

# EdisonLearning Career and Technical Education



2024-2025

Digital Learning Solutions and Services

## EdisonLearning as your learning services provider

With over a decade of experience in successful virtual and blended learning programs, EdisonLearning helps districts establish a school environment that promotes student learning and success, including a full and rich curriculum and the ongoing training and professional development of high-performing administrators and teachers.



### Core and Elective eCourses

We provide eCourse content, delivery, and certified instructors for more than 150 different core and elective courses, grades 6–12.



### Career and Technical Education

Our career-focused eCourse curriculum offers pathways to prepare students for industry certifications, engage in career exploration, and learn about new technologies.



### Keys to Driving

Keys to Driving is offered through EdisonLearning as a first-in-class online 30-hour driver training program to meet state-specific standards.



### Dual Enrollment

Expand course offerings for students with virtual dual enrollment. Dual enrollment programs allow students to earn college credits while still in high school.



### Social-Emotional Learning

Our Social-Emotional Learning and Soft Skill Development course helps students develop the skills and resiliency to feel better, accomplish more, and create the life they want.



### Middle School BOOST

Middle School BOOST expands the instructional and curriculum offered to students. Talk to your EdisonLearning representative to learn more about this custom-built solution.



### Instructional & Student Support Services

Our certified virtual teachers and advisors provide students with a fully supported learning environment.



### Professional Learning Courses

We offer expert-designed, product-agnostic learning solutions to address the needs of school staff regardless of the software, content, or other resources schools are using.



### Mosaic Instructional Planning

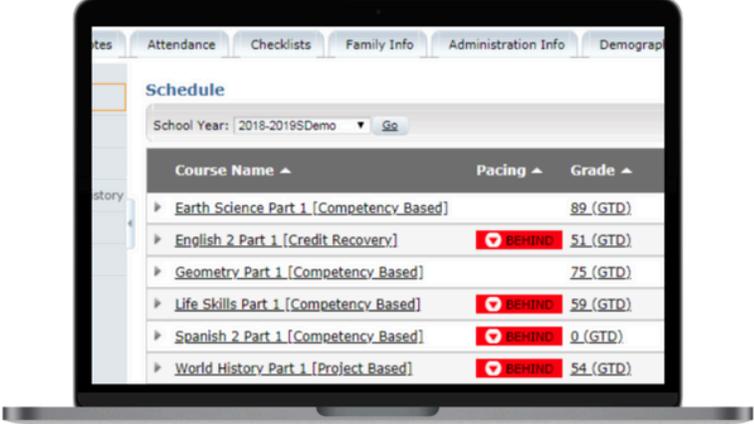
A dynamic platform for data-driven decisions. Through Mosaic IP, school administrators have the ability to support effective educators for all students.

EdisonLearning is accredited as a Learning Service Provider by the Middle States Association Commission on Elementary and Secondary Schools (MSA-CES). EdisonLearning has approval for NCAA initial eligibility for many of its high school courses. EdisonLearning has Quality Matters certification for a number of courses, indicated by the QM logo.

## eSchoolware™ gives educators the data they need to gain a holistic view of each student

### What Is eSchoolware™?

- EdisonLearning's proprietary learning management system
- Content delivery platform for EdisonLearning eCourses®
- Teacher and student messaging portal
- Library of over 200 reports



Course Name	Pacing	Grade
Earth Science Part 1 [Competency Based]		89 (GTD)
English 2 Part 1 [Credit Recovery]	BEHIND	51 (GTD)
Geometry Part 1 [Competency Based]		75 (GTD)
Life Skills Part 1 [Competency Based]	BEHIND	59 (GTD)
Spanish 2 Part 1 [Competency Based]	BEHIND	0 (GTD)
World History Part 1 [Project Based]	BEHIND	54 (GTD)

### Student Data All in One Place

Student enrollment, attendance, and performance data are all tracked through eSchoolware™, giving educators the insight they need to plan instruction from one convenient location. eSchoolware™ provides school staff with automatic daily reporting or it can easily integrate with most student information systems through our robust API Libraries.

### Streamlined Communication and Planning

The teacher portal in eSchoolware™ allows instructors to quickly access any student items needing their attention, such as messages, items that need to be graded, academic interventions, new forum posts, and grade approval requests. Green, yellow, and red indicators help teachers prioritize tasks by indicating the urgency of each item. Within any eCourse gradebook, a teacher can view granular data concerning a student's performance to gain a full picture of a student's attempts and progress.

### Program Management Made Easy

eSchoolware™ offers over 200 standard reports enabling school staff to pull anything from assessment details, to interventions reports, to time in course reports, to course selection details. When schools are trying out new learning models or managing virtual learners, having the right data on hand is crucial to guide the process. With eSchoolware™, you have everything you need.

# Career and Technical Education



Our career-focused eCourse curriculum offers pathways to prepare students for industry certifications, engage in career exploration, and learn about new technologies.

## Course Features

Empower students to explore career and technical skills through interactive and reflective course content and assessments. Our career-focused eCourse curriculum offers pathways to prepare students for industry certifications, engage in career exploration, learn about forthcoming technologies, and examine the impact of such topics on our society and economy. The purposeful design allows schools to utilize eCourses aligned to the National CTE Foundation career clusters in virtual and blended learning programs.



**With EdisonLearning you can count on your students being fully supported in any learning environment. We provide our partners with:**



Certified online teachers and tutors who ensure students get personalized support while alleviating workload for school staff.



