INFORMATION TECHNOLOGY (IT)

IT 0010. Applying Computer Software
Units: 3
Formerly known as CIS 50
Hours: 72 (54 lecture, 18 laboratory)
An overview of business and academic use of common office application software for word processing, spreadsheets, charting data, databases, and presentations. Using current operating system software, managing files, using online tools, transmitting files via the Internet. Common computer hardware and software system concepts; impact of computers on society, networks and security. Also includes exploration and practice of 21st century career skills: Resilience, Self-awareness, Digital Fluency. (CSU)

IT 0015. Business Information Systems
Units: 3
Formerly known as CIS 62
Advisory: Eligibility for ENGL 1A
Hours: 72 (54 lecture, 18 laboratory)
Examination of information systems and their role in business. Focus on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. Application of these concepts and methods through hands-on projects developing computer-based solutions to business problems. Also includes exploration and practice of 21st century career skills: Digital Fluency - Professional Networking (Social Media), Collaboration – Teamwork, Social/Diversity Awareness. (C-ID ITIS 120) (CSU)

IT 0020. Word Processing - Beyond the Basics
Units: 3
Formerly known as CIS 70
Advisory: Keyboarding skill of 25 w.p.m.; completion of IT 10 and SKDV 10 with grades of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Advanced word processing techniques, including styles and outlines, generating form letters, mailing labels and envelopes using mail merge, working with master documents, indexes and tables of content, creating reports using wizards and templates, applying macros, integrating software, creating web pages and online forms. Also includes exploration and practice of 21st century career skills: Adaptability, Communication, Empathy and Digital Fluency. (CSU)

IT 0025. Spreadsheets in a Business Environment
Units: 3
Formerly known as CIS 80
Advisory: Completion of IT 10 and SKDV 10 with grades of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Design and use of "what-if" analysis, static and dynamic web pages, financial functions, data and lookup tables, amortization schedules and templates. Includes working with multiple worksheets and workbooks, analyzing worksheet results, sorting and querying a worksheet database, using macros, and integrating software. Also includes exploration and practice of 21st century career skills: Adaptability, Analysis/Solution Mindset, Entrepreneurial Mindset and Personal Finance. (CSU)

IT 0028. Independent Study
Units: 1-3
Formerly known as CIS 28
Designed for students interested in furthering their knowledge at an independent study level in an area where no specific curriculum offering is currently available. Independent study might include, but is not limited to, research papers, special subject area projects, and research projects. See Independent Study page in catalog. (CSU)

IT 0030. Software for Dynamic Presentations
Units: 3
Formerly known as CIS 100
Advisory: Completion of IT 10 with grade of "C" or better or equivalent digital fluency
Hours: 72 (54 lecture, 18 laboratory)
Amplify your message by integrating graphics, animation, music, video and use various software applications to develop unique, effective, professional quality presentations. Design and customize high quality presentations employing best practices. Also includes exploration and practice of 21st century career skills: Communication, Social/Diversity Awareness, Digital Fluency and Collaboration. (CSU)

IT 0035. Microsoft Outlook - Managing Information
Units: 3
Formerly known as CIS 105
Advisory: Completion of IT 10 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Includes managing email folders; sending, receiving, forwarding email messages; using "netiquette" and distribution lists; scheduling appointments, meetings, events; creating contacts, address books and calendars; tracking tasks; setting reminders; sharing information and publishing schedules via the web. Also includes exploration and practice of 21st century career skills: Communication. (not transferable)

IT 0040. Creating Business Graphics with Microsoft Publisher
Units: 3
Formerly known as CIS 120
Advisory: Completion of IT 10 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Designed to assist the office professional in utilizing Microsoft Publisher to create high-quality desktop publishing documents. Learning activities include preparation of a flyer, newsletter, logo, CD liner, business card, tri-fold brochure, calendar, catalog, event program, coupon, and certificate. Also includes exploration and practice of 21st century career skills: Social/Diversity Awareness. (CSU)

