

BACHELOR OF SCIENCE IN BUSINESS AND INFORMATION TECHNOLOGY

The Bachelor of Science in Business and Information Technology degree is a cross-disciplinary program that prepares graduates for careers at the intersection of business and technology. It provides them with critical thinking skills and technical expertise that prepares them to adapt to changing technological environments, successfully lead teams, and make key strategic management decisions.

The Business and Information Technology STEM curriculum includes a solid foundation in both business and information technology fundamentals. The curriculum explores business management strategies, accounting, data analytics, finance, optimization, entrepreneurship, operations, leadership, data modeling and applications and business computer applications. The program enables graduates to work successfully in technologically-oriented positions across organizations.

Stuart School of Business is a global leader in bridging technology and business, offering distinctive education that provides students with the knowledge and skillsets to become outstanding professionals.

Business and technology at Illinois Tech have a prestigious history that dates back to the 1880s, with the establishment of the Armour Institute of Technology in 1890 and the Lewis Institute in 1895. Business at Illinois Tech began at the Lewis Institute, Stuart's original home, with some of the nation's first courses in "Family and Consumer Science" (including "Home Economics" and "Household Management"), and the Institute's subsequent formation of the university's Department of Business and Economics in 1926. The merger of the Lewis Institute with the Armour Institute of Technology in 1940 brought business and technology under one entity. The Armour Institute of Technology itself was founded through the pioneering works of Philip D. Armour, a merchant financier, Julia A. Beveridge, a librarian turned public administrator, and Frank W. Gunsaulus, an entrepreneurial preacher. The Department Business and Economics ultimately grew into a separate school at Illinois Institute of Technology – the Stuart School of Business, in 1969, with a gift from Lewis Institute alum and renowned financier Harold Leonard Stuart. Harold L. Stuart himself was a national leader in the field of investment banking in the first half of the 20th century, and his Chicago investment bank played a pivotal role in establishing the city as a global financial hub, as well as financing some incredible engineering feats, including Chicago's elevated train lines.

Over a period of more than 125 years, harnessing curricular innovations by Julia A. Beveridge and George N. Carman, and incredible scholarly works by trailblazing Illinois Tech scholars Herb A. Simon (author of Administrative Behavior, later awarded the Nobel Prize in Economics), Karl Menger (developer of the St. Petersburg paradox in economics) and Abe Sklar (developer of the Copula in financial modeling), the Stuart School of Business has refined business education. A long-standing leader in curricular innovation, in 1990, building on the foundational works of numerous Illinois Tech scholars, and Harold L. Stuart's own contributions to finance and the broader business community, the Stuart School of Business established quantitative finance as an academic discipline,

with a world's first postgraduate Master's program in Financial Markets and Trading – a program that highlighted a new model for embedding into a postgraduate academic program the emphases on career readiness and connectedness with the business community, and transformed business school education.

The Bachelor of Science in Business and Information Technology brings together world-class faculty from the College of Computing and the Stuart School of Business, offering students an incredible opportunity to complete a core set of courses in both disciplines, with expanded access to subject matter experts from both colleges. As with all Stuart majors, the program emphasizes co-curricular opportunities that place students on the path to self-actualization and career success. Leadership, entrepreneurship, experiential learning, positive societal impact, and connectedness to the business community, combined with a human-centered approach to student development, and an unyielding focus on student success, are core pillars of all Stuart programs. Stuart is accredited by the Association to Advance Collegiate Schools of Business (AACSB) – an accreditation achieved by fewer than 6% of business schools worldwide.

The Bachelor of Science in Business and Information Technology builds on Stuart's and Computing's prestige in business and technology, as well as tradition of undergraduate education that prepares students to add value to any organization they may join on day 1 of their roles. The innovative program requires the successful completion of 126 credit hours.