Expert-designed, product agnostic professional learning solutions to address the needs of school staff leading and teaching digital learning programs.



Seamless integration and robust reporting through eSchoolware™—our proprietary learning management system.



We also offer over 150 core and elective eCourses for students grades 6–12. Learn more at [www.edisonlearning.com](http://www.edisonlearning.com).

# Career and Technical Education Course List

Our robust collection of 55 CTE courses cover a wide variety of student interests and career pathways. The courses are built by module. Many courses prepare students for a certification exam. Most courses can be completed in a semester or for .5 credit. Please work with students, advisors and the EdisonLearning team to determine the right fit. Full course details are available.

## eCourses and Career Pathways

### Architecture & Construction (4)

- Architectural Design I +
- Architectural Design II +
- Architectural Design III
- Building Maintenance Technologies I
- Building Maintenance Technologies II +
- Construction: Fundamentals and Careers
- LEED Green Associate +

### Agriculture, Food & Natural Resources (7)

- Agriscience I
- Agriscience II
- Agriscience III

### Arts, A/V Tech & Communications (9)

- Adobe After Effects +
- Adobe Illustrator +
- Adobe InDesign +
- Adobe Photoshop +
- Adobe Premiere Pro +

### Business Management & Administration (11)

- Communication Skills for Business +
- Entrepreneurship & Small Business +
- Microsoft Excel +
- Microsoft Outlook +
- Microsoft PowerPoint +
- Microsoft Word +
- Microsoft Word Expert +
- Startups and Innovation

### Finance (15)

- Career Exploration in Finance
- Fundamentals of Bitcoin & Cryptocurrency
- Intuit Personal Finance +
- Personal Finance
- Quickbooks +

### Education & Training (18)

- Early Childhood Education I +
- Early Childhood Education II +
- Education & Teaching Advanced
- Teaching as a Profession

### Health Science (20)

- Career Exploration in Dentistry Career
- Exploration in Healthcare
- Healthcare Management & Information Systems +

### Information Technology (21)

- Cybersecurity
- Fundamentals to Blockchain & Cryptography
- Java SE 8 Associate +
- Networking +
- Swift App Development+

### Marketing (24)

- Meta Social Media +
- Social Media Business Marketing +

### STEM (25)

- Aeronautics and Space Travel
- Augmented and Virtual Reality Applications
- Cloud Technologies and the Internet of Things
- Introduction to Artificial Intelligence
- Robotics: Applications and Careers
- Smart Cities: Technology & Applications
- Transportation Technologies
- Wearable Technology Innovations

### Additional CTE Electives (29)

- Career Exploration
- Career & Financial Management
- Drones: Remote Pilot +
- Project Management +
- The History of Gaming and Esports

## Career and Technical Education Course Descriptions

# Architecture and Construction

### Architectural Design I

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In Architectural Design I, students will review various concepts used in the design and architecture field. They will learn about basic drafting equipment and how to use and maintain it. They will analyze challenges and solutions within the development of design. They will also learn how to prepare drawings manually and using AutoCAD software. A substantial portion of the course will be spent on sequential processes so that students develop an understanding of creating and annotating drawings as well as how to apply standard rules regarding line types, offset objects, creating layers, and setting up a page for plotting. They will also explore three-dimensional drawing and use coordinating and navigation systems to create them.

**Course Materials:** AutoCAD required

### Architectural Design II

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The Architectural Design II course provides specific methodologies used within the field of architecture as well as creative ways to think about and solve design challenges. Students will complete work using AutoCAD software aligned with objectives on the Autodesk Certified User (CAD) Certification exam, including basic drawing skills, modifying objects, annotating drawings, using layouts and printing, and applying accurate skills in dimensioning and scale. In later modules, students will study the built environment by learning about pioneers of architecture and engineering, architectural and engineering design feats, and how architecture and design is and will continue be influenced by innovative technology.

**Course Materials:** AutoCAD required

### Architectural Design III

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The focus of Architectural Design III course is to identify the common sequential processes used in computer-aided drafting (CAD). These processes will provide students with the foundation of creating drawings in CAD software including the use of lines, circles, arcs, text, varied text styles, multi-leaders, dimensions, dimension styles, crosshatching, object property commands, arrays, reference angles, layers, page setup, reusable content, and gradient patterns. Students will also explore concepts of ethics and legal responsibilities. They will identify how policies and procedures are used to develop company culture and professional standards. Students will have the opportunity to investigate career opportunities in the drafting professions. They will learn about the importance of developing a digital portfolio from their academic and professional experience. The course will culminate with a project that utilizes the processes they've learned in their readings.

**Course Materials:** AutoCAD required

### Building Maintenance Technology I

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The Building Maintenance Technology course will focus on all aspects of the construction industry from health and safety to the tools that every construction professional needs in their collection. They will learn about the various roles in the industry as well as job outlooks, educational and experiential requirements, and salary information. Some activities will focus on career exploration to discover career options that best align with interests and talents. Students will learn basic construction math and how it is applied during design and building phases of projects. They will learn specifics about carpentry, construction drawings, framing floor systems, framing walls, and framing roofs. Throughout, they will establish a foundation for what opportunities exist for them in the industry.

