

Course Syllabus

Instructor Contact

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Email Policy: The best way to reach me is via email. I will answer email at least once every 24 - 48 hours.

You can also text me at 707-494-8696. Since you are not in my phone as a contact, start the text with CS5 and your name.

Class Meetings

This class is taught online.

Instructor office Hours

TBA

Course Description

Designed for the transfer student and/or the person wanting a broad knowledge of computer concepts. No previous experience with computers is required or assumed. This course presents an overview of computers in our world today, how they work, how they are used and their impact on society. Students will be introduced to the Internet and World Wide Web, basic programming concepts and productivity software including word processing, spreadsheet, presentation and database software.

CS 5 offers a broad overview of computer history, functionality, use, social impact and the future of computing. This course is mostly about concepts and theory but hands-on practice will be required to complete tests and class assignments.

The lab work offers limited experience with operating systems, word processing, Internet/World Wide Web access, Web page creation, email, spreadsheet, database, graphics, presentation software, programming, and document integration.

Lab exercises are demonstrated on PC using Windows 7, various tutorial programs, and Office Applications. Students are welcome to use PC, Mac or LINUX.

Recommended Prerequisites:

Basic understanding of how to use a computer (PC or Mac)

Example: Web, email, word processing (basic level)

Because of the reading required, eligibility for **English 100A or equivalent** reading level is recommended. If you are not sure what your reading level is, contact the Assessment Office <http://www.santarosa.edu/app/placement/>

Note: CS 5 is a 3-unit course taught in an accelerated format for Summer semester.

Student Learning Outcomes

Students will be able to:

1. Recognize the capabilities and limitations of computer technology, and the theoretical foundations of computing.
2. Critically assess the social and ethical implications of computer technology in their daily life.
3. Improve problem solving and critical thinking through the application of scientific knowledge using hands-on activities.

Objectives

Upon completion of the course, students will be able to:

1. Identify the components and function of the hardware used in a computer system.
2. Describe the function of system software.
3. Describe the function of application software.
4. List the steps in systems analysis and design.
5. Describe the popular programming languages and the process of developing computer software.
6. Create a simple computer program.
7. Analyze the impact of computer technology and its ethical implication on society.
8. Demonstrate basic proficiency of productivity software, including word processing, spreadsheet, presentation, database and multimedia software.
9. Demonstrate proficiency in electronic communications technology.
10. Explain basic computer networking concepts and architecture.
11. Use the Internet and World Wide Web to perform research.
12. Create a basic Web page.
13. Demonstrate proficiency in social networking.
14. Discuss computer security and its importance for business and personal use of computers.

Topics and Scope:

1. Computer Literacy as a Necessary Skill in the 21st Century
 - a. Becoming a Savvy Computer User and Consumer
 - b. Computers in Today's Careers
 - c. Understanding the Challenges Facing a Digital Society
2. The History of Computer Technology
3. Computer Hardware
 - a. Input Devices
 - b. Processing (System Unit)
 - i. Central Processing Unit
 - ii. The Machine Cycle
 - iii. Random Access Memory

- c. Output Devices
- d. Storage Devices
- 4. Using the Internet and World Wide Web
 - a. Communicating Through the Internet: E-Mail and Other Technologies
 - b. Social Networking
 - c. Web Entertainment: Multimedia and Beyond
 - d. Conducting Business over the Internet: E-Commerce
 - e. Managing Malware and Online Annoyances
 - f. Accessing the Web: Web Browsers
 - g. Searching the Web: Search Engines
 - h. The Internet and How It Works
 - i. The Cloud
 - j. The Future of the Internet
- 5. Information Technology Ethics
- 6. Application Software
 - a. Word-Processing Software
 - b. Spreadsheet Software
 - c. Presentation Software
 - d. Database Software
 - e. Graphics and Multimedia Software
 - f. Web Design Software
- 7. System Software
 - a. Operating Systems
 - b. Utility Programs
 - c. File Management
- 8. Computer Networking
 - a. Networking Fundamentals
 - b. Network Architectures
 - c. Network Components
 - d. Wireless Networks

e. Personal Area Networks

9. Computer Security

a. Computer Threats (Hackers, Viruses)

b. Computer Safeguards (Antivirus Software and Other Security Measures)

10. Mobile Computing

a. Mobile Computing Devices

b. Portable Media Players

c. Smartphones and mobile devices

d. Notebooks

11. Software Programming

a. The Binary Numbering System

b. Low Level Programming Languages

c. High Level Programming Languages

12. Databases and Information Systems

a. Database Types

b. Data Mining and Data Warehouses

c. The Systems Development Lifecycle

d. Systems Analysis

Course Web site

Students will use the Canvas course web site for assignment instructions, submitting assignments, viewing classmates' work, sharing resources, and viewing grades.

Textbook

The textbook is required.

