

Department of

# Computer Information Technology



Steven Rigby, Department Chair  
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Amy Staiger, Department Secretary (208) 496-3620  
<http://www.byui.edu/CIT/>

## Introduction to Computer Information Technology

Take a look at Computer Information Technology (CIT). It includes the design, development, and management of systems within an organization to solve real world problems. A world of opportunity awaits you.

A career in CIT allows you to create solutions for real problems that effect real people. As you help solve these problems with your team, you may be creating new and exciting solutions that change the everyday lives of individuals. You will be making a real difference that impacts the growth and success of an organization.

There is high demand for BYU-Idaho CIT graduates all over the world in all segments of the economy in both small and large companies. Careers in CIT pay higher-than-average salaries. You can work in major financial, accounting, agriculture, manufacturing, medicine, retailing, or software companies, in education or government agencies, or for non-profit organizations.

Careers in CIT are dynamic. New challenges and opportunities await you every day. Working in a team, you will interact cooperatively with the management, customers, clients, and other information technology professionals to determine what the solution needs to do, what it needs to look like, and how it should work. One day, you may be meeting with customers and clients, the next designing software, and the next designing a database. The next day you may be involved in designing a complex network to allow your organization to communicate more effectively using the web, mobile devices, and computers. The next day you may be setting up a clustered set of web servers. CIT is a very interactive and interesting career in which to work.

General Advisement questions should be directed to the College of Business and Communication Advisement Center, Smith 227, (208) 496-9840 or [cbcAcademicDiscoveryCenter@byui.edu](mailto:cbcAcademicDiscoveryCenter@byui.edu). Online students can contact (208) 496-9900 or [cbconline@byui.edu](mailto:cbconline@byui.edu).

A minimum GPA of 1.7 (C-) is required in all major courses to graduate.

## Accessibility of Computer Information Technology Courses

CIT 110, CIT 111, CIT 160, CIT 240, CIT 370, and CIT 380 are available to all students.

**Computer Information Technology**  
Brigham Young University-Idaho 2015-2016

**BS in Computer Information Technology (681)**

<b>CIT Core</b> <i>Take these courses:</i>	<i>cont. from previous column</i>	<b>CIT Electives</b> <i>Take 6 additional credits of any CIT courses 200-level or higher not used as part of CIT core:</i>	<b>CIT Capstone</b> <i>Take 1 course:</i>	<i>Program Notes:</i>
CIT 160           3	CIT 262           3		CIT 490           3	•No Double Counting of Major Courses
CIT 225           3	CIT 325           3		CIT 498           3	•No Grade Less Than C- in Major Courses
CIT 230           3	CIT 352           3			•Please check online for course availability. Some courses are not offered every semester.
CIT 240           3	CIT 353           3		<i>Take this course:</i>	
CIT 241           3	CIT 360           3		CIT 495           1	
CIT 260           3	CIT 370           3			
<i>cont. in next column</i>	CIT 380           3	6		
	COMM 175       2			
	41			
<b>Credit Requirements:</b>			<b>Tracks Available:</b>	
Foundations	40		Fall-Winter	Yes
Major	51		Winter-Spring	Yes
Elective	29		Spring-Fall	Yes
Total	120			

**BS in Business Analytics (686)**

<b>Information Systems Core Courses</b> <i>Take these courses:</i>	<i>cont. from previous column</i>	<i>Take 1 course:</i>	<i>Program Notes:</i>	
CIT 111           3	ECON 215       4	CIT 499R       1-3	•No Double Counting of Major Courses	
CIT 160           3	ECON 255       3	B 411           3	•No Grade Less Than C- in Major Courses	
CIT 225           3	ECON 278       3			
CIT 380           3	ECON 388       3			
CIT 381           3	ACCTG 201     3			
CIT 425           3	ACCTG 202     3			
ECON 150       3	B 211           3			
<i>cont. in next column</i>	B 212           4			
	B 410           3			
	CIT 498           3			
	53			
<b>Credit Requirements:</b>			<b>Tracks Available:</b>	
Foundations	40		Fall-Winter	Yes
Major	54		Winter-Spring	Yes
Elective	26		Spring-Fall	Yes
Total	120			

