Career and Technical Education
Course Catalog
2026-2027

Payette River Regional
Technical Academy
www.pr2ta.com
208-365-0985

About PR2TA

PR2TA is one of 14 Career Technical Centers (CTC) in Idaho, offering Career Technical Education (CTE) classes in specific career pathways. We provide the recommended sequences of courses in each program to show the path to the capstone/completer course. Students can take any introductory course without following a pathway to completion. Business and industry certifications can be earned during their pathway program. A CTE Diploma can be earned on top of their high school Diploma after completing a CTE pathway. Students can talk to a PR2TA pathway instructor, an administrator, or their school counselor if they have any questions or if they need help achieving the goals they have for themselves.



Aviation Hangar

This handbook is designed to assist students and families in developing a Four-Year Educational Plan and selecting courses for the upcoming school year. Information within each pathway provides specific guidance on prerequisites and time requirements and should be studied carefully when making enrollment decisions. The master schedule depends on state funding and is based on student pre-registration. Courses listed in this guide that do not receive sufficient enrollment may be eliminated from the master schedule. Student leadership organizations are referenced in the pathway descriptions and are available with most pathways. Students should ask instructors for more information if they are interested.

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Ag/Animal Science Pathway

Recommended Course Sequence

- ✓ Required class
- • Recommended class

9th Grade

- ✓ **Intro to Livestock Industry: 181010 (1 credit, semester class)**

⇩

10th Grade

- ✓ **Animal Science: 181011 (1 credit, semester class)**
  Small Animal Care: 181020 (1 credit, semester class)
  Small Animal Care is recommended, not required for pathway

⇩

11th Grade

One of the following (students can take both)

- **Applied Livestock Management: 181013 (1 credit, semester class)**
- **Veterinary Science: 181050 (1 credit, semester class)**

⇩

12th Grade
Capstone

- ✓ **Advanced Animal Science A & B: 181018 (2 credits, year-long class)**
  optional
- ✓ **Animal Science Work-Based Learning: 181480 (1-2 credits, repeatable class)** ***Must have completed the Agriculture/Animal Science Pathway***

⇩

Ag/Animal Science Pathway



Classes in Agriculture/Animal Science focus on the production, processing, marketing, distribution, financing, and development of livestock, small animal, and aquaculture.

These courses prepare students for jobs in the animal industry such as animal caretakers, poultry science, veterinary assistants, wildlife biology, fisheries management, rancher/breeder, farm manager, meat inspector, and much more.

These courses are project-based but will require note-taking and foundational learning in the introductory course, and lab work, including dissections in the intermediate and advanced classes. All students can participate in FFA and will be required to complete a Supervised Agricultural Experience (SAE) for a grade.

	Intro to Livestock Industry **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This is an introductory course aimed at helping students understand agriculture, how it is used, and the job options available in the field. **Sequence:** 1st course in pathway.		

	Animal Science **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** Intro to Livestock Industry with C or higher or instructor's permission
This is an intermediate course aimed to learn about nutrition, reproduction, diseases, breeding, genetics, body structure, and how animals work in livestock. You'll get to do many hands-on activities and might even participate in some dissections. **Sequence:** 2nd course in pathway. ***This course counts toward graduation requirements for science.**		

	Small Animal Care **Grade Levels:** 10 -1 1	**Course Offering:** Fall and Spring **Prerequisites:** Animal Science with C or higher or instructor's permission
A course that focuses on the care and management of small animals. This course will cover the subjects of animal nutrition, health, behavior, handling and training, and grooming. **Sequence:** 2nd or 3rd course in pathway.		

	Applied Livestock Management **Grade Levels:** 10 - 11	**Course Offering:** Fall and Spring **Prerequisites:** Small Animal Care with C or higher or instructor's permission
A course that includes principles of animal production and management. Students have an option to take this course for a full year or choose one semester, each with a different emphasis. A is an emphasis on livestock management. Topics include health, evaluation, selection, feeding, and management. Information about the causes, diagnosis, and treatment of diseases and injuries in animals, typically emphasizing domestic and farm animals. **Sequence:** 4th course in pathway.		

Veterinary Science **Grade Levels:** 10 - 11	**Course Offering:** Fall and Spring **Prerequisites:** Small Animal with C or higher or instructor's permission
Students will develop soft and technical skills in Animal Health and Veterinary Science (AHVS) by practicing prevention, diagnosis, and treatment techniques. They then apply these skills in real-world CASE Study Problems. **Sequence:** 5th course in pathway.	

Advanced Animal Science A & B Capstone **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Applied Livestock Management A **or** B with C or higher or instructor's permission
A course designed to impart information about the causes, diagnosis, and treatment of diseases and injuries in animals, typically emphasizing domestic and farm animals. Business management and interpersonal skills required for a successful veterinary practice and other livestock industries will be emphasized. **Sequence:** Capstone course in pathway.	

