	Cis 1510, 2220, 2250, 2260, 2320, 2350, 2561, 2591, 2592, or 2593		3-4
MATH 24000	<i>Applied Calculus</i>	4	Engli 1102	Composition II	3
Total Hours		16	MATH 30700	<i>Applied Linear Algebra</i>	3

SEVENTH SEMESTER		HOURS	EIGHTH SEMESTER		HOURS
Cis 2420	Micro Assembly Language (COD course)	4	CPSC 35000	<i>Operating Systems</i>	3
CPSC 24500	<i>Object Oriented Programming</i>	3	CPSC 46000	<i>Programing Languages</i>	3
CPSC 34000	<i>Algorithms and Data Structures</i>	3	CPSC 49200	<i>Software Systems Capstone</i>	3
MATH 31000	<i>Discrete Mathematics</i>	4	SOCI 29000	<i>Diversity and Social Justice</i>	3
THEO 10000	<i>Search for Faith</i>	3	Total Hours		12
Total Hours		17	Total Hours		12