K12 Course Catalog
2024–2025

CAREER READINESS EDUCATION

Course Name ⬇	Subject	Course Description
AGR020 Introduction to Forestry & Natural Resources	Career Readiness Education	Forests and other natural resources play an important role in our world, from providing lumber and paper products to providing habitat for birds and animals. In the Introduction to Forestry and Natural Resources course, you'll learn more about forest ecology, management, and conservation. You'll explore topics such as environmental policy, land use, water resources, and wildlife management. Finally, you'll learn more about forestry related careers and important issues facing forestry professionals today.
AGR030 Principles of Agriculture, Food, and Natural Resources	Career Readiness Education	Food has to travel from the farm to the table, and in Principles of Agriculture, Food, and Natural Resources, you will learn about all of the steps in that journey, beginning with the history of agriculture through animal husbandry, plant science, and managing our use of natural resources. In this course, you will receive a broad understanding of the subject matter, preparing you for future hands-on learning, participation in Future Farmers of America, and supervised agricultural experiences.
AGR040 Intro to Energy & Natural Resource Tech	Career Readiness Education	The Energy & Natural Resource Technology course examines the interrelatedness of environmental issues and production agriculture. Students will evaluate the environmental benefits provided by sustainable resources and green technologies. Instruction is designed to allow for the application of science and technology to measure environmental impacts resulting from production agriculture through field and laboratory experiences.
AGR105 Agriscience 1: Introduction	Career Readiness Education	The word "agriculture" often evokes images of farms, fields, and livestock, and while all of these representations are correct and essential, the field of Agriculture is so much more! In Agriscience I: Introduction, you'll explore how agriscientists play key roles in improving agriculture, food production, and the conservation of natural resources along with the technologies used to keep the field thriving. Are you ready to explore the diverse careers in agriscience and how you can prepare to positively impact the planet? Let's get growing!
AGR110DE3-PBL Agribusiness	Career Readiness Education	This course is a Project Based Learning course (PBL). This course is designed to introduce students to the management concepts needed to manage an agricultural related business in today's competitive market. Students will maintain and use financial records, practice communication skills, learn economic principles, and sales in agriculture. By completing this course students will have gained an understanding of the business principles used in the agriculture industry from production to retail.
AGR200 Energy & Environmental Design	Career Readiness Education	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."

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AGR210E3 Intro to Food & Safety Science	Career Readiness Education	This food and safety science course discusses the methods and skills needed to run a safe, healthy, and efficient food production operation and the science behind food production. The course covers topics such as chemical processes in food science, food handling, sanitation, food packaging, and foodborne illnesses. This course utilizes a combination of presentations, videos, activities, and projects to cover the necessary material to understand the foundations of food science and food safety measures
AGR211AE4 Poultry and Livestock Production	Career Readiness Education	This course discusses the foundational elements of poultry and livestock production. It covers the skills needed for employment in this field and explains how to apply this knowledge at work. Students will learn about the history and practices of the livestock industry, livestock production, and related environmental issues. In addition, this course provides detailed discussion of animal anatomy, nutrition, and reproduction.
AGR211 General Agriscience 2	Career Readiness Education	Coming Soon
AGR220E3 Food Technology	Career Readiness Education	This course is designed to enable students to explore the food technology industry. The course covers food preservation, packaging, and quality factors that contribute to the sustainability of the industry. In addition, the course covers how seafood, poultry, dairy, fruits and nuts, and vegetables are produced, classified, and graded to meet required guidelines. The role value-added and specialty products play in the retail market, as well as food math and measurements are also discussed.
AGR230 Principles of Plant Science	Career Readiness Education	This is a one-year course designed to explore the plant and soil science industry. Topics covered include, but not be limited to, agriculture careers, plant evaluation, fertilizers and soil amendments, scientific classification of plants, plant anatomy, plant processes, plant propagation, pesticides and herbicides, plant pests, soil conservation, and crop production in the United States.
AGR233 Plant & Soil Science	Career Readiness Education	This course teaches students about the science and management of plants and soils. Topics covered include plant anatomy, classification, propagation, genetics, and nutrition. Students will also learn about the composition, health, quality, and fertility of soil. Furthermore, this course discusses methods used to test soil, control pests, improve crop production, and design landscapes.
AGR240 Wildlife, Fisheries, & Ecology Management 1	Career Readiness Education	This course is designed to enable students to explore various career opportunities within the Agriculture Cluster. This course covers ecological principles, environmental resources, habitat conservation, habitat management, and more.
AGR241 Wildlife, Fisheries, and Ecology Management 2	Career Readiness Education	This course is designed to enable students to explore various career opportunities within the Agriculture, Food, and Natural Resources Cluster, such as the Natural Resources Systems Pathway. The course covers waterfowl identification, ecology, and conservation and management. In addition, the course covers subjects related to common diseases and parasites of wildlife, wildlife and habitat management, and hunting and fishing regulations. Aquaculture management, aquaculture plant and animal species, propagation of aquatic plants, nutrition of aquatic species, and marketing aquaculture products are also discussed.

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AGR310E2 Agricultural Mechanics 1	Career Readiness Education	This course provides a thorough introduction to agricultural mechanics, covering fundamental mechanical and engineering theory, common tools and materials, and a wide range of practical applications. The course also covers essential topics such as career opportunities, shop orientation and procedures, woodworking and metal working, tool fitting, project planning, cutting and welding, paints and paint application, power mechanics, electrical wiring, plumbing, hydraulics, concrete and masonry, and agricultural structures.
AGR310E3 Agricultural Mechanics & Metal Tech 1	Career Readiness Education	This course discusses agricultural mechanics and metal technology. It includes the skills needed to work in the agricultural field, including basic safety skills, tool terminology and identifying tools' uses, construction, and project management skills.
AGR320E3 Agricultural Mechanics & Metal Tech 2	Career Readiness Education	This course continues to delve into agricultural mechanics and metal technology. It includes the skills needed to work in the agricultural field, including basic safety skills, tool terminology and identifying tools' uses, construction, and project management skills.
AGR330E2 Agricultural Mechanics 3	Career Readiness Education	This is the third semester of Agricultural Mechanics. This course provides a thorough introduction to agricultural mechanics, covering fundamental mechanical and engineering theory, common tools and materials, and a wide range of practical applications. The course also covers essential topics such as career opportunities, shop orientation and procedures, woodworking and metal working, tool fitting, project planning, cutting and welding, paints and paint application, power mechanics, electrical wiring, plumbing, hydraulics, concrete and masonry, and agricultural structures.
AGR330E3 Agr Mechanics & Metal Tech 3	Career Readiness Education	Coming Soon
BUS020 Introduction To Restaurant Management	Career Readiness Education	Have you always dreamed of running your own restaurant? Maybe you want to manage a restaurant for a famous chef. What goes on beyond the dining room in a restaurant can determine whether a restaurant is a wild success or a dismal failure. In Restaurant Management, you'll learn the responsibilities of running a restaurant—from ordering supplies to hiring and firing employees. This course covers the different types of restaurants; managing kitchen and wait staff; food safety and hygiene; customer relations; marketing; using a point-of-sale system; scheduling employees; and dealing with difficult guests. Restaurant Management will prepare you for a steady career, whether you plan to buy a fast food franchise, operate a casual sit-down restaurant, or oversee a fine-dining establishment.
BUS024E3 Principles of Business, Mktg, Finance 1	Career Readiness Education	Discover the fundamental knowledge that will help you pursue a career in business, as well as always generating interest and buzz around the products and services offered. Explore different types of businesses and ownership forms, the impact of governments on business, and the marketing of goods and services. Learn about globalization, free trade, and various economic systems, as well as the impact of technology on business, business ethics, and social responsibility.
BUS025E3 Principles of Business, Mktg, Finance 2	Career Readiness Education	Take your knowledge of business basics, finance, and marketing to the next level. Learn how to create a marketing strategy that promotes and attracts customers in order to sell a product or service. Explore important basics of business finance, including accounting, budgeting, and investing. And learn what careers are available in business and the important employability skills you'll need to ace the interview and land the job!

Course Name ⬇	Subject	Course Description
BUS032 Summit Introductory Finance	Additional Electives, Career Readiness Education	Understanding financial management concepts is an important life skill. From credit to insurance to taxes, it is imperative that students understand the consequences of their choices. Wisely managing their money, students become citizens that are more responsible. A thorough understanding of financial concepts, with practical application through activities and projects, will enable students to leave this course with applicable, useful skills for life. This course surveys the basic personal financial needs of most individuals and emphasizes the basics of budgeting, saving, checking, investments, credit, the wise use of insurance, and paying and preparing income tax returns. After high school, students face a world filled with possibilities, and the more knowledge they can acquire, the higher the probability that their financial future will be secure. Students taking this course will learn to better prepare for their financial futures.
BUS033E2 Consumer Behavior	Career Readiness Education	This course draws key concepts from marketing, psychology, sociology, and anthropology to present a strong foundation and highly practical focus on real-world applications for today's global business environment. This course incorporates current business practices, including extensive coverage of social media influences, increased consumer power, and emerging neuroscience findings. Students also examine controversies in consumer decision-making involving money, goals, emotions, charity, health, materialism, and sustainability. This edition increases its emphasis on social responsibility and ethics in marketing, examining both the dark side and constructive possibilities.
BUS036D Personal Finance CR	Career Readiness Education , Additional Electives	In this introductory finance course, students learn basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society. Students are inspired by experiences of finance professionals and stories of everyday people and the choices they make to manage their money.
BUS045DE2 Entrepreneurship 1	Career Readiness Education	In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to develop new business ideas, attract investors, market their business, and manage expenses.
BUS045DE3-PBL Entrepreneurship 1	Career Readiness Education	This course is a Project Based Learning course (PBL). In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to develop new business ideas, attract investors, market their business, and manage expenses.
BUS055DE2 Entrepreneurship 2	Career Readiness Education	Students build on the business concepts they learned in Entrepreneurship I. Students continue to explore the different functions of business, while refining their technology and communication skills in speaking, writing, networking, negotiating, and listening. The purpose of this course is to prepare students to launch a small business venture.

Course Name	Subject	Course Description
BUS055E3-PBL Entrepreneurship 2	Career Readiness Education	This course is a Project Based Learning course (PBL). Students build on the business concepts they learned in Entrepreneurship I. Students continue to explore the different functions of business, while refining their technology and communication skills in speaking, writing, networking, negotiating, and listening. The purpose of this course is to prepare students to launch a small business venture.
BUS065DE3 Marketing 1	Career Readiness Education	Students find out what it takes to market a product or service in today's fast-paced business environment. They learn the fundamentals of marketing using real-world business examples. They learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.
BUS065DE3-PBL Marketing 1	Career Readiness Education	This course is a Project Based Learning course (PBL). Students find out what it takes to market a product or service in today's fast-paced business environment. They learn the fundamentals of marketing using real-world business examples. They learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.
BUS075DE2 Marketing 2	Career Readiness Education	Students build on the skills and concepts learned in Marketing 1 to develop a basic understanding of marketing principles and techniques. The course encourages students to think like an entrepreneur and begin preparing for a career in business and marketing. By the end of the course, students will understand what it takes to start a small business venture.
BUS075E3-PBL Marketing 2	Career Readiness Education	This course is a Project Based Learning course (PBL). Students build on the skills and concepts learned in Marketing 1 to develop a basic understanding of marketing principles and techniques. The course encourages students to think like an entrepreneur and begin preparing for a career in business and marketing. By the end of the course, students will be prepared to start a small business venture.
BUS080 International Business	Career Readiness Education	From geography to culture, global business is an exciting topic in the business community today. This course helps students develop the appreciation, knowledge, skills, and abilities needed to live and work in the global marketplace. It takes a global view on business, investigating why and how companies go international and are more interconnected. The course further provides students a conceptual tool by which to understand how economic, social, cultural, political, and legal factors influence both domestic and cross-border business. Students explore business structures, global entrepreneurship, business management, marketing, and the challenges of managing international organizations. They also cultivate a mindfulness of how history, geography, language, cultural studies, research skills, and continuing education are important in twenty-first-century business activities.
BUS090E2 Sports and Entertainment Marketing 1	Career Readiness Education	The bright lights. The roaring crowds. The chants and cheers and applause. If you are drawn to the electricity of large events and the challenge of making events successful, a career in sports and entertainment marketing may be for you! In this course, you will trace the development of these industries, dissect their dual nature, and discover what it takes to pitch, promote, and deliver on these services. You 'll also explore the necessary steps to chart your own career path from among the professional roles that these industries need to operate. Let's get off the sidelines and hop into the primetime of the sporting and entertainment worlds!

Course Name ⇟	Subject	Course Description
BUS091 Sports and Entertainment Marketing 2	Career Readiness Education	"Five, four, three, two, one—rest." You've learned what it looks like to work one-on-one with clients as a sports medicine professional, and now it's time to focus on the group. In this course, you will be introduced to teaching group exercise classes and providing rehabilitation services to clients facing injury and disease. You will also learn about laws that govern the work of sports medicine professionals, business concerns like insurance and staffing, and what you need to consider if you start your own fitness facility.It looks like it's time for the next set! Let's get started!
BUS100 Startups & Innovation	Career Readiness Education	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." |
| BUS110 Social Media Marketing | Career Readiness Education | Whether it's posting pictures, videos, or interacting in the metaverse, today's students who aspire to apply their social media skills to business marketing must be prepared! This
course on Social Media Business Marketing provides them with the foundational
knowledge of social media technology and marketing principles. The course begins with
an introduction to Social Media platforms and then goes in-depth into the marketing and
advertising strategies used to support a company's social media strategy and
campaigns. Through activities and projects, students will gain firsthand knowledge of this
exciting field. This course also prepares students for the Social Media Strategist
certification." |
| BUS113DE2 Accounting 1 | Career Readiness Education | This is the first semester of a two semester course. The course teaches accounting while placing emphasis on conceptual understanding and financial statement analysis to encourage students to apply accounting concepts to real-world situations and make informed business decisions. Topics include transactions and methods of accounting for both service and merchandising businesses. Accounting 1 prepares students for the NOCTI Accounting-Basic credential. |
| BUS114DE2 Accounting 2 | Career Readiness Education | This is the second semester of a two semester course. The course continues to teach accounting while placing emphasis on conceptual understanding and financial statement analysis to encourage students to apply accounting concepts to real-world situations and make informed business decisions. Topics include transactions and methods of accounting for both service and merchandising businesses. Accounting 2 prepares students for the NOCTI Accounting-Advanced credential. |

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BUS120 Hospitality & Tourism 1	Career Readiness Education	Where is your dream travel destination? Now imagine working there! You'll be introduced to a thriving industry that caters to the needs of travelers through managing hotels, restaurants, cruise ships, resorts, theme parks, and any other kind of hospitality you can imagine. Operating busy tourist locations, creating marketing around leisure and travel, spotting trends, and planning events are just a few of the key aspects you will explore within this exciting field.
BUS130 Intro to Business Info Management	Career Readiness Education	Do you dream of owning your own business someday, or working for a company in a leadership position? Wherever your path may lead you, having the essential knowledge of business types, requirements to start a business, understanding of finances, business law, marketing, sales, customer service, and more, will ensure you're on the path to success. Let's explore your passion for business in this course!
BUS160 Foundations of Retail and E-Tail	Career Readiness Education	Coming Soon
BUS210 Accounting 1a with Quickbooks	Career Readiness Education	BUS210 Accounting 1A with QuickBooks is MSi curriculum that helps students obtain the certification product in the Intuit QuickBooks Certified User Online Certification. This course provides an in-depth look at QuickBooks Online Plus, its features and benefits, and how to set up and manage a company in its environment. Topics include licensing requirements, company information, project and class tracking, automation, list management, the Chart of Accounts, recurring transactions, journal entries, and connecting QuickBooks with apps. Additionally, students will learn how to set up and manage customers, products, services, and sales settings. Finally, students will learn about vendor records, expense settings, money-in and money-out transactions, bank accounts, transaction rules, and basic reports and views. With this course, participants will be able to confidently set up and manage a company using QuickBooks Online Plus.
BUS210 Professional Sales and Promotion	Career Readiness Education	"Sell me this pen." It seems like an easy request, but the art of selling takes nuance, expertise, and an ability to navigate the complexities of client needs. In this course, you'll learn about the bigger picture of the sales cycle. You'll examine the role of today's sales professional along with the skills and qualities needed for success, and you'll learn the ins and outs of the sales process and how it is driven by recognizing and responding to customer needs. Before long, you'll be a part of the well-oiled engine that drives the entire commercial economy. But first, can you sell me this pen?
BUS211 Accounting 1b with Quickbooks	Career Readiness Education	BUS211 Accounting 1B with QuickBooks is MSi curriculum that continues exploring the accounting processes covered in the first semester. Topics include Generally Accepted Accounting Principles (GAAP), the accounting equation, legal structure, the accounting cycle, investors, double entry accounting, budgets, credit management, payroll, and reconciliations. Additionally, students will learn how to set up and complete income statements, balance sheets, cash flow statements, retained earnings statements, and T accounts. Participants in this course will gain a solid understanding of the foundations, statements, transactions, and bookkeeping work involved in accounting.
BUS211 Professional Sales and Promotion 2	Career Readiness Education	In this course, students will explore the power of promotion and how to rise to the ranks of an elite sales and promotions representative. They will learn what it takes to be a seller, how salespeople work together in teams to meet goals, and how the sales managers employ proven sales methods mixed with technology, tools, and psychological insights to build and operate an efficient sales team.