- **Technology In Action, Complete Evans, Martin, Poatsy (12th edition)**

Evans, Martin, Poatsy

ISBN-10: 0133802965 • ISBN-13: 9780133802962

Prentice Hall Published 03/18/2014

You can locate and order textbooks online:

[SRJC bookstore \(Links to an external site.\)](#)

[eCampus \(Links to an external site.\)](#)

[Chegg e-texts \(Links to an external site.\)](#)
[Amazon marketplace \(Links to an external site.\)](#)
[Barnes and Noble \(Links to an external site.\)](#)

Materials and Supplies

You will need:

- 1 USB Flash Drive
- Binder for CS 5 notes and handouts
- Although not required, it is helpful for CS 5 students to own a PC or Mac computer with Microsoft Office.
- Here is a link to a super deal on Microsoft Office from the Foundation for California Community Colleges: [CollegeBuys \(Links to an external site.\)](#)

Important Dates

Date Class Begins:	6/19/2017
Last Day Add w/o add code:	6/19/2017
Last Day Drop for Refund:	6/19/2017
Last Day Drop w/o W:	6/26/2017
Date Class Ends:	8/13/2017
Last Day Add with add code:	6/26/2017
Last Day for P/NP option:	7/3/2017
Last Day Drop with W:	7/30/2017
Date Final Project Due:	8/13/2017
Date Midterm Roster:	

Dropping the Class

If you decide to discontinue this course, it is your responsibility to officially drop it.
If you feel you must quit the class, please talk with me first. Together we may find a way for you to

complete the course successfully. If you quit without officially dropping, you are still graded on all the remaining work, usually resulting in an “F” grade. Please drop if you do not wish to continue. <https://www.santarosa.edu/app/admissions/>

Attendance

I expect you to regularly (i.e. at least once a week) interact with the class assignments via Canvas.

Pass-NoPass (P/NP)

You may take this class P/NP. You must decide before the deadline, and add the option online with TLC or file the P/NP form with Admissions and Records. With a grade of C or better, you will get P.

You must file for the P/NP option by July 3, 2017. Once you decide to go for P/NP, you cannot change back to a letter grade. If you are taking this course as part of a certificate program, you can probably still take the class P/NP. Check with a counselor to be sure.

Instructor Announcements and Q&A Forum

The instructor will post announcements on the “Instructor Announcements” page in Canvas throughout the semester. Canvas notifies students according to their preferred Notification Preferences.

Late Policy

All assignments are due at midnight PST on the due date. A late submission will receive a 20% penalty. Submissions more than one week late are not accepted without prior arrangement.

Labs and Projects

Lab exercises:

The purpose of lab exercises is to add to your understanding of the course content and the Office Applications (Word Processing, Spreadsheet, Presentation and Database), not just give you directions to follow. You may need to do some exercises more than once to get a better understanding of what you are doing.

Lab exercises will be graded on how thorough and accurate you are, and how well you communicate what you have learned.

Projects:

In addition to lab exercises, three projects will be assigned. Projects allow you to apply the knowledge, skills, and abilities acquired. You will work in teams on some, on others you will work on your own. Your work on team projects will be graded based on your self evaluation, and my observations of your participation. Projects include completing the assigned activity as well as preparing a report or presentation. Details about each project will be discussed in class.

Exams

There will be one midterm exam. The material comes from the textbook, class lectures and supplemental materials. If any exam is missed, a zero will be recorded as the score. It is your responsibility to take the exams by the due date.

The class will culminate with a **Final Project** in lieu of a final exam.

The midterm cannot be made up, so you must take it during the time it is posted. No assignments will be accepted after August 13, the last day of class.

Grading Policy

Click the “Grades” link in Canvas to keep track of your grades. I usually grade once a week and post grades and comments in the Canvas gradebook.

Grades will be based on the total percentage of points earned during the course, assigned as follows:

This information is an example as the final course assignments are tentative at this point.

Tutorial Labs

Projects

Tests

Final Project

The following percentages earn at least these grades

90 - 100% A

80 - 89% B

70 - 79% C

60 - 69% D

Note: If taking Pass/No Pass you need at least 70% of the total class points and complete the midterm exam and the final exam to pass the class.

Standards of Conduct

Respect

Students who register in SRJC classes are required to abide by the SRJC Student Conduct Standards. Violation of the Standards is basis for referral to the Vice President of Student Services or dismissal from class or from the College. See the [Student Code of Conduct page](#).

Collaborating on or copying of tests or homework in whole or in part will be considered an act of academic dishonesty and result in a grade of 0 for that test or assignment. Students are encouraged to share information and ideas, but not their work. See these links on Plagiarism:

[SRJC Writing Center Lessons on avoiding plagiarism \(Links to an external site.\)](#)
[SRJC's statement on Academic Integrity](#)

Emergency Evacuation Plan

In the event of an emergency during class that requires evacuation of the building, please leave the class immediately, but calmly. Our class will meet at a designated spot to make sure everyone got out of the building safely and to receive further instructions. (If the class is on a second or higher floor, provide clear directions to the stairs). If you are a student with a disability who may need assistance in an evacuation, please see me during my office hours as soon as possible so we can discuss an evacuation plan.

Special Needs

If you need disability related accommodations for this class, such as a note taker, test taking services, special furniture, etc., please provide the Authorization for Academic Accommodations (AAA letter) from the Disability Resources Department (DRD) to the instructor as soon as possible. You may also speak with the instructor privately during office hours about your accommodations. If you have not received authorization from DRD, it is recommended that you contact them directly.

Disability Resources Department
Tel: (707) 527-4278 Santa Rosa
Tel: (707) 778-2491 Petaluma
Email: disabilityinfo@santarosa.edu

Every effort is made to conform to accessibility standards for all instructor-created materials. Students should contact their instructor as soon as possible if they find that they cannot access any course materials. Students with disabilities who believe they need accommodations in this class are encouraged to contact Disability Resources (527-4278).