

## Information & Communications Technology model curriculum

### Required core courses:

**ITIS 110 - Information & Communications Technology Essentials**

**ITIS 120 - Business Information Systems, Computer Information Systems**

**ITIS 130 or COMP 112 - Introduction to Programming Concepts and Methodologies**

**ITIS 150 - Computer Network Fundamentals**

### Select two courses from the following:

ITIS 140 - Introduction to Systems Analysis and Design

ITIS 151 - Routing and Switching Essentials

**ITIS 155 - Systems and Network Administration**

**ITIS 160 - Introduction to Information Systems Security**

ITIS 164 - Introduction to Cybersecurity: Ethical Hacking

ITIS 165 - Digital Forensics Fundamentals

ITIS 180 - Introduction to Database Management

BUS 115 - Business Communication

### Select one course from the following:

**MATH 110 - Introduction to Statistics**

**MATH 130 - Finite Mathematics**

**MATH 192 - Methods of Calculus**

**MATH 211 - Basic Concepts of Calculus**

ICT courses in bold required for model curriculum and/or recommended for transferability to CSUSB's bachelor of science degree program.

## Maps to CAE2Y knowledge units (KUs)

Basic Data Analysis

Basic Scripting

Cyber Defense

Cyber Threats

Fundamental Security Design Principles

Information Assurance Fundamentals

Introduction to Cryptography

Information Technology System Components

Networking Concepts

Policy, Legal, Ethics and Compliance

Systems Administration

## Transfers to CSUSB B.S. degree in Information Systems and Technology as...

### Required core courses:

IST 101 - Introduction to Information Technology

IST 282 - Business Systems I

IST 275 - Information Networking and Security

### Select two courses from the following:

IST 276 - Systems Analysis and Design

IST 215 - Cyber Security

IST 274 - Data Base Management and Policies

### Select one course from the following:

MATH 110 - College Alegbra

MATH 120 - Pre-Calculus Mathematics

MATH 140 - Business Calculus

MATH 210 - Single Variable Calculus I Early Transcendentals

Talk with an advisor at CSUSB about additional requirements to complete the B.S. in IST.

