COSC 111—COMPUTER LITERACY 3 CREDITS
SYLLABUS

CATALOG DESCRIPTION

The evolution of computers, their application and their economic and social implications including a brief introduction to programming and computer literacy with a non-technical emphasis. For non-computing majors.

Prerequisites: Completion of MATH-050, ENGL-095, and RDNG-050 **OR** appropriate Accuplacer scores in Math, English, and Reading.

Semester Offered: Fall, Spring, and Summer.

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 basic information technology terminology.
II.   Identify and use hardware components of IT systems.
III.   Describe and apply concepts of file management.
IV.   Describe the basic concepts of application and operating systems software.
V.   Describe and use IT systems for communications (e.g., word processing, presentation software, email, etc.).
VI.   Describe the concepts of information management, databases, and database management systems.
VII.   Describe the social impact of and ethical issues in information technology.
VIII.   Identify and explain important ethical, security, and privacy issues in information systems.
IX.   Create and use spreadsheets and databases.

Specific Learning Outcomes

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

1. Recognize why computer literacy is important.
2. Explain what a computer is and how it processes data.
3. Recognize the general components of computer systems.
4. Discuss how the Internet works.
5. Identify different ways to access the Internet.
6. Know how to search for information on the Web.
7. Realize the difference between system software and application software.
8. Differentiate among the various categories of software.
9. Describe the formats and methods used for computer input and output.
10. Compare and contrast various personal computer processors on the market.
11. Identify ergonomic issues and health related disorders that affect computer users.
12. Specify the organization and access methods used for secondary data storage.
13. Describe the different types of storage devices.
14. Understand the startup process for a personal computer.
15. Explain the various types of security risks that can threaten computers.
16. Recognize the various types of communication technologies.
17. Discuss the commercial applications of computers.
18. Differentiate between different types of network systems.
19. Address contemporary trends and issues in the computer industry.
20. Discuss how e-commerce has changed the way we do business.
21. Operate a personal computer and use productivity software.
22. Discuss issues surrounding information privacy.

In order to challenge this course, the student must successfully pass a comprehensive exam covering the course-related material.