

BUSINESS ADMINISTRATION IN COMPUTER INFORMATION SYSTEMS (BSBA)



This program was approved for students entering the university in the Summer 2023–Spring 2024 catalog year. For more information about catalog year, go to Catalog Year Information (<http://catalog.louisville.edu/undergraduate/university-wide-unit-specific-policies/catalog-year/>).

Bachelor of Science in Business Administration in Computer Information Systems

Unit: Business (BU) (<http://business.louisville.edu/>)

Department: Computer Information Systems (<http://business.louisville.edu/cis/>)

Academic Plan Code(s): See Track Requirements tab.

Program Information

The primary mission of the degree program of the Computer Information Systems Department is to prepare the students to become the information technology professionals of the future for Louisville and the immediate region with curriculum that reflects the state of the art in information technology theory and practice.

Degree Summary

Code	Title	Hours
	General Education Requirements (http://catalog.louisville.edu/undergraduate/general-education-requirements/) ¹	31
	6 hours of General Education requirements may be satisfied through coursework required by the degree program	
	College/School Requirements ^{1,2}	53
	Program/Major Requirements	21
	Supporting Courses	6
	Track Requirements ³	15
	Minimum Total Hours	120

¹ To complete the degree in the **minimum number of hours** listed, some hours from the General Education Requirements must be satisfied by courses defined by the unit and/or program. Using other courses to satisfy General Education requirements will require additional hours to complete the degree requirements. See the Degree Requirements tab for specific coursework.

² College/School Requirements total includes 6 hours of required courses that also cover General Education requirements.

³ Program/major requirements include 15 hours in the track.

Specific coursework information can be found on the Degree Requirements tab.

Departmental Admission Requirements New Students and Transfer Students

Admission to the College of Business (<http://catalog.louisville.edu/undergraduate/admission/college-business/>) ensures admission to the BSBA in Computer Information Systems.

Current Students - Admission in Good Standing

Students must have both:

- Earned a 2.8 cumulative GPA (students with an established UofL GPA may not include grades for coursework at another institution in consideration for admission); and
- Completion of MATH 111 College Algebra - QR (<http://catalog.louisville.edu/undergraduate/general-education-requirements/>) (or equivalent) or completion of MATH 180 Elements of Calculus - QR (<http://catalog.louisville.edu/undergraduate/general-education-requirements/>)

General Education Requirements

Code	Title	Hours
	General Education Requirements (http://catalog.louisville.edu/undergraduate/general-education-requirements/) ¹	31
The following courses are required by the program and can satisfy the respective General Education Requirement:		
MATH 180	Elements of Calculus - QR (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	
	or MATH 205 Calculus I - QR (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	
ECON 201	Principles of Microeconomics - SB (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	
	or ECON 202 Principles of Macroeconomics - SB (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

Code	Title	Hours
College of Business Requirements		
CAMP 100	Campus Culture/Business Students	1
MATH 180	Elements of Calculus - QR (http://catalog.louisville.edu/undergraduate/general-education-requirements/) ^{2,3}	3
	or MATH 205 Calculus I - QR (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	
Select one of the following:		3

PHIL 222	Contemporary Moral Problems - AH (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	
PHIL 225	Business Ethics	
PHIL 321	Ethics	
PHIL 323	Medical Ethics	
BUS 301	Business Communication	3
BUS 201	Career Development	1
ACCT 201 & ACCT 202	Principles of Financial Accounting Principles of Managerial Accounting	6
ECON 201 & ECON 202	Principles of Microeconomics - SB (http://catalog.louisville.edu/undergraduate/general-education-requirements/) Principles of Macroeconomics - SB (http://catalog.louisville.edu/undergraduate/general-education-requirements/) ⁴	6
BSTA 201	Business Statistics	3
CIS 205	Information Systems in Organizations	3
General Electives		6
Business Breadth		
FIN 301	Corporate Finance	3
MKT 301	Principles of Marketing	3
MGMT 301	Management and Organizational Behavior	3
CLAW 301	Legal Environment of Business	3
CIS 305	Data Analysis for Decision-Making	3
MGMT 401	Operations Management	3
Minimum Total Hours		53

Total of 53 includes 3 credit hours of ECON and 3 credit hours of MATH that are also counted in the 31 General Education hours above.

