

College of San Mateo

Introduction to Computer and Information Science

CIS 110, Summer 2017, Section AB, CRN 50574

Instructor: Bryce Martens
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Office: Building 19, Room 123
Office hours: By appointment. The best time is right after class MTWTh.

Web site: **accounts.smccd.edu/martens/cis110**

Class time: Monday, Tuesday, Wednesday, Thursday
8:10 to 9:35 a.m.
Monday, June 12 to Thursday, August 3

Description: Introduction to computer and information science. Includes:

- computer terminology
- computer hardware and software
- networks, telecommunications, and Internet access and security issues
- common operating systems
- data representation
- computer ethics
- beginning programming in Visual Basic and/or HTML (and more)
- introduction to research processes and methods through online tools and sources
- Covers topics motivated by current issues and events. Examines such issues as privacy, intellectual property, cloud computing, and copyright infringement.

Book: **Computer Concepts 2016, Introductory** – June Jamrich Parsons
Course Technology/Cengage Learning
ISBN: 978-1-305-38775-1

Grading: 3 exams (250 points each).....750 points
10 projects (25 points each)250 points
Total1000 points

Letter grades will be assigned as follows:

A	906-1000	C	706-794
A-	900-905	C-	700-705
B+	895-899	D+	695-699
B	806-894	D	606-694
B-	800-805	D-	600-605
C+	795-799	F	less than 600

Attendance: Attendance requirements are in accordance with the College of San Mateo attendance policy. See the following web page for details:

<http://collegeofsanmateo.edu/academicpolicies/attendanceregulations.asp>

Any missed exam will count for zero points. If you must miss an exam due to extenuating circumstances, you must make arrangements with the instructor **ahead of time** to take the exam early.

Classroom
decorum:

Out of respect for the instructor and the other students, the use of cell phones during class time is prohibited. This includes making or receiving phone calls, texting, accessing the web, etc. Likewise, the use of laptops, tablets, or other computing devices during class time is limited to note taking only. **Students violating these policies will lose 25 points per occurrence.**

Exams:

Exams will consist of objective questions (i.e., definitions, fill-in-the-blank, multiple choice, true-false, short answer), problems like the assignments, and essay questions. **Exams will be closed book, closed notes.**

Projects:

There are 10 projects. The project descriptions are located on the class web site. The due dates are shown on the daily schedule on the class web site. **Late projects are not accepted.**

Every course at the College of San Mateo has numerous Student Learning Outcomes. Here are the ones for CIS 110.

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

- Articulate a general understanding of computers and digital basics
- Differentiate between basic concepts of computer hardware and software
- Demonstrate use of the operating system to effectively organize and maintain computer files
- Select equipment and processes for building a wired or wireless network
- Demonstrate effective use of the Internet and World Wide Web
- Recognize, create, and manipulate digital media
- Demonstrate ability to use and evaluate Internet tools for research

Schedule Overview

(This an overview only, See the class web site for detailed information, reading assignments, and project due dates.)

Introduction to computer information systems

Computer and digital basics

Digital media

Digital devices

Data communications, networks, and the Internet

Exam 1

Web technology

Social media

Introduction to data manipulation

Computer software, operating systems, and file management

Database management systems

Digital security

Exam 2

Overview of computer programming

Survey of computer languages

Visual programming

Programming for Internet-based applications

Introduction to systems design

Exam 3

Trending topics

Here are some of the trending topics that will be discussed in class or in the reading assignments:

- Information Technology (IT)
- Cloud computing
- Data science
- Internet of Things (IoT)
- Cyber-security
- Big Data
- Artificial Intelligence (AI)
- Virtual Reality (VR)
- Augmented Reality (AR)
- Autonomous vehicles
- 3D printing

Title IX information

The San Mateo County Community College District is committed to maintaining safe and caring college environments at Cañada College, College of San Mateo and Skyline College. The District has established policies and procedures regarding Sexual Misconduct, Harassment, and Assault. A District website has also been developed which provides you with important information about sexual misconduct and sexual assault. <http://smccd.edu/titleix/>

To learn more about these issues and how you can help prevent them, you are encouraged to view the “Not Anymore” videos, which can be found on WebSMART under the Student Services link. Click on [Not Anymore Video](#).