

Summary of Knowledge Areas from CC2020

Elements of Computing Knowledge | Integrated Areas of Computing Knowledge

- **K(C-1.1)** Social Issues and Professional Practice
- **K(C-1.2)** Security Policy and Management
- **K(C-1.3)** Information Systems Management and Leadership

1. Users and Organizations

- **K(C-1.4)** Enterprise Architecture
- **K(C-1.5)** Project Management

2. System Modeling

- **K(C-1.6)** User Experience Design
- **K(C-2.1)** Security Issues and Principles
- **K(C-2.2)** System Analysis and Design
- **K(C-2.3)** Requirements Analysis and Specification
- **K(C-2.4)** Data and Information Management

3. Systems Architecture and Infrastructure

- **K(C-3.1)** Virtual Systems and Services
- **K(C-3.2)** Intelligent Systems (AI)
- **K(C-3.3)** Internet of Things
- **K(C-3.4)** Parallel and Distributed Computing
- **K(C-3.5)** Computer Networks
- **K(C-3.6)** Embedded Systems
- **K(C-3.7)** Integrated Systems Technology
- **K(C-3.8)** Platform Technologies

4. Software Development

- **K(C-3.9)** Security Technology and Implementation
- **K(C-4.1)** Software Quality, Verification, and Validation
- **K(C-4.2)** Software Process

- **K(C-4.3)** Software Modeling and Analysis
- **K(C-4.4)** Software Design
- **K(C-4.5)** Platform-Based Development

5. Software Fundamentals

- **K(C-5.1)** Graphics and Visualization
- **K(C-5.2)** Operating Systems
- **K(C-5.3)** Data Structures, Algorithms, and Complexity
- **K(C-5.4)** Programming Languages
- **K(C-5.5)** Programming Fundamentals

6. Hardware

- **K(C-5.6)** Fundamentals of Computer Systems
- **K(C-6.1)** Architecture and Organization
- **K(C-6.2)** Digital Design
- **K(C-6.3)** Circuits and Electronics
- **K(C-6.4)** Signal Processing