**Minor in Computer Information Technology (202)**

<b>Required Courses</b> <i>Take these courses:</i>	<b>Elective Courses</b> <i>Take 6 additional credits of any CIT courses 200-level or higher not used as part of CIT core:</i>	<i>Program Notes:</i>	
CIT 111 or 225   3		•No Double Counting of Minor Courses	
CIT 160           3		•No Grade Less Than C- for Minor Courses	
CIT 230           3			
CIT 240           3			
CIT 260           3			
CIT 380           3			
18	6		
<b>Credit Requirements:</b>		<b>Tracks Available:</b>	
Total	24	Fall-Winter	Yes
		Winter-Spring	Yes
		Spring-Fall	Yes

**Minor in Business Analytics (246)**

<b>Required Courses</b> <i>Take these courses:</i>	<i>Take 1 course:</i>	<i>Program Notes:</i>	
CIT 111           3	ECON 215       4	•No Double Counting of Minor Courses	
CIT 160           3	FDMAT 112     4	•No Grade Less Than C- for Minor Courses	
CIT 225           3			
CIT 381           3	<i>Take 1 course:</i>		
ECON 150       3	ECON 278       3		
ECON 255       3	MATH 221A     3		
18	3		
<b>Credit Requirements:</b>		<b>Tracks Available:</b>	
Total	25	Fall-Winter	Yes
		Winter-Spring	Yes
		Spring-Fall	Yes

### Computer Information Technology Concentration (D 122)

<b>Required Courses</b> <i>Take these courses:</i> CIT 110           3 CIT 111           3 CIT 160           3 CIT 230           3 CIT 240           3 CIT 261           3 CIT 336           3 CIT 370           3 CIT 380           3 CIT 381           3 <hr style="width: 50%; margin-left: 0;"/> 30	<b>Interdisciplinary Courses</b> <i>Take these courses:</i> IDS 398R           1-3 IDS 499            2 <hr style="width: 50%; margin-left: 0;"/> 3	<b>Program Notes:</b> •No Double Counting of Concentration Courses •No Grade Less Than C- for Minor Courses
<b>Credit Requirements:</b> Total                   33		<b>Tracks Available:</b> Fall-Winter           Yes Winter-Spring        Yes Spring-Fall            Yes

### Computer Information Technology Certificate (C 108)

<b>Core Courses</b> <i>Take 5 courses:</i> CIT 110           3 CIT 111           3 CIT 160           3 CIT 230           3 CIT 240           3 CIT 260           3 <hr style="width: 50%; margin-left: 0;"/> 15	<b>Program Notes:</b> •No Grade Less Than C- for Certificate Courses
<b>Credit Requirements:</b> Total                   15	