Program/Major Requirements

Code	Title	Hours
Computer Information Systems Core		
CIS 150	Fundamentals of Information Systems	3
CIS 199	Software Development I	3
CIS 310	Database Design	3
CIS 320	Systems Analysis and Design	3
CIS 350	Infrastructure Technologies	3
CIS 410	Management of Information Systems - CUE (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
CIS 420	CIS Development Project	3
Minimum Total Hours		21
Supporting Courses		
General Electives		6
Track Requirements (See Track Requirements Tab)		15

Transfer students must take a minimum of 12 credit hours in their major within the College of Business.

Six hours of cultural diversity courses are required and may be incorporated within the degree program.

All course prerequisites must be met.

Code	Title	Hours
Culminating Undergraduate Experience (Graduation requirement)		
Requirement fulfilled by completing:		
CIS 410	Management of Information Systems - CUE (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	

- ¹ College/School Requirements include six hours of the General Education (3 hours Quantitative Reasoning and 3 hours Social & Behavioral Sciences). A course that satisfies the General Education Oral Communication requirement (COMM 111, COMM 112 or HON 214) is required as prerequisite for BUS 301, but not included in the program requirements. Students who select PHIL 222 to satisfy the Ethics requirement will also satisfy 3 hours of the Arts & humanities requirement, and may require additional electives to complete the hours required for the degree.
- ² If MATH 205 is taken, there will be 4 total hours of math, which may reduce the number of elective hours required to complete the degree.
- ³ Completes Quantitative Reasoning General Education requirement
- ⁴ Completes 3 hours of Social & Behavioral Sciences General Education requirement.
- ⁵ The following will also meet the statistics requirement: MATH 109, PSYC 301, SOC 301, CJ 326
- ⁶ Co-operative Education is a curriculum requirement for six (6) months full time employment for six (6) hours of credit. Pass/Fail credit is given for approved COB co-op work experiences CIS 397 and CIS 398).

Track for the BSBA in Computer Information Systems

Track in Business Process Management

Academic Plan Code(s): CIS_BSBBPM

Code	Title	Hours
CIS 481	Introduction to Information Security	3
MGMT 404	Project Management	3
CIS Electives (400 level and/or CIS 200)		3
CIS 397 & CIS 398	Co-op in Computer Information Systems I Co-op in Computer Information Systems II	6
Minimum Total Hours		15

- ¹ Co-operative Education is a curriculum requirement for six (6) hours of credit. Pass/Fail credit is given for approved COB co-op work experiences (CIS 397).

Track in Data Analytics

Academic Plan Code(s): CIS_BSBDAN

Code	Title	Hours
CIS 443	Analytics Programming	3
CIS 397	Co-op in Computer Information Systems I	3
CIS 444	Data Analytics	3

CIS 445	Machine Learning	3
CIS 450	Special Topics in Data Analytics	3
Minimum Total Hours		15

¹ Usually taken with CIS 398 for a total of six (6) hours of co-op credit for a six month, full-time work place experience--students may register for CIS 397 and CIS 398 in one or two semesters. Application to the co-op program and completion of orientation processes should be completed prior to employment.

Track in Cybersecurity

Academic Plan Code(s): CIS_BSBSEC

Code	Title	Hours
CIS 480	Introduction to Network Security	3
CIS 481	Introduction to Information Security	3
CIS 483	Introduction to Database Security	3
<i>Info Sec Elective:</i>		
CIS 482	Introduction to Cryptography	3
or CIS 484	Computer Forensics	
CIS 397	Co-op in Computer Information Systems I ¹	3
Minimum Total Hours		15

¹ Co-operative Education is a curriculum requirement for three (3) hours of credit. Pass/Fail credit is given for approved COB co-op work experiences (CIS 397)

Track in Web Development

Academic Plan Code(s): CIS_BSBWEB

Code	Title	Hours
CIS 200	Software Development II	3
CIS 411	Web Application Development	3
CIS Elective (400 level)		3
CIS 397	Co-op in Computer Information Systems I	6
& CIS 398	Co-op in Computer Information Systems II ¹	
Minimum Total Hours		15

¹ Co-operative Education is a curriculum requirement for six (6) hours of credit. Pass/Fail credit is given for approved COB co-op work experiences (CIS 397).