Animal Science Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Animal Science Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway.	

Certifications Available

- OSHA Ten Hour

Agricultural Cluster Course **Applied Greenhouse Management** **Course Code: 180523** **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Instructor Approval **Credit Type:** CTE, Science
This course is designed to help students learn how to run and manage greenhouses and nurseries. We will cover different types of greenhouses, what facilities and equipment are needed, how to manage and train staff, how to build and maintain greenhouses, and how to handle business operations. ***This course counts toward graduation requirements for science.**	

Ag/Welding Pathway

Recommended Course Sequence

- ✓ Required class
- • Recommended class

9th Grade

- ✓ **Intro to Agriculture Mechanics: 184010 (1 credit, semester class)**



10th Grade

- ✓ **Agriculture Welding 1: 184040 (1 credit, semester class)**



11th Grade

- ✓ **Agriculture Welding 2A and 2B: 184043 (2 credits, year-long class)**



12th Grade

- ✓ **Agriculture Welding 3A and 3B Capstone: 184041 (2 credits, year-long class)**

<u>optional</u>

- ✓ **Agriculture Welding Work-Based Learning: 184482 (1-2 credits, repeatable class)** ***Must have completed the Agricultural/Welding Pathway***

Ag/Welding Pathway



Classes in Agriculture/Welding focus on skills and knowledge specific to tools and equipment used in the agriculture and welding industries.

These courses prepare students for jobs in the agriculture and welding industries including machine operators, agricultural engineers, recycling technicians, equipment/parts managers, welders, machinists, and much more.

These courses are project-based but will require note-taking and foundational learning in the introductory course, and lab work, including fabrication in the intermediate and advanced classes. All students can participate in FFA and will be required to complete a Supervised Agricultural Experience (SAE) for a grade.

Intro to Agricultural Mechanics **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This introductory course helps students learn to apply basic industrial knowledge and skills (power systems, welding, carpentry, and others), and the job options available in these fields. **Sequence:** 1st course in pathway	

Agricultural Welding 1 **Grade Levels:** 10 -1 1	**Course Offering:** Fall and Spring **Prerequisites:** Intro to Ag Mechanics with C or higher or instructor's permission
An intermediate course aimed at teaching skills in stick welding (SMAW) and tungsten inert gas welding (GTAW), along with advanced techniques in fabrication and manufacturing. ***Course not available for 9th graders.*** **Sequence:** 2nd course in pathway	

Agricultural Welding 2A & 2B **Grade Levels:** 10 -1 1	**Course Offering:** Fall and Spring **Prerequisites:** Agricultural Welding 1 with C or higher or instructor's permission
This intermediate course will help students learn how to work with metal equipment, put things together, and join metal parts. The course covers various techniques, including Gas Metal Arc Welding (using solid wire, flux core, and dual shield methods) and Gas Tungsten Arc Welding (for welding steel and aluminum). **Sequence:** 3rd course in pathway	

Agricultural Welding 3A & 3B Capstone **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Ag Welding 2A &2B with C or higher or instructor's permission
This course is the last step in the Agricultural Welding Pathway. It focuses on building basic skills in arc and oxy-acetylene welding while also introducing advanced techniques in fabrication and manufacturing using GMAW and GTAW welding methods. This hands-on class emphasizes projects, with the ultimate goal of earning certification in industry-standard welding practices. **Sequence:** Capstone course in pathway	

Agricultural Welding Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Agricultural Welding Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway	

Certifications Available

- AWS Welding Certifications
- OSHA Ten Hour

Agricultural Cluster Course **Applied Greenhouse Management** **Course Code: 180523** **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Instructor Approval **Credit Type:** CTE, Science
This course is designed to help students learn how to run and manage greenhouses and nurseries. We will cover different types of greenhouses, what facilities and equipment are needed, how to manage and train staff, how to build and maintain greenhouses, and how to handle business operations. ***This course counts toward graduation requirements for science.**	

Administrative Services Pathway

Recommended Course Sequence

✓ Required class

• Recommended class

9th Grade

✓ **Computer Applications 1: 100050 (1 credit, semester class)**

⇩

10th Grade

✓ **Computer Applications 2: 100051 (1 credit, semester class)**

and

✓ **Business Essentials: 120010 (1 credit, semester class)**

⇩

11th Grade

✓ **AP Business with Personal Finance: 120610 (Year Long Course) or**

✓ **Personal Finance: 121013 (1 credit, semester class)**

⇩

12th Grade

✓ **Business Administration Capstone: 120030 (1 credit, semester class)**

optional

✓ **Business Administration Work-Based Learning: 120480 (1-2 credits, repeatable class)** ***Must have completed the Administrative Services Pathway.***

Administrative Services Pathway



Business and Marketing Education Programs help students gain the knowledge and skills they need to effectively work in the ever-changing world of commerce. This involves learning how to plan, organize, and manage different business activities while also developing marketing abilities.