### Computer Information Technology Pre-approved Clusters

<table border="1" style="width: 100%;"> <tr> <td colspan="2"><b>Generic CIT</b> <span style="float: right;">2500</span></td> </tr> <tr> <td colspan="2"><i>Take these courses:</i></td> </tr> <tr> <td>CIT 160   Introduction to Programming</td> <td align="right">3</td> </tr> <tr> <td>CIT 230   Web Frontend Development</td> <td align="right">3</td> </tr> <tr> <td>CIT 240   Networking</td> <td align="right">3</td> </tr> <tr> <td>CIT 336   Web Backend Development</td> <td align="right">3</td> </tr> <tr> <td><b>Total Credits</b></td> <td align="right"><u>12</u></td> </tr> </table> <table border="1" style="width: 100%;"> <tr> <td colspan="2"><b>Programming</b> <span style="float: right;">2501</span></td> </tr> <tr> <td colspan="2"><i>Take these courses:</i></td> </tr> <tr> <td>CIT 111   Introduction to Databases</td> <td align="right">3</td> </tr> <tr> <td>CIT 160   Introduction to Programming</td> <td align="right">3</td> </tr> <tr> <td>CIT 230   Web Frontend Development</td> <td align="right">3</td> </tr> <tr> <td>CIT 260   Object Oriented Programming I</td> <td align="right">3</td> </tr> <tr> <td><b>Total Credits</b></td> <td align="right"><u>12</u></td> </tr> </table> <table border="1" style="width: 100%;"> <tr> <td colspan="2"><b>Networking</b> <span style="float: right;">2502</span></td> </tr> <tr> <td colspan="2"><i>Take these courses:</i></td> </tr> <tr> <td>CIT 240   Networking</td> <td align="right">3</td> </tr> <tr> <td>CIT 241   Network Design I</td> <td align="right">3</td> </tr> <tr> <td>CIT 353   Operating Systems 2</td> <td align="right">3</td> </tr> <tr> <td>CIT 370   Systems Security I</td> <td align="right">3</td> </tr> <tr> <td><b>Total Credits</b></td> <td align="right"><u>12</u></td> </tr> </table>	<b>Generic CIT</b> <span style="float: right;">2500</span>		<i>Take these courses:</i>		CIT 160   Introduction to Programming	3	CIT 230   Web Frontend Development	3	CIT 240   Networking	3	CIT 336   Web Backend Development	3	<b>Total Credits</b>	<u>12</u>	<b>Programming</b> <span style="float: right;">2501</span>		<i>Take these courses:</i>		CIT 111   Introduction to Databases	3	CIT 160   Introduction to Programming	3	CIT 230   Web Frontend Development	3	CIT 260   Object Oriented Programming I	3	<b>Total Credits</b>	<u>12</u>	<b>Networking</b> <span style="float: right;">2502</span>		<i>Take these courses:</i>		CIT 240   Networking	3	CIT 241   Network Design I	3	CIT 353   Operating Systems 2	3	CIT 370   Systems Security I	3	<b>Total Credits</b>	<u>12</u>	<table border="1" style="width: 100%;"> <tr> <td colspan="2"><b>Web</b> <span style="float: right;">2503</span></td> </tr> <tr> <td colspan="2"><i>Take these courses:</i></td> </tr> <tr> <td>CIT 111   Introduction to Databases</td> <td align="right">3</td> </tr> <tr> <td>CIT 230   Web Frontend Development</td> <td align="right">3</td> </tr> <tr> <td>CIT 336   Web Backend Development</td> <td align="right">3</td> </tr> <tr> <td colspan="2"><i>Take 1 course:</i></td> </tr> <tr> <td>COMM 125   Visual Fundamentals</td> <td align="right">3</td> </tr> <tr> <td>CS 371       Human-Computer Interaction</td> <td align="right">3</td> </tr> <tr> <td><b>Total Credits</b></td> <td align="right"><u>12</u></td> </tr> </table> <table border="1" style="width: 100%;"> <tr> <td colspan="2"><b>Project Lifecycle</b> <span style="float: right;">2504</span></td> </tr> <tr> <td colspan="2"><i>Take these courses:</i></td> </tr> <tr> <td>CIT 111   Introduction to Databases</td> <td align="right">3</td> </tr> <tr> <td>CIT 160   Introduction to Programming</td> <td align="right">3</td> </tr> <tr> <td>CIT 225   Database Design and Development</td> <td align="right">3</td> </tr> <tr> <td>CIT 380   Project Management</td> <td align="right">3</td> </tr> <tr> <td><b>Total Credits</b></td> <td align="right"><u>12</u></td> </tr> </table>	<b>Web</b> <span style="float: right;">2503</span>		<i>Take these courses:</i>		CIT 111   Introduction to Databases	3	CIT 230   Web Frontend Development	3	CIT 336   Web Backend Development	3	<i>Take 1 course:</i>		COMM 125   Visual Fundamentals	3	CS 371       Human-Computer Interaction	3	<b>Total Credits</b>	<u>12</u>	<b>Project Lifecycle</b> <span style="float: right;">2504</span>		<i>Take these courses:</i>		CIT 111   Introduction to Databases	3	CIT 160   Introduction to Programming	3	CIT 225   Database Design and Development	3	CIT 380   Project Management	3	<b>Total Credits</b>	<u>12</u>
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## Course Descriptions