## Career and Technical Education Course Descriptions

# Architecture and Construction

### Building Maintenance Technology II

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The Building Maintenance Technology II course examines the multi-faceted construction industry. Students will explore contract documents and how each is pertinent to establishing business relationships with designers, clients, and other stakeholders. They will identify what goes into building a successful contract and how estimates, costs, and timeframes are estimated and calculated. Drafting techniques using CAD and BIM technology will also be discussed, specifically pertaining to how these technologies have transformed the building industry. Several logistical components like zoning, property lines, property setbacks, site elevations, calculating materials and labor costs, and establishing construction schedules are critical to the building process. Students will discover the impact of the built environment on the natural environment and how it has evolved over many years. Finally, students will learn about issues related to sustainability and creating more environmentally-friendly practices, procurement, and techniques in the construction industry.

### Construction Fundamentals and Careers

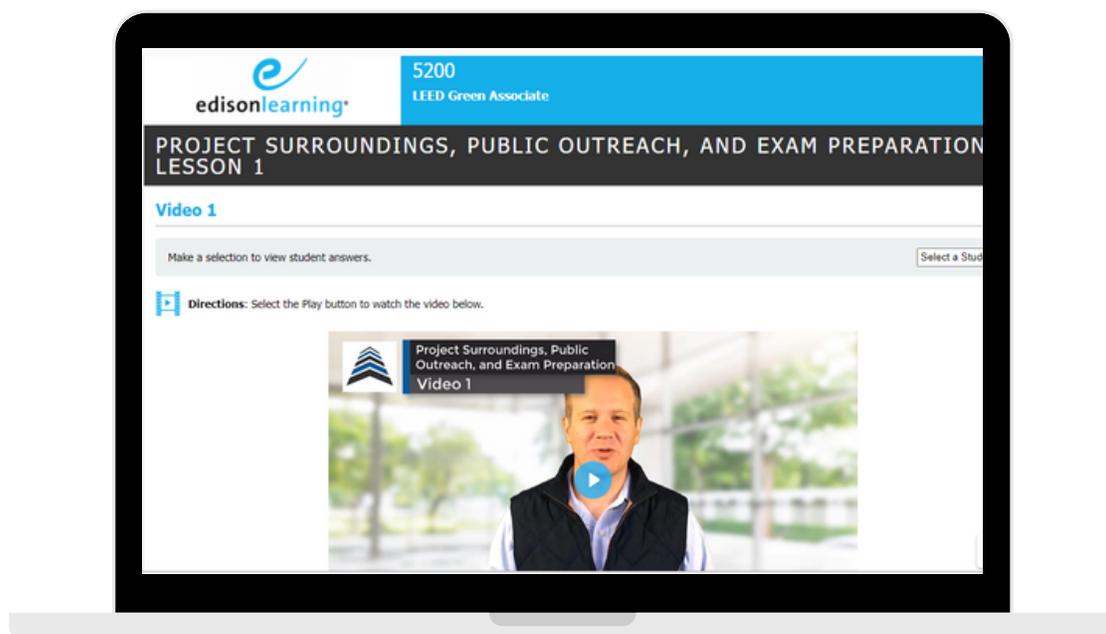
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This course introduces students to some of the foundational elements of home construction and then does a deep dive into careers, technology, and the future of home construction. It also addresses some of the academic proficiencies that different careers in the field of home construction will have to have. Later in the course, specific careers, career outlooks, and specialized education and training requirements will be covered. Students will discover the varied roles within the field as well as what it takes to own a construction company. Finally, the course delves into green construction and where the future of construction is headed.

### LEED Green Associate

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This course introduces students to the LEED process. LEED, or Leadership in Energy and Environmental Design, is the global standard for green building certification. Throughout the course, students will gain an understanding of the various components of green building. The theme of sustainability and sustainable construction is woven throughout each module both in terms of physical environment and as it pertains to LEED certification.



## Career and Technical Education Course Descriptions

# Agriculture, Food & Natural Resources

### Agriscience I

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This course will prepare students for careers in agriscience. Agriculture is the world's largest industry, so the critical nature of understanding how agriculture must thrive in unpredictable conditions cannot be overstated. Throughout the modules, students will gain an understanding of some of the fundamental issues in agriscience, including safety, environmental factors such as climate change and extreme weather conditions, plant and animal science, and food safety. Additionally, students will explore how they can emerge as leaders in such a complex and exciting industry!

### Agriscience II

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In this course, students will explore the various components of agriscience careers and agricultural living. Beginning with career exploration, students will become familiar with the vast array of opportunities that exist in agriscience. They will discover what is necessary for the proper care and management of livestock from keeping living quarters clean to caring for newborn animals. Students will understand the ways in which plants, crops, and vegetation thrive in varying conditions. They will explore the fundamentals of running a successful agriscience operation as well as how agriscience affects and is affected by global economic conditions.

### Agriscience III

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This course further delves into agriscience as a core global business. Students will explore fundamental business operations and structures as well as financial considerations. Students will understand the nutritional needs of livestock in order for them to be free from disease and be able to thrive in good health. Plants are heavily dependent on proper fertilization, irrigation, and nutrition to prosper. Thus, students will take a comprehensive look at the systems necessary to produce bountiful crops. The course will be rounded out learning about the tools and techniques needed to run an agriscience business and harvest crops.