These courses prepare students for jobs in the business industry including office managers, information systems managers, arts/graphics directors, executive assistants, desktop publisher, and much more. All students can participate in BPA.

Computer Applications 1 **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This beginner course aims to boost students' computer skills for both personal and job use. They will learn how to use Microsoft Office applications to tackle real business challenges. Students will learn to use word processing software to create basic business documents that meet industry standards, as well as presentation software to design impactful presentations. **Sequence:** 1st course in pathway.	

Computer Applications 2 **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** Computer Applications 1
This intermediate course will build on what students have learned in Computer Applications I. They will use Microsoft Office programs throughout the course. Topics will include using spreadsheet software to tackle complicated math problems related to business finance, as well as an introduction to database applications. **Sequence:** 2nd course in pathway.	

Business Essentials **Grade Levels:** 10 -1 1	**Course Offering:** Fall and Spring **Prerequisites:** Recommend Computer Apps 1
This intermediate course aims to help students explore different career paths, especially in the business field. It will focus on building important skills and knowledge needed for various jobs. Students will learn about key traits that make them employable by developing their interpersonal, communication, and leadership skills. **Sequence:** 3rd course in pathway.	

Personal Finance **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Recommend Computer Apps 1 **or** Business Essentials
This course aims to teach students how to manage their money wisely so they can make good financial decisions throughout their lives. Students will learn about banking, budgeting, and the costs involved in borrowing money. Emphasis will be placed on making smart choices when it comes to saving, investing, and planning for retirement, helping them start on the path to a successful financial future. Additionally, students will become aware of how to be smart shoppers and protect their identities, possessions, and assets through various types of insurance. **Sequence:** 3rd or 4th course in pathway. ***This course will count towards graduation requirements.**	

AP Business with Personal Finance **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Principals of Business

AP Business with Personal Finance is a college-level course that introduces students to foundational business principles and essential personal finance concepts. Students apply business and financial knowledge to real-world scenarios, including market analysis, entrepreneurship, data-driven decision making, and strategic planning. The course emphasizes professional skills such as communication, collaboration, and leadership, preparing students to make informed financial decisions and think critically about business opportunities in a dynamic economic environment. Students will have the opportunity to get college credit with AP test.
Sequence: Ideally 3rd **or** 4th course in pathway. This is a year-long course and counts as 2 courses in the Administrative Services pathway.

Business Administration Capstone **Grade Levels:** 11 **-** 12	**Course Offering:** Fall and Spring **Prerequisites:** Business Essentials **and** Personal Finance

This advanced course aims to help students apply important business and marketing skills through hands-on projects. Students will have the chance to become skilled in areas like leadership, technology, marketing, basic business principles, and entrepreneurship. They will utilize people skills, public speaking, business communication, understanding careers, and job-search techniques. **Sequence:** Capstone course in pathway**. *Please note that this course is online**.

Business Administration Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Business Administration Pathway

This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway.

Certifications Available

- Microsoft Office Specialist (MOS): Word, Excel, PowerPoint (Access & Outlook)
- CWI Dual Credit Option may be available

Digital Literacy **Course Code: 100050** **Grade Levels:** 9-12	**Course Offering:** Fall and Spring **Prerequisites:** None **Credit Type:** Required Course

This course covers essential skills for navigating, evaluating, and using digital tools responsibly. From the fundamentals of hardware and software to cybersecurity, ethical technology use, and artificial intelligence, students will gain the knowledge needed to make informed decisions online. They will also explore the impact of digital communication, programming basics, and strategies for protecting personal data.

***This course counts toward graduation requirements.**

Business Management Pathway

Recommended Course Sequence

- ✓ Required class
- • Recommended class

9th Grade

- ✓ **Principals of Business: 120552 (1 credit, semester class)**

⇩

10th Grade

- ✓ **Principals of Marketing: 121640 (1 credit, semester class)**

and

- ✓ **Business Communications: 120090 (1 credit, semester class)**

⇩

11th Grade

- ✓ **Personal Business Finance: 121013 (1 credit, semester class)**

or

- ✓ **AP Business with Personal Finance: 120610 (2 credits, yearlong class)**

⇩

12th Grade

- ✓ **Business Strategies Capstone: 120530 (1 credit, semester class)**

optional

- ✓ **Business Management Work-Based Learning: 120980 (1-2 credits, repeatable class)** ***Must have completed the Business Management Pathway.***

Business Management Pathway



Business and Marketing Education Programs help students gain the knowledge and skills they need to effectively work in the ever-changing world of commerce. This involves learning how to plan, organize, and manage different business activities while also developing marketing abilities.

