

# Idaho PTE Business Education Course w/Essential Learning Outcomes

Course Title	ADVANCED NETWORKING		
SDPTE Course ID	BE 0290	IBED	IBED 10252

A course designed for students to develop skills and competencies for the installation and maintenance of computer equipment in the district, community and industry using cable, fiber optics, and wireless communication. Students will connect users to computer systems, keep documentation on network performance and install upgrades when necessary. A personal code of ethics for information use and management will be established.

Term		Preq	BE 0280
------	--	------	---------

Notes:

---

## **Business Law BLaw\_1: Demonstrate Knowledge of Basics of the Law**

BLaw\_1.1 Analyze the relationship between ethics and the law.

---

## **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.

---

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

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

---

## **International Business IntB\_3: Demonstrate Knowledge of International Business Communications**

IntB\_3.3 Apply technology to communication in a necessary and appropriate manner for effective and profitable international business relations.

---

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

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\_2: Demonstrate Knowledge of Industry Standard Software Applications**

IS\_2.1 Select and apply word processing software.

IS\_2.2 Select and apply spreadsheet software.

---

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

IS\_3.1 Identify, select, evaluate, and use application software.

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

IS\_3.3 Diagnose and solve problems occurring from an application software's installation and use.

---

## **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.

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

---

## **Information Systems IS\_6: Demonstrate Knowledge of Adaptations for Students with Special Needs**

IS\_6.2 Select and apply information systems across the curriculum.

---

## **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.

---

## **Information Systems IS\_8: Demonstrate Knowledge of the Social and Economic Impact of Information Systems**

# Idaho PTE Business Education Course w/Essential Learning Outcomes

Course Title	ADVANCED NETWORKING		
SDPTE Course ID	BE 0290	IBED	IBED 10252

---

IS\_8.1 Demonstrate a knowledge of the social and economic impact of information systems.

---

## **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.

---

## **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.

---

## **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.

---

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

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

---

## **Information Systems IS\_16: Demonstrate Knowledge of Database SQL Programming**

IS\_16.14 Explain Basic Database Systems and the need for Database Security.

---

## **Information Systems IS\_17: Demonstrate Knowledge of Advanced Concepts of Database PL/SQL Programming**

IS\_17.29 Demonstrate ability to create Procedures.

---

## **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.

---

## **Management Mgmt\_7: Demonstrate Knowledge of General Management skills**

Mgmt\_7.2 Describe and use technology as it relates to the management process.

Mgmt\_7.3 Develop and use networking skills.

---