Course Name ⇅	Subject	Course Description
BUS215 Accounting with Quickbooks	Career Readiness Education	Coming Soon
BUS230 Hotel and Restaurant Management	Career Readiness Education	If you love working with people, a future in hospitality may be for you. In Part A of Hospitality and Tourism 2: Hotel and Restaurant Management, you will learn about what makes the hotel and restaurant industries unique. Learn about large and small restaurants, boutique and resort hotels, and their day-to-day operations. Evaluate the environment for these businesses by examining their customers and their competition. As well, you will discover trends and technological advances that makes each industry exciting and innovative. In Part A, you can explore a variety of interesting job options from Front Desk and Concierge services to Maître d' and food service.
BUS240 Hospitality Mgmt, Marketing, and Operations	Career Readiness Education	Prepare yourself for a high energy career in hotel and restaurant management. Building upon the prior prerequisite course, learn about different management styles and how to develop job descriptions and business plans. Important topics, such as the laws and regulations that govern hotels and restaurants will also be covered. Preparing menus, advertising vacancies, performing interviews, and how to be financially conscious will all be discussed, making this course a comprehensive tool for those planning on entering the hotel and restaurant management industry.
BUS250 Hotel Management 1	Career Readiness Education	Creating unforgettable memories through luxury and meticulous care is a service that the best hotels can offer. In this course, you will learn about the business of hospitality and the different types of hotel ownership and programs. You'll explore the essential functions of a hotel from bookings, management systems, front and back of house operations, technologies, and more. You'll also discover what it takes to keep guests happy and run a sustainable program. Let's create some management magic!
BUS251 Hotel Management 2	Career Readiness Education	You have gained some insight into what it takes to successfully manage a hotel, and now it's time to pull back that perfectly pressed curtain a little further. In this course, you'll dig deeper into hotel organization from structure to departments and staffing needs. You'll explore management and leadership including types of managers; management styles, roles, and responsibilities; and technical and communication management skills. You'll also learn more about the big picture of the travel and tourism industry, how to handle emergencies, growth and sustainability, laws and ethics, careers in the industry, and more! Let's push those curtains wide open for a better view of your road to management.
BUS300 Entrepreneurship with Exam Prep	Career Readiness Education	BUS300 Entrepreneurship with Exam Prep is MSi curriculum that helps students obtain the first certification product in the Certiport Business Fundamentals Certification Program. In this course, students will gain a foundational understanding of entrepreneurship, small business ownership, and financial literacy. Students will learn how to identify potential business opportunities, design and create a business plan, analyze a company's financial state, and develop marketing and sales strategies. They will also learn the elements of production and distribution and how to identify, access, and use intellectual property.

Course Name ⇟	Subject	Course Description
BUS310 Introduction to Management 1	Career Readiness Education	From the shift managers at small businesses to the CEOs of large companies, effective management is key to any organization's success. Explore foundational management concepts such as leadership, managing teams, entrepreneurship, global business, finance, and technology and innovation. Engage in a capstone that pulls all of the concepts you've learned together, allowing you to see how management ideas can be applied to a business case study. Get started with learning the fundamentals of successful management.
BUS310-PBL Introduction to Management 1	Career Readiness Education	This course is a Project Based Learning course (PBL). From the shift managers at small businesses to the CEOs of large companies, effective management is key to any organization's success. Explore foundational management concepts such as leadership, managing teams, entrepreneurship, global business, finance, and technology and innovation. Engage in a capstone that pulls all of the concepts you've learned together, allowing you to see how management ideas can be applied to a business case study. Get started with learning the fundamentals of successful management.
BUS311 Management: Insight & Oversight	Career Readiness Education	Every business and company needs management of some type. But what skills must you master in order to become an effective professional? Explore the ins and outs of this career, the responsibilities businesses have towards customers, and hiring the right employees. Gain an understanding of human resources (HR) to ensure job satisfaction and take action to ensure that all rules and laws are being followed. Learn how to become an effective manager in any field.
BUS320-PBL Introduction to Business Law	Career Readiness Education	Whether you plan on starting your own business or being in charge of one, it is crucial you understand how to keep the company compliant. Explore what it means to run an ethical business, how to keep intellectual property, technology, and e-commerce safe and protected, understand insurance and taxes, and how to have a healthy workplace environment. Keep the business safe and growing by following the law.
BUS330 Intro to Office Administration	Career Readiness Education	Businesses worldwide and across every industry are always on the lookout for highly skilled administrative professionals to help their business be successful and thrive. Explore what it means to have effective verbal and written communication, speaking, and listening skills to work with diverse people and teams. Then dive into learning how to leverage various technology and software businesses use to stay connected and productive.

Course Name	Subject	Course Description
BUS330-PBL Introduction to Office Administration	Career Readiness Education	Office Administration 1a provides students with a cohesive introduction about the necessary skills and resources available to become an effective administrative professional in the workplace. For students looking for careers with excitement, variety, and autonomy, this course highlights the agency and fulfillment found in working as an administrative professional while exposing students to unique business structures like, C Corp, LLC, non-profits, etc. Acknowledging the inter- and intrapersonal skills needed to properly collaborate and support a team, students will take steps to enhance their self-awareness in the workplace, build their cultural competency, and avoid toxic office relationship and politics. Additionally, students gain strategies to improve their written and verbal communication, skills they'll implement regardless of profession. While students may have an understanding about academic writing, this course delineates between writing in their Composition class and writing for the business world. Similar to a Public Speaking course, Office Administration 1a delivers tactics to improve the validity of a student's perspective and delivery of a student's expression, to include verbal, written, and nonverbal communication tips. Learning to write business memos, emails, and letters, use organizational structures like calendars and interoffice mail to effectively communicate, and compile and interpret reports allow students the opportunity to parallel an office administrator's responsibilities within their personal and academic lives, making the profession accessible to many. Lastly, students will be armed with the ability to succeed in the 21st Century job market. In the research lessons, students apply critical thinking to question the validity of sources, providing them with the ability to discern and question validity in their daily lives and future professional lives. Building on the student's understanding of primary and secondary research, they will learn to shift with the ever-changing technological advances in telecommunications, computer hardware, and computer software highlighting the fleeting nature of upgrades and version history they're all too familiar with in their daily lives. Building on their prior background knowledge, combined with their new knowledge and application, this course ends with practical and applicable tips to secure employment as an office administrator.
BUS331E2 Office Administration 2	Career Readiness Education	You have learned some of the skills that an administrative professional must possess, but now it's time to take those skills to the next level! You will explore the responsibilities of an administrative professional to understand what a typical workday looks like and even what goes into searching for an administrative professional role: searching, applying, and (the most exciting part!) securing. Do you love the idea of being the glue in a successful business, helping everything run smoothly and properly? Then let's continue your journey into the career of an administrative professional!
BUS340-PBL Business Law: Legal Aspects of Business	Career Readiness Education	This course is a Project Based Learning course (PBL). Whether you plan to start your own business, work for an organization, or go into law, it's essential to understand more complex legal requirements that impact business operations and decisions. This is especially true as companies grow and expand domestically and internationally. Explore the differences between criminal and civil law. Examine how state and federal regulations work to protect consumer and employees' rights, protect society and the environment, and understand how business contracts can work to protect everyone.

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BUS400 Project Management with Exam Prep	Career Readiness Education	BUS400 Project Management with Exam Prep is MSi curriculum that teaches the project management skills required in today's business world and prepares students for the Project Management Ready certification exam. This course is designed to provide students with the skills needed to become proficient in project management. Through a combination of lectures, discussions, and hands-on activities, students will learn the core terminology, plan-based methods, agile frameworks, business analysis frameworks, and tools for project management. Students will be able to identify the key stakeholder roles, create a project management plan, track progress, and create a product roadmap.
BUS410 Intro to Business Communication	Career Readiness Education	No matter what career you're planning to pursue, excellent professional communication will be key to your success. Upgrade your abilities in speaking, listening, writing, using and reading body language, and communicating in teams and groups. Discover how to plan, create, and deliver business presentations and communicate through graphics. In no time, you'll be communicating with confidence, stand out from your peers, and impress your employer.
BUS410-PBL Intro to Business Communications	Career Readiness Education	This course is a Project Based Learning course (PBL). No matter what career you're planning to pursue, excellent professional communication will be key to your success. Upgrade your abilities in speaking, listening, writing, using and reading body language, and communicating in teams and groups. Discover how to plan, create, and deliver business presentations and communicate through graphics. In no time, you'll be communicating with confidence, stand out from your peers, and impress your employer.
BUS420 Business Communications 2	Career Readiness Education	You've learned your audience, found your voice, and can read the body's unspoken words. Now, it's time to limber up those fingers and learn the P's and Q's of communicating in a business setting. In this course, you're going to take the basic writing skills you've developed and revise them so you can take new approaches to planning, building, and distributing documents for a business audience. You'll continue to explore the essentials of writing while drafting new understandings of business documents, and then you'll learn to apply your business communication skills to job applications, interviews, and presentations. No matter your career of choice, learning to effectively communicate will help your professionalism grow leaps and bounds. Let's get writing!
BUS430 Business Ownership 1	Career Readiness Education	Do you dream of a future where you can have creative freedom, working in an industry you love, where you can get up every morning excited about the day will bring? In this course, you'll learn the skills you'll need in order to take your dream and transform it into a successful business. You'll explore foundations like generating ideas to qualifying opportunities, analyzing the market, and identifying skills for successful deployment. You'll learn to keep your business rolling and growing through effective workplace leadership and training while incorporating technological innovations to keep your business competitive. Are you ready to turn your dreams into reality? Let's get goaling!
BUS431 Business Ownership 2	Career Readiness Education	You've defined your business and made a plan to launch your vision, and now, it's time to turn that business into a well-oiled machine! In this course, you'll familiarize yourself with tried-and-true strategies for success! You'll distinguish market segments, develop the appropriate market mix, brand your business, create a top-notch customer service environment, and calculate financial factors for the crucial first year- and every year after! Owning a booming business doesn't happen by accident. Let's learn what it takes and execute on the essentials to turn your business vision into a reputable reality!

Course Name ↓≡	Subject	Course Description
BUS440 Human Resource Management 1	Career Readiness Education	Are you ready to step into a critical leadership role that oversees the development of every successful business' most valuable resource? In this course, you will wear the shoes of a Human Resource Management (HRM) professional and will learn how to build and manage a team to help a company reach its goals. You will also explore and perform some of the key responsibilities of a HRM professional: research, interviewing, reporting, recruiting, hiring, assessing employees, and more! Are you ready to help develop invaluable human resources that are the heart of a company and help your company thrive? Learn how to create a winning culture through human resources!
BUS441 Human Resource Management 2	Career Readiness Education	In this course, you'll step into the shoes of an HRM professional and explore key duties such as onboarding, training, and development, retaining and terminating employees, safety and risk managements, company communication, and more! You'll also learn about different career opportunities in the field of HRM, develop collateral based on real-world scenarios involving HRM tasks and responsibilities, and the role of HRM in a global environment.
BUSD MS Exploring Business	Career Readiness Education	Are you interested in business, leading people, or making decisions to help a business be successful? While there are many different career choices in the field of business, in this course, you'll discover options such as management, human resources, business operations, information management, and accounting. Explore the skills you'll need, common tasks, the technology used, and characteristics of various business careers.
CAR005 Middle School Career Explorations 1	Career Readiness Education	How do you pick a career path when you're not sure what's even out there? This course allows you to begin exploring options in fields such as teaching, business, government, hospitality, health science, IT, and more! You'll align your interests, wants, and needs to career possibilities, including the required education for each. Let's find a pathway that works for you.
CAR005 Middle School Career Explorations 1	Career Readiness Education	How do you pick a career path when you're not sure what's even out there? This course allows you to begin exploring options in fields such as teaching, business, government, hospitality, health science, IT, and more! You'll align your interests, wants, and needs to career possibilities, including the required education for each. Let's find a pathway that works for you.
CAR005-PBL Middle School Career Explorations 1	Additional Electives, Career Readiness Education	This course is a Project Based Learning course (PBL) and is designed as an exploration of career pathways. In this course students explore basic concepts in the broad areas within the National Career Clusters® Framework, as well as career options in various clusters. Students study the concepts of marketing, engineering, education, training, healthcare, and construction in addition to other common related functions. Students complete projects to develop a deeper understanding of the roles these career functions play.

Course Name ⬇	Subject	Course Description
CAR007E2 Middle School Career Explorations 2	Additional Electives, Career Readiness Education	Concluding their investigation of Middle School Career Explorations 2, students will: • Identify their strengths and turn them into possible career choices. • Learn to set goals and create a game plan from them. • Learn about improving their workplace skills. • Experiment with careers in different industries. • Learn how to gain experience in a career field. • Learn how to get the training required in a career field. • Learn how to prepare for a job.
CAR007-PBL Middle School Career Explorations 2	Additional Electives, Career Readiness Education	This course is a Project Based Learning course (PBL) and is designed as an exploration of career pathways. In this course students explore basic concepts in the broad areas within the National Career Clusters® Framework, as well as career options in various clusters. Students study the concepts of cybersecurity, nutrition, social responsibility, and the process of applying for a job in addition to other common related functions. Students complete projects to develop a deeper understanding of the roles these career functions play.
CAR010 Business and Health Explorations	Career Readiness Education	In this course students explore basic concepts in the broad areas of business and healthcare, as well as career options in each area. Business: How do business ideas become businesses? How are products marketed? How do you know if a business is making or losing money? These are among the questions that students explore in the business portion of this course. In addition to studying concepts of entrepreneurship, accounting and marketing, students explore these concepts on scales that range from a single person to nations. Healthcare: Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and measles identified and diagnosed? Health sciences provide the answers to questions such as these. This course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases.