This program prepares students for various jobs in the business field such as entrepreneurs, account manager, store managers, advertising managers, and much more. All students can participate in BPA.

Principals of Business **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This introductory course will open students' eyes to the world of business. During the course, students will be introduced to some of the major areas of business administration (marketing, management, and finance) through hands-on, real-world projects. **Sequence:** 1st course in pathway.	

Principals of Marketing **Grade Levels:** 10-11	**Course Offering:** Fall **Prerequisites:** Principals of Business
Through projects and problem-solving students will get inside marketers' heads and find out what makes them tick. Projects in this intermediate course will challenge students to analyze the business world around them, work through key marketing concepts and research, such as pricing, and product image, and use their knowledge to develop a marketing strategy. **Sequence:** 2nd course in pathway.	

Business Communications **Grade Levels:** 10 -1 1	**Course Offering:** Spring **Prerequisites:** Principals of Marketing
Students will learn first-hand how to manage projects and people and how to do it ethically and legally. This intermediate course includes individual and group work as students conquer problems in the different areas of management, including human resources management, risk management, project management, and knowledge management while embracing technology used in the business world. **Sequence:** 3rd **or** 4th course in pathway.	

Personal Finance **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Principals of Business
Worried about managing money now and in the future? This course will give students practical knowledge, which includes but is not limited to goal setting, budgeting, saving, investing, borrowing, insurance, identity protection, and retirement planning. We are also going to look at the big economic picture –like supply and demand, types of businesses, the stock market, and finance options for operating a business. It is never too early to start saving for the FUTURE! **Sequence:** Ideally 3rd **or** 4th course in pathway. ***This course will count towards graduation requirements.**	

AP Business with Personal Finance **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Principals of Business
AP Business with Personal Finance is a college-level course that introduces students to foundational business principles and essential personal finance concepts. Students apply business and financial knowledge to real-world scenarios, including market analysis, entrepreneurship, data-driven decision making, and strategic planning. The course emphasizes professional skills such as communication, collaboration, and leadership, preparing students to make informed financial decisions and think critically about business opportunities in a dynamic economic environment. Students will have the opportunity to get college credit with AP test. **Sequence:** Ideally 3rd **or** 4th course in pathway. This is a year-long course and counts as 2 courses in the Business Management pathway.	

Business Strategies Capstone **Grade Levels:** 11 **-** 12	**Course Offering:** Fall and Spring **Prerequisites:** Business Communications **and** Personal Business Finance
In this course, students will run their own businesses, create a business plan, and put their plans into action. Students will tackle problems real business professionals' face, such as interviewing, hiring, and supervising staff, keeping financial records, evaluating results, and much more. **Sequence:** Capstone course in pathway.	

Business Management Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Business Administration Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway.	

Certifications Available

- Intuit QuickBooks

Digital Media Pathway

Recommended Course Sequence

- ✓ Required class
- • Recommended class

9th Grade

- ✓ **Media Technologies Fundamentals: 111510 (1 credit, semester class)**

⇩

10th Grade

- ✓ **Video Technologies 1: 111030 (1 credit, semester class)**

and

- ✓ **Video Technologies 2: 111031 (1 credit, semester class)**

⇩

11th Grade

- ✓ **Video Technologies 3 Capstone: 111032 (2 credits, year-long class)**

⇩

12th Grade

optional

- ✓ **Digital Media Work-Based Learning: 111981 (1-2 credits, repeatable class)**
  Must have completed the Digital Media Pathway.

Digital Media Pathway



Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

This program prepares students for various jobs in the digital media field such as radio/TV broadcast technician, sound technician, animator, audio/video engineer, virtual reality specialist, and much more.

Media Technologies Fundamentals **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This course is a beginner's guide to software used in digital and graphic design industries. Students will learn how to use different features and create projects in Adobe Photoshop and Illustrator. We will cover basic skills with tools and equipment, useful knowledge that can be applied in various jobs, communication skills, and industry-related terms. **Sequence:** 1st course in pathway.	

Video Technologies 1 **Grade Levels:** 9 -10	**Course Offering:** Fall and Spring **Prerequisites:** Media Technologies Fundamentals
This introductory course transforms you from a media consumer to a Digital Media Creator. You'll learn the fundamentals of video and audio production, including camera settings, framing, storyboarding, visual storytelling, audio recording and podcasting basics, video editing, studio lighting, file management, and Adobe workflows. **Sequence:** 2nd course in pathway.	