## Credits\*

<b>CIT 101A Discovering Computing - Survey</b>	<b>(1:3:0:0)</b>
Repeatable Course: May earn maximum of 3 credits Special-topics course related to new and emerging technologies. (Fall, Winter, Spring)	
<b>CIT 101B Discovering Computing - Exploration</b>	<b>(2:2:0:0)</b>
Repeatable Course: May earn maximum of 4 credits Special-topics course related to new and emerging technologies (Fall, Winter, Spring)	
<b>CIT 101C Discovering Computing</b>	<b>(3:3:0:0)</b>
Repeatable Course: May earn maximum of 6 credits Special-topics course related to new and emerging technologies. (Fall, Winter, Spring)	
<b>CIT 110 Introduction to Excel</b>	<b>(3:3:0:0)</b>
This course is an introduction to the use of spreadsheets in business. Emphasis is on learning spreadsheet literacy concepts and a popular spreadsheet application to solve business problems. (Fall, Winter, Spring)	
<b>CIT 111 Introduction to Databases</b>	<b>(3:3:0:0)</b>
This course teaches the basic elements of database management systems. It introduces students to the concepts of logical and physical relationships in a data model and the concept of inner join. Students will use a computer aided software engineering (CASE) tool to design, create, and query a database. (Fall, Winter, Spring)	
<b>CIT 160 Introduction to Programming</b>	<b>(3:3:0:0)</b>
This course is an introduction to the basic concepts of computers and information technology. Students will learn the basics of computer hardware, design algorithms to solve simple computing problems, and will write computer programs using Boolean logic, control structures, arrays, and functions. (Fall, Winter, Spring)	
<b>CIT 225 Database Design and Development</b>	<b>(3:3:0:0)</b>
Prerequisites: CIT 160 or CS 124 This course covers the physical and logical design elements of relational and object-relational databases, including the definition of and organization of structures into a database catalog. It explores symbolic drawing methodologies, like Information Engineering and UML. This course teaches SQL language semantics, including DDL, DML, and DQL structures. It exposes students to database configuration and tuning. (Fall, Winter, Spring)	
<b>CIT 230 Web Frontend Development</b>	<b>(3:3:0:0)</b>
This course prepares students to develop web sites through a study of Hypertext Markup Language (HTML5), Cascading Style Sheets (CSS), Usability principles, and User Interface (UI) principles. (Fall, Winter, Spring)	
<b>CIT 240 Networking</b>	<b>(3:3:0:0)</b>
This course teaches general networking principles to provide an understanding of data communication protocols, transmission systems, media, and software. (Fall, Winter, Spring)	
<b>CIT 241 Network Design I</b>	<b>(3:3:0:0)</b>
Prerequisite: CIT 240 This course teaches the principles of network design standards and architectures. Students will learn the configuration of use and networking devices including repeaters, hubs, bridges, switches, and routers to create enterprise networks. (Fall, Winter, Spring)	
<b>CIT 260 Object Oriented Programming I</b>	<b>(3:2:3:0)</b>
Prerequisite: CIT 160 This course is an introduction to object oriented programming using the Java programming language. Students will write computer programs using primitive data types, control structures, Java Swing classes, and objects. Students will read and draw UML class diagrams and will use Java swing to write programs with a graphical user interface. (Fall, Winter, Spring)	