Course Name ⬇	Subject	Course Description
CAR011 Business and IT Explorations	Career Readiness Education	In this course students explore basic concepts in the broad areas of business and information technology, as well as career options in each area. Business: How do business ideas become businesses? How are products marketed? How do you know if a business is making or losing money? These are among the questions that students explore in the business portion of this course. In addition to studying concepts of entrepreneurship, accounting and marketing, students explore these concepts on scales that range from a single person to nations. Information Technology: How do computers affect communication? How do computers work? How do you make a website? Information technology provides the answers to questions such as these. This course provides a comprehensive introduction to the essentials of Web design, from planning page layouts to publishing a complete site to the Web. Students learn how to use HTML to design their own Web pages. The course covers basic HTML tags for formatting text, as well as more advanced tags. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools.
CAR015-PBL Arts, AV Tech, and Communications Explorations	Career Readiness Education	This course is a Project Based Learning course (PBL). This course is designed as an exploration of the arts, audio/video technology, and communications pathways. Students will get an introduction to arts, audio/video technology, and communications careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of art, audio/video technology, and communication, as well as career options in each area. Students study the concepts of technology skills, audio/video technology, communications, art appreciation, visual and performing arts, journalism and broadcasting, and telecommunications. Students complete projects to develop a deeper understanding of the essential skills and knowledge required for a career in arts, audio/video, or communications.
CAR017DE3 Business and Marketing Explorations	Career Readiness Education	This course is designed as an exploration of the business career pathways. Students will get an introduction to business careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of business and marketing, as well as career options in each area. Students study the concepts of marketing, financial management, and human resource management, in addition to other common business related functions. Students complete projects to develop a deeper understanding of the roles these business functions play.
CAR017E3-PBL Business and Marketing Explorations	Career Readiness Education	This course is a Project Based Learning course (PBL). This course is designed as an exploration of the business career pathways. Students will get an introduction to business careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of business and marketing, as well as career options in each area. Students study the concepts of marketing, financial management, and human resource management, in addition to other common business related functions. Students complete projects to develop a deeper understanding of the roles these business functions play.

Course Name ⬇	Subject	Course Description
CAR019DE3 Healthcare Explorations	Career Readiness Education	This course is designed as an exploration of the healthcare career pathways. Students will get an introduction to healthcare careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of healthcare, as well as career options in each area. Students study the concepts of disease prevention, personal health management, and social work, in addition to other common health related functions. Students complete projects to develop a deeper understanding of the roles these healthcare functions play.
CAR019DE6-PBL Healthcare Explorations	Career Readiness Education	This course is a Project Based Learning course (PBL) and is designed as an exploration of career pathways in healthcare. In this course students study the concepts of public service, effective communication, planning for emergencies, legal issues in health care, and career options in addition to other common related functions. Students complete projects to develop a deeper understanding of the roles these career functions play.
CAR022-ALV Construction Explorations	Career Readiness Education	This course provides students with an introduction of the basic equipment used in the construction industry. Students learn about basic equipment operations and job responsibilities. This course prepares students to use concepts pertaining to safety, maintenance, mathematics and communication that Operating Engineers may experience.
CAR025 Manufacturing Explorations	Career Readiness Education	Think about the last time you visited your favorite store. Have you ever wondered how the products you buy make it to the store shelves? Whether it's video games, clothing, or sports equipment, the goods we purchase must go through a manufacturing process before they can be marketed and sold. In this course, you'll learn about the types of manufacturing systems and processes used to create the products we buy every day. You'll also be introduced to the various career opportunities in the manufacturing industry including those for engineers, technicians, and supervisors. As a culminating project, you'll plan your own manufacturing process for a new product or invention! If you thought manufacturing was little more than mundane assembly lines, this course will show you just how exciting and fruitful the industry can be.
CAR025-PBL Manufacturing Explorations	Career Readiness Education	This course is a Project Based Learning course (PBL). This course is designed as an exploration of the manufacturing career pathways. Students will get an introduction to manufacturing careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of manufacturing, as well as career options in each area. Students study the concepts of personal safety, machine maintenance, and computer-aided drafting, in addition to other common manufacturing related functions. Students complete projects to develop a deeper understanding of the roles these manufacturing functions play.
CAR031 Engineering Explorations	Career Readiness Education	This course guides students through an investigation of engineering careers. Students are introduced to the basics of engineering, learn how to turn problems into ideas, and develop a basic understanding of civil, mechanical, chemical, and biological engineering.
CAR045DE3-PBL Agriculture Explorations	Career Readiness Education	This course is designed as an exploration of the agriculture career pathways. Students will get an introduction to agriculture careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of agribusiness and agriscience, as well as career options in each area. Students study the concepts of horticulture, natural resources, and livestock production, in addition to other common agriculture related functions. Students complete projects to develop a deeper understanding of the roles these agricultural functions play.

Course Name ⇊	Subject	Course Description
CAR045E3-PBL Agriculture Explorations	Career Readiness Education	This course is a Project Based Learning course (PBL). This course is designed as an exploration of the agriculture career pathways. Students will get an introduction to agriculture careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of agribusiness and agriscience, as well as career options in each area. Students study the concepts of horticulture, natural resources, and livestock production, in addition to other common agriculture related functions. Students complete projects to develop a deeper understanding of the roles these agricultural functions play.
CAR050 Education and Training Explorations	Career Readiness Education	The Education and Training Explorations course is designed for students to explore careers found in the Education and Training Career Cluster. Students in Education and Training Explorations will study a variety of topics, including professional skills and job responsibilities of various education job workers.
CAR060 Introduction to Military Careers	Career Readiness Education	Do you really understand how the military works or what it can do for you? The military offers far more career diversity than most people imagine. You will learn about the five military branches – Air Force, Army, Coast Guard, Marines Corps, and Navy – and examine which jobs you might like to pursue. From aviation to medicine, to law enforcement, the military can be an outstanding place to achieve your dreams in a supportive and well-structured environment.
CAR095DE2 IT Explorations	Career Readiness Education	This course is designed as an exploration of the information technology career pathways. Students will get an introduction to information technology careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of information technology, as well as career options in each area. Students study the concepts of networking information support, web and digital communications, and programming and software development.
CAR095DE3-PBL IT Explorations	Career Readiness Education	This course is designed as an exploration of the information technology career pathways. Students will get an introduction to information technology careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of information technology, as well as career options in each area. Students study the concepts of networking information support, web and digital communications, and programming and software development.
CAR100 Summit Career Planning	Career Readiness Education	Students use an informative interactive process to explore career and life options in this one-semester elective. They begin with a thorough examination of their own interests, aptitudes, achievements, and personality styles. Instructional material then helps them match job market information, interview techniques, training requirements, and educational paths to potential careers that suit their strengths and personal priorities. Successfully completing this course gives students the ability to identify and describe their personal interests, aptitudes, and lifestyle goals; locate and evaluate information about different careers; identify the skills and knowledge needed for careers of interest and how to obtain them; and create an entrepreneurial business plan.

Course Name ⇅	Subject	Course Description
CAR105 Exploring Robotics	Career Readiness Education	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."
CAR120 Public Services Exploration	Career Readiness Education	This course explores the public services career pathway, specifically to the law enforcement and corrections careers within the pathway. It also covers important skills needed for employment in the field, including information literacy, problem solving, communication skills, and teamwork.
CAR400 Career Preparation I	Career Readiness Education	This course provides students with the tools, guidance, and opportunity to create and follow a career path. Students will conduct a personal exploration to determine their strengths and identify potential career pathways that align with their personality and interests. Students will hone their skills in securing a career by learning job search techniques, how to complete job applications, creating a resume, interview preparation and the development of a career portfolio. Finally students learn the importance of being responsible and productive employees by learning employability skills, workplace etiquette, conflict management, as well as valuable life skills.
COM110-PBL Interpersonal Communication	Career Readiness Education	This course is a Project Based Learning course (PBL) and is designed as an exploration of interpersonal communication. Students study the concepts of communication, intercultural communication, building a personal brand, how to communicate effectively, and more. Students complete projects to develop a deeper understanding of the roles these career functions play.
COM210 Introduction to Digital Media	Career Readiness Education	Discover your talent for building digital media applications using text, graphics, animations, sounds, videos, and more! Learn about the elements that make impressive media, such as typography, color theory, design, and manipulation. Explore careers to apply your digital media skills and find your place in this fast-paced and exciting field!
COM220 Digital Media: Producing for the Web	Career Readiness Education	Let's polish your digital media skills and help you learn all about web design. Incorporate your creative ideas into websites and discover the basics of marketing to understand how your work can be used effectively. You'll also explore the world of podcasts and audio editing to construct a solid foundation from which you can pursue a career in this exciting field.
COM230 Introduction to Journalism 1	Career Readiness Education	Does your curiosity lead you to the heart of the matter? Channel this curiosity into developing strong writing, critical thinking, and research skills to perform interviews and write influential pieces, such as articles and blog posts. Learn about the evolution of journalism and its ethics, bias, and career directions to forge your path in this field.

Course Name ⬇	Subject	Course Description
COM231 Journalism: Investigating the Truth 2	Career Readiness Education	Journalists are asked to tell the world a story every single day—and their job is, to tell the truth. Learn how to choose a topic, structure your story, research facts, hone your observational skills, and write an article following journalism tradition. Go beyond the print world and discover how journalism can lead to exciting careers that will put you right in the action.
ENG005 Middle School Journalism	Additional Electives, Career Readiness Education	Who? What? When? Where? Journalism provides us with the answers to these questions for the events that affect our lives. In this course, students will learn how to gather information, organize ideas, format stories for different forms of news media, and edit their stories for publication. The course will also examine the historical development of journalism and the role of journalism in society.
HLT041 Introduction to Biotechnology	Career Readiness Education	How is technology changing the way we live? Is it possible nature can provide all the answers to some of science's most pressing concerns? In Biotechnology: Introduction, you'll learn the basics of biotechnology and evolutionary theory, explore the various ways we store and preserve food, and discover the process of fermentation and microbiology. This course will also cover the importance of breeding plants and hybridization and how early breeding programs led to the study of genetics and an understanding of the function of genes. Finally, you'll delve into early industrial discoveries and explore the developments in biotechnology during the industrial revolution.
HLT042 Biotechnology: Unlocking Nature's Secrets	Career Readiness Education	The fusion of biology and technology creates an amazing process and offers humanity a chance to significantly improve our existence, while simultaneously creating new challenges. In Biotechnology 1b: Unlocking Nature's Secrets, you'll build on your knowledge from Biotechnology: Introduction and learn how this field seeks to cure such deadly diseases as cancer and malaria, develop innovative medicine, and effectively feed the world through improved agricultural systems. Learn about some of the challenges biotechnology faces today, such as the growth of antibiotic resistant bacteria and questions about the safety of commercially produced genetically modified organisms (GMOs). You'll research new biotechnologies and learn how they are changing the world we live in, including the environmental benefits of industrial biotechnology.
HLT110DE3-PBL Health Sciences	Career Readiness Education	This course is a Project Based Learning course (PBL) and is designed as an exploration of the health sciences. In this course students explore basic concepts in health for the people, tackling sports injuries, emergency response, and cancer education, as well as career options in various clusters. Students complete projects to develop a deeper understanding of the roles these career functions play.
HLT213DE2 Medical Terminology 1	Career Readiness Education	This course simplifies the process of memorizing complex medical terminology by focusing on the important word parts—common prefixes, suffixes and root words—that provide a foundation for learning hundreds of medical terms. Organized by body systems, the course follows a logical flow of information: an overview of the body system's structures and functions, a summary of applicable medical specialties, and ultimately pathology, diagnostic, and treatment procedures.

Course Name ↓≡	Subject	Course Description
HLT214DE2 Medical Terminology 2	Career Readiness Education	This course simplifies the process of memorizing complex medical terminology by focusing on the important word parts—common prefixes, suffixes and root words—that provide a foundation for learning hundreds of medical terms. Organized by body systems, the course follows a logical flow of information: an overview of the body system's structures and functions, a summary of applicable medical specialties, and ultimately pathology, diagnostic, and treatment procedures.
HLT220-PBL Public Health	Career Readiness Education	This course is a Project Based Learning course (PBL). What is public health? Who decides which diseases get funding and which do not? What are the reasons for health inequality? Study both infectious and non-communicable diseases as well as learn how we conquer these on a community and global level through various methods, including proper hygiene, sanitation, and nutrition. Explore the role of worldwide current and future technologies and the ethics and governance of health on a global scale, and discover unique career opportunities you can pursue to make a difference.
HLT230-PBL Introduction to Human and Social Services	Career Readiness Education	Those working in the field of social services are dedicated to strengthening the economic and social well-being of others and helping them lead safe and independent lives. Explore the process of helping, body, mind, and family wellness, and how you can become a caring social service professional. If you are interested in an emotionally fulfilling and rewarding career and making a difference in the lives of others, social and human services may be the right field for you.
HLT310-PBL Introduction to Medical Diagnostic Technology	Career Readiness Education	This course is a Project Based Learning course (PBL). Have you ever wondered how a health professional knows how to diagnose an illness? Or what medications to prescribe to a patient depending on the person's body and their signs and symptoms? Learn about different diagnostic technology used and essential body systems and fluids that need to be understood to make an accurate diagnosis of a disease, condition, or illness. This career field is flourishing, and now is the time to be part of it!
HLT320-PBL Medical Tech: Systems and Procedures	Career Readiness Education	Our bodies are complex, and when we start feeling ill, a doctor or specialist must analyze and diagnose what could be wrong. Learn about different diagnostic technology, procedures, essential body systems, and fluids that need to be understood to make an accurate diagnosis of a disease, condition, or illness. This career field is flourishing, and now is the time to be part of it!
HLT330 Medical Office Procedures and Admin	Career Readiness Education	This course will introduce students to the Health care industry, its environment along with the day to day skill set, and knowledge required to fulfill a position as a Medical Administrative Assistant. Modules include Professional Behavior, Communication, Law and Ethics, Law and Medicine, Daily Operations, Telephone Techniques, Appointment Scheduling, Correspondence, Computers, HIPPA, Regulations, Records Management, Information Management, Basics of Coding, Health Insurance Basics, Professional Fees, Accounting and Bookkeeping, Banking and Financial Management, Practice Management, Marketing and Customer Service.
HLT330 Medical Office Procedures and Admin	Career Readiness Education	This course will introduce students to the healthcare industry, its environment along with the day-to-day skill set, and knowledge required to fulfill a position as a Medical Administrative Assistant. Modules include Professional Behavior, Communication, Law and Ethics, Law and Medicine, Daily Operations, Telephone Techniques, Appointment Scheduling, Correspondence, Computers, HIPPA, Regulations, Records Management, Information Management, Basics of Coding, Health Insurance Basics, Professional Fees, Accounting and Bookkeeping, Banking and Financial Management, Practice Management, Marketing, and Customer Service.

