ALL DEGREE APPLICABLE COURSES CARRY AN ADVISORY OF ELIGIBILITY FOR ENG 001A OR ENG 001AX AND REA 054

**COMPRESS TECHNOLOGY (CIT)**

**CIT 011 INTRODUCTION TO COMPUTER HARDWARE AND SOFTWARE (A+)** 4.0 UNITS

Total Lecture: 54 hours, Total Lab: 54 hours
Advisory: MAT 903
Acceptable for credit: California State University

This course covers the fundamentals of computer hardware and software and advanced concepts such as security, networking, mobile devices such as tablets and smartphones, client side virtualization, and the responsibilities of an IT professional. It helps students prepare for entry-level career opportunities in ICT and the CompTIA A+ certification. It also provides a learning pathway to Cisco CCNA. Hands-on lab activities are an essential element of the course. The Virtual Laptop and Virtual Desktop are stand-alone tools designed to supplement classroom learning and provide an interactive "hands-on" experience in learning environments with limited physical equipment. The use of Packet Tracer supports alignment with the new CompTIA A+ certification objectives. This course may also be offered via distance learning. Pass/No Pass Option.

**CIT 012 INTRODUCTION TO NETWORKING (NETWORK+)** 4.0 UNITS

Total Lecture: 54 hours, Total Lab: 54 hours
Acceptable for credit: California State University

This course introduces the fundamental building blocks that form the modern network, such as protocols, media, topologies and hardware. It then provides in-depth coverage of the most important concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, virtual networks, security and troubleshooting. This course helps students prepare for entry-level career opportunities in ICT and the CompTIA Network+ certification. It also provides a learning pathway to Cisco CCNA. This course may also be offered via distance learning. Pass/No Pass Option.

**CIT 016 CYBERSECURITY AND ETHICAL HACKING** 4.0 UNITS

Total Lecture: 54 hours, Total Lab: 54 hours
Acceptable for credit: California State University

This course is an introduction to IT security and ethical hacking using the latest operating systems, security techniques, and wireless standards. It also covers the fundamentals of system security, network infrastructure, access control, assessments and audits, cryptography, and organizational security. Students gain hands-on experience with various ethical hacking methods and techniques. This course may also be offered via distance learning. Pass/No Pass Option.

**CIT 021 INTRODUCTION TO CISCO NETWORKS (CISCO-1)** 4.0 UNITS

Total Lecture: 54 hours, Total Lab: 54 hours
Acceptable for credit: California State University

This course is the first of four courses leading to the Cisco Certified Network Associate Routing and Switching (CCNA Routing and Switching) designation. This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI and TCP/IP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing in IPv4 and IPv6 environments, and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Labs use a "model Internet" to allow students to analyze real data without affecting production networks. Packet Tracer (PT) activities help students analyze protocol and network operation and build small networks in a simulated environment. At the end of the course, students build simple LAN Topologies by applying basic principles of cabling, performing basic configurations of network devices, including routers and switches, and implementing IP addressing schemes. This course may also be offered via distance learning. This course is approved for credit by exam. Pass/No Pass Option.

**CIT 022 ROUTING AND SWITCHING ESSENTIALS (CISCO-2)** 4.0 UNITS

Total Lecture: 54 hours, Total Lab: 54 hours
Prerequisite: CIT 021
Acceptable for credit: California State University

This course is the second of four courses leading to the Cisco Certified Network Associate Routing and Switching (CCNA Routing and Switching) designation. It describes the architecture, components, and operations of routers and switches in small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students are able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Students participate in procedural labs, and then present basic configuration, implementation, and troubleshooting. Packet Tracer (PT) activities reinforce new concepts and allow students to model and analyze routing processes that may be difficult to visualize or understand. This course may be offered via distance learning. This course is approved for credit by exam. Pass/No Pass Option.

**CIT 023 SCALING NETWORKS (CISCO-3)** 4.0 UNITS

Total Lecture: 54 hours, Total Lab: 54 hours
Prerequisite: CIT 022
Acceptable for credit: California State University

This course is the third of four courses leading to the Cisco Certified Network Associate Routing and Switching (CCNA Routing and Switching) designation. It describes the architecture, components, and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students are able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. Students also develop the knowledge and skills necessary to implement a WLAN in a small-to-medium network. This course may be offered via distance learning. This course is approved for credit by exam. Pass/No Pass Option.

**CIT 024 CONNECTING NETWORKS (CISCO-4)** 4.0 UNITS

Total Lecture: 54 hours, Total Lab: 54 hours
Prerequisite: CIT 023
Acceptable for credit: California State University

This course is the fourth of four courses leading to the CCNA Routing and Switching designation. This course discusses the WAN technologies and network services required by converged applications in Enterprise networks. The course uses the Cisco Network Architecture to introduce integrated network services and explains how to select the appropriate devices and technologies to meet network requirements. Students learn how to implement and configure common data link protocols. Students also develop the knowledge and skills needed to implement IPSec and virtual private network (VPN) operations in a complex network. This course may be offered via distance learning. This course is approved for credit by exam. Pass/No Pass Option.