IT 0045. Foundations for Creating Web Pages
Units: 3
Formerly known as CIS 67
Advisory: Completion of IT 10 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Introduction to building Web pages using HTML and basic Web-authoring software; technical and design concepts behind Web pages: how the Internet works, connection technologies, Web search techniques, evaluating Web pages, file transfer and management, file compression, browser tips and tricks, mailing lists, Internet security. Also includes exploration and practice of 21st century career skills: Social/Diversity Awareness and Entrepreneurial Mindset. (CSU)

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IT 0055. Database Management
Units: 3
Formerly known as CIS 90
Advisory: Completion of IT 25 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Discover the intricacies of relational databases using the current version of Microsoft Access. Includes designing database structures: tables, queries, forms, reports, and macros. Also includes integrating with the Web, Excel and other programs. Emphasis on hands-on learning. Also includes exploration and practice of 21st century career skills: Analysis/Solution Mindset, Critical Thinking, Problem Solving and Digital Fluency. (CSU)

IT 0060. Project Management Concepts and Software
Units: 3
Formerly known as CIS 136
Advisory: Completion of IT 55 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Explores Project Management concepts and terminologies along with the use of Microsoft Office Project and other project management tools through discussions, hands-on exercises and classroom learning experiences. Includes WBS, budgeting, and resource allocation and other important PM topics such as Scope and Project Team Development. Helps prepare students to use the software package in their daily duties as a project manager or project assistant. Also includes exploration and practice of 21st century career skills: Adaptability, Collaboration and Social/Diversity Awareness. (not transferable)

IT 0065. Data Analytics/Visualization Using Tableau
Units: 3
Formerly known as CIS 91
Advisory: Completion of IT 25 and IT 55 with grades of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Learn how to use Tableau, a leading data analysis and visualization tool, to bring the world’s data into views that everyone can use and understand. Go beyond basic charts by building powerful dashboards and drill down reports to support business decision makers or help explain visually the global impact of a single voice. (not transferable)

IT 0070. Systems Analysis and Design
Units: 3
Advisory: Completion of IT 10 and IT 15 with grades of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
This course is a detailed study of business systems analysis and design theory and application techniques. Issues in systems analysis and design, from project identification, requirements, specification and analysis, design to implementation and maintenance, will be presented. Focus will be on tools and principles related to object oriented systems analysis and design. Attention is given to the role of the systems analyst within the business environment. Also includes exploration and practice of 21st century career skills: Adaptability, Analysis/Solution Mindset, and Communication. (CSU)

IT 0075. Python for Many Uses
Units: 3
Advisory: Completion of IT 105 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Learn to use Python to manipulate data for analytics, to manage IoT devices and/or for creating scripts to improve network security. This course will start at a very basic level and work up to applied solutions for real world work environments. (CSU)

IT 0080. IoT - Internet of Things
Units: 3
Prerequisite: Completion of IT 105 with grade of "C" or better
Advisory: Eligibility for ENGL 1A; Completion with grades of "C" or better or concurrent enrollment in IT 75 and IT 125 recommended
Hours: 72 (54 lecture, 18 laboratory)
Introduction to the Internet of Things (IoT), where people, processes, things, and data are connected via emerging Internet technologies. A variety of networking and computer hardware devices will be integrated into end-to-end systems to solve practical problems. (CSU)

IT 0090. IT Fundamentals
Unit: 1.5
Hours: 36 (27 lecture, 9 laboratory)
Designed to prepare students to identify and explain basic computer components, set up a basic workstation, conduct basic software installation, establish basic network connectivity, identify compatibility issues, and identify/prevent basic security risks. Further, this course will prepare students in the areas of safety and preventative maintenance of computers. This course is intended for students who are considering a career in IT and later considering the pursuit of completing IT 100 and the CompTIA A+ certification exam. (not transferable)

IT 0095. Internship in Information Technology
Units: 0.5-4
Formerly known as CIS 95
Designed for advanced students to work in an area related to their educational or occupational goal. Provides new on-the-job technical training under the direction of a worksite supervisor, allowing students to expand knowledge and skills in the chosen field. Mandatory orientation session and faculty approval to determine eligibility. One unit of credit is equal to each 60 hours of non-paid work, or each 75 hours of paid work. Students may earn up to a total of 16 units in internship courses (any course numbered 95 and PDEV 94). (CSU-with unit limitation)