Course Name ⬇	Subject	Course Description
HLT340 Professionalism in Allied Health	Career Readiness Education	Professionalism in Allied Heath is a comprehensive course with insight and focus on professional skills, providing foundational knowledge required of an allied healthcare professional. Video-based lessons include managing work expectations and patient interactions, managing emotions, work relationships and patient interactions, successful interactions and professional communications, and professional behavior for allied health careers.
HLT410-PBL Nursing Assistant: Introduction	Career Readiness Education	If you ever wanted a career that is centered around the care of others and that directly impacts the most vulnerable populations, then it's time to explore what it means to be a Nursing Assistant. This role can be the first step on your nursing career ladder or into other healthcare positions. Learn career options, ethical and legal responsibilities, anatomy and physiology, patient care, and safety. Discover what it takes to start your journey into this highly needed field.
HLT411-PBL Nursing Assistant: Patient Care	Career Readiness Education	This course is a Project Based Learning course (PBL). As a Nursing Assistant, you are heavily involved in the care of your patients. But what does a typical day look like? How do you care for your patients during your shift? From hospital settings to home health care, from pre- and postoperative to rehabilitation. Discover how best to communicate and work with your team to ensure a safe environment, prevent and control infectious diseases, advocate for your patient's rights, and provide appropriate care – even for the most complex patient needs.
HLT420 Clinical Medical Assisting	Career Readiness Education	Clinical Medical Assisting is a comprehensive course with insight and focus on patient care in the healthcare facility, providing foundational knowledge required of an allied healthcare professional. Video-based lessons include fundamentals of clinical medical assisting with emphasis on infection control, vital signs, the clinical laboratory, general and specialty physical examinations, urinalysis, microbiology, immunology, nutrition, cardiopulmonary diagnostic testing, pharmacology, medication administration, phlebotomy, hematology, surgical procedure assisting and emergency preparedness. Topics related to diversity, patient interaction, documentation and communication will be addressed. Throughout each lesson, the role of the clinical medical assistant will be presented and explained as applicable to patient education and legal & ethical issues.
HLT430E2-PBL Introduction to Pharmacology	Career Readiness Education	This course is a Project Based Learning course (PBL). If you ever thought about pursuing a gratifying career in biomedical sciences, pharmacology is a must. Pharmacology is the fascinating study of the chemistry, origins, and types of medications. Whether you plan on going into medicine, nursing, dentistry, veterinary medicine, or pharmacy, you'll need to learn the effects of medicines on different biological systems, appropriate dosages, and how the body responds to different medications.
HLT431 Pharmacy Technician	Career Readiness Education	This Pharmacy Technician course is designed to education and train the student in the diverse field of Pharmacy Technology. The student will be provided didactic coursework in the areas of prescription processing, pharmacy nomenclature, biopharmaceutics and drug activity, dosage calculations, and common mathematical formulas and conversions. Consideration of drug routes and formulations includes tablets and capsules, liquid prescriptions, parenteral and enteral, and insulin and syringes. To better understand the business side of the pharmacy world, students will learn about HIPAA, drug regulation and control, inventory management, financial considerations, legal and ethical issues, sterile and non-sterile compounding, and units of measurement. Throughout the course, the student will perform realistic pharmacy simulations that duplicate tasks performed in the work environment.

Course Name ⇅	Subject	Course Description
HLT432 Pharmacology 2	Career Readiness Education	When implemented with care, medicine can cure illnesses and even save lives, but when distributed incorrectly, therapeutics can cause great harm. In this course, you will delve deeper into the study of medicine and treatments available to patients. You will learn about available medications for specific diseases, the way therapeutics work in the body, different drug classifications, the law behind administering drugs, and what a Pharmacy career can look like. Are you ready to continue injecting your brain with essential knowledge for a career in the medical field? Let's continue your journey of care.
HLT440 Insurance Billing and Coding Essentials	Career Readiness Education	This course covers the skill set and knowledge required to fulfill a position as an Insurance Billing Specialist. This will include an introduction to diagnosis coding (ICD-9 and ICD-10), procedure coding (CPT and HCPCS), billing and reimbursement processes and understanding insurance companies; as well as Medical Insurance Billing as a Career, HIPPA & HITECH, Health Insurance basics, Medical Record Documentation, Electronic Data Exchange, Claim Reimbursement, Fees, BCBS, Managed Care, Private Insurance, Medicare, Medicaid, Tricare, CHAMPVA, Workers Compensation, and Disability Income Insurance.
HLT441 Electronic Health Records	Career Readiness Education	This course provides students with the skills and certifications for the development and maintenance of electronic health records in both facility and private practice environments. Upon completion of this course, students will be qualified to sit for the CEHRS, and will have gained the knowledge required to perform a variety office functions necessary in the digital/electronic age. Students are introduced to, and are provided training and practical application of skills in a variety of areas related to Electronic Health Records. Ethical, legal, and regulatory requirements will be covered along with training in the hands-on Electronic Health Record software. Students will also receive comprehensive training in the areas of Professional Fees, Billing, and Collecting, the Health Insurance Claim Form, Third-Party Reimbursement, Banking Services and Procedures, Health Information Management, Computers in the Medical Office, Medical Records
HLT442 Medical Scribe	Career Readiness Education	Medical Scribe is a comprehensive course with insight and focus on professional skills, providing foundational knowledge required of a medical scribe professional. Video-based lessons include the role of the medical scribe, medical law and ethics, clinic workflow and documentation, introduction to PM/EHR administrative, working with the physician, and release of information.
HLT450 Fundamentals of Physical Therapy	Career Readiness Education	Fundamentals of Physical Therapy is a comprehensive course with insight and focus on assisting the physical therapist and physical therapy assistant with patient care and preparation in a healthcare setting. The course provides foundational knowledge required of an allied healthcare professional. Video-based lessons include fundamentals of physical therapy as it relates to the role of the physical therapy aide/technician as a member of the physical medicine/rehabilitative team. Emphasis is placed on infection control and safety, vital signs, patient preparation and transfers, ambulation support, and gait training. Topics related to physical therapy treatment, range-of-motion exercise, and various agents and modalities are also addressed.

Course Name ⇕	Subject	Course Description
HLT460 Sports Medicine 1	Career Readiness Education	What do you think of when you hear the phrase "sports medicine professional"? Believe it or not, the term encompasses a much larger range of career options than jobs typically associated with this field. Explore some of the most popular career pathways, day-to-day responsibilities, emergency care for athletes, and legal obligations. Discover what nutrition, healthy lifestyle, and fitness truly mean, and dive into anatomy, human biomechanics, and exercise modalities. Learn how to get started in this exciting field.
HLT460 Sports Medicine: Introduction	Career Readiness Education	What do you think of when you hear the phrase "sports medicine professional"? Believe it or not, the term encompasses a much larger range of career options than jobs typically associated with this field. Explore some of the most popular career pathways, day-to-day responsibilities, emergency care for athletes, and legal obligations. Discover what nutrition, healthy lifestyle, and fitness truly mean, and dive into anatomy, human biomechanics, and exercise modalities. Learn how to get started in this exciting field.
HLT461 Sports Medicine: Preventing Injury	Career Readiness Education	This course is designed as an exploration of career pathways in sports medicine. In this course students explore basic concepts in the broad areas within the National Career Clusters® Framework, as well as career options in various clusters. Students study the concepts of body organization, muscles, movement, injury assessment, soft tissue injuries, neck pain, chest and abdomen issues, and upper and lower extremity issues. Students complete projects to develop a deeper understanding of the roles these career functions play.
HLT470 Phlebotomy	Career Readiness Education	Phlebotomy is a comprehensive course with insight and focus on specimen collection for diagnostic testing in the healthcare facility, providing foundational knowledge required of an allied healthcare professional. Video-based lessons include fundamentals of phlebotomy with emphasis on infection control, safety, communication skills, patient care and preparation, venipuncture equipment and supplies, specimen collection, handling, transport and processing.
HLT471 Electrocardiography	Career Readiness Education	Electrocardiography is a comprehensive course with insight and focus on diagnostic cardiac testing in the healthcare facility, providing foundational knowledge required of an allied healthcare professional. Video-based lessons include the fundamentals of electrocardiogram performance, Holter monitor application and assistance with stress testing. An emphasis is placed on cardiac arrhythmias. Patient care, preparation and monitoring are addressed along with standard precautions and the Occupational Safety and Health Administration (OSHA).
HLT472 Medical Lab Assisting	Career Readiness Education	Medical Lab Assisting is a comprehensive course with insight and focus on laboratory skills, providing foundational knowledge required of a medical lab professional. Video-based lessons include introduction to clinical laboratory science; standards, practices, law, and ethics in healthcare; quality assessment and quality control; general laboratory equipment; point-of-care testing (POCT); clinical chemistry - fundamental techniques; clinical chemical testing; automation in clinical chemistry; clinical hematology; hemostasis and blood coagulation; urinalysis and composition of urine; immunology, serology, and immunohematology; and health information technology in the laboratory.

Course Name	Subject	Course Description
HLT480 Surgical Technology	Career Readiness Education	HLT480A:This Surgical Technology course is designed to education and train the student in the diverse field of Surgical Technology. Video-based lessons include the surgical technologist; aspects of medical law; healthcare facilities and environments; surgical energy sources; supporting psychosocial needs; dealing with death and dying;hazards in the perioperative environment; microbes and infection; sterile technique and infection control; decontamination and sterilization standards; surgical instrumentation; pharmacology in the perioperative setting; moving, handling, and positioning; and skin prep and draping for surgery. HLT480B:This Surgical Technology course builds on the foundations begun in Surgical Technology (HLT480A).Video-based lessons include planning a case and start of surgery, interoperative and immediate postoperative period, general surgical procedures, minimally invasive surgery, robotic surgery, gynecological and obstetrical surgical procedures, genitourinary surgical procedures, ophthalmic surgical procedures, ent surgical procedures, orthopedic surgical procedures, thoracic and pulmonary surgical procedures, cardiac surgical procedures, neurosurgical procedures, and preparing for and responding to disasters.
HLT490 Dental Assisting	Career Readiness Education	This comprehensive course provides students with skills and expertise necessary to perform the functions and responsibilities assigned to the role of a Dental Assistant. The course includes instruction in dental terminology, preventive dentistry, patient care and communication, radiology, pharmacology, anesthesia, assisting in specialty practices, legal and ethical responsibilities, health and safety in the workplace, compliance, infection control, disease prevention, dental instruments and equipment, basic chairside assisting, and general dental business office procedures. The Dental Assisting course offers students a well-rounded education on a variety of medical and administrative skills that are essential to working in the dental profession. The Dental Assisting course is delivered through a combination of video lecture, textbook and workbook review, and assessments. Additionally, video simulations provide students with a real-world view of dental assisting procedures and tasks.
HST060-PBL Sociology	Career Readiness Education	Human beings are complex creatures, and when we interact and begin to form relationships and societies, things become even more complicated. Are we more likely to act differently in a group than we will when we're alone? How do we learn how to be "human"? Examine answers to these questions and many more as you explore culture, group behavior, and societal institutions and how they affect human behavior.

Course Name ⬇	Subject	Course Description
LAW050 Principles of Public Service: To Serve & Protect	Career Readiness Education	Concluding their investigation of Principles of Public Service: To Serve and Protect, students will: • Define and explore public service • Explore the elements of a thriving community • Explore the elements of an effective workforce • Explore the elements of effective leadership • Recognize how regulations are used to check the conduct of both the government and the individuals who help society • Understand why ethics and morals are an important part of working in public service • Understand why communication is an important part of public service • Understand that public service involves thinking about the future and taking care of people • Identify public safety and service careers.
LAW110 Careers in Criminal Justice 1	Career Readiness Education	Have you ever wondered what steps take place as people as they move through the court system? The criminal justice system is a very complex field that requires dedicated people willing to pursue equal justice for all. Explore different career choices and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order.
LAW110-PBL Careers in Criminal Justice 1	Career Readiness Education	Have you ever wondered what steps take place as people as they move through the court system? The criminal justice system is a very complex field that requires dedicated people willing to pursue equal justice for all. Explore different career choices and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order.
LAW111 Careers in Criminal Justice 2	Career Readiness Education	Have you ever thought about a career as a police officer, an FBI or DEA agent, or any occupation that seeks to pursue justice for all? Careers in criminal justice can be found at local, county, state, and federal levels, and even in the private sector. Explore some of the various occupations in this field, while simultaneously learning how they interact with each other and other first responders. Discover various interviewing techniques to uncover the truth. Understand the importance of making ethical decisions, and how you need to keep your sense of right and wrong in check to be successful in this field.
LAW111-PBL Careers in Criminal Justice 2	Career Readiness Education	Have you ever thought about a career as a police officer, an FBI or DEA agent, or any occupation that seeks to pursue justice for all? Careers in criminal justice can be found at local, county, state, and federal levels, and even in the private sector. Explore some of the various occupations in this field, while simultaneously learning how they interact with each other and other first responders. Discover various interviewing techniques to uncover the truth. Understand the importance of making ethical decisions, and how you need to keep your sense of right and wrong in check to be successful in this field.

Course Name ⇅	Subject	Course Description
LAW220-PBL Criminology	Career Readiness Education	This course is a Project Based Learning course (PBL) and is designed as an exploration of a career in law. In this course, students explore basic concepts in the broad areas within the National Career Clusters® Framework, as well as career options in various clusters. Students study the concepts of crime, deviance, research methods, psychoanalytic theories of crime, modeling theories, social structure, crimes against persons and property, white-collar crime, the criminal case process, corrections, and more. Students complete projects to develop a deeper understanding of the roles these career functions play.
LAW310-PBL Law and Order	Career Readiness Education	This course is a Project Based Learning course (PBL) and is designed as an exploration of a career in law. In this course students explore basic concepts in the broad areas within the National Career Clusters® Framework, as well as career options in various clusters. Students study the concepts of consumer law, the court system, civil versus criminal cases, human rights, and the origin of the U.S. Constitution in addition to other common related functions. Students complete projects to develop a deeper understanding of the roles these career functions play.
LAW320 Legal Admin Specialist 1	Career Readiness Education	Do you picture yourself working in a law office or maybe even in a courtroom someday? A rewarding career as a legal administrator means you are responsible for the day-to-day operations in a law firm, and therefore, need to learn the fundamentals of law. You'll need to understand the specifics of researching, creating, processing, filing legal documents, and more. Jumpstart your career in law by learning what it takes to be a legal admin.
LAW330 Legal Admin Specialist 2	Career Readiness Education	Wherever your legal admin career takes you, understanding the responsibilities of a law office requires strict attention to detail, communication skills, office competence, and legal savvy. What does a legal admin need to know and what duties do they perform? How do confidentiality, cybersecurity, and client relations look different in a legal office? Learn the answers to these questions and so much more for this exciting career with endless opportunities to prove your value, learn, and grow.
LAW350 National Security	Career Readiness Education	Do you know what it takes to keep an entire nation safe? It not only requires knowledge of how to handle disasters, but it also demands a cool head and tremendous leadership abilities. Learn about the critical elements of the job, such as evaluating satellite information, analyzing training procedures, assessing military engagement, preparing intelligence reports, coordinating information with other security agencies, and applying appropriate actions to various threats. Discover the requirements of our nation's most demanding career.
LAW350-PBL National Security	Career Readiness Education	This course is a Project Based Learning course (PBL) and is designed as an exploration of a career in law. In this course, students explore basic concepts in the broad areas within the National Career Clusters® Framework, as well as career options in various clusters. Students study the concepts of national security, treaties, international security, the rules of engagement, The Patriot Act, Edward Snowden, the Geneva Convention, how intelligence is collected, natural disasters, terrorism, preparing for the future of security, and more. Students complete projects to develop a deeper understanding of the roles these career functions play.