<b>CIT 261 JavaScript Mobile Software Development</b>	<b>(3:3:0:0)</b>
Prerequisites: (CIT 160 and CIT 230) or CS 213 This course is designed to help students gain the skills required to design and create single page JavaScript, CSS3, and HTML5 applications for modern mobile device browsers. Professional characteristics such as self-reliance, communication, sharing, and self-reflection are stressed. (Fall, Winter, Spring)	
<b>CIT 262 System Analysis and Design</b>	<b>(3:3:0:0)</b>
Prerequisite: CIT 260 This course teaches the concepts of systems analysis and design for those desiring to work in the field of information technology. Initially, an overview of an information system and the software development life cycle (SDLC) processes are covered. Students will gain an in depth, real experience through each phase of the SDLC process. Computer aided Software (CASE) tools will be used to design and document an information system/project. (Fall, Winter, Spring)	
<b>CIT 298 Introductory Internship</b>	<b>(1-3:0:0)</b>
Internship Fees: \$78 (LDS) \$156 (non-LDS) per credit Exempt from tuition, but charged this independent course fee Prerequisites: CIT 110 and CIT 240 and CIT 260 This course is designed as a CIT sophomore-level capstone experience where a student applies the skills previously learned in computer information technology/information systems in a real-world environment. (Fall, Winter, Spring)	
<b>CIT 301A Current Technologies - Survey</b>	<b>(1:1:0:0)</b>
Repeatable Course: May earn maximum of 3 credits Special-topics course related to new and emerging technologies (Fall, Winter, Spring)	
<b>CIT 301B Current Technologies - Exploration</b>	<b>(2:2:0:0)</b>
Repeatable Course: May earn maximum of 4 credits Special-topics course related to new and emerging technologies. (Fall, Winter, Spring)	
<b>CIT 301C Current Technologies - Integration</b>	<b>(3:3:0:0)</b>
Repeatable Course: May earn maximum of 6 credits Special-topics course related to new and emerging technologies (Fall, Winter, Spring)	
<b>CIT 325 Database Administration</b>	<b>(3:3:0:0)</b>
Prerequisites: CIT 225 and CIT 260 This course is a continuation of CIT 320 and focuses on the development of stored functions, libraries, objects, procedures, and packages. Students will design and write stored database program units in PL/SQL. Students will also use an Integrated Development Environment (IDE) to write and test programs against database. (Fall, Winter, Spring)	
<b>CIT 336 Web Backend Development</b>	<b>(3:3:0:0)</b>
Prerequisite: CIT 230 This course prepares students to develop web sites by continuing the implementation of concepts from the Web Frontend development course and adding backend components (MySQL databases, PHP, SQL, and the MVC design pattern) to create dynamic web sites. (Fall, Winter, Spring)	
<b>CIT 341 Network Design II</b>	<b>(3:3:0:0)</b>
Prerequisite: CIT 240 This course focuses on advanced router configuration, Cisco IOS Software management, routing protocol configuration, TCP/IP and advanced routing protocols such as EIGRP and Frame Relay. Students will develop skills on how to configure a router, managing Cisco IOS Software, and configuring routing protocols on routers. (Fall, Winter, Spring)	
<b>CIT 345 Wireless Networking</b>	<b>(3:3:0:0)</b>
Prerequisite: CIT 240 This is an introductory course in Wireless Networking. The course encompasses the design, planning implementation, operation, and troubleshooting of wireless communication. The material covers a comprehensive overview of technologies, security, and design practices. (Fall, Winter, Spring)	

