

Computer Concepts and Software Applications (ITS1105)

A semester-long course that provides an opportunity for **college credit** with Clark State Community College. This course is required as part of the Office Administration AS degree at Clark State. Because the course is held every day of the week there is rarely homework but the best part of this course is transferability. I selected a tagged course for the state of Ohio which means at least 9 Ohio colleges including UC, CU, and WSU already commit 100% transfer acceptance of this course. In addition to college credit this course dives into Microsoft Office Applications. Students work with common tools they've used before like Microsoft Word and PowerPoint but also advance deeper into using Excel and Publisher.

Finally, the semester is rounded out with MS Access and for many students this is their first exposure to databases. Throughout the course we analyze tasks to choose the most appropriate software to complete a task. Last year students showcased their database projects at the computer science fair where they shared how you can use Visual Basic for Applications programming language to create automated tasks within your database.

Computer Concepts and Software Applications (1/2 credit)

***CCP option with Clark State Community College.*

Students will learn a variety of skills composing documents, analyzing spreadsheets, and developing databases. Students will have fun creating spreadsheets for buying cars, Fantasy Football teams, or March Madness brackets while seamlessly learning how to professionally format these documents.

Other creations include posters, displays, and designing a functional database. Course includes an opportunity to participate in the annual computer science fair.



FYI

Digital Production Concepts is a course that works with creating designs and selling items via an e-commerce store. While the course is not for college credit it does provide students with work-related skills including invoicing, marketing, inventory, leadership, and product design.



AP Computer Science Principles

Is a year-long course that teaches the principles of computer science including hardware, the Internet and computer programming. The course prepares you for the AP exam provided by College Board. College admissions professionals state that AP coursework **DOES** impact acceptance and students who have a high school computer science course on their transcript often have an edge in acceptance --if all other things are the same.

This course will:

- Develop computational thinking skills vital across all disciplines
- Challenge students to analyze and study data
- Foster creativity

The curriculum selected creates opportunities for students to **try** many computer languages so they come out of the course with the ability to select appropriate languages for a specific task. The course framework employs a growth model to grading. Students are assessed at the beginning of the course and then assessed moving forward based upon growth. If students meet the individual growth goals set when entering the course students can earn an A even if a student enters the course with less prior knowledge than another student. This alleviates the anxiety for students to learn something new!

This is a 5 point elective .

AP Computer Science Principles (1 credit)

College admissions counselors suggest students enroll in as many AP courses at their high school as possible.

This course provides students with an engaging and meaningful introduction to computer science and prepares them for the AP Computer Science Principles exam. Students will have fun developing their own apps and games along with eating sandwiches, yes, real food. This course takes a creative approach to looking under the hood of the computer while preparing students for the AP CSP exam if desired. This course is a great prerequisite for engineering, CAD, and other computer science courses. This course also promotes computational thinking skills that span all disciplines. Course includes an opportunity to participate in the annual computer science fair.