IT 0100. Information and Communication Technology Essentials
Units: 4
Formerly known as CIS 26
Hours: 72 lecture
Provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level ICT professionals. Focuses on the fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional. Preparation for CompTIA's A+ certification exam. Also includes exploration and practice of 21st century career skills: Self Awareness, Communication, Social/Diversity Awareness. (C-ID ITIS 110) (CSU)

IT 0105. Computer Network Fundamentals
Units: 3
Formerly known as CIS 65
Advisory: Completion of IT 100 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. Uses OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. Preparation for the CompTIA Network+ certification exam. Also includes exploration and practice of 21st century career skills: Digital Fluency and Resilience. (C-ID ITIS 150) (CSU)

Information Technology (IT)
IT 0110. Installing, Configuring and Administering a Client OS
Units: 3
Formerly known as CIS 141
Advisory: Completion of IT 105 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Setup and support for a desktop operating system using a current
desktop operating system in a networked environment. Creation of local
and domain-level accounts, creation of shared resources, use of network
services, remote access, resource management and monitoring, and
security considerations. Also includes exploration and practice of 21st
century career skills: Analysis/Solution Mindset, Digital Fluency and
Adaptability. (CSU)

IT 0115. Server Systems Administration
Units: 3
Formerly known as CIS 142
Prerequisite: Completion of IT 105 with grade of "C" or better
Advisory: Completion of IT 15 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Provides knowledge and skills required to build, maintain, troubleshoot
and support Microsoft server OS technologies. Covers environmental
issues, disaster recovery, physical/software security procedures, industry
termology and concepts, server roles, specializations, and interaction
within the overall computing environment. Also includes exploration
and practice of 21st century career skills: Analysis/Solution Mindset,
Collaboration. (C-ID ITIS 155) (CSU)

IT 0120. Introduction to Information Systems Security
Units: 3
Formerly known as CIS 147
Prerequisite: Completion of IT 105 with grade of "C" or better
Advisory: Completion of IT 115 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Introduction to the fundamental principles and topics of Information
Technology Security and Risk Management at the organizational
level. Addresses hardware, software, processes, communications,
aplications, and policies and procedures with respect to organizational
Cybersecurity and Risk Management. Preparation for the CompTIA
Security+ certification exams. (C-ID ITIS 150) (CSU)

IT 0125. Routing and Switching Essentials
Units: 3
Formerly known as CIS 66
Prerequisite: Completion of IT 105 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Architecture, components, and operations of routers and switches in a
small network. Configuring a router and a switch for basic functionality.
Configure and troubleshoot routers and switches and resolve common
issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs,
and inter-VLAN routing in both IPv4 and IPv6 networks. Along with IT 105,
prepares students for the current version of the Cisco Certified Entry-level
Network Technician (CCENT) certification examination. Also includes
exploration and practice of 21st century career skills: Analysis/Solution
Mindset, Collaboration, and Adaptability. (CSU)

IT 0130. Cisco CCNA 3 Scaling Networks
Units: 3
Prerequisite: Completion of IT 125 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Scaling Networks covers the architecture, components, and operations
of routers and switches in larger and more complex networks. Students
learn how to configure routers and switches for advanced functionality.
This is the 3rd of four classes leading to the Cisco CCNA certification.
Also includes exploration and practice of 21st Century Skills: adaptability,
digital fluency, analysis/solution mindset. (CSU)

IT 0135. Cisco 4 - Connecting Networks
Units: 3
Prerequisite: Completion of IT 130 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Connecting Networks discusses the WAN technologies and network
services required by converged applications in a complex network. The
course enables students to understand the selection criteria of network
devices and WAN technologies to meet network requirements. This is
the last of four classes needed for the Cisco CCNA certification. Also
includes exploration and practice of 21st Century Skills: resilience, digital
fluency, analysis/solution mindset. (CSU)

