

# Idaho PTE Business Education Course w/Essential Learning Outcomes

Course Title

COMPUTER DESIGN & NETWORKING

SDPTE Course ID

BE 0280

IBED

IBED 10252

A course designed to examine computer design, assembly, and maintenance, as well as develop foundational computer networking competencies; to include a study of appropriate procedures for working with hubs, switches, and routers. Students will learn associated workplace skills including inventory tracking, scheduling, component research and acquisition, and related business procedures.

Term

Preq

BE 0270

Notes:

## **Business Law BLaw\_7: Demonstrate Knowledge of Computer Law**

BLaw\_7.1 Explain how the advances in computer technology impact upon such areas as property law, contract law, criminal law, and international law.

## **Career Development CDev\_3: Demonstrate Knowledge of Workplace Expectations**

CDev\_3.2 Relate workplace relationships to career development.

CDev\_3.3 Relate workplace diversity to career development.

CDev\_3.4 Relate workplace communication skills to career development.

CDev\_3.5 Maintain safe and healthy environment.

## **Communications Comm\_3: Demonstrate Knowledge of Technological Communications**

Comm\_3.1 Use technology to enhance the effectiveness of communications.

## **Communications Comm\_5: Demonstrate Knowledge of Organizational Communications**

Comm\_5.2 Incorporate appropriate standards of personal ethics to communicate effectively with various business constituencies.

Comm\_5.4 Incorporate appropriate supervision techniques to communicate effectively with various business constituencies.

## **Computation Comp\_6: Demonstrate Knowledge of Problem-Solving Applications**

Comp\_6.9 Use mathematical procedures to analyze and solve business problems for inventory records.

## **Entrepreneurship Entr\_1: Demonstrate Knowledge of Entrepreneurship Characteristics**

Entr\_1.4 Apply the steps in the problem-solving process to solve actual and potential business problems.

## **Entrepreneurship Entr\_5: Demonstrate Knowledge of Accounting**

Entr\_5.1 Explain why it is important to keep appropriate records to make business decisions.

## **Information Systems IS\_1: Demonstrate Knowledge of the Foundations of Information Systems**

IS\_1.1 Identify and use various input technologies that include keyboarding, voice recognition, handwriting recognition, optical character recognition, and other forms of emerging input technologies.

IS\_1.2 Demonstrate a knowledge of computers and the ability to use them.

IS\_1.3 Identify the need for applications of technology in business, industry, society and on a global scale.

## **Information Systems IS\_3: Demonstrate Knowledge of Common Applications of Information Systems**

IS\_3.2 Install, upgrade, and customize application software.

## **Information Systems IS\_5: Demonstrate Knowledge of Communications Systems and Networking**

IS\_5.1 Use, select, and evaluate communications and networking systems software and hardware to include hubs, switches and routers.

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IS\_5.2 Design, implement, and repair communications and networking systems using cable, fiber optics and/or wireless communications.

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## ***Information Systems IS\_7: Demonstrate Knowledge of Information Systems Ethical Issues***

IS\_7.1 Establish and use a personal code of ethics for information systems use and management.

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## ***Information Systems IS\_9: Demonstrate Knowledge of Computer Architecture***

IS\_9.1 Describe current and emerging computer architecture; configure, install, and upgrade hardware systems; and diagnose and repair hardware problems.

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## ***Information Systems IS\_10: Demonstrate Knowledge of Operating Systems, Environments, and Utilities***

IS\_10.1 Identify, select, evaluate, use, install, upgrade, customize, diagnose and solve problems with various types of operating systems, environments, and utilities.

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## ***Information Systems IS\_11: Demonstrate Knowledge of Information Systems Planning, Acquisition, Analysis and Design***

IS\_11.1 Plan the selection and acquisition of information systems; analyze and design information systems using appropriate development tools.

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## ***Information Systems IS\_12: Demonstrate Knowledge of Programming***

IS\_12.1 Demonstrate knowledge of computer history.

IS\_12.2 Demonstrate ability to create a simple computer program.

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## ***Information Systems IS\_13: Demonstrate Knowledge of Communications Systems and Networking***

IS\_13.1 Design and implement security plans and procedures for information systems.

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## ***Information Systems IS\_14: Demonstrate Knowledge of Information Systems Careers***

IS\_14.1 Describe positions and career paths in information systems.

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## ***Management Mgmt\_1: Demonstrate Knowledge of Functions of Management***

Mgmt\_1.1 Illustrate how the planning function is implemented and explain why it is important.

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## ***Management Mgmt\_11: Demonstrate Knowledge of Operations Management***

Mgmt\_11.1 Apply generally accepted operations management principles and procedures to design a product and schedule its production.

Mgmt\_11.3 Apply generally accepted operations management principles and procedures to managing inventory.

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