Required Courses

Code	Title	Credit Hours
Business Requirements		(36)
BUS 100	Introduction to Business and Economics	3
BUS 211	Financial Accounting	3
BUS 212	Managerial Accounting	3
BUS 221	Business Statistics	3
BUS 301	Organizational Behavior	3
BUS 305	Operation and Supply Chain Analytics	3
BUS 321	Analytics for Optimization	3
BUS 351	Financial Analytics	3
BUS 371	Marketing Fundamentals	3
BUS 480	Strategic Management and Design Thinking	3
ECON 151	Microeconomics	3
ECON 152	Macroeconomics	3
Business Electives		(6)
Choose two courses		6
BUS 311	Strategic Cost Management	3
BUS 341	Business Law	3
BUS 361	Entrepreneurship	3

BUS 452	International Finance	3
BUS 454	Investments	3
BUS 455	Corporate Finance	3
BUS 457	Financial Modeling	3
BUS 458	Financial Derivatives	3
BUS 472	New Product Development	3
BUS 473	Marketing Analytics	3
BUS 475	Sales Management and Analytics	3
BUS 476	Consumer Behavior	3
ECON 251	Introduction to Econometrics	3
ECON 311	Intermediate Microeconomics	3
ECON 312	Intermediate Macroeconomics	3
ECON 382	Business Economics	3
ECON 383	Sports Economics	3
Information Technology Required Courses		(36)
ITM 301	Introduction to Contemporary Operating Systems and Hardware I	3
ITM 313	Introduction to Open Source Application Development	3
ITMD 321	Data Modeling and Applications	3
ITMD 361	Fundamentals of Web Development	3
ITMD 362	Human-Computer Interaction and Web Design	3
ITMD 413	Open Source Programming ¹	3
ITMO 340	Introduction to Data Networks and the Internet	3
ITMO 356	Introduction to Open Source Operating Systems	3
ITMM 471	Project Management for Information Technology and Management ²	3
ITMT 330	Introduction to Information Systems and the IT Profession	3
ITMT 430	System Integration	3
ITMS 448	Cyber Security Technologies	3
Mathematics Requirement		(7)
MATH 180	Fundamentals of Discrete Mathematics	3
MATH 148	Preparation for Calculus	4
	or MATH 151 Calculus I	
	or MATH 191 Business Calculus	
Natural Science and Engineering Requirements		(10)
See Illinois Tech Core Curriculum, section D		10
Humanities and Social Science Requirements		(21)
See Illinois Tech Core Curriculum, section B and C		21
Interprofessional Projects (IPRO)		(6)
See Illinois Tech Core Curriculum, section E		6
Computer Science Requirement		(4) ³
Free Electives		4
Total Credit Hours		126

¹ Prerequisite ITMD 411—conditional permission to enroll in ITMD 413

² Prerequisite ITM 100

³ ITM 313 satisfies Computer Science Requirement

Bachelor of Science in Business and Information Technology Curriculum

		Year 1	
Semester 1	Credit Hours	Semester 2	Credit Hours
BUS 100	3	ECON 152	3
ECON 151	3	ITMD 413 ¹	3
ITM 301	3	Humanities Elective (200 Level)	3
ITM 313 or MATH 151	3	MATH 180	3
MATH 148	4	Science Elective	4
		16	16
		Year 2	
Semester 1	Credit Hours	Semester 2	Credit Hours
BUS 211	3	BUS 212	3
BUS 321	3	BUS 221	3
ITMT 330	3	ITMD 362	3
ITMD 361	3	Social Science Elective	3
Science Elective	3	Science Elective	3
		15	15
		Year 3	
Semester 1	Credit Hours	Semester 2	Credit Hours
BUS 301	3	BUS 305	3
BUS 371	3	BUS 351	3
ITMD 321	3	ITMM 471 ²	3
ITMO 356	3	ITMO 340 ³	3
Social Science Elective (300+)	3	IPRO Elective I	3
		15	15
		Year 4	
Semester 1	Credit Hours	Semester 2	Credit Hours
Business Elective	3	BUS 480	3
ITMS 448	3	Business Elective	3
IPRO Elective II	3	ITMT 430	3
Social Science Elective (300+)	3	Humanities or Social Science Elective	3
Humanities Elective (300+)	3	Social Science Elective	3
Free Elective	4		
		19	15
Total Credit Hours: 126			

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² Prerequisite ITM 100—conditional permission to enroll in ITMM 471

³ Prerequisite ITMT 330—conditional permission to enroll in ITMO 340