

CEMS Computer Science and Software Engineering Syllabus

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COURSE DESCRIPTION

Students create apps for mobile devices, automate tasks in a variety of languages, find patterns in data, and interpret simulations. Students collaborate to create and present solutions that can improve people's lives. How will computing and connectivity transform your world? [Click here for the class website.](#)

TOPICS COVERED

- Unit 1: Algorithms, Graphics, and Graphical User Interfaces
 - Algorithms and Agile Development
 - Mobile App Design
 - Algorithms in Python
 - Images and Object-Oriented Libraries
 - GUIs in Python
- Unit 2: The Internet
 - The Internet and the Web
 - Shopping and Social on the Web
 - Security and Cryptography
- Unit 3: Raining Reigning Data
 - Visualizing Data
 - Discovering Knowledge from Data
- Unit 4: Intelligent Behavior
 - Moore's Law and Modeling
 - Intelligent Agents



CLASS SUPPLIES

- Folder, notebook, pen/pencil
- Earbuds/headphones
- Flash drive (optional)

GRADING

Grading is based on a point system. You are expected to keep up with your own grades in order to give you an accurate idea of your current standing and eliminate "surprise" grades on progress reports and/or report cards. Grades are updated regularly so please check that often. Students will be graded according to the following grading scale:

A	94-100%	B+	90-91%	C+	81-82%	D+	72-73%
A-	92-93%	B	85-89%	C	76-80%	D	67-71%
		B-	83-84%	C-	74-75%	D-	65-66%
						F	64% and below

CLASS EXPECTATIONS

Class work will be completed in the lab at school due to the software needs. If you have been absent, it is your responsibility to make up the necessary assignments. You will be given two days of makeup time for each excused day missed. Please be on time to class! Referrals will be given based on school rules. Cell phone use for the purposes of texting, email or other social media is not permitted. Earphones for music are encouraged during lab work, NOT during lecture/class discussion. Photos or video may not be taken in class without prior permission.

OFFICE HOURS/EXTRA HELP

I can be found in Room 211 until 3pm every day. I am always willing to help students who desire extra assistance. Please see me to schedule a time as I will always be available after school.

COMMUNICATION

The best way to contact me is through email; however, you may also call me. See contact information above.