## Career and Technical Education Course Descriptions

# Arts, A/V Tech & Communication

### Adobe After Effects

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In this course, students will explore the comprehensive Adobe After Effects software. Adobe After Effects is the industry standard for making motion graphics and special effects for presentations, internet content, and video. Both Windows and Mac OS systems can run After Effects, so students will uncover the nuances of working with each. The modules in the course will take students through the creation of a project from defining the audience to organization to publishing their creations.

[Course Materials: Adobe v18 or above required](#)

### Adobe Illustrator

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This course introduces students to Adobe Illustrator and prepares students to take the Adobe Professional Certification for Illustrator. Students will get an insight into what it is like working in the graphic design industry. Students will learn everything from absolute basics like navigating Illustrator to performing complex tasks like managing colors, drawing, creating illustrations, and much more. The course contains guided video tutorials, hands-on projects, and step-by-step resources that help students learn how to work in Illustrator.

[Course Materials: Adobe v18 or above required](#)

### Adobe InDesign

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This course introduces students to Adobe InDesign and prepares students to take the Adobe Professional Certification for InDesign. Students will get an insight into what it is like working in the print and digital media publishing industry. Over 10 modules, students will learn everything from absolute basics like navigating InDesign to performing complex tasks like creating multi-page documents, applying effects, and even creating original artwork. The course contains guided tutorials, do-it-yourself projects, and great resources that will help students practice and learn how to work in InDesign.

[Course Materials: Adobe v18 or above required](#)

### Adobe Photoshop

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This course introduces students to the world of Adobe Photoshop and prepares students to obtain the Adobe Certified Professional Certification for Adobe Photoshop. Students will get an insight into what it is like working in the visual and graphic design industry. Over 11 modules, students will learn everything from absolute basics like navigating Photoshop to performing complex tasks like editing and retouching photos, applying filters and effects, and even creating original artwork. The course contains guided tutorials, do-it-yourself projects, and great resources that will help students practice and learn how to work in Photoshop.

[Course Materials: Adobe v18 or above required](#)

### Adobe Premiere Pro

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This course introduces students to the world of Adobe Premiere Pro. Students will get an insight into the video design and production industry. Over 7 modules, students will progress from absolute basics like navigation to performing complex tasks like editing videos, applying filters and effects, and even creating original artwork. The course contains guided tutorials, engaging projects, and great resources that will help students practice and learn how to work in Premiere Pro. This course also prepares students for the Adobe Certified Associate Certification Exam on Premiere Pro.

[Course Materials: Adobe v18 or above required](#)

## Career and Technical Education Course Descriptions

# Business Management & Administration

### Communication Skills for Business

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Communication is not just about words; it's about understanding, connection, and influence. This comprehensive course is designed to provide students with a solid foundation in essential communication principles. It will equip them with tools and strategies needed to excel in the world of business. This course focuses on basic communication principles, strategizing for effective communication, applying best practices for business deliverables, delivering and receiving communication, and analyzing business communication scenarios. Students will emerge as more effective and persuasive communicators, capable of navigating the complexities of modern business communication with finesse.

### Entrepreneurship and Small Business

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This course will prepare students for certification in Entrepreneurship and Small Business. The modules are designed to cover all aspects of entrepreneurship including traits of successful entrepreneurs, business management, hiring employees, creating a company culture, managing finances, and marketing products and services. Each module will challenge students to put themselves in the role of an entrepreneur and consider how they will handle the extensive responsibilities of starting a business.

### Microsoft Excel

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This course introduces students to the world of Microsoft Excel. Students will get an insight into the use of the product within the business setting. Over 8 modules, students will learn everything from absolute basics like navigating Microsoft Excel to performing complex tasks like formulas and functions. This course prepares students for the Microsoft Office Associate Microsoft Excel Certification.

Course Materials: [Microsoft 365](#)

### Microsoft Outlook

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In this course, students will navigate Microsoft Outlook, which is the preferred email client for sending and receiving emails from the Microsoft Exchange Server. Outlook includes access to contact, email, calendar, and task management tools. Microsoft Outlook is a component of Office 365 and the Microsoft Office suite, including Microsoft Excel and PowerPoint. From fundamental processes like adding an account to more complex tasks such as customizing features to better accommodate specific needs, students will explore all that Microsoft Outlook can do.

Course Materials: [Microsoft 365](#)

### Microsoft PowerPoint

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This course introduces students to the world of Microsoft PowerPoint. Students will get an insight into the use of the product within the business setting. Over 11 modules, students will learn everything from absolute basics like navigating Microsoft PowerPoint to performing complex tasks like 3D Models, Animations, and Transitions. This course prepares students for the Microsoft Office Associate Microsoft PowerPoint Certification.

Course Materials: [Microsoft 365](#)

## Career and Technical Education Course Descriptions

# Business Management & Administration

### Microsoft Word

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This course introduces students to the world of Microsoft word. Students will get an insight into the use of the product within the business setting. Over 11 modules, students will learn everything from absolute basics like navigating Microsoft Word to performing complex tasks like graphic elements and collaboration. This course prepares students for the Microsoft Office Associate Microsoft Word Certification.

Course Materials: [Microsoft 365](#)

### Microsoft Word Expert

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The Microsoft Word Expert course delves into the advanced functionalities of Microsoft Word, empowering participants with comprehensive knowledge and skills to master this essential word-processing tool. Throughout the course, participants will explore intricate features such as advanced formatting, styles, and document automation. By dissecting complex document structures and harnessing the power of macros and templates, participants will gain proficiency in optimizing their workflow and producing professional documents with efficiency. This course is designed for individuals seeking Microsoft Word Expert certification and to elevate their Microsoft Word proficiency, unlocking the full potential of this indispensable application for personal and professional endeavors.

