

INFORMATION SYSTEMS AND ANALYTICS (BBA)

The ability to combine systems knowledge with an understanding of the "big picture" means job-ready value. Our BBA in Information Systems and Analytics degree program (formerly Information Systems) at the Quinlan School of Business prepares students for a professional career in the rapidly changing fields of information systems and data analysis. Students majoring in Information Systems prior to Fall '22 will retain that major name.

Curriculum

All Quinlan School of Business students must complete the University Core Curriculum (<https://catalog.luc.edu/undergraduate/university-requirements/university-core/>), Business Core Curriculum, and Undergraduate School of Business program requirements. Students pursuing the BBA degree in Information Systems and Analytics must also complete 15 required hours from the Major Requirements listed below.

Code	Title	Hours
Undergraduate Business Program Requirements		
COMM 103	Business & Professional Speaking	3
Select one of the following: ¹		3-4
MATH 131	Applied Calculus I	
MATH 161	Calculus I	
MGMT 341	Ethics in Business	3
BSAD 220	Career Preparation	2
<i>Writing Intensive</i>		
Select two Writing Intensive courses ²		6
<i>Global Awareness</i>		
Select one of the following: ³		3
ANTH 100	Globalization and Local Cultures	
ANTH 102	Culture, Society, and Diversity	
GLST 101	Introduction to Global Studies	
PLSC 102	International Relations in an Age of Globalization	
Any business course from the International Business major group		
Business Core Curriculum		
ACCT 201	Introductory Accounting I	3
ACCT 202	Introductory Accounting II	3
ECON 201	Principles of Microeconomics	3
ECON 202	Principles of Macroeconomics	3
Select one of the following:		3
FINC 301	Introductory Business Finance	
FINC 334	Principles of Corporate Finance (required for Finance majors and minors)	
INFS 247	Business Information Systems	3
INFS 343	Business Analytics	3
ISSCM 241	Business Statistics	3
LREB 315	Law and the Regulatory Environment of Business I	3
MARK 201	Principles of Marketing	3
MGMT 201	Managing People and Organizations	3
MGMT 304	Strategic Management	3
SCMG 232	Introduction to Supply Chain Management	3

Major Requirements

In addition to Core Curriculum and Business Core Curriculum requirements, students pursuing the BBA degree in information systems and analytics must complete 15 credit hours in the following courses:

INFS 346	Database & Data Warehousing Systems	3
INFS 347	Systems Analysis & Design	3
or ISSCM 393	Requirements Analysis and Communication	
Select one of the following:		3
INFS 394	Programming in Python	
INFS 397	VBA Programming with MS Office	
COMP 170	Introduction to Object-Oriented Programming	
Select two of the following. Any Analysis or Programming course not taken above may be taken as an elective in this major.		6
INFS 336	Global Perspectives on Digital Business	
INFS 347	Systems Analysis & Design	
INFS 348	Advanced Data Analytics	
INFS 360	Data Visualization & Business Intelligence	
INFS 394	Programming in Python	
INFS 395	Independent Study in Information Systems	
INFS 397	VBA Programming with MS Office	
INFS 399	Special Topics in Information Systems ⁴	
ISSCM 349	Project Management	
ISSCM 393	Requirements Analysis and Communication	
COMP 170	Introduction to Object-Oriented Programming	
Total Hours		74-75

¹ Students majoring in Finance are strongly encouraged to take MATH 161 Calculus I instead of MATH 131 Applied Calculus I.

² One must be a Quinlan course or ENGL 210 Business Writing.

³ A study abroad experience will also satisfy this requirement.

⁴ Only one INFS 399 Special Topics in Information Systems class is allowed to count for this major.

Suggested Sequence of Courses

The below sequence of courses is meant to be used as a suggested path for completing coursework. An individual student's completion of requirements depends on course offerings in a given term as well as the start term for a major or graduate study. Students should consult their advisor for assistance with course selection.

Course	Title	Hours
Year 1		
Fall		
ECON 201	Principles of Microeconomics	3
INFS 247	Business Information Systems	3
MATH 131	Applied Calculus I	3
		Hours
		9
Spring		
ACCT 201	Introductory Accounting I	3
ECON 202	Principles of Macroeconomics	3
		Hours
		6
Year 2		
Fall		
ACCT 202	Introductory Accounting II	3

BSAD 220	Career Preparation	2
INFS 346	Database & Data Warehousing Systems	3
ISSCM 241	Business Statistics	3
Hours		11
Spring		
MGMT 201	Managing People and Organizations	3
SCMG 232	Introduction to Supply Chain Management	3
Business Writing Intensive Course		3
INFS Analysis Choice		3
Hours		12
Year 3		
Fall		
MARK 201	Principles of Marketing	3
COMM 103	Business & Professional Speaking	3
INFS Programming Choice		3
Hours		9
Spring		
FINC 301	Introductory Business Finance	3
INFS 343	Business Analytics	3
MGMT 341	Ethics in Business	3
Hours		9
Year 4		
Fall		
LREB 315	Law and the Regulatory Environment of Business I	3
Writing Intensive Course		3
INFS Elective		3
Hours		9
Spring		
MGMT 304	Strategic Management	3
Global Awareness		3
INFS Elective		3
Hours		9
Total Hours		74

Specialized Requirements

Transfer Students

At the discretion of the Quinlan School of Business, a maximum of one transfer course (<https://www.luc.edu/quinlan/academics/studentresources/undergraduate/transfercredit/>) taken prior to matriculating at Loyola University Chicago may be allowed to satisfy major requirements.

Study Abroad

Students planning to study abroad are encouraged to meet with their academic advisor early in the planning stage. A student will be permitted to take up to two approved courses in any Quinlan major or minor (and including BA Economics majors). All courses must be approved by the Quinlan Undergraduate Dean.

Important Details

A 2.0 average GPA is required for all attempted business courses. (BA in Economics students must also earn a 2.0 average GPA for all attempted Economics courses).

Quinlan students are limited to double dipping once (that is, counting one course twice) between any major or minor combination, regardless of what program the major or minor is taken in. Non-Quinlan students are limited to double dipping twice (that is, counting two courses twice) between business school minors and/or their respective majors.

Additional Undergraduate Graduation Requirements

All Undergraduate students are required to complete the University Core, at least one Engaged Learning course, and UNIV 101. SCPS students are not required to take UNIV 101. Nursing students in the Accelerated BSN program are not required to take core or UNIV 101. You can find more information in the University Requirements (<https://catalog.luc.edu/undergraduate/university-requirements/>) area.

Learning Outcomes

- Integrating values and ethics into data analysis and information systems projects and solutions
- Conduct data analysis and information systems focused projects
- Demonstrate competence with SQL and at least one programming language
- Requirements analysis and specification
- Systems analysis and design
- Conceptual and logical data modeling
- Implementation and testing of back and front ends

The Loyola student network provides the student with access to current systems development environments such as Oracle, Teradata, OLAP/BI Tools, Data Visualization Tools, VBA, and C#.