

New Program Proposal

Date Submitted: 03/23/23 6:52 pm

Viewing: **BS-BUIT : Bachelor of Science in Business and Information Technology**

Last edit: 03/23/23 6:52 pm

Changes proposed by: rcalia

Program Status	Active		
Requestor	Name	Roland Calia	E-mail
	rcalia@stuart.iit.edu		
Origination Date	2023-3-23		
Is this an interdisciplinary program?	No		
Academic Unit	Business Administration		
College	Stuart School of Business		
Program Title	Bachelor of Science in Business and Information Technology		
Effective Academic Year	2023 - 2024	Effective Term	
	Fall 2023		
Academic Level	Undergraduate		
Program Type	Degree		
Degree Type	Bachelor of Science (BS)		
CIP Code			

In Workflow

1. **SB Associate Dean**
2. Academic Affairs
3. Undergraduate Academic Affairs
4. Director of Assessment
5. SB Dean
6. Marketing and Communications
7. Undergraduate Studies Committee Chair
8. Faculty Council Chair
9. Faculty Council Chair
10. Provost
11. President
12. Board of Trustees
13. Academic Affairs

Approval Path

1. 03/19/23 8:58 pm
M Krishna Erramilli (krish): Approved for SB Associate Dean
2. 03/20/23 4:12 pm
Patty Johnson Winston (winston): Rollback to Initiator
3. 03/20/23 9:00 pm
M Krishna Erramilli (krish): Approved for SB Associate Dean
4. 03/21/23 9:41 am
Patty Johnson Winston (winston): Rollback to Initiator
5. 03/21/23 10:48 am
M Krishna Erramilli

(krish): Approved
for SB Associate
Dean

6. 03/23/23 4:04 pm

Patty Johnson

Winston (winston):

Rollback to Initiator

11.1006 - Computer Support Specialist.

Is there more than one Academic Unit proposer?

No

Program Code BS-BUIT

Program Attribute

Total Program 126
Credit Hours

Program Narrative and Justification

Narrative description of how the institution determined the need for the program. For example, describe what need this program will address and how the institution became aware of that need. If the program is replacing a current program(s), identify the current program(s) that is being replaced by the new program(s) and provide details describing the benefits of the new program(s). If the program will be offered in connection with, or in response to, an initiative by a governmental entity, provide details of that initiative.

This program is part of the undergraduate program incubator.

See https://docs.google.com/document/d/1e5Mlgsk_Fh4CJgkSBxhUjW--KqFrzZa3QMAYNd8uDO0/edit

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.

Narrative description of how the program was designed to meet local market needs, or for an online program, regional or national market needs. For example, indicate if Bureau of Labor Statistics data or State labor data systems information was used, and/or if State, regional, or local workforce agencies were consulted. Include how the course content, program length, academic level, admission requirements, and prerequisites were decided; including information received from potential employers about course content; and information regarding the target students and employers.

The Bachelor of Science in Business and Information Technology was developed by the Stuart School of Business faculty in consultation with the faculty and leadership of the Department of Information Technology and Management in the College of Computing as well as industry experts and practitioners.

Narrative description of any wage analysis the institution may have performed, including any consideration of Bureau of Labor Statistics wage data related to the new program.

A Bachelor of Science in Business and Information Technology degree can provide an excellent preparation for private sector job markets, particular in the technology sector. Students with degree have a relatively high mean salary of between \$93,000 to 100,000 according to the Bureau of Labor Statistics. The job outlook is good, with job growth projected to increase at a range of 9% annually for financial analyst to 36% for data scientists. See <https://www.bls.gov/ooh/business-and-financial/financial-analysts.htm> and <https://www.bls.gov/ooh/math/data-scientists.htm>.

Narrative description of how the program was reviewed or approved by, or developed in conjunction with, one or more of the following: a) business advisory committees; b) program integrity boards; c) public or private oversight or regulatory agencies (not including the state licensing/authorization agency and accrediting agency); and d) businesses that would likely employ graduates of the program. For example, describe the steps taken to develop the program, identify when and with whom discussions were held, provide relevant details of any proposals or correspondence generated, and/or describe any process used to evaluate the program.

The Bachelor of Science in Business and Information Technology was developed and approved by the Stuart School of Business faculty in consultation with the faculty and leadership of the Department of Information Technology and Management in the College of Computing as well as industry experts and practitioners.