Course Materials: [Microsoft 365](#)

### Startups and Innovation

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Students hear a lot of contradictory advice in life. On one hand, they may hear something like “Follow your dreams. Pursue your passion and the money will come!” On the other hand, they may hear something completely opposite, like “Most startups fail! It’s much safer to get a safe, steady job.” So which side is right? Given the massive changes to the economy and society, the skills of entrepreneurship are going to be critical in building a lasting career. The entrepreneurial mindset of searching for opportunities, creating value, and solving pain points will always be valuable. And this mindset applies not just to starting a business, but in any organization that someone is a part of: school, established companies, or non-profits. In this course, students will explore how to use this mindset to create the next world-class startup.

## Career and Technical Education Course Descriptions

# Finance

### Career Exploration in Finance

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This course introduces students to the challenging and lucrative world of finance. While “Wall Street” may still get a bad rap after the 2008 financial crisis, finance careers still remain highly sought after and can be highly rewarding. The course reviews key financial terms and examines various groups, positions, and roles within financial institutions. Students will learn about resumes, interviews, and networking. Students will also discuss ethics on Wall Street and the role of finance within society.

### Fundamentals of Bitcoin and Cryptocurrency

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In this course, students will learn all about bitcoin, including its history, development, and context within the modern global economy. Students will learn the basic cryptographic principles that underlie bitcoin, and gain confidence by demonstrating strong security principles in storing and transacting bitcoin. Key principles such as mining, wallets, and hashing will be introduced. And finally, they will be familiarized with the nascent industry of digital currencies and how they function.

### Intuit Personal Finance

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Navigating the intricate world of personal finance can seem daunting, but this course is here to guide students step by step. From understanding big picture topics like goals and risks, to detailed nuances of paystubs, taxes, and credit scores, students will grasp the essentials to kickstart their financial journey. Students will also prepare for their financial future by learning about loans, banking, investing, and much more. Beyond the invaluable financial insights, this course prepares students for the Intuit Personal Finance certification, equipping them to confidently showcase their newfound knowledge.

### Personal Finance

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The Personal Finance course is intended to prepare students to be successful financial citizens. They will learn their role and responsibilities as a responsible financial planner and saver as well as learn about the services, functions, and products of the financial industry. In addition, they will make informed buying decisions and understand personal taxation, wills, insurance, and contracts. Finally, they will learn about saving and investing as well as consumer credit and loans.

### QuickBooks

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In this course, students will explore how to start using QuickBooks Online. Learning this widely used accounting software will allow users to contribute to a large company’s accounting team, or to use it independently as a small business owner. Students will learn how to complete administrative and accounting functions within QuickBooks. These include basics such as setting up lists, customers and products, to more complex tasks like managing journal entries and creating reports. Additionally, they will learn about the various services and products that can be added. As students learn about the accounting functions, they will discover how to record transactions, expenses, and receipts.

[Course Materials: QuickBooks](#)

# Career and Technical Education Course Descriptions

## Education & Training

### Early Childhood Education I

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The Early Childhood Education I course is designed to provide an overview of the expectations and roles of the early childhood educator. The course provides details about childhood development, health, nutrition, and guidance strategies to help students understand the exciting and unique opportunities that a career in early childhood education can offer. The course is intended to prepare students for challenges they may face, but to emphasize the rewards of being able to influence the life of a young child. The ability to offer support to children as they learn, and grow is a point that is highlighted throughout each lesson.

### Early Childhood Education II

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The Early Childhood Education II course is designed to provide an overview of the professional expectations of being an early childhood educator. Throughout the course, students will learn about what it means to be a professional, including the significance of professional development in any educational role. They will review observational methods and the history of education in the United States, with a focus on early childhood and school-age programs. They will spend a significant portion of the course learning about the importance of Developmentally Appropriate Practice (“DAP”) and how to implement DAP strategies. Designing physical, social, and temporal environments will also be a major focus of the course, as will developing relationships with families and communities to strengthen their position and knowledge.

### Education & Teaching Advanced

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This course is designed to prepare future educators for the classroom they will inherit! It starts with a history of education and how blended, adaptive, and personalized learning are coming to the forefront in learning. It then explores new and emerging technologies, along with their current and future impact on education. Throughout the course, students will explore a wide range of career possibilities in the education field and evaluate both the promises and pitfalls of technology in education.

### Teaching as a Profession

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Teaching can be a highly rewarding profession. Throughout the course, students will explore career opportunities within the field of education. They will learn what it means to be a professional in the classroom, whether it be working alongside co-teachers or managing an inclusive and diverse group of students. Students will learn about the code of conduct expected of educational professionals. Students will explore the history and best practices in the teaching profession as well as professional development opportunities. They will discover what it means to emerge as leaders in the field.

## Career and Technical Education Course Descriptions

# Health Science

### Career Exploration in Dentistry

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This course introduces students to the exciting and varied career opportunities in the dentistry profession, from dental assistant all the way up through oral surgeon. Students will review the history of dentistry globally and in the U.S., and will learn key dental terminology. The course will introduce the roles and tasks done as well as skills and education required of nearly every member of the dental staff. Students will gain an understanding of what it takes to perform each position, and how they work together.