IT 0140. Implementing Network Security and Firewalls
Units: 3
Prerequisite: Completion of IT 120 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Firewalls are one of the primary tools used to prevent unauthorized
access to corporate networks. Students will learn how to design and
configure firewalls to allow access to key services while maintaining an
organization’s security, as well as how to implement firewall-to-firewall
Virtual Private Networks (VPNs). Also includes exploration and practice
of 21st century career skills: Analysis/Solution Mindset, Collaboration,
and Adaptability. (CSU)

IT 0145. Introduction to Cybersecurity: Ethical Hacking
Units: 3
Formerly known as CIS 152
Prerequisite: Completion of IT 120 with grade of "C" or better
Advisory: Completion of CSCI 50 with grade of "C" or better
Hours: 72 (54 lecture, 18 laboratory)
Immerses IT Professionals in hands-on intensive environment providing
in-depth knowledge and experience with current essential security
systems. Provides understanding of perimeter defenses and leads to
scanning and attacking networks; no real networks are harmed. Students
learn how intruders escalate privileges and the steps to be taken to
secure a system. Also covers Intrusion Detection, Policy Creation, Social
Engineering, DDoS Attacks, Buffer Overflows, and Virtual Creation.
Focus includes legal and regulatory requirements, ethical issues, basic
methodology and technical tools used for ethical hacking and penetration
tests. Students establish a pre-test agreement with the enterprise,
discover and exploit vulnerabilities, participate as a member of a pen test
team and prepare a penetration test report. Also includes exploration and
practice of 21st century career skills: Self-Awareness and Empathy. (CSU)
IT 0150. Principles of Cybersecurity Analysis

Units: 3
Formerly known as CIS 153
Prerequisite: Completion of IT 120 with grade of "C" or better or CompTIA Security+ certification as determined by the Information Technology Department Chair
Hours: 72 (64 lecture, 18 laboratory)
Focuses on the critical knowledge and skills required to prevent, detect and combat cybersecurity threats; includes the application of behavioral analytics to improve the overall state of IT security. Covers exam objectives relating to the CompTIA Cybersecurity Analyst (CSA+) industry certification. (CSU)

IT 0155. Virtualization Concepts and Technologies

Units: 3
Formerly known as CIS 148
Advisory: Completion of IT 105 with grade of "C" or better
Hours: 72 (64 lecture, 18 laboratory)
Knowledge and skills necessary to understand and implement Virtualization Concepts. The core concepts of creating and managing virtual machines, network servers, and network design presented. Labs demonstrate benefits associated with virtualization such as fault tolerance and high availability. Successful completion of this course meets the educational requirement for VMware certification. Also includes exploration and practice of 21st century career skills: Adaptability and Analysis/Solution Mindset. (CSU)

IT 0150. Principles of Cybersecurity Analysis

Units: 3
Formerly known as CIS 153
Prerequisite: Completion of IT 120 with grade of "C" or better or CompTIA Security+ certification as determined by the Information Technology Department Chair
Hours: 72 (64 lecture, 18 laboratory)
Focuses on the critical knowledge and skills required to prevent, detect and combat cybersecurity threats; includes the application of behavioral analytics to improve the overall state of IT security. Covers exam objectives relating to the CompTIA Cybersecurity Analyst (CSA+) industry certification. (CSU)

IT 0155. Virtualization Concepts and Technologies

Units: 3
Formerly known as CIS 148
Advisory: Completion of IT 105 with grade of "C" or better
Hours: 72 (64 lecture, 18 laboratory)
Knowledge and skills necessary to understand and implement Virtualization Concepts. The core concepts of creating and managing virtual machines, network servers, and network design presented. Labs demonstrate benefits associated with virtualization such as fault tolerance and high availability. Successful completion of this course meets the educational requirement for VMware certification. Also includes exploration and practice of 21st century career skills: Adaptability and Analysis/Solution Mindset. (CSU)

