

Computer Technology Advanced (1 year)

Grades 9 - 12

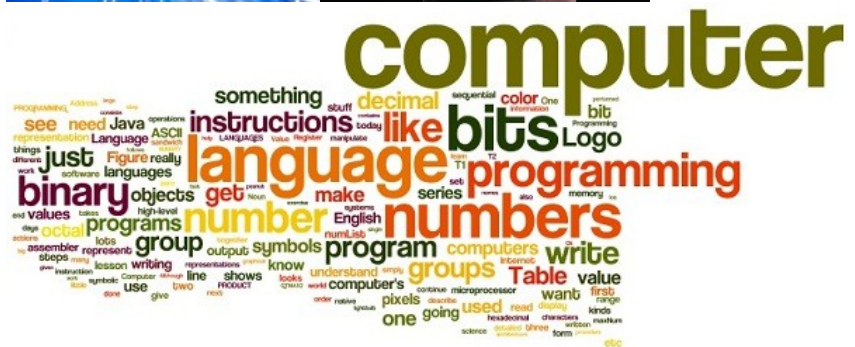
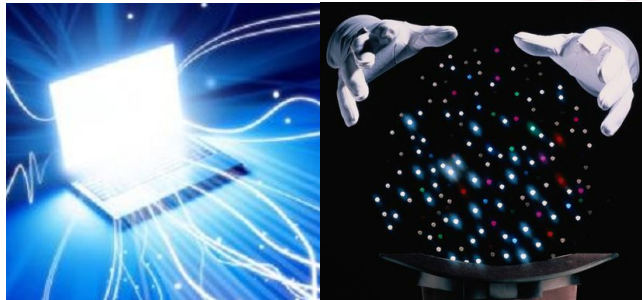
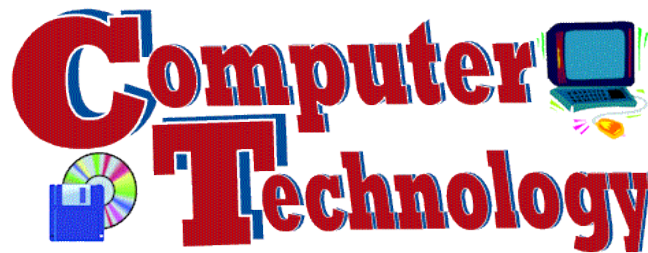
Prerequisite : all students are welcome, including both "beginners" and "experts"

Leads to : Graphics Programming

This is a technical course, covering a variety of technical topics in Computer Technology. The goal of the course is to introduce students to computer programming and some other technical tools used to create software and project solutions to problems.

Topics include:

- web-page design and construction
- Javascript programming
- vector graphics design
- Basic programming for video games (Scratch)
- sound editing
- Powerpoint automation
- 3D animation (Alice)
- technical word-processing
- web-pages for mobile devices
- introduction to Java programming
- web-servers
- server-side programming



Further topics will be changed and/or added each year, keeping pace with developments in the computer industry.

Most assessment involves practical projects, completed in class with ample assistance from the teacher. Most projects include both technical skills and creative components.

This course is appropriate for ambitious students who have normal experience with IT tools (word-processing, web-browsing, e-mail, etc), and are interested in learning more technical, challenging techniques, especially computer programming. It is also a good preparation for the subsequent Graphics Programming course.