### Career Exploration in Healthcare

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This course introduces students to the exciting and varied career opportunities in the health care industry that will be in demand in their future! The course will introduce the roles and tasks, identify education and skills needed, identify responsibilities of roles which support or supervise their role, analyze legal and ethical responsibilities, limitations, and implications for each of these professions. Get ready. Get set. Learn about the Future of Health Care Careers!

### Healthcare Management and Information Systems

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In this course, students will explore the comprehensive world of healthcare information and management. Throughout the modules, students will learn about the history of the healthcare system as well as the current best practices in the field. They will explore the innovative technologies being developed and applied in patient care and patient privacy. Students will become familiar with the specific terminology utilized within the clinical and information technology systems. Students will investigate the complexities of the business of healthcare including data organization and security considerations. Finally, students will identify the ways in which communication and leadership go hand in hand with a thriving career in healthcare information and management systems.

## Career and Technical Education Course Descriptions

# Information Technology

### Cybersecurity

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In the Cybersecurity course, students will learn about the practice of protecting networks, systems, and programs from digital attacks. They will better understand the aim of these attacks, such as destroying information, extorting money and resources, or disrupting business operations. They will learn about the challenges and opportunities that implementing cybersecurity measures can present. As attackers become more innovative, it is more important than ever to have effective cybersecurity channels in place to counter them. Students will learn about countermeasures and role recovery and their integral function in the cybersecurity realm. Additionally, students will learn what makes certain networks and systems more vulnerable to attacks. They will become adept at identifying potential viruses, worms, threats, and malware. The Cybersecurity course acts as a foundation on which to build extensive knowledge about threats to digital security.

### Fundamentals of Blockchain and Cryptography

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Blockchain seems to be the latest buzzword that the business world is taking about. But what is it? And why should a high school student care? This course will seek to answer those questions. It will strip away the layers of complexity and sophistication to help students understand the key concepts of the blockchain. The course will introduce and discuss applications where blockchain has the greatest potential.

### Java SE8 Associate

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This course introduces students to the world of Java SE8. Students will get an insight into the fundamentals of Java programming. Over 9 modules, students will learn everything from absolute basics like learning about Java class, variables, and how to run a Java program, to handling arrays and exceptions. The course contains guided tutorials, do-it-yourself projects, and great resources that will help students practice and learn how to program in Java. After completion of this course, students will be prepared to take either the Java SE 8 Oracle Certified Associate (OCA) certification exam or the Information Technology Specialist in Java certification exam.

**Course Materials:** [Java SE8](#)

### Networking

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The Networking course is intended to identify the key components of Networking in today's fast-moving world. From network fundamentals to automation and programming, students will learn the details of network access, IP connectivity and services, and security fundamentals. Through exciting and engaging interactivities, simulations, and projects students will explore firsthand these networking concepts to further their future with preparation for the Cisco Certified Network Associate (CCNA) exam.

### Swift App Development

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In this course, students will learn about Swift App development and its components. Apple developed the powerful and user-friendly programming language Swift for creating iOS, Mac, Apple TV, and Apple Watch apps. Developers have more freedom than ever before, and the open-source app allows anyone with an idea to create something incredible. From planning to navigation to building, students will learn how to take an idea and create something potentially revolutionary!

**Course Materials:** [Java SE8](#)

## Career and Technical Education Course Descriptions

# Marketing

### Meta Social Media

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This course aims to equip participants with a deep understanding of Meta technologies and their practical applications. The course delves into establishing a robust online presence through effective strategies for audience engagement and fostering business growth. Participants will learn to assess and set ad campaign budgets using Meta Ads Manager, implement structured marketing schedules, and proficiently create and modify Facebook pages. Additionally, participants will gain insights into utilizing Facebook and Instagram business accounts, creative functionalities, and communication tools for effective customer engagement. The course extends its focus to WhatsApp Business accounts, Meta Business Suite, and the strategic integration of advertising goals with business objectives. Throughout the course, students will develop proficiency in utilizing Meta Ads Manager for audience segmentation, ad placement, and strategic deployment of creative elements. The curriculum also covers Meta Pixel and Conversions API applications, data analysis, and privacy settings across Facebook, Instagram, WhatsApp, and Messenger. With a strong emphasis on compliance, the course addresses common reasons for ad rejection, ensuring participants are well-versed in navigating the evolving landscape of Meta social media platforms.

### Social Media Business Marketing

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The Social Media Business Marketing course is intended to prepare students to become Social Media Strategists. This course begins with an introduction to Social Media platforms and then goes in depth into the marketing and advertising strategies used to support a business in Business Social Media Marketing. Through activities and projects students will gain firsthand knowledge of this fulfilling field. This course prepares students for the Social Media Strategist certification.

## Career and Technical Education Course Descriptions

# STEM

### Aeronautics and Space Travel

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This course introduces students to the history and near future of space travel. Students will explore the possibilities of moon bases, Mars colonies, and visiting the outer planets in our solar system and their moons. Students will also discuss important ethical and legal issues around space exploration, such as asteroid mining and war in space. The course gives an expansive view of the technologies, science, and theories that will make far-fetched dreams into realities during the student's lifetime.

