



Lebanon Community Schools

High School Course Syllabus

Lebanon High School | Mr. Tim Helland | 2025-2026

Course Number and Title:

Advanced Computer Science

Subject Area:

Computer Technology

Credits:

Semester 1 0.5 CT or *Elective* Credit

Graduation Requirements:

The following Oregon Essential Skills will be addressed throughout this course:

<input checked="" type="checkbox"/> Read and comprehend a variety of text	<input checked="" type="checkbox"/> Use technology to learn, live, and work
<input checked="" type="checkbox"/> Write clearly and accurately	<input checked="" type="checkbox"/> Demonstrate civic and community engagement
<input type="checkbox"/> Apply mathematics in a variety of settings	<input type="checkbox"/> Demonstrate global literacy
<input type="checkbox"/> Listen actively and speak clearly and coherently	<input checked="" type="checkbox"/> Demonstrate personal management and teamwork skills
<input checked="" type="checkbox"/> Think critically and analytically	

Prerequisites:

None

Course Overview:

You will choose a focus area of interest or importance to you that is directly related to computer science, robotics or computer technology. This includes but is not limited to:

- 3D animation
- Artificial intelligence
- Cloud computing
- Cybersecurity
- Databases
- Hardware
- Machine learning
- Mobile devices
- Networking
- Programming
- Robotics
- Server management
- Video game design
- Web development

Topics of Study:

Quarter 1

Create a Plan

- Brainstorm
- Identify resources and tools
- Create a learning plan
- Get plan approved

Learning

- Use identified resources
- Collaborate with teacher and peers
- Document and reflect on your progress

Application

- Create something that shows learning has occurred
- Reflect on your progress

Quarter 2

Update Your Plan

- Modify, update or create a new plan
- Get plan approved

Learning

- Use identified resources
- Collaborate with teacher and peers
- Document and reflect on your progress

Application

- Create something that shows learning has occurred

Final

- Assemble a portfolio of your work
- Reflect on your overall progress

TAG/ELL/Special Education Considerations:

Students will receive appropriate accommodations consistent with their IEP and/or TAG plan. Students are encouraged to self-advocate and communicate with their teacher if they have questions or concerns about their accommodations. You may be pre-assessed on the knowledge and skills that you bring with you to this course. The purpose of the pre-assessment is to determine what you already know, guide instruction, and give you access to advanced and/or accelerated content when appropriate.

Formal or informal pre-assessments may include quizzes, student input and self-evaluation, placement tests, teacher observation, work samples, fist of five, thumbs up/thumbs down, and other forms of assessment. The following differentiation strategies will be used during instruction when appropriate: Enrichment, Multiple Intelligences, Acceleration, Compacting, Independent Projects, Critical Thinking, Assignment Modification, Flexible Grouping, and Student Contracts.

Supplemental Resources:



A variety of resources will be available on the following websites:
<http://moodle.mrhelland.com>

If you don't have access to a reliable internet connection, please see the teacher for an alternate method of access.

Academic Honesty Policy:

Plagiarism and cheating are unacceptable in any classroom. Students who submit work that is not their own may receive a score of zero and/or be referred to the administration for disciplinary action.

You are encouraged to help your peers understand and make progress. Help them learn, but don't just give them your work. If multiple students submit work that is not sufficiently unique, the points for that work will be divided equally amongst them.

Homework and Late Policy:

Most learning activities in this course can be completed by an average student during the class period. If you do not complete a task during class, it will be necessary to complete work at home or by scheduling time to use the lab before or after school. The lab is also open at lunch one day per week.

Late assignments lose 10% of their possible value. For each week an assignment is late, it will lose an additional 10% in possible value. The maximum late penalty is 50%.

