

CUYAMACA COLLEGE
COURSE OUTLINE OF RECORD

COMPUTER AND INFORMATION SCIENCE 105 – INTRODUCTION TO COMPUTING

2 hours lecture, 2 units

Catalog Description

Introductory computing course for those desiring beginning computer knowledge and skills. Includes an overview of a typical personal computer system including input and output devices, the processor, and storage devices. Emphasis is on those skills and knowledge needed to use a home or small business computer.

Prerequisite

None

Course Content

- 1) Introduction information technology, its functions and its uses
- 2) Introduction to computer and network related hardware and its functions
- 3) Introduction to computer, server and cloud related software
- 4) Introduction to computer privacy, security and ethics
- 5) Introduction to information systems and their uses

Course Objectives

Students will be able to:

- 1) Identify and describe the purpose of common computer components, input devices, output devices, and storage units.
- 2) Identify and describe the differences and functions of applications and system software.
- 3) Identify and describe the purpose of common computer networking components and network storage devices.
- 4) Identify and discuss computer privacy, security and ethical issues.
- 5) Define the components of an information system.

Method of Evaluation

A grading system will be established by the instructor and implemented uniformly. Grades will be based on demonstrated proficiency in subject matter determined by multiple measurements for evaluation, one of which must be essay exams, skills demonstration or, where appropriate, the symbol system.

- 1) Quizzes, exams and critical discussions that measure students' ability to identify computer hardware and operating systems components and terminology and to explain computer concepts and applications.

Special Materials Required of Student

- 1) Access to web-based course material

Minimum Instructional Facilities

Classroom, operating systems software, web browser.

Method of Instruction

- 1) Lecture and demonstration
- 2) Assignments
- 3) Small and large group discussion
- 4) In-class activities and independent homework/internet research projects
- 5) Study groups, peer tutoring, office hours

Out-of-Class Assignments

- 1) Read textbook and assignment instructions
- 2) Complete assignments and quizzes
- 3) Review online resources

Texts and References

- 1) Required (representative example): Vermaat. *Discovering Computers 2016 (Shelly Cashman), 1st edition*. Course Technology, 2015.
- 2) Supplemental: None

Student Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1) Complete a comprehensive exam covering the technical, theoretical and practical aspects computer concepts, including:
 - a. Application software
 - b. System software
 - c. Computer Hardware
 - d. Computer input and output
 - e. Computer secondary storage
 - f. Computer networking and communications
 - g. Computer privacy, security and ethics