### Augmented and Virtual Reality Applications

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Separating hype from reality is hard... especially in the fast-growing and evolving space of augmented and virtual reality (AR/VR). Recent advances in technology has allowed AR/VR systems to become extremely sophisticated and realistic. This course introduces students to the technologies that underpin AR/VR systems. Then the course walks through 7 applications of AR/VR and how they will change and impact numerous aspects of our lives and the economy. Students will also learn about and discuss the risks and side effects of these systems, including health, privacy, and ethical implications.

### Cloud Technologies and the Internet of Things

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First, we had the internet of computers. Then with the advent of email and social media, along with mobile technology, it became the internet of people. Today's world is increasingly becoming the internet of things. With advances in battery power, sensors, and computer chips, more and more devices are being connected to the internet. This will allow them to be monitored, controlled, and used more effectively for people and businesses. This course will examine the trends and opportunities surrounding the Internet of Things (IoT). Students will learn about the technologies, hardware, and software that underpin the Internet of Things. The course will examine a variety of end-market applications in our homes, businesses and cities. Finally, students will learn about the many career opportunities that the Internet of Things will enable.

### Introduction to Artificial Intelligence

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This course teaches what every student should know about Artificial Intelligence. AI is a fast-moving technology with impacts and implications for both our individual lives and society as a whole. In this course, students will get a basic introduction to the building blocks and components of artificial intelligence, learning about concepts like algorithms, machine learning, and neural networks. Students will also explore how AI is already being used, and evaluate problem areas of AI, such as bias. The course also contains a balanced look at AI's impact on existing jobs, as well as its potential to create new and exciting career fields in the future. Students will leave the course with a solid understanding of what AI is, how it works, areas of caution, and what they can do with the technology.

### Robotics: Applications and Careers

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It seems like many elementary to high school robotics courses are focused on simply coding a Lego robot to move its mechanical arm up and down. This course, in contrast, teaches students what a robot is and how it relates to other key technologies such as artificial intelligence and machine learning. Then the course examines 10 applications of robots and how they will change and impact various aspects of our lives and the economy. Will robots simply steal our jobs, or will they be a tool that will create new opportunities and even free humans to use our creativity and curiosity to their full potential? Students will grapple with this and many other questions as they explore this vital, future-focused subject.

## Career and Technical Education Course Descriptions

# STEM

### Smart Cities: Technology & Applications

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This course will provide students with an overview of smart cities. The course will begin by providing a foundational explanation of what constitutes a smart city and why they are beginning to pop up around the globe. With a firm understanding of what a smart city is, the majority of the course will focus on various aspects of them such as energy, transportation, data, infrastructure, mobility, and IOT devices. The course will conclude with an analysis of careers related to smart cities.

### Transportation Technologies

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This course introduces students to the newest and most cutting-edge futuristic transportation technologies out there. Students gain familiarity with the history of transportation development and understand a framework with which to evaluate new transportation modes. Then the course dives into 10 different technologies on the horizon. Students examine the technologies, the pros and cons of each mode, and explore potential career paths in these emerging fields.

### Wearable Technology Innovations

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From hearing aids to pedometers to smart watches, humans have made and worn devices to overcome physical deficiencies, count their steps, and communicate. With the continue miniaturization of chips and sensors, combined with increasing sophistication of artificial intelligence, wearable technology has proliferated into countless end-markets. This course will introduce students to wearable technologies and the components and software that make these technologies possible. The course will also evaluate several applications of wearable technologies in various industries. Finally, the course will examine and discuss the implications of wearable technology, including its pros and cons, and potential implications to our health, privacy, and society.

## Career and Technical Education Course Descriptions

# Additional CTE Electives

### Career Exploration

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In this course on Career Exploration, students will learn about various career clusters and their associated pathways. The course consists of 16 modules covering each pathway. Students will research both the national career clusters and explore opportunities within their state. They will learn about the types of places that employ individuals in their respective career pathways, as well as the variety of tasks performed by professionals in those fields. The course covers the skills, abilities, and talents required for success in these careers, along with the level of training and education necessary. Additionally, students will conduct research and create projects on a specific career within each cluster.

### Career Exploration & Financial Management

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The Career and Financial Management course prepares students to make decisions regarding their life, career, and financial future. Throughout the course, they will investigate a variety of career pathways and determine how to make decisions that will affect their employment opportunities. Students will identify career readiness skills, and how education opens up opportunities for advancement and growth. Through lessons on leadership, communication, and technology, students will better understand the modern workplace. The second half of the course focuses on money management, and includes critical topics such as budgeting, saving, loans and credit, identity protection, investing, insurance, and taxes.

### Drones: Remote Pilot

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This course prepares students to take the Federal Aviation Administration (FAA) Part 107 exam, also known as the Unmanned Aircraft General – Small (UAG) exam, which is essential to becoming a commercial drone pilot. The field of unmanned aerial vehicles is growing rapidly, as the opportunities to use them for search and rescue, photography, recreation, inspection, and many others continue to multiply. Students will learn the critical facts to prepare for the test's topics, which include: regulations, airspace & requirements, weather, loading & performance, and operations. The course will conclude with a look at the most promising careers in the field of drones.

### Project Management

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The Project Management course is intended to identify the key components of a career as a project manager. Students will review the basics in project management terminology, such as designating distinctions among projects, products, programs, and portfolios. They will delve into concepts like managing deliverables and creating engaging relationships with stakeholders. The primary components of project planning will be laid out and described in detail. Students will explore teams and organizational structures. They will discover project management tools and innovation being used in the industry. Overall, they will develop a greater understanding of the mechanisms that are in place to effectively carry out projects of any size through specific project management techniques.