Video Technologies 2 **Grade Levels:** 10 -1 1	**Course Offering:** Fall and Spring **Prerequisites:** Broadcast/Video Technologies 1
This intermediate course focuses on the technical aspects of broadcasting and the use of audio and video equipment. The rapidly evolving video production landscape drives innovation in content creation and delivery. Students will deepen their understanding of techniques from Digital Media Technologies 1, honing skills in camera operations and editing through precise projects that assess exposure, composition, and quality in line with industry standards. **Sequence:** 3rd course in pathway.	

Video Technologies 3 Capstone **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Broadcast/Video Technologies 2
This advanced course offers students the chance to create, lead, present, and write programs that will be shown on both commercial and public media. **Sequence:** Capstone course in pathway.	

Digital Media Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Digital Media Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway	

Certifications Available

- Adobe Certified Professional Certifications

Graphic Design Pathway

Recommended Course Sequence
- ✓ Required class
- • Recommended class

This pathway has limited seats per course.

9th Grade

- ✓ **Media Technologies Fundamentals: 111510 (1 credit, semester class)**

⇩

10th Grade

- ✓ **One of the following: 111540 (students can take both)**
  - **Graphic Communications Photoshop (1 credit, semester class)**
  - **Graphic Communications Illustrator (1 credit, semester class)**

⇩

11th Grade

- ✓ **Graphic Communications 2A & 2B: 111541 (2 credits, year-long class)**

⇩

12th Grade

- ✓ **Graphic Communications 3A & 3B Capstone: 111542 (2 credits, year-long class)**

optional

- ✓ **Digital Media Work-Based Learning: 111980 (1-2 credits, repeatable class)**
  Must have completed the Graphic Design Pathway.

Graphic Design Pathway



Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

This program prepares students for various jobs in the digital media field such as interior design, instructional designer, 2D/3D artist, developer, desktop publisher, design engineer, graphic design, advertising, Social Media developer, and much more.

Media Technologies Fundamentals **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This course is a beginner's guide to software used in Graphic Communications. Students will learn how to use different features and create projects in a variety of programs. We will cover basic skills with tools and equipment, useful knowledge that can be applied in various jobs, communication skills, and industry-related terms. **This course is limited to 20 students. Sequence:** 1st course in pathway.	

Graphic Communications Photoshop **Grade Levels:** 9 -10	**Course Offering:** Fall and Spring **Prerequisites:** Recommend Media Technologies Fundamentals
Students will learn Adobe Photoshop at a level that meets industry certification standards. The course includes a mix of projects and creative days, giving students the chance to work on hands-on activities that use the skills they're acquiring in real-world situations. **This course is limited to 20 students. Sequence:** 2nd **or** 3rd course in pathway.	

Graphic Communications Illustrator **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** Recommend Media Technologies Fundamentals
Students will learn Adobe Illustrator up to a level that meets industry certification standards. They will work on projects and have creative days where they can apply what they've learned in real-world situations. **This course is limited to 20 students. Sequence:** 2nd **or** 3rd course in pathway.	

Graphic Communications 2A & 2B **Grade Levels:** 10 - 11	**Course Offering:** Fall and Spring **Prerequisites:** Graphic Communications Photoshop **or** Illustrator
This advanced course offers students the chance to create, lead, and present projects that will be shown on both commercial and public media. **This course is limited to 20 students. Sequence:** 3rd or 4th course in pathway.	

Graphics Communications 3A & 3B Capstone **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Graphic Communications 2A **and** 2B with C or higher or instructor's permission
This advanced course offers students the chance to create, lead, and present projects that will be shown on both commercial and public media. **This course is limited to 20 students. Sequence:** Capstone course in pathway	

Digital Media Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Graphic Design Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway.	

Certifications Available

- Adobe Photoshop
- Adobe Illustrator
- Adobe InDesign
- Adobe Premiere
- Adobe Aftereffects
- Adobe Animate

Digital Literacy **Course Code: 100050** **Grade Levels:** 9-12	**Course Offering:** Fall and Spring **Prerequisites:** None **Credit Type:** Required Course
This course covers essential skills for navigating, evaluating, and using digital tools responsibly. From the fundamentals of hardware and software to cybersecurity, ethical technology use, and artificial intelligence, students will gain the knowledge needed to make informed decisions online. They will also explore the impact of digital communication, programming basics, and strategies for protecting personal data. ***This course counts toward graduation requirements.**	

Pre-Engineering Pathway

Recommended Course Sequence

✓ Required class

• Recommended class

9th Grade

✓ **Engineering Fundamentals: 210030 (1 credit, semester class)**

⇩

10th Grade

✓ Engineering 1A: 210520 (1 credit, semester class **FALL ONLY)**

✓ Engineering 1B: 210051 (1 credit, semester class **SPRING ONLY**)

⇩

11th Grade

✓ Engineering 2A: 210090 (1 credit*, semester class **FALL ONLY)**

✓ Engineering 2B: 210090 (1 credit*, semester class **SPRING ONLY**)

⇩

12th Grade

✓ **Engineering 3A & 3B Capstone: 210062 (2 credits, year-long class)**

optional

✓ **Engineering Work-Based Learning: 210480 (1-2 credits, repeatable class)**
Must have completed the Pre-Engineering Pathway.