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Units: 3
Formerly known as CIS 148
Advisory: Completion of IT 105 with grade of "C" or better
Hours: 72 (64 lecture, 18 laboratory)
Knowledge and skills necessary to understand and implement Virtualization Concepts. The core concepts of creating and managing virtual machines, network servers, and network design presented. Labs demonstrate benefits associated with virtualization such as fault tolerance and high availability. Successful completion of this course meets the educational requirement for VMware certification. Also includes exploration and practice of 21st century career skills: Adaptability and Analysis/Solution Mindset. (CSU)

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Focuses on the critical knowledge and skills required to prevent, detect and combat cybersecurity threats; includes the application of behavioral analytics to improve the overall state of IT security. Covers exam objectives relating to the CompTIA Cybersecurity Analyst (CSA+) industry certification. (CSU)

IT 0155. Virtualization Concepts and Technologies

Units: 3
Formerly known as CIS 148
Advisory: Completion of IT 105 with grade of "C" or better
Hours: 72 (64 lecture, 18 laboratory)
Knowledge and skills necessary to understand and implement Virtualization Concepts. The core concepts of creating and managing virtual machines, network servers, and network design presented. Labs demonstrate benefits associated with virtualization such as fault tolerance and high availability. Successful completion of this course meets the educational requirement for VMware certification. Also includes exploration and practice of 21st century career skills: Adaptability and Analysis/Solution Mindset. (CSU)

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Hours: 72 (64 lecture, 18 laboratory)
Focuses on the critical knowledge and skills required to prevent, detect and combat cybersecurity threats; includes the application of behavioral analytics to improve the overall state of IT security. Covers exam objectives relating to the CompTIA Cybersecurity Analyst (CSA+) industry certification. (CSU)

IT 0155. Virtualization Concepts and Technologies

Units: 3
Formerly known as CIS 148
Advisory: Completion of IT 105 with grade of "C" or better
Hours: 72 (64 lecture, 18 laboratory)
Knowledge and skills necessary to understand and implement Virtualization Concepts. The core concepts of creating and managing virtual machines, network servers, and network design presented. Labs demonstrate benefits associated with virtualization such as fault tolerance and high availability. Successful completion of this course meets the educational requirement for VMware certification. Also includes exploration and practice of 21st century career skills: Adaptability and Analysis/Solution Mindset. (CSU)

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Hours: 72 (64 lecture, 18 laboratory)
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IT 0155. Virtualization Concepts and Technologies

Units: 3
Formerly known as CIS 148
Advisory: Completion of IT 105 with grade of "C" or better
Hours: 72 (64 lecture, 18 laboratory)
Knowledge and skills necessary to understand and implement Virtualization Concepts. The core concepts of creating and managing virtual machines, network servers, and network design presented. Labs demonstrate benefits associated with virtualization such as fault tolerance and high availability. Successful completion of this course meets the educational requirement for VMware certification. Also includes exploration and practice of 21st century career skills: Adaptability and Analysis/Solution Mindset. (CSU)

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Units: 3
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IT 0155. Virtualization Concepts and Technologies

Units: 3
Formerly known as CIS 148
Advisory: Completion of IT 105 with grade of "C" or better
Hours: 72 (64 lecture, 18 laboratory)
Knowledge and skills necessary to understand and implement Virtualization Concepts. The core concepts of creating and managing virtual machines, network servers, and network design presented. Labs demonstrate benefits associated with virtualization such as fault tolerance and high availability. Successful completion of this course meets the educational requirement for VMware certification. Also includes exploration and practice of 21st century career skills: Adaptability and Analysis/Solution Mindset. (CSU)

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IT 0155. Virtualization Concepts and Technologies

Units: 3
Formerly known as CIS 148
Advisory: Completion of IT 105 with grade of "C" or better
Hours: 72 (64 lecture, 18 laboratory)
Knowledge and skills necessary to understand and implement Virtualization Concepts. The core concepts of creating and managing virtual machines, network servers, and network design presented. Labs demonstrate benefits associated with virtualization such as fault tolerance and high availability. Successful completion of this course meets the educational requirement for VMware certification. Also includes exploration and practice of 21st century career skills: Adaptability and Analysis/Solution Mindset. (CSU)