### The History of Gaming and Esports

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In this course, students will learn about the technologies and design principles that have been the foundation of the development of video game technology over the last 50 years. Students will examine and discuss the impact of video games on culture and the economy. Students will learn about the current gaming and e-sports landscape, including strategies and techniques of top teams and individuals. This course will also discuss the risks and dangers of video games and understand how to set appropriate time and content parameters. Finally, the course will identify career paths and opportunities for those who are passionate about gaming.

# Certification Pathways

Empower students to explore career and technical skills through career pathways that prepare them for industry certifications. After students complete the certification PREP course, they are better prepared to take the applicable certification exam.

Course details and modules are built to prepare students for their exam. Learn more about each course and their corresponding certification exam.

eCourse	Certification Exam
Adobe After Effects	Adobe Certified Professional
Adobe Illustrator, InDesign, Photoshop	Adobe Certified Professional
Adobe Premiere Pro	Adobe Certified Professional
Architectural Design I & II	Autodesk Certified User in AutoCAD
Building Maintenance Technology II	OSHA 30 Hour Construction
Drones: Remote Pilot	FAA Part 107 Commercial Drone Pilot
Early Childhood Education I & II	Child Development Associate (CDA)
Entrepreneurship & Small Business	Entrepreneurship and Small Business (ESB)
Healthcare Management Information Systems	Certified Associate in Healthcare Management & Information Systems
Java SE 8 Associate	Oracle Certified Associate in Java Information Technology Specialist in Java
LEED Green Associate	LEED Green Certified Associate
Microsoft Excel, Outlook, PowerPoint, Word	Microsoft Office Specialist/Associate
Networking	Cisco Certified Network Associate (CCNA)
Project Management	Certified Associate in Project Management Project Management Ready
Social Media Business Marketing	Social Media Strategist
Swift App Development	Swift Associate
QuickBooks	Intuit QuickBooks Certified User Online

## Promoting Student Ownership Through Career Education

**Virtual Learning Academy Charter School**  
Exeter, New Hampshire

### School Profile

- State-approved charter school
- Public school
- 501(c)(3) non-profit organization

### Challenge

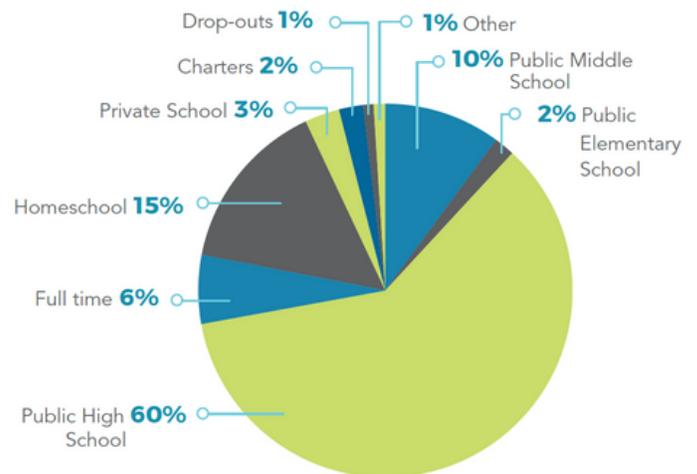
The Virtual Learning Academy Charter School (VLACS) seeks to promote student ownership of their education by complementing their customized, competency-based learning model with additional career education offerings. By expanding options, they aim to further encourage students to pursue their interests, talents, and passions.



"Thank you for all the time you put into teaching me in this class. I appreciate it so much, and I've learned an unimaginable amount of things that I will continue to use as I get into these fields."

**VLACS Student**  
High School Senior

### Student Statistics



### Solution

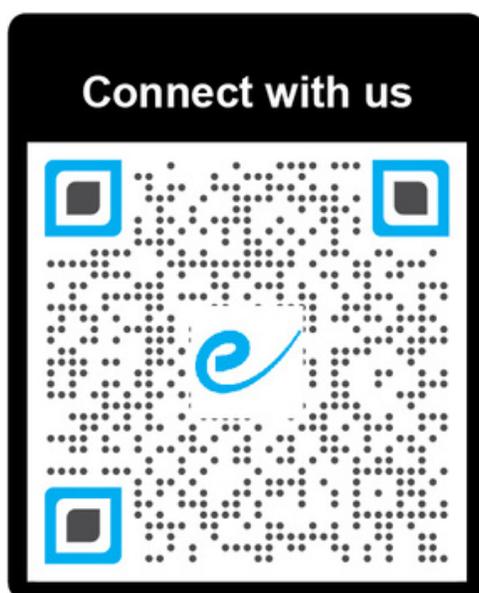
With Career and Technical Education (CTE) eCourses, VLACS provided students with an opportunity to explore career-related subjects, while empowering them to recognize the limitless job opportunities they can seize. VLACS rewards every student who completes a CTE course with a digital badge.

### Outcome

The CTE courses have made it possible for VLACS students to expand their career education and apply what they learn to real-world experiences. VLACS teachers enjoy seeing the growth of students' abilities through the courses and find that students enrolled in these courses are invested in the field and find the information useful and the assignments relative.

# Get started with EdisonLearning eCourses<sup>®</sup> and services today!

To learn more or connect with a team member, scan here:



[www.edisonlearning.com](http://www.edisonlearning.com)

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