Course Name ⭥	Subject	Course Description
MFG010E3 Basic Grade and Construction Math INTL	Career Readiness Education	In the construction industry, grading is the work of ensuring a level base, or a grade with a specific slope. Grade construction work is needed in almost any building project, from laying a building foundation, to landscaping, or even roadwork. In this course, you will be introduced to core equipment used in the staking process, as well as Personal Protective Equipment (PPE) used in the construction industry. Communication processes used in the construction industry for interpreting and setting grade are also an important part of this course. Finally, you will learn mathematical concepts related to the construction industry for grade staking.
MFG210 Supply Chain Management	Career Readiness Education	Coming Soon
MFG230 Introduction to Advanced Manufacturing	Career Readiness Education	In this introductory course to advanced manufacturing concepts, students will learn about manufacturing careers and prepare to apply for and succeed in their first job. This course introduces how manufacturing companies operate including the use of computers and automation in manufacturing. Students will complete hands-on projects designed to provide insight into the world of manufacturing. Students will also explore the principles and techniques involved in lean manufacturing, such as minimizing waste and improving workflow.
MFG240 Applied Engineering 1: Introduction	Career Readiness Education	Discover how technology has changed the world around us by pursuing technological solutions to everyday problems. While using scientific and engineering methods, learn how electricity, electronic systems, magnets, and circuits work. Understand the design process and bring your ideas to life. Explore how engineering advances your ideas and the world!
MFG250 Applied Engineering 2: Solving Problems	Career Readiness Education	Do you like to invite solutions to solve problems? Applied engineering has advanced areas such as energy, transportation, health and genetics, alternative energy, food packaging, etc. Explore various inventions and solutions that have solved problems across industries. Examine how artificial intelligence and technology are making an impact on breakthroughs. Evaluate the range of robotic and STEM-related career options available for you to make a difference in lives with your contributions and innovations.
MFG300 Occupational & Tool Safety Fundamentals	Career Readiness Education	This Occupational & Tool Safety Fundamentals course explores the skills and legal knowledge necessary to safely operate tools and work in an occupation related to using those tools, such as manufacturing. It also covers job site safety and manufacturing careers.
MFG310 Industrial Tech Math with Blueprint Reading	Career Readiness Education	This course discusses how to read blueprints and utilize mathematics effectively. This course covers everything from mathematics in construction to welding blueprints, as well as important issues of safety, including lockout and tagout. It also discusses the importance of lubrication when working with many different types of machinery.

Course Name ⬇	Subject	Course Description
MFG330 Technician Safety and Fundamentals	Career Readiness Education	Safety Fundamentals is one of the most important aspects of an industrial training program. This dedicated safety module explores all aspects of manufacturing and workplace safety with the objective of educating students about safety norms, procedures, and laws. Lockout/Tagout procedures are critical in creating a safe work environment. Lockout Tagout delivers skills-based curriculum through virtual and hands-on activities. Students learn all aspects of lockout/ tagout procedures in industrial environments.Mathematics for Technicians I is designed to equip technicians with the math skills they are likely to need on a daily basis. The curriculum conveys skills-based math through virtual activities, providing students with fundamentals they will encounter in a variety of career and industrial environments. Math for Technicians II applies advanced mathematics concepts to everyday tasks. Through interactive activities students learn about drive ratios, Ohm's Law, mechanical principles, and how these concepts apply in the engineering and industrial environments. Blueprint Reading delivers skills-based curriculum through virtual activities. Students learn all aspects of reading and interpreting blueprints in engineering and industrial environments, including views, tolerances, cutting planes, thread dimensions, and welding symbols.
MFG340 Manufacturing Tools and Processes	Career Readiness Education	Hand Tools play a key role in the everyday tasks of technicians. Hand Tools features skills-based curriculum delivered through activities in which students learn all aspects of using hand tools. Power Tools also play a key role in the everyday tasks of technicians. Power Tools delivers skills-based activities, in which students learn all aspects of using power tools. Lubrication for Technicians conveys skills-based curriculum through virtual and hands-on activities. Mechanical Fasteners may be taught as a virtual module, delivered entirely online with interactive activities, or as a blended module with both virtual and hardware-based activities. Students identify and work with the many types of fasteners used in engineering and industrial environments. Mechanical Measurement and Quality Control enables students to gain a solid foundation of knowledge and skill in performing measurements and calculations. Students gain proficiency in reading mechanical drawings, in selecting the proper tools for inspecting parts and in preparing quality control/ inspection reports.
MGT350 Logistics Management	Career Readiness Education	This logistics management course explores the skills and legal knowledge necessary to run the daily operations of a business on an international scale. The course covers topics such as contract, employment, product, and service law; project management skills; global industry and marketing; and more. The course also covers topics such as workplace issues, budgeting for business, aspects of a business plan, purchasing procedures, distribution and inventory methods, and more.
MKT120D Marketing Foundations - Domestic	Career Readiness Education	Without marketing, most of the businesses people are familiar with wouldn't exist. Customers would never hear about the latest products or services, visit certain stores, or develop loyalty to specific brands. Marketing allows businesses to grow and also helps customers access better products and services. In this course, students will learn about the foundations of marketing, the role and function of marketing in business, economics, business ownership, and government regulations. They will also study legal issues and ethics, the impact of finance on marketing, the importance of market research, and marketing concepts and plans.

Course Name ⬇	Subject	Course Description
MKT121D Marketing Foundations – International	Career Readiness Education	Can you think of a brand that first launched in the United States and then became popular in other countries? Without a solid understanding of business and international marketing strategy, it becomes nearly impossible to be successful and stand out from the crowd. In this course, students will discover how business and marketing work around the world. They will learn about topics such as regulations, market research, marketing plans, global trends, buying and selling internationally, and more. This course requires the following household materials: • Computer with: • Internet access • Word processing program • Slideshow presentation program • Camera for still photographs (either a digital or cell phone camera) • Video recording device with audio (computer camera, cell phone camera) • Audio recording device • Access to television, magazines, and radio • Calculator (phone calculator) • 5 miscellaneous products from around the house • Optional: • Poster board • Markers, crayons, or colored pencils • Scissors • Glue • Other arts and craft materials
MKT200D Understanding Products and Sales 1	Career Readiness Education	In this course, students will dig deeper into the world of marketing and what it means for business success. They will study branding, advertising, promotion strategies, and more through real-world applications and practices. Students will also learn about effective sales techniques and discover employment opportunities in marketing. This course requires the following household materials: • Computer with: • Internet access • Word processing program • Slideshow presentation program • Camera for still photographs (either a digital or cell phone camera) • Video recording device with audio (computer camera, cell phone camera, or similar) • Audio recording device • Access to television, magazines, and radio • Video props: telephone, calculator, pen and paper, graphs and charts, cash register (or something to represent one), purchase orders, packing slips, and spreadsheet • Optional: • Poster board • Markers, crayons, or colored pencils

Course Name ⬇	Subject	Course Description
MKT201D Understanding Products and Sales 2	Career Readiness Education	In MKT201D Understanding Products and Sales 2, students learn about effective sales strategies and management practices. This includes learning about sales expectations, best practices, and planning and building a clientele of long-term buyers. Students also explore topics related to sales management, such as management styles, and how to find, hire, train, motivate, and compensate sales teams.
ORN015 Welcome to Online Career Learning	Career Readiness Education , Additional Electives	The Welcome to Online Career Learning course is an introduction to the virtual learning environment and career learning for middle and high school students. The course begins with an orientation to the Online Middle and High School (OMHS). This exploration includes an introduction to the tools to locate and complete assignments, communicate with teachers, and monitor progress. The course also includes strategies for successful online learning such as effective time management. Career earning topics include an introduction to the program, curriculum, and school features. An overview of clusters, career and technical service organizations, and work-based learning are important elements of the career learning program. Students explore project based learning to prepare for course work in certain career courses. The course contains an overview of different productivity and collaboration tools. Lessons include tutorials, practice activities such as submitting a graded assignment or creating a weekly schedule, and real experiences of past and present career learning students.
OTH033 Veterinary Science	Career Readiness Education	As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course examines some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases affect not only the animals around us, but at times, us humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.
OTH039E2 Criminology	Career Readiness Education	Why do certain people commit horrible acts? Can we ever begin to understand their reasoning and motivation? Perhaps. The mental state of a criminal can be affected by many different aspects of life: psychological, biological, sociological, all of which have different perspectives and influences. Investigate not only how these variables affect the criminal mind but also how crimes are investigated and handled in the criminal justice system.
OTH050 Achieving Your Career and College Goals	Additional Electives, Career Readiness Education	Students explore their options for life after high school and implement plans to achieve their goals. They identify their aptitudes, skills, and preferences and explore a wide range of potential careers. They investigate the training and education required for the career of their choice and create a plan to be sure that their work in high school is preparing them for the next step. They also receive practical experience in essential skills such as searching and applying for college, securing financial aid, writing a resume and cover letter, and interviewing for a job. This course is geared toward 11th and 12th graders.
OTH070 Lifetime Nutrition and Wellness	Career Readiness Education	To keep our body and our mind running like finely tuned machines, we need to use the right fuel. For humans, that means nourishing our bodies with the right foods. In this course, you'll explore how food affects essential aspects of your life from your weight to how you age to how well you think. You'll also examine how outside influences—family, peers, and the media—can affect your diet and your perception of food and how to set yourself up for nutritional success. Are you interested in a career in holistic wellness? Start your health journey now with Nutrition and Wellness.

Course Name ⇟	Subject	Course Description
OTH091 Law and Order	Career Readiness Education	Every society has laws that its citizens must follow. From traffic laws to regulations on how the government operates, laws help provide society with order and structure. Our lives are guided and regulated by our society's legal expectations. Consumer laws help protect us from faulty goods; criminal laws help protect society from individuals who harm others; and family law handles the arrangements and issues that arise in areas like divorce and child custody. This course focuses on the creation and application of laws in various areas of society. By understanding the workings of our court system, as well as how laws are actually carried out, students become more informed and responsible citizens.
OTH092 Health Sciences I	Career Readiness Education	Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and measles identified and diagnosed? Health sciences provide the answers to questions such as these. This course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.
OTH094-DYN Health Science II	Career Readiness Education	Challenging. Variable. Rewarding. These three words can be used to describe many careers in the health sciences. In this course, you will learn more about what it takes to be a successful health science professional, including how to communicate with patients. You'll explore the rights and responsibilities of both patients and health science professionals in patient care and learn more about how to promote wellness among patients and health care staffs. Finally, you'll learn more about safety in health science settings and the challenges and procedures of emergency care, infection control, and blood-borne pathogens.
OTH110E2 Understand Child Development	Career Readiness Education	This course introduces students to the unique qualities of young children from infants to age eight, and demonstrates how to work with each child in ways that correspond with their developmental level, and their social and cultural environment. The course includes learning theories and research as well as information about the importance of play and technology in a young child's learning process. Other topics covered include readiness, assessment, working with children and families from diverse cultures, working with children with special needs, and the early stages of reading, writing, and general cognitive development.
OTH121 Principles of Education & Training	Career Readiness Education	This course is designed to enable students to explore various career opportunities within the Education and Training Cluster, including the Teaching/Training Pathway, the Professional Support Services Pathway, and the Administration and Administrative Support Pathway. The course covers essential skills needed for success in the workplace, including decision making, teamwork and collaboration, conflict management, employability skills (e.g., problem solving, professionalism, and leadership), and ethics in business. In addition, the course covers subjects related to building a career and achieving success, such as career testing, higher learning, and portfolio development. Professional communication, effective written communication, and mathematics in various workplace settings are also discussed.

Course Name ⇟	Subject	Course Description
OTH122D Child Growth, Guidance, and Care	Career Readiness Education	This course addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society and pursue careers related to the care, guidance and education of children, including those with special needs.
OTH123D Educational Practices 1	Career Readiness Education	This course can help prepare students for a career in education. The course will help students gain valuable knowledge over topics like leadership, learning styles, and how to create a successful learning environment.
OTH124D Educational Practices 2	Career Readiness Education	This course helps prepare students for a career in education. The course will help students gain valuable knowledge of topics like professional development, employability skills, communication, collaboration, and conflict management.
OTH131 Architectural Design I	Career Readiness Education	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 andnavigation systems to create them.
OTH161 Early Childhood Education 1	Career Readiness Education	Are you curious to see what it takes to educate and nurture early learners? Use your curiosity to explore the fundamentals of childcare, like nutrition and safety, but also the complex relationships caregivers have with parents and their children. Examine the various life stages of child development and the best educational practices to enrich their minds while thinking about a possible future as a childcare provider!
OTH162 Early Childhood Education 2	Career Readiness Education	Building on the previous prerequisite course, discover the joys of providing exceptional childcare and helping to develop future generations. Learn the importance of play and use it to build engaging educational activities that build literacy and math skills through each stage of childhood and special need. Use this knowledge to develop your professional skills well suited to a career in childcare!
OTH171 Culinary Arts 1	Career Readiness Education	Thinking of a career in the food service industry or looking to develop your culinary skills? This introductory course will provide you with basic cooking and knife skills while preparing you for entry into the culinary world. Discover the history of food culture, food service, and global cuisines while learning about food science principles and preservation. Finally, prepare for your future by building the professional, communication, leadership, and teamwork skills that are critical to a career in the culinary arts.
OTH172 Culinary Arts 2	Career Readiness Education	Did you know that baking is considered a science? Building on the prior prerequisite course, discover how to elevate your culinary skills through the creation of stocks, soups, sauces, and learn baking techniques. Examine sustainable food practices and the benefits of nutrition while maintaining taste, plating, and presentation to truly wow your guests. The last unit in this course explores careers in the culinary arts for ways to channel your newfound passion!

Course Name ↓	Subject	Course Description
OTH181 Fashion Design	Career Readiness Education	Are you a fashion trend follower? Are you drawn to how designers have pulled together fabrics and colors to create memorable pieces? Do you dream of designing your own line of clothing or accessories? Learn what it takes to get started in the fashion industry, from the careers available to new technology and trends reshaping the industry every day. Start creating!
OTH182 Interior Design	Career Readiness Education	Do you have a flare for designing and decorating? If so, this course will show you how to turn your interests and skills into a career. From professionals who own their own business to those working within a larger company, interior designers do it all—from planning the color scheme to choosing furniture and light fixtures—with the end goal of creating a space where people can live or work comfortably, safely, and happily. You'll learn about color, texture, trends and styles over time, how homes are built, and "green" options for homes and businesses. Most importantly, you'll learn how to work with a client to meet their unique needs and style requirements. This course will help you to identify parts of interior design that are most interesting to you, helping you to chart the path for your future.
OTH190 Managing the Learning Environment	Career Readiness Education	This course examines philosophies of education, instructional strategies and practices, and the development of successful learning environments. This course covers assessments, diversity in the classroom, and the promotion of early language, literacy, and creativity. The first semester also includes an exploration of professional qualities and development. Students will complete and submit a final portfolio of their work, including a philosophy of education, lesson plans, and other useful materials based on the competency standards and functional areas of the Child Development Associate certification.
OTH200 Introduction to Education	Career Readiness Education	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.
OTH211E2 Introduction to Mechanical Engineering	Career Readiness Education	This course introduces students to the field of mechanical engineering and helps them develop an appreciation for how engineers design hardware that builds and improves societies around the world. The course covers topics such as technical problem-solving skills, design, engineering analysis, and modern technology to provide a solid mechanical engineering foundation students need for future success in the field.
OTH212E2 Engineering Drawing and Design 1	Career Readiness Education	In this course students learn about actual product design through all phases, from concept through manufacturing, marketing, and distribution. Students learn how engineering design practices improve output quality and also learn management methods to identify the causes of defects, remove them, and minimize manufacturing variables.
OTH213E2 Engineering Drawing and Design 2	Career Readiness Education	This is the second semester of Engineering Drawing and Design. In this course students continue their study of learning about actual product design through all phases, from concept through manufacturing, marketing, and distribution. Students learn how engineering design practices improve output quality and also learn management methods to identify the causes of defects, remove them, and minimize manufacturing variables.