<p><b>CIT 352 Operating Systems I</b> (3:3:0:0) Prerequisite: CIT 240 This course provides a fundamental understanding of computer operating systems focusing on Linux. (Fall, Winter, Spring)</p> <p><b>CIT 353 Operating Systems II</b> (3:3:0:0) Prerequisite: CIT 240 This course provides students with the administration skills to plan, install/configure, manage, and troubleshoot a Windows Server Environment. (Fall, Winter, Spring)</p> <p><b>CIT 360 Object-Oriented Software Development</b> (3:2:3:0) Prerequisite: CIT 262 This course allows students to experience a work-like environment. The course pulls together Software Engineering and Object Oriented Programming techniques learned in previous courses. Based on customer requirements, students will learn to find, evaluate, and select solutions to problems that have many “right” solutions. Students will also learn new Object Oriented and software production techniques. (Fall, Winter, Spring)</p> <p><b>CIT 370 Systems Security I</b> (3:3:0:0) This course provides students with an overview of the field of Information Security and Assurance. Students will be exposed to the spectrum of security activities, methods, methodologies, and procedures. This course offers a comprehensive guide for anyone wishing to take the CompTIA Security SY0-301 Certification Exam. It also provides an introduction to the fundamentals of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. This course will cover new topics in network security, including psychological approaches to social engineering attacks, web application attacks, penetration testing, data loss prevention, cloud computing security, and application programming development security. (Fall, Winter, Spring)</p> <p><b>CIT 380 Project Management</b> (3:3:0:0) Course Requirements: Junior and Senior Standing Only This course is designed to help students learn to use project management tools, techniques, practices, styles, and methods, to plan, implement, and manage coordinated work efforts and solve business problems. This course provides an opportunity to organize and plan the elements of one-time, unique endeavors that add value to an organization. (Fall, Winter, Spring)</p> <p><b>CIT 381 Business Intel and Analytics</b> (3:3:0:0) Prerequisite: CIT 160 This course introduces business intelligence and analytic software and applications. It introduces students to the architecture, design, development, and deployment of frameworks for analysis within decision-making life cycles. It introduces students to the principles and characteristics of Business Intelligence Systems, Decision Support Systems (DSS), Executive Information Systems (EIS), Expert Systems (ES), Management Information Systems (MIS), Artificial Intelligence, and Game Theory. Students will build analytical models using non-procedural development environments like Microsoft Excel, SQL Server Analysis Services (SSAS), R programming language, and similar platforms. Topics include learning how to build multidimensional data cubes, tabular BI semantic models, data mining, decision trees, linear and logistic regression, Naive Bayes, cluster, association rules, time series, and neural network analysis techniques. (Fall, Winter, Spring)</p> <p><b>CIT 425 Data Warehousing</b> (3:3:0:0) Prerequisite: CIT 225 This course defines the theory and practice of data analysis. The course will compare and contrast the operational and analytical database models. Students will learn how to define, implement, and query a database warehouse by leveraging sample data warehouses built from Enterprise Resource Planning (ERP) and Customer Resource Management (CRM) solutions. (Fall, Winter, Spring)</p> <p><b>CIT 460 Enterprise Development</b> (3:2:3:0) Prerequisites: CIT 225 and CIT 360 This course covers the architecture for N-tier applications by focusing on the use of effective design patterns. Different technologies to implement the MVC control pattern will be explored. The J2EE architecture will be covered in depth including Servlets, Java Server Pages, and Enterprise Java Beans. Applications that implement all parts of the MVC pattern will be designed, implemented, and deployed. (Fall, Winter, Spring)</p>	<p><b>CIT 465 iOS Application Development</b> (3:3:0:0) Prerequisites: CS 165 or CIT 260 This course is designed to give you experience with syntactical and advanced development techniques within the iOS development ecosystem. These techniques are used to solve ill-structured problems like those encountered in businesses and consulting firms. (Fall, Winter, Spring)</p> <p><b>CIT 470 System Security II</b> (3:3:0:0) Prerequisites: CIT 240 and CIT 352 and CIT 370 The purpose of this lab based course is to teach students techniques for securing the entire network architecture both internally and externally. Students will learn how to configure and use firewalls and intrusion detection/prevention systems. In addition, students will learn how to harden operating systems and secure remote access. (Fall, Winter, Spring)</p> <p><b>CIT 485 Enterprise Applications</b> (3:3:0:0) Prerequisites: CIT 225 and CIT 352 This course is a capstone class that integrates design, analysis, database concepts, and programming. The course will present product integration, configuration management, and implementation concepts. Students will learn how to install, maintain, and integrate a suite of products to deliver complex Enterprise Resource Planning (ERP) and Customer Resource Management (CRM) solution. (Fall, Winter, Spring)</p> <p><b>CIT 490 Senior Project</b> (3:3:0:0) Course Requirements: Junior and Senior Standing and Instructor Approval Required The course is designed to allow each student to design, build, and implement a project of their own choosing to further individual learning and career goals. Students will identify an area of interest and propose a project plan to pursue and achieve those goals primarily through the analysis, design, development, and implementation of a fully functional information system or completion of a professional-level certification. Students will work with faculty mentors on an individual basis for project approval and achieving the project objectives. (Fall, Winter, Spring)</p> <p><b>CIT 495 Senior Practicum</b> (1:1:0:0) Course Requirements: Seniors Only and Instructor Approval Required This is a capstone experience for the Computer Information Technology major. There are two options available: A research paper on a relevant Information Technology topic or participate in service learning. The purpose of this course is to build on the knowledge that students have learned in the Computer Information Technology major. (Fall, Winter, Spring)</p> <p><b>CIT 498 Internship</b> (3:0:0:0) Internship Fees: \$78 (LDS) \$156 (non-LDS) per credit Exempt from tuition, but charged this independent course fee This course is designed to be a capstone experience where a student applies the skills they have learned in information systems in a real world environment. (Fall, Winter, Spring)</p> <p><b>CIT 499R Special Topics</b> (1-3:0:0:0) Repeatable Course: May earn maximum 4 credits This is a special topics course to address the latest advancements in information technology. (Fall, Winter, Spring)</p>
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