**CIT 078 MICROSOFT SERVER ESSENTIALS** 4.0 UNITS

Total Lecture: 54 hours, Total Lab: 54 hours
Advisory: CIT 011
Acceptable for credit: California State University

This course focuses primarily on the installation, storage, “compute features and functionality” and the “networking features and functionality” available in Windows Server 2016. It covers general installation tasks and considerations and the installation and configuration of Nano Server, in addition to the creation and management of images for deployment. It also covers local and server...
storage solutions, including the configuration of disks and volumes, Data Deduplication, High Availability, Disaster Recovery, Storage Spaces Direct, and Failover Clustering solutions. The course also covers Hyper-V and containers, along with the maintenance and monitoring of servers in physical and compute environments, DNS, DHCP, and IPAM implementations, in addition to remote access solutions, such as VPN and Direct Access. It also covers DFS and BranchCache solutions, high performance network features and functionality, and implementation of software-defined networking (SDN) solutions, such as Hyper-V Network Virtualization (HNV) and Network Controller. This course may be offered via distance learning. Pass/No Pass Option. C-ID # ITIS 155.

TICKET: COURSES

COU 000A ORIENTATION TO MISSION COLLEGE 0.5 UNIT
Total Lecture: 9 hours
This course provides new students with basic information needed to attend college. It includes an orientation to Mission College programs and services, assessment information, registration procedures, an overview of general education requirements, and educational planning. This course may be offered via distance learning. Pass/No Pass Only.

COU 005 STRATEGIES FOR SUCCESS 3.0 UNITS
Total Lecture: 54 hours
Acceptable for credit: University of California, California State University
This is a comprehensive course that integrates critical and creative thinking proficiency, personal growth and values, and academic study strategies. This survey course includes a study of the following topics: role of education in life, college systems, effective learning strategies, academic survival, career information, awareness of personal development and techniques of interpersonal communication. Emphasis is on the attainment of lifelong success in academic, professional and personal development. This course may be offered via distance learning. Pass/No Pass Option. CSUGE: E.

COU 007 UNIVERSITY TRANSFER PLANNING 1.0 UNIT
Total Lecture: 18 hours
Acceptable for credit: University of California, California State University
This course provides in-depth information and assistance with the transfer process to four-year colleges/universities. It is designed to enable students to actively participate in planning their educational and career goals by providing information about the process and requirements for transferring from a community college to a university. Lower division major and general education requirements, college/university selection, admission procedures, application deadlines, financial aid and scholarship information are covered. Use of college catalogs, printed directories and the Internet are necessary to complete assignments. This course may also be offered via distance learning. Pass/No Pass Option.

COU 007H UNIVERSITY TRANSFER PLANNING-HONORS 1.0 UNIT
Total Lecture: 18 hours
Acceptable for credit: University of California, California State University
This honors course provides in-depth information and assistance with the transfer process to four-year colleges/universities. Lower division major and general education requirements, college/university selection, admission procedures, statewide transfer policies, application deadlines, financial aid and scholarship information are covered. Students have the opportunity to broaden their perspectives by examining the changes in the education policies and regulations that impact society and may influence their transfer planning and admission to a university. Use of college catalogs, printed directories and the Internet are necessary to complete assignments. Students cannot get credit for both COU 007 and COU 007H. Enrollment in the Honors Transfer Project is required. This course may also be offered via distance learning. Pass/No Pass Option.

COU 012 CAREERS AND LIFESTYLES 3.0 UNITS
Total Lecture: 54 hours
Acceptable for credit: California State University
This course assists the student in examining the components of career choice. The focus is on career, personal and educational awareness as they relate to the process of career choice and major selection. Students identify personal interests, values, abilities and skills and use self-assessment instruments to help them identify career options. Lifestyles and personal satisfaction are discussed as related to the world of work. Decision making strategies, resume writing, interviewing skills and job search techniques are reviewed. Materials fee required. This course may also be offered via distance learning. Pass/No Pass Option.

COU 012A CAREERS AND LIFESTYLES 1.0 UNIT
Total Lecture: 18 hours
Acceptable for credit: California State University
This course assists students in exploring individual interests through the use of a variety of career assessments. The focus is on career, personal and educational awareness as they relate to the process of career choice and major selection. Students identify personal interests, values, abilities and skills and use self-assessment instruments to help them identify career options. Materials fee required. This course may be offered via distance learning. Pass/No Pass Option.

COU 012C CAREERS AND LIFESTYLES 1.0 UNIT
Total Lecture: 18 hours
This course assists students in the area of job search skills. Students learn to market themselves using resume writing and interview skills, and to identify different types of skills and how they relate to job requirements. Occupational trends are examined. This course may also be offered via distance learning. This course may be offered via distance learning. Pass/No Pass Option.

COU 017 TRANSFER SUCCESS AND LIFE TRANSITIONS 3.0 UNITS
Total Lecture: 54 hours
Acceptable for credit: University of California, California State University
Through the context of transferring from a community college to a university, this course introduces students to appropriate life skills that can help them achieve greater success in their educational, personal, and professional lives. The course is designed specifically for students interested in successfully navigating the process of transferring to a college or university. Topics include: self-awareness; goal setting; motivation; learning styles; critical thinking; decision making; degree options; university systems and transfer programs; education planning; time management and procrastination; money management and financial aid; effective communication; unique transitional considerations for transfer students; and maintaining a healthy lifestyle. Pass/No Pass Option. CSUGE: E.

COU 023 BECOMING A MASTER STUDENT-ATHLETE 2.0 UNITS
Total Lecture: 36 hours
Acceptable for credit: California State University
In this course, student-athletes learn tools for success to be applied in the classroom and in their sport. This survey course includes a study of the following topics: the role of education in life, college systems, learning strategies, academic survival, career information, and awareness of personal development and techniques of interpersonal communication. In addition, students learn how to balance academics and athletics, and how to prepare for a bright future. Pass/No Pass Option.