Course Name ⬇	Subject	Course Description
OTH220 Educational Technology	Career Readiness Education	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."
OTH223E3 Intro to Engineering Science	Career Readiness Education	Coming Soon!
OTH224 Project Management	Career Readiness Education	Coming Soon
OTH233 Architectural Design II	Career Readiness Education	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 innovative technology.
OTH233 Architectural Design II	Career Readiness Education	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 innovative technology.
OTH250 Culinary Arts 3: Baking and Pastry	Career Readiness Education	Whether you aspire to be a world-class chef or just want to learn the skills needed to create your own dishes, Culinary Arts 3 will help you build a strong foundation and grow your knowledge of this exciting industry. In this course, you will explore baking and desserts, learn how to prepare proteins, and study nutrition and safety in the kitchen. You will also enhance your understanding of sustainability in the food industry, learn to prepare meals from a global perspective, and dissect the business of cooking, from managing a kitchen to successfully running a catering company. Discover the delights that await you on this delicious culinary adventure!
OTH260E2 Counseling & Mental Health	Career Readiness Education	This course will include the following units: Educator Self-Care, Positive Relationships, Navigating Life's Challenges, Maintaining Mental Health, Conflict Management, Technology Implications: Consumer & Family, Web Ethics & Safety, Lifestyle Choices, Managing Diversity, Teamwork & Collaboration, Goals & Decision Making, Family & Community Services, Personal Development: Self-Esteem, Promoting Creativity, Communication Styles, Management of Energy, Money & Tasks, Developing Positive Sibling Relationships, identifying Personal Priorities, and Community Service.

Course Name ⇟	Subject	Course Description
OTH350 ServSafe Food Handler Certification	Career Readiness Education	Do you dream of working in the food industry, dazzling guests' tastebuds with delectable dishes? Before you can deliver on your dreams, you first must know how to keep guests safe. In this course, you'll learn the ins and outs of the food industry, food preparation safety, and keeping workspaces and surfaces clean to prevent foodborne illness. You'll explore understanding and preventing pathogens from spreading to food and setting up a foodservice facility to maintain compliance. You'll also learn about the wide variety of job options and titles within the food industry. Let's get ready to learn the important safety measures that lead to your culinary dreams!
SCI130-PBL Forensic Science	Career Readiness Education	This course is a Project Based Learning course (PBL) and is designed as an exploration of forensic science. Students study the concepts of crime scene documentation, trace evidence, DNA evidence, toxicology, and various types of crimes in addition to other common related functions in a forensic science career. Students complete projects to develop a deeper understanding of the roles these career functions play.
SCI330 Anatomy and Physiology	Career Readiness Education	Starting with the relationship between anatomy and physiology, students will then learn about cell structure and their processes. Learners will also discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems. Students will learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and the endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics. Finally, students will explore the importance of accurate patient documentation as well as technology used in the industry.
SCI340 Intro to Anatomy & Medical Terminology	Career Readiness Education	This course is designed to familiarize the student with the language of medicine, through the study of prefixes, suffixes, root words, abbreviation, and pronunciation of words. The curriculum also includes an overview of anatomy and physiology in order to increase the understanding of medical vocabulary. Students will examine the organization of the integumentary, musculoskeletal, hematic, lymphatic and immune, and cardiovascular systems in the human body. They will become familiar with the medical terms that relate to the respiratory, digestive, nervous, endocrine, reproductive, and excretory systems. Students will also examine terms related to the sensory organs, with a concentration on the organs for hearing, sight, and smell. This course will prepare students to better understand spoken and written interactions in all medical environments.
TCH005DE2 Middle School Photography	Career Readiness Education	TCH005ADE2 Middle School Photography is eDynamic curriculum that teaches the basics of using a camera, lighting, and how to choose great subjects to create magazine-worthy photographs. This course is designed to provide students with the skills needed to become proficient in photography. Through a combination of lectures, discussions, and hands-on activities, students will learn the core terminology, the various tools, the elements of art, and principles of design that can impact the quality of a photograph. Students will be able to identify the key techniques and methods that can be used to create the perfect photograph.

Course Name ⬇	Subject	Course Description
TCH006E2 Introduction to the Internet	Additional Electives, Career Readiness Education	TCH006 Introduction to the Internet is a CodeHS introductory computer science course that teaches the basics of designing a web page, and how information is represented digitally and sent over the Internet. Students will create a personal portfolio website showing projects they build throughout the course. With a unique focus on creativity, problem solving and project based learning, Introduction to the Internet gives students the opportunity to explore several important topics of computing using their own ideas and creativity to develop an interest in computer science that will foster further endeavors in the field. Each lesson includes at least one formative short multiple-choice quiz. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit.
TCH007E2 World of Computing	Additional Electives, Career Readiness Education	TCH007 World of Computing is a CodeHS introductory computer science course introducing the basics of programming with Karel the Dog, and the history and impact of computing. Students will learn to code using blocks to drag and drop, but they can switch between blocks and text as desired. With a unique focus on creativity, problem solving, and project based learning, World of Computing gives students the opportunity to explore several important topics of computing using their own ideas and creativity to develop and interest in computer science that will foster further endeavors in the field. Each lesson includes at least one formative short multiple-choice quiz. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit.
TCH008E2 Web Design	Additional Electives, Career Readiness Education	TCH008 Web Design is a CodeHS course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS, and will create their own live homepages to serve as portfolios of their creations. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi-page websites. Each lesson includes at least one formative short multiple-choice quiz. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit.
TCH025 Touch System Data Entry	Career Readiness Education	Watching a keyboard wizard work their magic over the keys is mesmerizing, and now, you can learn the magic of their movements! In this course, you'll build a solid foundation of typing skills, develop good habits and techniques, and build confidence as you become a typing wiz. You'll also learn proper finger placement, correct posture to improve speed and accuracy, and explore future careers where typists thrive. Get ready to become a typing magician today!
TCH027 Green Design and Technology	Career Readiness Education	This course examines the impact of human activities on sustainability while exploring the basic principles and technologies that support sustainable design. Students learn about the potential for emerging energy technologies such as water, wind, and solar power. They find out how today's businesses are adapting to the increased demand for sustainable products and services. In this course, students develop a comprehensive understanding of this fast-growing field.
TCH028DE2 Digital Arts I	Career Readiness Education	In this exploratory course, students learn the elements and principles of design as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they've learned. They explore career opportunities in the design, production, display, and presentation of digital artwork. They respond to the artwork of others and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.

Course Name ⇅	Subject	Course Description
TCH028DE3-PBL Digital Arts 1	Career Readiness Education	This course is a Project Based Learning course (PBL). In this exploratory course, students learn the elements and principles of design, as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they've learned. They learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.
TCH029DE2 Digital Arts II	Career Readiness Education	Students build on the skills and concepts they learned in Digital Arts I as they develop their vocabulary of digital design elements. By the end of the course, they will have created a collection of digital art projects for their digital design portfolio.
TCH029DE3-PBL Digital Arts 2	Career Readiness Education	This course is a Project Based Learning course (PBL). Students build on the skills and concepts they learned in Digital Arts I as they develop their vocabulary of digital design elements. By the end of the course, they will have created a collection of digital art projects for their digital design portfolio.
TCH031E2 Digital Photography 1	Career Readiness Education	Have you wondered how professional photographers manage to capture that perfect image? Gain a better understanding of photography by exploring camera functions and the elements of composition while putting theory into practice by taking your own spectacular shots! Learn how to display your work for exhibitions and develop skills important for a career as a photographer.
TCH032E2 Digital Photography 2	Career Readiness Education	Building on the prior prerequisite course, further develop your photography skills by learning more professional tips, tricks, and techniques to elevate your images. Explore various photographic styles, themes, genres, and artistic approaches. Learn more about photojournalism and how to bring you photos to life. Using this knowledge, build a portfolio of your work to pursue a career in this field!
TCH033 Digital Photography 3	Career Readiness Education	We are surrounded by images; in advertisements, on websites, in magazines, and on billboards. Learn how to effectively critique photographs so you can better understand composition and go on to create more eye-catching photographs on your own. Examine various aspects of the photography field including specialty areas, ethics, and famous photographers throughout history.
TCH035E2 Image Design and Editing	Career Readiness Education	This introductory design course is for students who want to create compelling, professional-looking graphic designs and photos. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational skills. They use GIMP software to create a graphic design portfolio with a wide variety of projects involving the mastery of technical topics, such as working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. The projects help students develop the skills they need to create and edit images of their own.

Course Name ⇅	Subject	Course Description
TCH035E3-PBL Image Design and Editing	Career Readiness Education	This course is a Project Based Learning course (PBL). This introductory design course is for students who want to create compelling, professional-looking graphic designs and photos. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational skills. They use software to create a graphic design portfolio with a wide variety of projects involving the mastery of technical topics, such as working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. The projects help students develop the skills they need to create and edit images of their own.
TCH047E2-PBL Web Design 1	Career Readiness Education	The TCH047-PBL Web Design course is a project-based course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS, and will create their own live homepages to serve as portfolios of their creations. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi page websites. Students will learn the foundations of user interface design, rapid prototyping and user testing, and will work together to create professional, mobile responsive websites, as well as foundational cybersecurity topics including digital citizenship and cyber hygiene, software security, networking fundamentals, and basic system administration.
TCH047 Web Design 1	Career Readiness Education	TCH047 Web Design is a CodeHS course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS, and will create their own live homepages to serve as portfolios of their creations. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi page websites. Students will learn the foundations of user interface design, rapid prototyping and user testing, and will work together to create professional, mobile responsive websites. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example web pages to explore, and web design exercises in which students develop and publish their own web sites. Each lesson includes at least one formative short multiple choice quiz. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit.
TCH055E2-PBL Web Communications	Career Readiness Education	This semester-long course for high school freshmen is an exploratory course in web communications. It explores and delves into applications encompassing: digital citizenship, information literacy, creative credit and copyright, online and in-person collaboration, designing and developing accessible websites as an avenue to personal creativity, and understanding structural aspects of computing (e.g., hardware, servers, devices, file organization). The course is taught utilizing a project-based learning (PBL) approach. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example web pages to explore, and web design exercises in which students develop and publish their own web sites. Each lesson includes at least one formative short multiple choice quiz. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit.

Course Name ⬇	Subject	Course Description
TCH06 Digital Literacy IC3 Spark	Career Readiness Education	TCH06 Digital Literacy IC3 Spark is MSi curriculum that prepares students for the IC3 Digital Literacy Certification program and is dedicated to ensuring learners of all ages can not only navigate our digital world but thrive in it. This course provides an overview of core computing characteristics and introduces the use of word processing, presentation, database applications, and digital communication. Students will learn to identify core computer components and understand the use of storage and operating system software and manage files and folders. In addition, students will acquire knowledge about using Microsoft Word, PowerPoint, and Excel, creating text and shapes, and using transitions and effects.
TCH070 Game Design for Chromebooks 1	Career Readiness Education	Are you ready to take your passion for game design and turn it into a real-life prototype? In this course, you'll learn the fundamentals of game design including scripting in JavaScript, game mechanics, audio editing, storytelling, and game world development. And the best part? You'll apply these skills to build an arcade-style galactic adventure game using PlayCanvas! Let's get ready to blast off into the world of game design!
TCH071 Foundations of Game Design 1	Career Readiness Education	With this course, students will learn about different video game software and hardware, various gaming platforms, the technical skills necessary to design games, troubleshooting and Internet safety techniques, and the history of gaming. Students will even have the opportunity to create their own plan for a 2D video game! With the knowledge and skills students will gain in this course, they can take their hobby and turn it into a potential career.
TCH072 Foundations of Game Design 2	Career Readiness Education	We live in a technologically advanced world. And a huge part of that world is based in virtual reality and video games. Do you enjoy playing video games? Have you ever thought about designing your own video game? By signing up for Game Design II, you will have the opportunity to explore all things related to video game design. This course will give you the skills to conceptualize, design, and fully create your very own video game. Explore various video game software and hardware, sharpen your coding skills, learn about game storylines, player progression, and algorithmic decision making. This course allows you to analyze player goals, player actions, rewards, and challenges, among many other game play components. Utilize twenty-first century skills involving creativity, critical thinking, communication, collaboration, and technical expertise. When you sign up for Game Design II, you are putting yourself at the forefront of a future in technology!
TCH073E2-PBL Video Game Design 1	Career Readiness Education	The CodeHS video game design curriculum teaches the foundations of creating video games in JavaScript. The course utilizes a project-based learning approach. The content is fully web-based, with students writing and running code in the browser. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours of hands-on programming practice in total. Students write and run JavaScript programs in the browser using the CodeHS editor.
TCH076E2 3D Modeling 1	Career Readiness Education	Heart valves, cars, cartoons, and buildings may not seem to have much in common, but they all share one spectacular attribute: all originated as a 3D model. 3D modeling has changed the way the world makes things, and in this course, you'll learn the basics to begin creating in 3D! You'll learn how different 3D models are built and how to practice using a variety of modeling methods. By the end of the course, you'll walk away with a portfolio of your ingenious modeling ideas. 3D modeling is an essential part of the modern world and soon, you'll be able to contribute yourself!

Course Name ⇳	Subject	Course Description
TCH077 3D Modeling 2	Career Readiness Education	Many buildings that are rendered in the real world first are constructed in a digital 3D world that depicts the aesthetics, environment, and conditions of what will come to be. In this course, you will be introduced to the tools and techniques needed to create works of 3D art. You will bring your objects to life with color, textures, lighting, and shadow all while simulating the movement of world around. Are you ready to bring beautiful objects to life in a 3D world? Let's get started today!
TCH080 Introduction to Middle School Game Design 1	Additional Electives, Career Readiness Education	We love to play video games, but have you ever wanted to build your own? If you are interested in a career in technology but also want a creative outlet, Game Design might be the field for you. Learn how to build a game from the ground up in this interactive and hands-on course that will teach you all the ins and outs of making your own game.
TCH081 Middle School Game Design: Create a Game 2	Additional Electives, Career Readiness Education	This course is a Project Based Learning course (PBL). Now that you have the basics of game design down, let's use your creativity to develop a game from start to finish! Develop your game creation skills and practice with the tools professionals use to launch your career options in the field of game design. The content of this course also applies to certification exams.
TCH083 Animation 1	Career Readiness Education	Have you ever watched a cartoon or played a video game where the animation of characters captivated you so much you wanted to create your own? If so, it's time to immerse yourself in the world of animation. Meet the industry players such as directors, animators, and 3D modelers. Develop your story by exploring design, the 12 principles of animation, creating a storyboard, and leveraging the tools of the trade. Let's bring your story to life with animation! It's time to start animating like the pros! In this hands-on course, you'll immediately start exploring the software Blender, your gateway to 3D modeling, computer animation, and postproduction procedures used in the film industry. Discover 3D modeling and animation of characters. Explore the basics of human anatomy and form to apply rigging, joints, and texture. Examine rendering and lighting effects and how to apply sound. And discover careers so you can start using your new skills right away.
TCH08E2 Coding Fundamentals: Intro	Additional Electives, Career Readiness Education	This course is designed as an exploration of career pathways in Computing. In this course students explore basic concepts in the broad areas within the National Career Clusters® Framework, as well as career option. Students study the concepts of digital life, how coders write programs, programming languages, the development life cycle, security, and more. They also complete a Capstone Project.
TCH100E2-PBL Computer Science I	Career Readiness Education	TCH100-PBL Computer Science I is a CodeHS course that teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Once students complete the CodeHS Computer Science I course, they will have learned material equivalent to a semester college introductory course in Computer Science and be able to program in JavaScript. The course is designed using a project-based learning (PBL) approach. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example web pages to explore, and web design exercises in which students develop and publish their own web sites. Each lesson includes at least one formative short multiple choice quiz. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit.

