

# New Electives & Course Changes for 2023-2024

## GUITAR II

This class will be one semester of guitar instruction building off of the basics taught in Guitar I. Tuning, string names, a strong emphasis on reading music, and music theory will be covered in depth. This class will look at songs in a variety of styles, music history, music theory, etc. Concepts taught in Guitar 2 include: playing melodically in positions up the neck; playing movable chord shapes up the neck; playing scales and extended chords in different keys; more right-hand studies; fingerpicking and pick style; improvisation in positions up the neck. Students will be graded on tests of playing, written material, and short performances for the rest of the class. Music is available for duets, trios, and quartets. This class is for acoustic guitars provided by the school, or a personal guitar.

**Prerequisite:** Guitar I

**Grades:** 10-12

**Course Length:** Semester

## SCIENCE ISSUES THROUGH FILM & LIT

This is a project-based, one semester look at science issues through film and literature. Topics can include space travel, genetic modifications, cyber/computer security issues in science, and realistic science or science fiction in popular movies and books. This class will include the opportunity to view several films, as well as read several short stories and current science research to take a closer look at how the world reacts to science, how scientific knowledge is developed, and how science can be twisted or true, entertaining or incredibly dramatic.

**Prerequisite:** Biology & Earth Science

**Grades:** 11-12

**Course Length:** Semester

## ADVANCED CONSTRUCTION

This one semester course is the final section to a National Certification from The Home Builders Association. Students will become competent in green building procedures, materials and equipment usage for the building trades by working with hands-on projects throughout the course. All aspects of residential construction (framing, roof, interior trim, electrical, plumbing and heating and air conditioning) will be addressed and taught in this class. Students will gain insight into future careers in construction by building sheds, barns and green houses that are energy efficient and sustainable.

**Prerequisite:** Construction Tech I & Woodworking

**Grades:** 11-12

**Course Length:** Semester

## CYBER SECURITY & COMPUTER NETWORKING

The first semester of this course provides an introduction to the computer hardware and software skills as well as introductory networking skills needed to help meet the growing demand for entry-level information and communication technology (ICT) professionals. The curriculum covers the fundamentals of PC technology and mobile technologies. Students will be able to describe the internal components of a computer, assemble and disassemble a computer system, install and maintain an operating system, and troubleshoot using system tools and diagnostic software. The second semester of this course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. Students will be able to build simple LANs, and implement IP addressing schemes. Students will also learn about the architecture, components, and operations of routers and switches in a small network. This course will enhance technical, communication, and problem solving skills as they relate to the study of Information Security and Information Assurance. Hands-on labs and virtual learning tools will help students develop critical thinking and complex problem-solving skills.

**Prerequisite:** Algebra I

**Grades:** 11-12

**Course Length:** Yearlong, 2-hour block

## COURSE NAME CHANGES

<u>Old Course Title</u>	<u>New Course Title</u>
Beginning Guitar	Guitar I
CAD Architectural Engineering	CAD Architecture
CAD Digital Animation	CAD Animation
CAD Mechanical Engineering	CAD Engineering
Contemporary Affairs	Current Events & Global Issues
Contemporary Literature	Popular Literature
Environmental Science Sem 1	Environmental Science: Dynamic Ecology
Environmental Science Sem 2	Environmental Science: Sustainability

# Additional Course Options

## BLENDDED COURSES

The majority of the course is in an online format, with face-to-face support and instruction from a Hartland High School teacher. You must have your own reliable transportation because they're offered 1<sup>st</sup> or 7<sup>th</sup> hour. Course offerings vary depending on interest but the possibilities include English 11, English 12, and American Government. Talk to your counselor if you're interested in taking a Blended course.

**Prerequisite:** Teacher and Parent Approval

**Grades:** 11-12

## UNIVERSITY OF MICHIGAN – FLINT DUAL ENROLLMENT EDUCATIONAL PARTNERSHIP (DEEP)

DEEP allows motivated students to earn college credit by taking accredited courses taught by UM-Flint faculty on-site at Hartland Schools' facilities. If you are interested in DEEP, the application is available on our website as well as in the Counseling Office.

Business/Economics  
Medical Sciences

General Studies  
Pre-Engineering

**Prerequisite:** Varies by program

**Grade:** 12

## CAREER & TECHNICAL ED (CTE) OPTIONS

### Shared Time Programs [www.livingstoncte.org](http://www.livingstoncte.org)

- Agricultural Science (Botany & Greenhouse Management/Zoology & Vet Science)
- Aviation (Private Pilot Ground School)
- Construction Trades
- Cosmetology
- Culinary Arts & Hospitality I & II
- Cyber Security & Computer Networking (Hartland)
- Early Childhood Education I & II
- Emergency Medical Technician Training (EMT)
- Energy Technology (Hartland)
- Engineering & Robotics I & II
- Firefighters I & II
- Graphic Communications I & II
- Health Occupations
- Manufacturing Engineering Technology I & II

**Prerequisite:** Varies by program

**Grades:** 11-12

These programs require an additional application. Some programs fill up, but students will know before the end of the school year if they got in. Listen to the announcements for more information and speak with your counselor if you have questions.

### Livingston County Early College [www.lcearlycollege.org](http://www.lcearlycollege.org)

- Automotive (Associate or Certificate options)
- Business Management (Associate)
- Career Ladder Nursing (fast track to RN or Medical Assistant)
- Cyber Security (Associate)
- Data Analytics (Associate)
- Mechatronics/Robotics (Associate)
- Welding (Certificate)

**Prerequisite:** Varies by program

**Grades:** Begin program in 11<sup>th</sup> grade

Students have an opportunity to earn their high school diploma while simultaneously completing a college certificate, associate, or industry credential. In order to complete the coursework required for this program, students will commit to a fifth year of high school. Students apply for admission in grade 10. Students will take a combination of high school and college courses during grades 11 and 12. By the time they reach the fifth year of high school, they will be a full-time college student, and, in most situations, all of their coursework will be completed on-site at the college campus or tech facility.