Flight Plan

Track in Business Process Management

Academic Plan Code(s): CIS_BSBBPM

Year 1		Hours
Fall		
CAMP 100	Campus Culture/Business Students	1
CIS 205	Information Systems in Organizations	3
ENGL 101	Introduction to College Writing - WC (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3

CIS 305	Data Analysis for Decision-Making	3
General Education: Cardinal Core Natural Sciences - S		3
General Education: Cardinal Core Natural Sciences Lab - L		1
Hours		14

Spring		
CIS 150	Fundamentals of Information Systems	3
MATH 180	Elements of Calculus - QR (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ENGL 102	Intermediate College Writing - WC (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ECON 202	Principles of Macroeconomics - SB (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education: Cardinal Core Oral Communication		3
Hours		15

Year 2		
Fall		
BUS 201	Career Development	1
BUS 301	Business Communication	3
CIS 199	Software Development I	3
ECON 201	Principles of Microeconomics - SB (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education: Cardinal Core Natural Sciences - S		3
General Elective		3
Hours		16

Spring		
ACCT 201	Principles of Financial Accounting	3
CIS 310	Database Design	3
CIS 350	Infrastructure Technologies	3
General Education: Cardinal Core Arts & Humanities US Diversity - AHD1		3
General Elective		3
Hours		15

Year 3		
Fall		
ACCT 202	Principles of Managerial Accounting	3
CIS 320	Systems Analysis and Design	3
HIST 101	History of Civilizations I - D2 (http://catalog.louisville.edu/undergraduate/general-education-requirements/), SBH (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
or HIST 102	or History of Civilizations II - SBH (http://catalog.louisville.edu/undergraduate/general-education-requirements/), D2 (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	
General Education: Cardinal Core Arts & Humanities - AH		3
Select one of the following:		3

PHIL 222	Contemporary Moral Problems - AH (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	
PHIL 225	Business Ethics	
PHIL 321	Ethics	
PHIL 323	Medical Ethics	
Hours		15

Spring		
CIS 420	CIS Development Project	3
MGMT 301	Management and Organizational Behavior	3
MKT 301	Principles of Marketing	3
BSTA 201	Business Statistics	3
CIS Elective (400 level and/or CIS 200)		3
Hours		15

Summer		
CIS 481	Introduction to Information Security	3
Hours		3
Year 4		
Fall		
FIN 301	Corporate Finance	3
CLAW 301	Legal Environment of Business	3
MGMT 404	Project Management	3
General Elective		3
General Elective		3
Hours		15
Spring		
MGMT 401	Operations Management	3
CIS 410	Management of Information Systems - CUE (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
CIS 397	Co-op in Computer Information Systems I	3
CIS 398	Co-op in Computer Information Systems II	3
Hours		12
Minimum Total Hours		120

Track in Cyber Security

Academic Plan Code(s): CIS_BSBSEC

Year 1		
Fall		
CAMP 100	Campus Culture/Business Students	1
CIS 205	Information Systems in Organizations	3
ENGL 101	Introduction to College Writing - WC (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
CIS 305	Data Analysis for Decision-Making	3
General Education: Cardinal Core Natural Sciences - S		3
General Education: Cardinal Core Natural Sciences Lab - SL		1
Hours		14
Spring		
CIS 150	Fundamentals of Information Systems	3
MATH 180	Elements of Calculus - QR (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ENGL 102	Intermediate College Writing - WC (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ECON 202	Principles of Macroeconomics - SB (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education: Cardinal Core Oral Communication - OC		3
Hours		15
Year 2		
Fall		
BUS 201	Career Development	1
BUS 301	Business Communication	3
CIS 199	Software Development I	3
General Education: Cardinal Core Natural Sciences - S		3
General Elective		3
Hours		13
Spring		
CIS 310	Database Design	3
CIS 350	Infrastructure Technologies	3
ECON 201	Principles of Microeconomics - SB (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3

