

Introduction to Software Technology (IST) Syllabus 2023-24

TEACHER NAME: Michelle Aycock

Google Classroom Code: _____

E-MAIL: maycock@lcboe.us

REMIND Code: _____

ROOM: 404

Course Description:

Introduction to Software Technology is the foundational course for Cloud Computing, **Computer Science**, Game Design, Internet of Things, **Programming**, Web and Digital Design, and Web Development pathways.

This course is designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal life, society, and the business world. Exposure to foundational knowledge in programming languages, software development, app creation, and user interfacing applications are all taught in a computer lab with hands-on activities and project-focused tasks. Students will not only understand the concepts but apply their knowledge to situations and defend their actions, decisions, and/or choices through the knowledge and skills acquired in this course.

Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. Various forms of technologies will be highlighted to expose students to the emerging technologies impacting the digital world. Professional communication skills and practices, problem-solving, ethical and legal issues, and the impact of effective presentation skills are taught in this course as a foundational knowledge to prepare students to be college and career-ready. The knowledge and skills taught in this course build upon each other to form a comprehensive introduction to the digital world.

Introduction to Software Technology is a course that is appropriate for all high school students. The prerequisite for this course is advisor approval.

Units include:

- CTAE Foundations
- Career Portfolio
- Online Safety and Digital Citizenship
- Emerging and Future Technology
- Hardware & Software Components

- Online Resources
- Operating Systems and Binary Code
- Problem Solving
- Algorithms and Flowcharting
- Visual Programming
- Ethics and Cyber Security
- Web Design
- Customer Relationships
- Employability Skills
- Careers

Students will:

- Explore, research, and present findings on positions and career paths in technology and the impact of technology on chosen career area.
- Demonstrate effective professional communication skills (oral, written, and digital) and practices that enable positive customer relationships. Every student will be required to do presentations throughout the semester.
- Identify, describe, evaluate, select and use appropriate technology.
- Understand, communicate, and adapt to a digital world.
- Explore and explain the basic components of computer software and networks.
- Use computational thinking procedures to analyze and solve problems.
- Create and organize web pages through the use of a variety of web programming design tools.
- Design, develop, test and implement programs using visual programming.
- Describe, analyze, develop and follow policies for managing ethical and legal issues in the business world and in a technology-based society.

Required Supplies:

Pen/Paper

Computer Lab Considerations:

- No food or drinks other than water are allowed.
- Proper computer use and care is extremely important.
- The use of headphones are for lessons ONLY. Not for music, movies, etc.
- The printer in Room 404 is to be used for CTAE classes only.

Makeup Work:

Makeup Work is defined as work assigned during a student's absence, not work assigned prior to an absence. The student has up to three (3) school days or the end of the semester, whichever is less, upon returning to school to complete make-up work. Each student is responsible for scheduling and completing all makeup work.

Late Work:

Every assignment has a due date. Although we all work at different speeds, due dates are set with that fact in mind. Assignments should be submitted on time and deductions will be made for any late work.

No more than 30 (calendar) days will be allowed for late work to be turned in. This includes daily classwork, quizzes, tests and projects.

Ex: If you have an assignment due on Jan. 18th, you will NOT be able to submit it for a grade after Feb. 18th. It will automatically be a grade of zero (0).

7-10 days late:	10 point deduction
11-14 days late:	20 point deduction
15-21 days late:	30 point deduction
22-30 days late:	50 point deduction
> 30 days late:	Grade of zero (0)

Class Rules:

(In addition to all LCHS Rules...)

- Be prompt – by being in your seat when the final bell rings
- Be prepared – by bringing all supplies to every class
- Be polite – by refraining from vulgar or offensive language
- Be respectful - respect teacher and each other. Don't talk during lesson or while others are talking
- Have permission – before leaving your seat
- No cell phones in class (school policy)

Consequences:

(Mrs. Aycock reserves the right to skip steps 1-3 if needed.)

1. Warning
2. Teacher Detention
3. Notify Parent/Guardian
4. Office Referral

Availability for Extra Help:

I am available before school and after school most days. Please schedule in advance to ensure availability.

Communication:

Sign up for **REMIND** to receive updates and class assignment reminders.

- 1) See attached information sheet for instructions (parents are welcome to join)

You will be required to add this class in **Google Classroom** (code given by teacher)

- 1) Assignments will be posted in Google Classroom daily (so if you are absent, this is the place to go to)
- 2) Announcements will also be posted in Google Classroom

Both students and parents are encouraged to discuss any questions or concerns with me. The quickest way to contact me is usually by email maycock@lcboe.us

Grading Calculations:

Formative: 30%

Summative: 70%

Final: 15%

*Formative Assessments include, but are not limited to homework, class work, practice tests, rough drafts, and sections of projects/ research papers/presentations. Formative grades will be posted within 5 business days of assignment due date.

*Summative Assessments include, but are not limited to unit tests, final projects, final essays, final research papers, and final presentations. Summative grades will be posted within 10 business days of assignment due date.

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ROOM: 404

Directions: Please complete, sign, and return to Mrs. Aycock no later than Monday, January 8th.

I have read the syllabus for Intro to Software Technology and understand the course rules and policies.

Student Name (Printed): _____ **Block:** _____

Student Signature: _____ **Date:** _____

Parent/Guardian Signature:

_____ **Date:** _____

Parent preferred method of communication:

Parent: _____ Mobile: _____

Email: _____