Behavioral Expectations:

To maintain a positive and productive learning environment each member of our classroom agrees to:

- ❖ Respect others with words and actions.
- ❖ Be seated and ready to begin when the bell rings.
- ❖ Use spill-proof containers for beverages and leave food at the door.
- ❖ Turn off and put away cell phones and entertainment devices unless otherwise directed by the teacher.
- ❖ Clean up before leaving the classroom.
- ❖ Follow the LHS Student Handbook and Network & Internet Use policies.

Personal Electronic Devices:

In accordance with Executive Order 25-09, personal electronic devices (phones, smartwatches, earbuds, etc.) are not allowed during instructional hours. Devices must be turned off and stored out of sight. Repeated violations will result in restorative intervention and parent contact.



Using personal electronic devices during an assessment without prior arrangement will result in a score of 0.

Grading Policy:

Your overall letter grade is weighted as follows:

Learning Activities	80%
Daily Employability Skills	10%
Final	10%

Semester grades are rounded mathematically.

Labs & Assignments:

Many assignments will be scored using specified criteria. All other assignments will earn a percentage of the total points possible based on overall completion, effort and growth. For example:



• Completed • Exceptional effort • Significant growth	100%
• Mostly completed • Reasonable effort • Average growth	75%
• Half complete • Mediocre effort • Marginal growth	50%
• Rather incomplete • Little effort • Minimal growth	25%
• No effort	0%

Assessments:

Unit Tests are usually worth 100 points each and are announced in advance. If you opt to delay a test without prior arrangement, the maximum earnable score is 80%. You may retake each test once after successfully completing a review activity.

The *final exam* is 10% of the final grade and may include both a written and performance component.

Excused Absences:

When you return to school, be prepared to make up any missing work within the number of days you were absent + 1 day. After this, the usual late penalty will apply. On the day you return, arrange to make up any tests, quizzes or projects that were due in your absence.

Special consideration will be made for extended absence or verified emergencies. Be sure to contact the teacher as soon as possible.

Your course letter grade will be determined as follows:



A.....	90% or above
B.....	80% to 89%
C.....	70% to 79%
D.....	60% to 69%
F.....	Below 60%

You are encouraged to attempt any/all of the extra credit opportunities provided. Per district policy, extra credit may only affect your overall grade by a moderate percentage.

Notebook:

A notebook is required for this course. It should include the following:



- ❖ Daily progress
- ❖ Weekly reflection
- ❖ Reference information
- ❖ Key learnings or vocabulary
- ❖ Organizational structure
- ❖ Anything else you frequently need access to

Your notebook will be one of the primary pieces of evidence of your learning progress. Be sure to update it regularly.

If you take a few minutes each day to update the notebook, it will not be a difficult task to have it ready for submission.

Projects:

Projects may be assigned depending on available time.

You will likely need to work on projects outside of class to earn a high score or if you get behind.

Unexcused Absences:

If you have an unexcused absence, you will not be able to makeup in-class activities. Projects or unit tests that reflect multiple days of learning can be made up, but will lose a portion of their value based on the number of unexcused absences affecting that unit or project.



Daily Employability Skills:

It is important that you be prepared to put the skills and knowledge you learn to good use. Employers and colleges will often value the following traits just as highly:

- ❖ Communication
- ❖ Teamwork
- ❖ Reliability
- ❖ Problem solving
- ❖ Organization
- ❖ Initiative
- ❖ Self-management
- ❖ Leadership
- ❖ Adaptability

You will be periodically evaluated on these traits.

Materials:

In addition to basic school materials, the following materials are strongly suggested for this course:



3-ring or spiral notebook

It will be evaluated periodically for content, organization and usability.

Portable or Online Storage

A USB Storage device or Google Drive account may prove useful and convenient in this course.

Home Computer

A computer running a modern operating system such as Windows 10 or Mac OS X can be useful.

I Need Help!

There are many resources available to you if you get stuck or don't understand. Some of them are:

- ❖ Your teacher
- ❖ Peer study groups
- ❖ Your teacher's website
- ❖ Course website
- ❖ Online videos
- ❖ Online tutorials
- ❖ Tutoring