Engineering Elective

• **E-Sports 1A & 1B: 210520 (2 credits, year-long class)**

* This course will count towards your science graduation credit

Pre-Engineering Pathway



Classes in engineering and technology focus on architecture, engineering, construction, programming, and information technology. Students will learn skills in planning, managing and creating throughout the pathway in several different aspects of the engineering field.

This program prepares students for various jobs in the engineering field such as architecture, civil engineer, computer aided drafter, construction, gaming, fabrication, and much more.

E-Sports 1A & 1B **Grade Levels:** 9 - 12	**Course Offering:** Fall and Spring **Prerequisites:** None
1A is a hands-on high school course that turns a passion for gaming into real creative and technical skills. Students explore careers in game design, video production, streaming, influencing, and digital forensics—roles that power the games they love. Through game development in Scratch and/or Unreal Engine, gameplay recording and editing, live streaming, and solving a cybercrime, students learn by doing. They also build a digital portfolio and personal brand that lets them keep creating—and showcasing their skills—long after the course ends. 1B takes your game to the next level—beyond mechanics and into what truly separates good players from great competitors. This course dives into the **real-world skills, mindset, and preparation** used by successful e-sports athletes and teams. You'll learn how to train smarter, work better with teammates, and manage the mental and physical demands of competition. We'll explore how emotions can be turned into advantages, how strong leadership and motivation shape winning teams, and how preparation makes the difference when it matters most. By the end of the course, you won't just play better—you'll **think like a competitor**, communicate like a teammate, and prepare like a professional. **Sequence:** optional course in pathway. This is a year-long course.	

Engineering Fundamentals **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
Join a class that turns your curiosity into action! Dive into an exciting hands-on experience where students learn to solve problems by creating and testing their own solutions. But that's not all! They will also get to explore 3D modeling, use real lasers, and become experts in 3D printing. This isn't just about learning; it's about making ideas come alive, from thinking to building. There are no limits here—just pure creativity! **Sequence:** 1st course in pathway.	

Engineering 1A **Grade Levels:** 10 - 11	**Course Offering:** Fall **Prerequisites:** Engineering Fundamentals **or** Instructor approval
Engineering 1A is a practical course that lets students dive into the exciting worlds of architecture, engineering, and construction. By the end of the course, students will actually build a structure. They will learn to create detailed drawings, understand basic design ideas, and follow important building rules. Using popular design software, they will work on designing homes and businesses, planning how spaces will be laid out, and adopting eco-friendly methods. Through hands-on projects and teamwork, students will tackle real-life problems, learn to work within given limits, and share their ideas clearly. This course is a great starting point for anyone looking to build a career in architecture, civil engineering, or construction management. **Sequence:** 2nd **or** 3rd course in pathway.	

Engineering 1B **Grade Levels:** 10 - 11	**Course Offering:** Spring **Prerequisites:** Engineering Fundamentals **or** Instructor approval
Engineering 1B is a practical course that helps students learn about modern manufacturing techniques and automation. In this course, students get to work with tools and software that help in designing and making parts, such as 3D printers and CNC machines. They also study how robots work and what it means to maintain quality in production, as well as ways to make manufacturing processes more efficient. By working on projects together, students get hands-on experience in designing, creating prototypes, and improving manufacturing processes, which helps them build skills needed for jobs in engineering, manufacturing, and industrial design. .**Sequence:** 2nd **or** 3rd course in pathway.	

Engineering 2A **Grade Levels:** 10 - 11	**Course Offering:** Fall **Prerequisites:** Engineering 1A **and** 1B **or** Instructor approval
Engineering 2A is an enjoyable, hands-on course for everyone, even if you're new to programming. In this class, you'll tackle puzzles, create games, and develop simple apps by taking things one step at a time. You'll learn about how websites are made, how data affects our lives, and how we protect information. With plenty of support and relatable projects, you'll see that computer science is all about being creative, working together, and solving problems. It's a fantastic way to boost your confidence and gain valuable skills for any job—no prior computer experience needed! **Sequence:** 3rd **or** 4th course in pathway. *** This course counts toward graduation requirements for science.**	