What are the enrollment estimates?

Year 1	5	Year 2	10	Year 3	15
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Attach Additional
Program
Justification
Document(s)

Academic Information

Advising

Since quality advising is a key component of good retention, graduation, and career placement, how will students be mentored? What student professional organizations will be formed? How will the department work with the Career Services office to develop industry connections?

Students will be primarily advised by the Stuart Undergraduate Program Director with the assistance of a designated advisor in the Department of Information Technology and Management.

Program Resources

Which program resources are necessary to offer this program?

Personnel
Facilities

Describe the personnel requirements necessary to offer the program. Describe how and when resources will be made available to hire any additional personnel that are required.

No new personnel will be required.

Describe the facilities requirements necessary to offer the program. Describe how and when resources will be made available to obtain any additional facilities that are required.

No new facilities will be required.

Proposed Bulletin Entry

Admission
Requirements

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.

Course Requirements

Business Requirements		(36)
<u>BUS 100</u>	Introduction to Business and Economics	3
<u>BUS 211</u>	Financial Accounting	3
<u>BUS 212</u>	Managerial Accounting	3

<u>BUS 221</u>	Business Statistics	3
<u>BUS 301</u>	Organizational Behavior	3
<u>BUS 305</u>	Operation and Supply Chain Design	3
<u>BUS 321</u>	Optimization and Decision-Making	3
<u>BUS 351</u>	Financial Decision-Making	3
<u>BUS 371</u>	Marketing Fundamentals	3
<u>BUS 480</u>	Strategic Management and Design Thinking	3
<u>ECON 151</u>	Microeconomics	3
<u>ECON 152</u>	Macroeconomics	3
Business Electives		(6)
Choose two courses		6
<u>BUS 311</u>	Strategic Cost Management	3
<u>BUS 341</u>	Business Law	3
<u>BUS 361</u>	Entrepreneurship	3
<u>BUS 452</u>	International Finance	3
<u>BUS 454</u>	Investments	3
<u>BUS 455</u>	Corporate Finance	3
<u>BUS 457</u>	Financial Modeling	3
<u>BUS 458</u>	Financial Derivatives	3
<u>BUS 472</u>	New Product Development	3
<u>BUS 473</u>	Marketing Research	3
<u>BUS 475</u>	Sales Management	3
<u>BUS 476</u>	Consumer Behavior	3
<u>ECON 251</u>	Introduction to Econometrics	3
<u>ECON 311</u>	Intermediate Microeconomics	3
<u>ECON 312</u>	Intermediate Macroeconomics	3
<u>ECON 382</u>	Business Economics	3
<u>ECON 383</u>	Sports Economics	3
Information Technology Required Courses		(36)
<u>ITM 301</u>	Introduction to Contemporary Operating Systems and Hardware I	3
<u>ITM 313</u>	Introduction to Open Source Application Development	3
<u>ITMD 321</u>	Data Modeling and Applications	3
<u>ITMD 361</u>	Fundamentals of Web Development	3
<u>ITMD 362</u>	Human-Computer Interaction and Web Design	3
<u>ITMD 413</u>	Open Source Programming ¹	3
<u>ITMO 340</u>	Introduction to Data Networks and the Internet	3
<u>ITMO 356</u>	Introduction to Open Source Operating Systems	3
<u>ITMM 471</u>	Project Management for Information Technology and Management ²	3
<u>ITMT 330</u>	Introduction to Information Systems and the IT Profession	3
<u>ITMT 430</u>	System Integration	3
<u>ITMS 448</u>	Cyber Security Technologies	3
Mathematics Requirement		(7)
<u>MATH 180</u>	Fundamentals of Discrete Mathematics	3
<u>MATH 148</u>	Preparation for Calculus	4
or <u>MATH 151</u>	Calculus I	
or <u>MATH 191</u>	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	

Program Outcomes and Assessment Process

What are the learning goals for this program?

