

Computer Science

Grade: 8

COMP 200 Computer Science

1 credit
 3 days per week; 1 year
 Taught in English

This is a **required course for all 8th grade students** in both the Mexican and/or U.S. diploma program. In this class students will create different designs and develop websites with animation using various software programs. The major emphasis in this class is editing and design. Students will develop skills to express their creativity including image editing and creation, video and audio editing and creation, web design and publication, and extended practice using Microsoft and Google software products (as introduced in the 7th grade). Google drive and file sharing are integral to these productions. Students will eventually create a final project incorporating all skills learned throughout the course. Students will review internet safety, internet usage, networking, anti-virus software and computer maintenance.

Textbook: None
 Prerequisite: COMP 100

Benchmark Code – Subject: Computer Science = CS

Strand 1= Operating the Computer Strand 2= Keyboarding Strand 3= Word Processing Strand 4= Graphics Strand 5= Internet/Networking Strand 6= Multimedia Strand 7= Spreadsheets Strand 8= Databases Strand 9= Authoring Software	Standards 1. The student understands basic technology operations and concepts. 2- The student uses technology responsibly and ethically. 3- The student uses technology to communicate effectively and creatively. 4- The student uses technology for thinking, learning, and producing real world situation. 5- The student uses technology for research, problem-solving, and decision-making.
--	---

Code: Subject.Grade.Strand#.Standard#. Benchmark#

Example: CS.8.1.1.3 – Computer Science, eighth grade, strand 1, standard 1, benchmark 3

Strand 1: Operating the Computer

Standard 5: The student uses technology for research, problem-solving, and decision-making.

Benchmark Code	Benchmark
CS.8.1.5.1	The student will describe a virus and an antivirus.
CS.8.1.5.2	The student will identify and describe the virus classification and antivirus programs.
CS.8.1.5.3	The student will list the damages and technical problems caused by a virus.
CS.8.1.5.4	The student will describe the different ways of infection and identify if the computer is infected.

CS.8.1.5.5	The student will evaluate, choose, and correctly use an antivirus.
CS.8.1.5.6	The student will identify, describe and solve basic problems with the operation of a computer.

Strand 3: Word Processing

Standard 3: The student uses technology to communicate effectively and creatively.

Benchmark Code	Benchmark
CS.8.3.3.1	The student will correctly use Word and/or Google Docs as previously introduced in 7 th grade in an interdisciplinary project that includes WordArt, columns, tables, shapes, bullets, numbering, drop cap, headers/footers, page breaks, etc.
CS.8.3.3.2	The student will continue to correctly use Google Drive to upload and download files.

Strand 4: Graphics

Standard 1: The student understands basic technology operations and concepts.

Benchmark Code	Benchmark
CS.8.4.1.1	The student will correctly describe a publication design program and identify its key elements.
CS.8.4.1.2	The student will apply basic features of Publisher to create new publications, open a publication, select, undo actions, redo actions, copy, cut, paste, save, delete, and recover.
CS.8.4.1.3	The student will describe publications and their elements.
CS.8.4.1.4	The student will create and customize publications using tools and properties from Publisher.
CS.8.4.1.5	The student will import and export graphics to use in a publication.

Standard 3: The student uses technology to communicate effectively and creatively.

Benchmark Code	Benchmark
CS.8.4.3.1	The student will create business cards, invitation cards, advertisements, flyers and brochures.
CS.8.4.3.2	The student will make a collage, restore a picture, edit an image, and mount a photomontage.

Strand 5: Internet/Networking

Standard 1: The student understands basic technology operations and concepts.

Benchmark Code	Benchmark
CS.8.5.1.1	The student will review internet and its characteristics, and will list the elements needed to get connected.
CS.8.5.1.2	The student will identify and describe the network classifications: LAN, WAN and MAN.
CS.8.5.1.3	The student will define, identify and describe the, advantages and disadvantages of the star, bus and ring network topologies.

Strand 6: Multimedia

Standard 3: The student uses technology to communicate effectively and creatively.

Benchmark Code	Benchmark
CS.8.6.3.1	The student will describe the purposes of Pixlr, Google Sites and movie making software.
CS.8.6.3.2	The student will identify and describe key elements of Pixlr, Google Sites, and movie making software.
CS.8.6.3.3	The student will customize the work area in Pixlr.
CS.8.6.3.4	The student will correctly use layers in Pixlr.
CS.8.6.3.5	The student will use Pixlr tools and effects to create and export a new image.
CS.8.6.3.6	The student will preload, generate, and publish a movie.
CS.8.6.3.7	The student will import video files and organize video files.
CS.8.6.3.8	The student will cut and delete unnecessary scenes from the main video, use transition between scenes, apply effects and add titles.
CS.8.6.3.9	The student will remove noise from audio files.

Strand 9: Authoring Software

Standard 1: The student understands basic technology operations and concepts.

Benchmark Code	Benchmark
CS.8.9.1.1	The student will describe a webpage.
CS.8.9.1.2	The student will identify and describe HTML.
CS.8.9.1.3	The student will correctly choose HTML tags for writing source code for a webpage in Notepad.
CS.8.9.1.4	The student will correctly use Google Sites to create a webpage.

Standard 3: The student uses technology to communicate effectively and creatively.

Benchmark Code	Benchmark
CS.8.9.3.1	The student will create a basic webpage using HTML and Google Sites.
CS.8.9.3.2	The student will enhance a webpage with font colors, sizes, and styles.
CS.8.9.3.3	The student will enhance a webpage utilizing tables.
CS.8.9.3.4	The student will enhance a webpage utilizing images.
CS.8.9.3.5	The student will include links to additional websites.