

## ITCT-113 A+ HARDWARE 3 CREDITS

### SYLLABUS

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#### CATALOG DESCRIPTION

Introduction to installing, configuring, maintaining, upgrading, diagnosing, troubleshooting, and networking of recent and current personal computer hardware. May be preparation for an industry certification exam.

Prerequisites: ITCT 114

Semester Offered: On Demand

#### *COMMON STUDENT LEARNING OUTCOMES*

*Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...*

##### BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

##### CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

##### CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

##### EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

##### INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

##### INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

#### COURSE LEARNING OUTCOMES

*Upon successful completion of the course, the student will be able to...*

- I. Describe how hardware components function together to make a computer work.
- II. Describe how software interacts with hardware.
- III. List several ways to protect hardware and software.
- IV. Advise a user on upgrading their PC.

- V. Describe the boot process.
- VI. Isolate computer problems using varied analytic and creative approaches.
- VII. Identify PC hardware components and assemble and disassemble PCs.
- VIII. Install hardware components, upgrades and peripheral devices.
- IX. Work successfully in a group environment.