Engineering 2B **Grade Levels:** 10 - 11	**Course Offering:** Spring **Prerequisites:** Engineering 1A **and** 1B **or** Instructor approval
In Engineering 2B, students will dive into hands-on projects like simple machines, structure designs, and robotics. This course focuses on practical applications of engineering and design principles, emphasizing problem-solving in areas like mechanical and industrial design, as well as robotics and control systems. It's an exciting journey where students will explore different solutions for each challenge, preparing them to tackle real-world engineering problems with confidence. **Sequence:** 3rd **or** 4th course in pathway**.** ***This course counts toward graduation requirements for science.**	

Engineering 3A & 3B Capstone **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Engineering 2A **and** 2B
Engineering Design is a hands-on, beginner-friendly course that lets you explore how things work and how to solve real-world problems. You'll learn to design and create things like simple machines, structures, and even prototypes using sketches, models, and software. This course encourages creativity and teamwork, so you don't need any engineering experience—just a willingness to try new things. Through fun projects and challenges, you'll gain confidence in bringing your ideas to life, all while building skills that are useful in any career. It's a great way to discover how engineering is about making life better for everyone! **Sequence:** Capstone course in pathway.	

Engineering Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Engineering Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway.	

Certifications Available

- Python - PCEP
- SolidWorks – CSWA, CSWA – AM
- 3D Printer – SME – AM
- OSHA Ten Hour

Culinary Arts Pathway

Recommended Course Sequence

✓ Required class

• Recommended class

9th Grade

✓ **Teen Living A: 160530 (1 credit, semester class)**

⇩

10th Grade

✓ **Culinary 1A: 222511 (1 credit, semester class)**

and

✓ **Culinary 1B: 222511 (1 credit, semester class)**

⇩

11th Grade

✓ **One of the following: 160523 (students can take both)**

- **Culinary 2 Savory (1 credit, semester class)**
- **Culinary 2 Baking (1 credit, semester class)**

⇩

12th Grade

✓ **Culinary 3 Capstone: 160524 (1 credits, semester class, repeatable class)**

optional

✓ **Culinary Work-Based Learning: 160982 (1-2 credits, repeatable class)**
Must have completed the Culinary Pathway.

Culinary Arts Pathway



Culinary Arts helps students prepare for jobs that tackle food security and improve community health by training them for a strong career in food service and cooking.

This program prepares students for various jobs in the culinary arts field such as nutritionist, dietitian, chef, restaurant owner/manager, baker, caterer, and much more.

Teen Living A **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This course is designed to help students deal with personal, family, and social challenges. It focuses on improving communication, making smart decisions, and building strong relationships with family and friends. Teen Living A will introduce the basics of cooking and kitchen safety as the starting point for the Culinary Pathway. **Sequence:** 1st course in pathway. ***Students can earn their Idaho Food Handlers Certification.**	

Culinary 1A **Grade Levels:** 10 - 11	**Course Offering:** Fall **Prerequisites:** Teen Living A **and** Food Handler's Certification
This course focuses on nutrition, healthy living, and personal habits. You'll learn about food safety, how to properly prepare food using different techniques like cutting skills, making soups, salads, and sauces. It also explores job opportunities in nutrition and related areas. **Sequence:** 2nd course in pathway. **Note: this course is not available to 9th graders and is required for Culinary 1B.**	

Culinary 1B **Grade Levels:** 10 - 11	**Course Offering:** Spring **Prerequisites:** Culinary 1A
This course focuses on nutrition, health, and daily living habits. It covers important topics like food safety, basic cooking methods for proteins, grains, vegetables, and sauces, as well as how to plan and cook a full meal. **Sequence:** 3rd course in pathway. **Note: this course is not available to 9th graders and is required for Culinary 2 Savory or Baking.**	

Culinary 2 Savory **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Culinary 1B
This course introduces students to professional food preparation and helps students build important skills for a career in the culinary field. They will learn about food safety, cleanliness in the kitchen, using commercial cooking equipment, large-scale food preparation, business management, serving techniques, and skills that make students more employable. The course follows a beginner-level curriculum focused on food safety and sanitation. Culinary 2 Savory, Baking, **or** both can be taken after the foundational courses. **Sequence:** 4th **or** 5th course in pathway.	

Culinary 2 Baking **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Culinary 1B
This course provides a solid start in cooking professionally and prepares you for various job opportunities. It covers essential skills, food safety practices, cleanliness, using commercial kitchen equipment, food preparation techniques, business management, customer service skills, and how to be a good job candidate. The course will follow a basic industry standard for food safety and cleanliness. The Culinary 2 Baking course will introduce you to managing and running a bakery. Culinary 2 Savory, Baking, **or** both can be taken after the foundational courses. **Sequence:** 4th **or** 5th course in pathway.	