Course Name ⇅	Subject	Course Description
TCH100 Foundations of Computer Science	Career Readiness Education	TCH100 Foundations of Computer Science is a CodeHS course fully aligned to the CSTA 3A standards. This course covers concepts in the CSTA framework including Algorithms & Programming, Data & Analysis, and Networks & the Internet.
TCH100 Software Apps PowerPoint with Exam Prep	Career Readiness Education	TCH100 Software Apps: PowerPoint with Exam Prep is MSi curriculum that prepares students for the Microsoft Office Specialist Exam. This course introduces users to PowerPoint 2019 and covers: managing presentations, slides, text, shapes, and images, tables, charts, and SmartArt, 3D models and media, and transitions and animations. Students will learn basic terminology, modify slide masters and layouts, add/remove properties, set up slide shows and print options, use zoom techniques, add headers and footers, apply formatting and styles, insert hyperlinks and sections, resize and crop images, create shapes, insert audio/video clips, and set transition/animation effects and motion paths.
TCH105DE3-PBL Computer Literacy	Career Readiness Education , Additional Electives	In this introductory course, students become familiar with the basic principles of a personal computer, including the internal hardware, operating system, and software applications. Students gain practice in using key applications such as word processing, spreadsheet, and presentation software, as well as understand social and ethical issues around the Internet, information, and security.
TCH105E2 Computer Literacy	Career Readiness Education	In this introductory course, students become familiar with the basic principles of a personal computer, including the internal hardware, operating system, and software applications. Students gain practice in using key applications such as word processing, spreadsheet, and presentation software, as well as understand social and ethical issues around the Internet, information, and security.
TCH110 Computer Science JavaScript I	Career Readiness Education	TCH110 Computer Science: JavaScript I is a CodeHS course that covers the first semester of the Introduction to Computer Science in Javascript course series. In this course, students are introduced to the foundations of computer science and the basics of programming with the JavaScript language. After completing this course, students develop the skills needed to take the second-semester course in this series. Students learn material equivalent to a semester college introductory course in computer science and can program in JavaScript upon completing both course A and course B in this series.
TCH110 Software Apps Word with Exam Prep	Career Readiness Education	TCH110 Software Apps: Word with Exam Prep is MSi curriculum that prepares students for the Microsoft Office Specialist Exam. This course teaches learners how to use the Word Application Interface and familiarize themselves with Word options. It covers topics such as navigating and customizing the ribbon, editing documents, formatting text, managing comments, and tracking changes to create professional documents.
TCH112 Microsoft Word Fundamentals	Career Readiness Education	Learn to effectively and efficiently use one of the most common tools of business, school, and personal correspondence! Discover how to format and style documents using fonts, colors and editing tools, create tables, use bullets and numbering, and insert images. Skills you learn in this course can be applied immediately and prepares you to take the MOS Word certification exam, and content is applicable to the Microsoft Office Suite certification exam.

Course Name ⬇	Subject	Course Description
TCH113 Computer Science II	Career Readiness Education	The CodeHS Computer Science II course is designed to foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. This course extends on concepts learned in Computer Science I by deepening student understanding of system and network protocols, and exposing students to the Java programming language.
TCH120 Engineering Design & Presentation	Career Readiness Education	This course will cover essential aspects of engineering design and communication. Students will explore the significance of computer-aided design and drawing in engineering, integrate ethical considerations and regulations into design scenarios, and develop professional behaviors. Students will learn effective communication of engineering findings and various methods of data collection and analysis. Students will engage in analyzing the engineering process, practice brainstorming and critical thinking, and create or improve products while maintaining detailed engineering documentation.
TCH122 Microsoft Excel Fundamentals	Career Readiness Education	Discover the real-world uses of Microsoft Excel and its impact on business, academic, and personal applications. Move from inserting and manipulating data, to working with tables, charts, graphs, and calculations. Content of this course will also be applicable to the Microsoft Office Suite certification exam.
TCH125 Digital Literacy IC3 Computing Fundamentals	Career Readiness Education	TCH125 Digital Literacy IC3 Computing Fundamentals is MSi curriculum that prepares learners for the IC3-GS5 Computing Fundamentals Certification Program. The course covers computer hardware, software, operating systems, peripherals, mobile devices, troubleshooting, computer networking, and the Internet. It includes quizzes, projects, and assessments to measure learners' understanding and progress. The curriculum is aimed at helping learners understand the fundamentals of computing to support the digital economy.
TCH126 Digital Literacy IC3 Living Online	Career Readiness Education	TCH126 Digital Literacy IC3 Living Online is MSi curriculum that prepares students for the IC3-Living Online Certification Program. This course introduces students to the concepts of electronic communication via email software and how to create Calendars and Events and Appointments. Students will learn how to manage personal data and personally identifiable information, maintain digital privacy and security, recognize ethical behavior, assess the validity of online information, explain features of secure passwords, and identify mental and physical health risks associated with online technology.
TCH127 Digital Literacy IC3 Key Applications	Career Readiness Education	TCH127 Digital Literacy IC3 Key Applications is MSi curriculum that prepares students for the IC3-GS5 Key Applications Certification program and is dedicated to ensuring learners of all ages can understand the Key Application software. This course covers essential skills in word processing, presentation, spreadsheet, and database applications as well as refresher concepts in tablets and apps, Web apps versus local apps, and file management. Throughout the course, students will be facilitated through knowledge checks, interactive quizzes, and projects to solidify their understanding of the course content. Upon completion of the course, students will be better equipped to meet the demands of the IC3-GS5 Key Applications Certification program domain objectives.

Course Name ⇅	Subject	Course Description
TCH130 Foundations of Engineering Science	Career Readiness Education	This course outlines the foundational skills and principles necessary for success in engineering. Students explore teamwork dynamics and leadership roles, progressing to understand mathematical concepts like algebra, geometry, statistics, and probability as they relate to engineering. Students gain hands-on experience in conducting experiments, analyzing data, and designing prototypes. Additionally, students explore fluid power systems, basic construction techniques, and emerging trends in the industry.
TCH132 Microsoft PPT Fundamentals	Career Readiness Education	Learn to create clean and professional presentations while also building your skills as a speaker, leader, and marketer! Create and format presentations while inserting multimedia, images, transitions, and animations to make a dynamic final product! Content of this course will also be applicable to the Microsoft Office Suite certification exam.
TCH135 Scientific Research and Design	Career Readiness Education	Coming Soon
TCH140 Principles of Applied Engineering	Career Readiness Education	In this course, students will explore specialized areas of engineering and related fields by focusing on scientific inquiry, interdisciplinary integration, and project-based learning. Through research, projects, and collaboration, students will learn about manufacturing, electronic theory, thermal energy, kinematics, material processes, and other topics that provide insights into the intersection of technology, society, and innovation. In addition, course content will inform students about technical writing, construction drawings, computing advancements, and design and documentation. This course furthermore helps students prepare for college-level study and careers in STEM fields.
TCH142 Microsoft Access Fundamentals	Career Readiness Education	Learn to create, manage, and link databases for essential business operations. Develop your database, design, and planning skills and learn to implement security features to protect and back-up your important data. Put your new skills into practice with a capstone project. The content of this course will be applicable to the Microsoft Office Suite certification exam.
TCH145 Data Science	Career Readiness Education	This course discusses the essential skills of data scientists which include data collection, analyzing data, and how to build statistical algorithms and models to represent meaningful insights and results.
TCH150 Engineering Design	Career Readiness Education	This course outlines key principles and advanced concepts vital for success in engineering design. Beginning with professionalism in the sciences, students learn essential skills like effective communication and teamwork. Subsequent units cover diverse topics including lab safety procedures and advanced computer-aided drawing techniques. Ethical considerations in robotics are explored alongside hands-on projects such as designing a functional robotic hand. Emphasizing collaboration, critical thinking, and practical application, this course equips students with the knowledge needed for a career in engineering.
TCH160 Introduction to Robotics 1	Career Readiness Education	Are you fascinated with how machines work? Robots are machines, and they are all around us, from helping doctors in surgeries to helping to keep our homes clean. Explore the physics, mechanics, motion, and the engineering design and construction aspects used to develop robots. Learn how models are created through both sketches and software. Discover STEM careers and the education needed to enter this high-demand field.

Course Name ⬇	Subject	Course Description
TCH162 Introduction to Robotics 2	Career Readiness Education	The robots have invaded… and they're here to make our lives easier. You've learned about the basics of robotics and STEM careers, but now we're going to learn about manipulating the physical world to create desired effects. In this course, you'll learn to manipulate electrical signals to create logic and memory, how to quantify the physical world through variables, and how to have an impact through tools. You'll discover how to choose the best tools and materials, how to create AI, and how to take an idea from initial planning to a completed project. Let's continue the pursuit of a career in robotics so the friendly invasion can thrive!
TCH170 Game Design for Chromebooks 2	Career Readiness Education	In this course, students will build on their prototype focusing on techniques to add difficulty but also increase the fun. "Fun" may sound like an elusive quality to achieve, but understanding your audience's needs and potential immersive elements as well as the alignment and flow of your game progression will put you well on the way to creating a hit!
TCH171 Software Apps PowerPoint	Career Readiness Education	Coming Soon
TCH172 Software Apps Word	Career Readiness Education	Coming Soon
TCH173 Digital Media After Effects	Career Readiness Education	coming soon
TCH174 Digital Media Illustrator	Career Readiness Education	coming soon
TCH175 Digital Media Photoshop	Career Readiness Education	coming soon
TCH176 Digital Media Premiere Pro	Career Readiness Education	coming soon
TCH177 Software Apps Excel	Career Readiness Education	coming soon
TCH178 Software Apps Word Expert	Career Readiness Education	coming soon
TCH179 Digital Media InDesign	Career Readiness Education	coming soon
TCH180 Intro to Game Design with p5play	Career Readiness Education	This course discusses the foundations of game design and p5play. You will learn important basic skills including programming in JavaScript and 5play. You will also apply your knowledge with several projects.

Course Name ⇕	Subject	Course Description
TCH181 Intro to Artificial Intelligence	Career Readiness Education	This course introduces artificial intelligence concepts. You will learn important basic skills including how to create predictive models. You will learn about the connection between AI in gaming and how AI is used in chatbots. You will also apply your knowledge with several projects.
TCH200 Apple Swift App Development	Career Readiness Education	This course introduces students to Swift and prepares students to obtain the App Development with Swift Certification. Students will get an insight into key computing concepts and a strong foundation in programming apps using Swift. Over 7 modules, students will learn everything from absolute basics like planning and designing apps to more complex tasks like using the interface builder and programming using Swift language. The course contains guided tutorials, do-it-yourself projects, and great resources that will help students practice and learn how to work in Swift."
TCH210 Software Apps Word Expert with Exam Prep	Career Readiness Education	TCH210 Software Apps: Word Expert with Exam Prep is MSi curriculum that prepares students for the Microsoft Office Specialist Exam. This course focuses on helping students become Word experts by introducing them to advanced elements of Word 2019 documents. They will learn to modify templates, compare and combine documents, link to external content, enable and configure macros, customize the Quick Access Toolbar, create and manage styles, and more. Additionally, students will explore Word's advanced Building Block tools, forms and controls, macros, mail merges, and other features. By the end of the course, students should be able to manage and use Word's more advanced features confidently.
TCH220E2-PBL Computer Science Principles	Career Readiness Education	TCH220-PBL Computer Science Principles is a CodeHS course that introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. The course utilizes a project-based learning approach. With a unique focus on creative problem solving and real-world applications, the CodeHS Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field.
TCH220 Software Apps Excel with Exam Prep	Career Readiness Education	TCH220 Software Apps: Excel with Exam Prep is MSi curriculum that prepares students for the Microsoft Office Specialist Exam. This course introduces students to the Excel application interface and covers topics related to managing worksheets and workbooks, data cells and ranges, tables and table data, formulas and functions, and charts. Students will learn how to import external data, create, and edit named ranges, apply number formats, create charts, and format text using functions. They will also learn to add and modify chart elements and apply chart styles. Upon completion of this course, students will be able to navigate the Excel application interface, create formulas, manipulate data, and create charts.
TCH240E2 Virtual Reality	Career Readiness Education	TCH240 Virtual Reality is a Code HS course that teaches students the basics of building virtual reality worlds using HTML and the A-Frame JavaScript Library. Through this course, students will build their own virtual reality worlds that are compatible with VR devices, including smartphone VR headsets. Every lesson is made up of short video tutorials, example programs, quizzes, programming exercises, challenge problems, and unit tests.

Course Name ⇟	Subject	Course Description
TCH300 Advanced Cybersecurity	Career Readiness Education	TCH300A Advanced Cybersecurity is a CodeHS course that covers the first-semester content of a capstone course on cybersecurity. Students will learn advanced topics in the field of cybersecurity, including advanced cryptography, and networking.
TCH301 Comp Install Config & Exam Prep	Career Readiness Education	Coming Soon
TCH310 Digital Media Photoshop with Exam Prep	Career Readiness Education	TCH310 Digital Media: Photoshop with Exam Prep is MSi curriculum that prepares students for the Adobe Certified Professional Exam. The course covers the fundamentals of working in the design industry. It will familiarize students with the key terminology related to digital images, introduce them to the purpose, audience, and needs of preparing images, and teach them basic design principles and best practices. The course will also cover project setup and interface, document organization, creating and modifying visual elements, and publishing digital media. Students will be exposed to using layers, modifiable visibility, and nonprinting design tools; importing assets; managing colors, swatches, gradients, brushes, symbols, styles, and patterns, understanding destructive and nondestructive editing; and preparing images for export
TCH310E2 Mobile Apps	Career Readiness Education	TCH310 Mobile App is a CodeHS course that teaches students to create mobile apps using React Native, a popular platform-agnostic framework developed by Facebook and used by successful tech companies including Airbnb, Facebook, Instagram, Tesla, and more. Students will design and build applications to run smartphones and will use the latest tools and technologies available for mobile app development.