ACCT 201	Principles of Financial Accounting	3
General Education: Cardinal Core Arts & Humanities - AH		3
Hours		15
Year 3		
Fall		
CIS 320	Systems Analysis and Design	3
ACCT 202	Principles of Managerial Accounting	3
HIST 101 or HIST 102	History of Civilizations I - D2 (http://catalog.louisville.edu/undergraduate/general-education-requirements/), SBH (http://catalog.louisville.edu/undergraduate/general-education-requirements/) or History of Civilizations II - SBH (http://catalog.louisville.edu/undergraduate/general-education-requirements/), D2 (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education: Cardinal Core Arts & Humanities US Diversity - AHD1		3
Select one of the following:		3
PHIL 222	Contemporary Moral Problems - AH (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	
PHIL 225	Business Ethics	
PHIL 321	Ethics	
PHIL 323	Medical Ethics	
Hours		15
Spring		
CIS 420	CIS Development Project	3
MGMT 301	Management and Organizational Behavior	3
MKT 301	Principles of Marketing	3
CLAW 301	Legal Environment of Business	3
General Elective		3
Hours		15
Summer		
CIS 481	Introduction to Information Security	3
Hours		3
Year 4		
Fall		
FIN 301	Corporate Finance	3
CIS 480	Introduction to Network Security	3
CIS 397	Co-op in Computer Information Systems I	3
General Elective		3
General Elective		3
Hours		15
Spring		
CIS 410	Management of Information Systems - CUE (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
CIS 484 or CIS 482	Computer Forensics or Introduction to Cryptography	3
CIS 483	Introduction to Database Security	3
MGMT 401	Operations Management	3
General Elective		3
Hours		15
Minimum Total Hours		120

Track in Web Development

Academic Plan Code(s): CIS_BSBWEB

Year 1		
Fall		
CAMP 100	Campus Culture/Business Students	1
CIS 205	Information Systems in Organizations	3

CIS 150	Fundamentals of Information Systems	3
ENGL 101	Introduction to College Writing - WC (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
CIS 305	Data Analysis for Decision-Making	3
General Education: Cardinal Core Natural Sciences - S		3
Hours		16
Spring		
CIS 199	Software Development I	3
MATH 180	Elements of Calculus - QR (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ENGL 102	Intermediate College Writing - WC (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ECON 202	Principles of Macroeconomics - SB (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education: Cardinal Core Oral Communication - OC		3
Hours		15
Year 2		
Fall		
BUS 201	Career Development	1
BUS 301	Business Communication	3
CIS 200	Software Development II	3
General Education: Cardinal Core Arts & Humanities US Diversity - AHD1		3
General Elective		3
Hours		13
Spring		
ECON 201	Principles of Microeconomics - SB (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ACCT 201	Principles of Financial Accounting	3
CIS 310	Database Design	3
CIS 350	Infrastructure Technologies	3
General Education: Cardinal Core Arts & Humanities - AH		3
Hours		15
Year 3		
Fall		
CIS 320	Systems Analysis and Design	3
ACCT 202	Principles of Managerial Accounting	3
HIST 101 or HIST 102	History of Civilizations I - D2 (http://catalog.louisville.edu/undergraduate/general-education-requirements/), SBH (http://catalog.louisville.edu/undergraduate/general-education-requirements/) or History of Civilizations II - SBH (http://catalog.louisville.edu/undergraduate/general-education-requirements/), D2 (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education: Cardinal Core Natural Sciences - S		3
General Education: Cardinal Core Natural Sciences Lab - SL		1
Select one of the following:		3
PHIL 222	Contemporary Moral Problems - AH (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	
PHIL 225	Business Ethics	
PHIL 321	Ethics	
PHIL 323	Medical Ethics	
Hours		16
Spring		
CIS 420	CIS Development Project	3
CIS 411	Web Application Development	3
MGMT 301	Management and Organizational Behavior	3
MKT 301	Principles of Marketing	3

General Elective		3
Hours		15
Year 4		
Fall		
CIS 397	Co-op in Computer Information Systems I	3
FIN 301	Corporate Finance	3
CLAW 301	Legal Environment of Business	3
CIS Elective (400 level)		3
General Elective		3
Hours		15
Spring		
CIS 410	Management of Information Systems - CUE (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
CIS 398	Co-op in Computer Information Systems II	3
MGMT 401	Operations Management	3
General Elective		3
General Elective		3
Hours		15
Minimum Total Hours		120

Degree Audit Report

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan. What-if reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. Should you have questions about either report, please consult with your academic advisor.

Flight Planner

The Flight Planner tool is available for you to create a personalized Flight Plan to graduation. Advisors have access to review your Flight Planner and can help you adjust it to ensure you remain on track to graduate in a timely manner.

To create these reports:

- Log into your ULink account.
- Click on the Academic Progress tile.
- Select the appropriate report.
 - To run a Degree Audit report, click on "View my Degree Audit."
 - To create a What-if report, click on "Create a What-if Advisement Report."
 - To run a Flight Planner report, click on "Use My Flight Planner."

Click here to run a Degree Audit report, create a What-if report, or run a Flight Planner report. (<https://ulink.louisville.edu>)