Learning goal	Courses/student work used to assess achievement of this goal
SSB Common Goal 1 a: Oral Communications Skills Students will prepare and deliver oral presentations that are well-structured, technically competent and make good use of aids to support evidence-driven conclusions.	BUS 305
SSB Common Goal 1 b: Written Communications Skills Students will prepare documents in text-based media that are clear, accurate, and appropriate for the intended audience	
SSB Common Goal 2: Critical Thinking Skills Students will analyze and critique presented arguments as well as develop well-reasoned arguments that are supported by arguments..	BUS 480
BSBA Analytical Skills - Graduates will possess the analytical skills to support business decision making.	BUS 455
BE Application of Business Principles	BUS 321, BUS 351
ITM 301: Problem solve and create innovative answers to provide technology solutions for the problems of business, industry, government, non-profit organizations, and individuals	ITM 301

Learning goal**Courses/student work used to assess achievement of this goal**

See
<https://itm.iit.edu/data/CourseRubrics/ITM301Rubric.pdf>

In what semesters will the data be collected to assess this learning goal, and by whom?

Each semester in which the course is offered.

Provide the name of the rubric that will be used to assess the extent to which students are achieving this learning goal.

See above

How often and by whom will the data be analyzed? What benchmarks or targets will be used to interpret your results?

Each semester. The data will be analyzed by assigned faculty evaluators. Benchmarks are set by faculty.

Briefly describe the process that will be used to share the results with faculty and use these to motivate program improvement.

The Program Director meets with faculty on a regular basis to evaluate results of evaluations and to develop improvement programs. Students have access to IIT Career Center as well as Stuart Career Management Center services.

Attach Additional Assessment Document(s)

[SSBCommonCommunication Final.xls](#)

[Application of Business Principles.xlsx](#)

[BUS Analytical Skills.xlsx](#)

Undergraduate Program Requirements

Undergraduate Degree Requirements

Minimum credit hours 126

Specialization required?

No

Minor required?

No

Proposed General Curriculum

List Major Course Requirements

Business Requirements

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 Design	3
BUS 321	Optimization and Decision-Making	3
BUS 351	Financial Decision-Making	3
BUS 371	Marketing Fundamentals	3
BUS 480	Strategic Management and Design Thinking	3
ECON 151	Microeconomics	3
ECON 152	Macroeconomics	3

Information Technology Requirements

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	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	3
ITMT 330	Introduction to Information Systems and the IT Profession	3
ITMT 430	System Integration	3

ITMS 448	Cyber Security Technologies	3
Total Credit Hours		72
List Mathematics Requirements		
MATH 180	Fundamentals of Discrete Mathematics	3
MATH 148	Preparation for Calculus	4
or MATH 151	Calculus I	
or MATH 191	Business Calculus	
Total Credit Hours		7
List Science Requirements		
Natural Science and Engineering Requirements		
See Illinois Tech Core Curriculum, section D		10
Total Credit Hours		10
List Computer Science Requirements		
Computer Science Requirement fulfilled by ITM 313		
Total Credit Hours		0
List Humanities and Social Sciences Requirements		
Humanities and Social Science Requirements		
See Illinois Tech Core Curriculum, section B and C		21
Total Credit Hours		21
List Interprofessional Project (IPRO) Requirements		
Interprofessional Projects (IPRO)		
See Illinois Tech Core Curriculum, section E		6
Total Credit Hours		6
List Technical Elective Course Options		
Business Electives		
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 475		Sales Management		3
BUS 476		Consumer Behavior		3
ECON 251		Introduction to Econometrics		
ECON 311		Intermediate Microeconomics		
ECON 312		Intermediate Macroeconomics		
ECON 382		Business Economics		
ECON 383		Sports Economics		
Total Credit Hours				6
List Free Elective Credit Hours (if applicable)	4			
Semester-by-semester plan of study for the degree program				
				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	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	
Social Science Elective (300+)	3	I PRO 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
I PRO Elective II	3	ITMT 430	3
Social Science Elective (300+)	3	Humanities or Social Science Elective	3
Humanities Elective (300+)	3	Social Science Elective (300+)	3
Free Elective	4		
	19		15
Total Credit Hours: 126			

Reviewer

Comments

Patty Johnson Winston (winston) (03/20/23 4:12 pm): Rollback: Rollback per request of Roland Calia.

Patty Johnson Winston (winston) (03/21/23 9:41 am): Rollback: Please review the Course Requirements Section to insure that the Computer Science Requirement is correctly represented and located the right section, e.g., Illinois Tech Core Curriculum, section...

Patty Johnson Winston (winston) (03/23/23 4:04 pm): Rollback: Please review footnotes that are now added to the Course Requirement section and the Sample Curriculum section. Email (winston@iit.edu) if changes are needed.