At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit. Included in each lesson is a formative short multiple choice quiz. |
| TCH320 Digital Media InDesign with Exam Prep | Career Readiness Education | TCH320 Digital Media: InDesign with Exam Prep is MSi curriculum that prepares students for the Adobe Certified Professional Exam. This course introduces Adobe InDesign software, which can be used in the design industry. It covers topics such as identifying and communicating design plans, understanding copyright and intellectual property licensing laws, and demonstrating knowledge of design principles. The course also covers project setup, interface navigation, and asset management. Additionally, students will learn how to create and modify visual elements, using tools such as core features and effects, and how to create dynamic content and media. Lastly, the course will cover how to prepare and export documents to the Web, print, and other digital devices. |
| TCH321 Software Apps Excel Expert with Exam Prep | Career Readiness Education | TCH321 Software Apps: Excel Expert with Exam Prep is MSi curriculum that prepares students for the Microsoft Office Specialist Exam. This course is designed to help students gain an in-depth understanding of workbooks, data manipulation, logical operations, functions, PivotTables, and PivotCharts. Students will learn how to copy macros between workbooks, enable macros in a workbook, protect worksheets and cell ranges, configure formula calculation options, use the Fill feature, create custom number formats, manage comments, use language-specific features, manage data validation tools, remove duplicate values, create, and modify charts, use lookup references, and consolidate data. At the end of the course, students will be able to create and modify Pivot Tables, understand slicer features, and create and manipulate Pivot Charts. |

Course Name	Subject	Course Description
TCH323E2 Introduction to Java Programming	Career Readiness Education	TCH323 Introduction to Java 1 is a CodeHS course that teaches students the basics of object-oriented programming with a focus on problem solving and algorithm development. Students learn basic Java, methods, data structures, classes, and object-oriented programming in this course. It is the first course in a two course sequence and should be completed before TCH324 Introduction to Java 2. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours of hands-on programming practice in total. Several units have free response questions that have students consider the applications of programming and incorporate examples from their own lives. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the Java concepts covered in the unit. Included in each lesson is a formative short multiple choice quiz.
TCH325E2 Network+ With Exam Prep	Career Readiness Education	This course includes direct instruction content, labs, and exam preparation materials related to the CompTIA Network+ certification exam. This course includes direct instruction content, labs, and exam preparation materials related to the CompTIA Network+ certification exam.
TCH330 Digital Media Illustrator with Exam Prep	Career Readiness Education	TCH330 Digital Media: Illustrator with Exam Prep is MSi curriculum that prepares students for the Adobe Certified Professional Exam. This course gives students comprehensive training in the fundamentals of design. Topics covered include identifying the purpose, audience, and audience needs for preparing images, communicating with colleagues and clients about design plans, understanding copyright and licensing, using design principles and best practices, setting up projects and utilizing the interface, managing colors, swatches, and gradients, organizing design elements, creating and manipulating visual elements, and preparing images for export to Web, print, and video.
TCH342DE3 Python Programming	Career Readiness Education	The CodeHS Computer Science II course is designed to foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. This course extends on concepts learned in Computer Science I by deepening student understanding of system and network protocols, and exposing students to the Java programming language.
TCH370 Web Development	Career Readiness Education	The Web Development Capstone Course is intended to teach students the fundamentals of web development in a project-based learning environment. Students will be taught the basic elements of web development, such as web hosting, file organization, and incorporating Javascript into HTML files. Over the course of the school year, students will collaboratively and independently design, develop and implement functional and responsive webpages using these foundational skills.
TCH380D Computer Fundamentals	Career Readiness Education	This course addresses basic IT literacy and ensures students understand the different terminology and key concepts used in the IT industry. It also serves as an entry point for students who are new to computers. Topics covered include operating systems, hardware basics, troubleshooting, software installation, security, networking, and databases. This course prepares students for the CompTIA IT Fundamentals+ Certification (FC0-U61) exam.

Course Name ⇅	Subject	Course Description
TCH381D-PBL Essentials of Cloud Computing	Career Readiness Education	This course is a Project-Based Learning course (PBL) and is designed to explore cloud technology. Students will be introduced to basic cloud concepts, examine factors impacting business decisions, and address issues to reduce security risks. In addition, students will explore Amazon Web Services (AWS). Students will complete projects to develop a deeper understanding of concepts. This course will help prepare students for two certification tests: CompTIA Cloud Essentials+ and AWS Certified Cloud Practitioner.
TCH400 Digital Media Dreamweaver with Exam Prep	Career Readiness Education	TCH400 Digital Media: Dreamweaver with Exam Prep is MSi curriculum that helps students prepare for the ACA certification exam. In this course, students will gain a foundational understanding of preparing a website and navigating, organizing, and customizing the workspace to best aid colleagues and clients throughout a project. Through reading online text and transcripts, virtual activities, and participating in threaded discussions with teachers and fellow classmates, students will develop and elevate their technology skills and demonstrate proficiency required in today's business world.
TCH410D Game Design in Unity 1	Career Readiness Education	In this semester-long course, students will learn the fundamentals of designing a game using the most widely accessed and preferred editing engine in the world. Students will explore the game development industry and get started with the Unity game engine, learning about its interface and key features. By the end of this course, students will be comfortable working with Unity and be prepared to take the second course in the series. This course requires the following household materials: • Computer with access to the Internet
TCH410 Digital Media Adobe XD	Career Readiness Education	TCH410 Digital Media: Premiere Pro with Exam Prep is MSi curriculum that prepares students for the Adobe Certified Professional Exam. This course introduces students to Premiere Pro video editing software, helping them learn how to create projects and sequences, edit video and audio clips, add text, shapes, transitions, and effects, and use the Export feature. It covers topics such as identifying project requirements, the Premiere Pro interface, shooting, importing, and editing a sequence, titles, shapes, transitions, and export formats.
TCH410 Digital Media Premiere Pro with Exam Prep	Career Readiness Education	TCH410 Digital Media: Premiere Pro with Exam Prep is MSi curriculum that prepares students for the Adobe Certified Professional Exam. This course introduces students to Premiere Pro video editing software, helping them learn how to create projects and sequences, edit video and audio clips, add text, shapes, transitions, and effects, and use the Export feature. It covers topics such as identifying project requirements, the Premiere Pro interface, shooting, importing, and editing a sequence, titles, shapes, transitions, and export formats.
TCH411D Game Design in Unity 2	Career Readiness Education	TCH411D Game Design in Unity 2 is a CodeHS course that is the second course in a two-course series. In this semester-long course, students will learn how to create and implement visual and sound effects in their game using industry-standard tools. Students will also gain hands-on experience in designing and prototyping their game and creating custom components and mechanics to bring their vision to life. By completing this series, students will understand the design planning process, be knowledgeable of industry-related careers, and be able to navigate the Unity environment in order to create 3-D games.

Course Name ⇅	Subject	Course Description
TCH420 Digital Media After Effects with Exam Prep	Career Readiness Education	TCH420 Digital Media: After Effects with Exam Prep is MSi curriculum that prepares students for the Adobe Certified Professional Exam. This course covers critical concepts related to working with colleagues and clients, legal and technical considerations for using multimedia content, key terminology, and tools related to digital audio and video, motion graphics, video effects, design principles and tools, interface setup, and application settings, efficiency and effective workflow, and key tools and functionality of the application for creating and modifying visual elements, manipulating digital audio and video, and publishing digital media.
TCH421E3 Adobe® Illustrator with Exam Prep	Career Readiness Education	This course offers students comprehensive coverage in all areas of Adobe® Illustrator and prepares students for the Adobe® Certified Professional Graphic Design & Illustration using Adobe Illustrator certification. Beginning with fundamental concepts and progressing to in-depth exploration of the software's full set of features, the step-by-step lessons provide a guided tour of all the program's features. Topics covered include creating text and gradients, drawing and composing an illustration, transforming and distorting objects, working with layers, working with patterns and brushes, creating 3D objects, and preparing a document for print.
TCH430 Digital Media Animate with Exam Prep	Career Readiness Education	TCH430 Digital Media: Animate with Exam Prep is MSi curriculum that prepares students for the Adobe Certified Professional Exam. This course focuses on the basics of working in the animation industry, such as identifying the purpose, audience, and audience needs for preparing content, communicating design plans, understanding copyright and permissions, key animation, and interactive media terminology. Students will learn how to use core tools and features to create and modify vector elements, manage layers, apply basic auto-correction methods, manipulate digital graphics and media, apply effects, manage audio and video, and export assets for various platforms.
TCH431E3 Adobe® InDesign with Exam Prep	Career Readiness Education	Graphic design professionals and design students alike have embraced Adobe® InDesign as the industry standard for page layout software, and this course provides a solid foundation for those looking to learn this program. This course covers all the fundamental concepts, starting with the workspace and proceeding logically and intuitively to more advanced topics in graphic design. Topics covered include, working with text, setting up a document, working with frames, working with color, working with placed images, creating graphics, effects, working with tabs and tables, creating books, and preparing documents for print. This course prepares students for the Adobe Certified Professional in Print & Digital Media Publication using Adobe InDesign certification.
TCH441E3 Adobe® Photoshop with Exam Prep	Career Readiness Education	Adobe® Photoshop has long provided cutting edge technology for sophisticated digital editing, and this course provides a solid foundation for those looking to learn this industry-standard program. This course prepares students for the Adobe® Certified Professional in Visual Design Using Adobe® Photoshop certification. Real-world, practical examples and step-by-step instruction throughout offer well-rounded, comprehensive coverage of both artistic and technical features. Topics covered include, working with layers, making selections, incorporating color, using type, using tools, special effects and filters, and transformation.

Course Name ⇞	Subject	Course Description
TCH450 Introduction to JavaScript	Career Readiness Education	This course is designed as an introduction to software development using JavaScript. In this course, students will learn the fundamentals of three languages used to create web applications: JavaScript, HTML, and CSS. In addition, students will understand foundational computer science topics including types, operations, objects, methods, conditionals, and loops which provide a construct to understand software development and programming. Through interactive coding examples and activities, students will practice the coding concepts explored in the course and build multiple projects using Codio, a browser-based online coding platform.
TCH461 Computer Network Fund & Exam Prep	Career Readiness Education	Coming Soon
TCH462 Network Security with Exam Prep	Career Readiness Education	Coming Soon
TCH465 CompTia Security+	Career Readiness Education	This course includes direct instruction content, labs, and exam preparation materials related to the CompTIA Security+ certification exam.
TCH467 CompTia A+ Core 1	Career Readiness Education	This course includes direct instruction content, labs, and exam preparation materials related to the CompTIA A+ certification exam.
TCH468 CompTia A+ Core 2	Career Readiness Education	This course includes direct instruction content, labs, and exam preparation materials related to the CompTIA A+ certification exam.
TCH471 Intro to Computing with Arduino	Career Readiness Education	This course delves into the prerequisite programming knowledge in Python before applying concepts to an Arduino device. It includes exploring basic programming, conditionals, looping, functions and other basic Arduino activities. This course covers the second semester of Programming in Python with Arduino. Students learn programming knowledge in Python before applying programming concepts to their physical Arduino device. Students will learn about string manipulation, data structures, and advanced Arduino activities.
TCH485 Foundation of AI Professional Certification	Career Readiness Education	This elective course will provide you with a comprehensive understanding of the key concepts and applications of AI. You will learn about machine learning, deep learning, natural language processing, and how AI is being used in different industries and fields. You will also gain hands-on experience with AI tools and technologies, such as IBM® Watson AI services, and chatbot development. In addition to utilizing the IBM® Professional Certificate in Foundations of AI course materials, you will receive comprehensive support before and after each module. This includes pre-module assessments to help you prepare, module overviews, resources to help you learn, and activities to help you apply what you have learned.
TCH500 AP® Computer Science: Cybersecurity	Career Readiness Education	TCH500 AP Computer Science: Cybersecurity is a CodeHS course that covers the first-semester content of the AP CSP Cyber course. In this course, students are introduced to the foundational concepts of computer science using JavaScript, while exploring AP CSP requirements with an emphasis on Cybersecurity applications.

Course Name ⬇	Subject	Course Description
TCH500E2 AP® Computer Science Principles	Career Readiness Education	TCH500 AP Computer Science Principles is a CodeHS course that introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example programs to explore, written programming exercises, free response exercises, collaborative creation projects, and research projects. College Board has launched the AP Classroom, a new resource for teachers with summative and formative assessments. At the end of each unit, we recommend that teachers give students the corresponding Personal Progress Check to understand student strengths and weaknesses.
TCH510E2 AP® Computer Science A	Career Readiness Education	TCH510 AP Computer Science is a CodeHS course that introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. The CodeHS AP Computer Science A course is a year-long course designed to help students master the basics of Java and equip them to successfully pass the College Board AP Computer Science A Exam at the end of the school year. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours of hands-on programming practice in total. Several units have free response questions that have students consider the applications of programming and incorporate examples from their own lives. College Board has launched the AP Classroom, a new resource for teachers with summative and formative assessments. At the end of each unit, we recommend that teachers give students the corresponding Personal Progress Check to understand student strengths and weaknesses.

Course Name ⬇	Subject	Course Description
TCH520 Data Structures in C++ 1	Career Readiness Education	TCH520 Data Structures in C++ 1 focuses on different ways to store data, beyond traditional variables and lists. In this course, students will learn about advanced data structures, such as queues, while applying them in larger, real-world assignments and projects. The Data Structures in C++ 1 course is designed for students that have previously completed a full year computer science course, such as AP CSA. While C++ is used as the language for the course, the focus of the course is on understanding and applying advanced data structures. Prior C++ knowledge is not a prerequisite, however students should have a working knowledge of basic computer science concepts such as variables, control structures, and functions/methods in at least one programming language. The course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. Teachers utilize tools and resources provided by CodeHS to leverage time in the classroom and give focused 1-on-1 attention to students. Each unit of the course is broken down into lessons. Lessons consist of tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours of hands-on programming practice and projects in total. Each unit ends with a comprehensive unit test that assesses a student's mastery of the material from that unit. Students write and run C++ programs in the browser using the CodeHS editor.
TCH521 Data Structures in C++ 2	Career Readiness Education	TCH521 Data Structures in C++ 2 focuses on different ways to store data, beyond traditional variables and lists. In this course, students will learn about advanced data structures such as maps, sets, etc. while applying them in larger, real-world assignments and projects. The Data Structures in C++ 2 course is designed for students that have previously completed Data Structures in C++ 1. The course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. Teachers utilize tools and resources provided by CodeHS to leverage time in the classroom and give focused 1-on-1 attention to students. Each unit of the course is broken down into lessons. Lessons consist of tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours of hands-on programming practice and projects in total. Each unit ends with a comprehensive unit test that assesses a student's mastery of the material from that unit. Students write and run C++ programs in the browser using the CodeHS editor.
TCH530 AP Computer Science Principles in Python	Career Readiness Education	This course introduces students to the foundational concepts of computer science and programming in Python. Students will learn Python programming basics, including variables, arithmetic expressions, user input, operators, control structures, functions, and parameters. Students will learn basic data structures in Python, number systems, data compression, cryptography, networks, cybersecurity, and data. This second-semester course continues where the first leaves off; introducing students to the foundational concepts of computer science and programming in Python. Students will learn Python programming basics, including variables, arithmetic expressions, user input, operators, control structures, functions, and parameters. Students will learn basic data structures in Python, number systems, data compression, cryptography, networks, cybersecurity, and data.

Course Name ↓≡	Subject	Course Description
TCH551E3 Security+ with Exam Prep 1	Career Readiness Education	This is the first semester of a two semester course. The course provides a complete, practical, up-to-date introduction to network and computer security. The course maps to the new CompTIA Security+ SY0-401 Certification Exam, providing thorough coverage of all domain objectives to help students prepare for professional certification and career success. The course covers the essentials of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography.
TCH553DE3 Cybersecurity	Career Readiness Education	TCH553DE3 Cybersecurity is a CodeHS course that teaches students foundational cybersecurity topics including digital citizenship and cyber hygiene, the basics of cryptography, software security, networking fundamentals, and basic system administration. Students will complete projects at the end of each module, and a culminating course project completing a simulated hack walkthrough. Students will learn basic SQL, and will utilize basic HTML and JavaScript within specific contexts and will be provided supports within those contexts. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit. Included in each lesson is a formative short multiple choice quiz.