Culinary 3 Capstone **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Culinary 2 Savory **or** Baking
This course is designed to help students become skilled in key areas of cooking. Students will get the chance to build their abilities and take on roles needed in food and drink settings, especially in restaurants. They'll work both on their own and in small teams, as well as alongside others in a professional kitchen setup. One major part of the course involves managing the Culinary Cafe, where students will plan the menu, prepare food, set prices, and ensure cleanliness. They'll also improve their leadership skills by assisting their classmates in learning cooking techniques. **Sequence:** Capstone course in pathway**. *This course is repeatable.**	

Culinary Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Culinary Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway.	

Certifications Available

- Idaho Food Handler's
- OSHA Ten Hour
- Serve Safe (National Certification)

Hospitality Pathway

Recommended Course Sequence

✓ Required class

• Recommended class

9th Grade

- **Teen Living A: 160530 (1 credit, semester class)**

and

- **Teen Living B: 161513 (1 credit, semester class)**

⇩

10th Grade

✓ **Introduction to Hospitality Services 1A and 1B: 161512 (2 credits, year-long class)**

We highly recommend taking Hospitality 1 and 2 in consecutive years

⇩

11th Grade

✓ **Hospitality Services 2A and 2B Capstone: 161510 (2 credits, year-long class)**

⇩

12th Grade

optional

✓ **Hospitality Services Work-Based Learning: 160980 (1-2 credits, repeatable class)** ***Must have completed the Hospitality Services Pathway.***

Hospitality Services Pathway



Culinary Arts helps students prepare for jobs that tackle food security and improve community health by training them for a strong career in food service and cooking.

This program prepares students for various jobs in the culinary arts field such as nutritionist, dietitian, , chef, restaurant owner/manager, baker, caterer, and much more.

Teen Living A and Teen Living B **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This course is designed to help students deal with personal, family, and social challenges. It focuses on improving communication, making smart decisions, and building strong relationships with family and friends. Teen Living A will introduce the basics of cooking and kitchen safety as the starting point for the Culinary Pathway. Teen Living B will focus on projects related to caring for babies and sewing. **Sequence:** 1st & 2nd courses in pathway. ***Students can earn their Idaho Food Handlers Certificate.**	

Introduction to Hospitality Services 1A and 1B **Grade Levels:** 10 – 11 **Best to take Hospitality 1 and 2 in consecutive years**	**Course Offering:** Fall and Spring **Prerequisites:** Teen Living A **and** Teen Living B (Recommended)
Introduction to Hospitality Essentials is the first part of a two-course series. This course will provide a basic overview of the hospitality and tourism industry. Students will learn about different career options and how to prepare for jobs or starting their own businesses in this field, while also gaining knowledge related to family and consumer sciences. You'll develop skills through hands-on activities in the classroom, working on projects, and participating in school-based businesses. Additionally, activities from FCCLA (Family, Career and Community Leaders of America) will be included in this program. **Sequence:** 2nd course in pathway.	

Hospitality Services 2A and 2B Capstone **Grade Levels:** 10 – 11 **Best to take Hospitality 1 and 2 in consecutive years**	**Course Offering:** Fall and Spring **Prerequisites:** Introduction to Hospitality Services 1A and 1B
Hospitality Services is the second part of a two-course series. This course gives high school students a deeper understanding of the expanding hospitality industry. It helps students learn important skills and knowledge that are useful in hospitality and tourism jobs. Students will have the chance to explore different career paths and gain insight into one of the biggest industries globally. Hospitality jobs can be found in communities all over the world. Students may have work experience opportunities in local hotels or other hospitality-related businesses. Activities from FCCLA will be included in this program. **Sequence:** Capstone course in pathway.	

Hospitality Services Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Hospitality Services Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway.	

Certifications Available

- Idaho Food Handlers Certificate
- OSHA Ten Hour

Medical Assistant Pathway

Recommended Course Sequence

- ✓ Required class
- • Recommended class

This pathway has limited seats per course and often only offered once a year.

9th Grade

- ✓ **Fundamentals of Health Professions: 140010 (1 credit, semester class FALL ONLY)**

and

- ✓ **Medical Terminology: 141540 (1 credit, semester class SPRING ONLY)**

⇩

10th Grade

- ✓ **Human Anatomy and Physiology A and B: 141551 (2 credits, year-long class)**

⇩

11th Grade

- ✓ **Fundamentals of Medical Assisting: 141514 (1 credit, semester class FALL ONLY)**

and

- ✓ **Advanced Medical Assisting Capstone: 141515 (1 credit, semester class SPRING ONLY)**

⇩

12th Grade

- ✓ **Medical Assistant Work-Based Learning: 141980 (2 credits, year-long class)**
  Must have completed the Medical Assistant Pathway

Medical Assistant Pathway



Health profession courses help students learn how to plan, organize, and offer medical services, run diagnostic tests, use health technology, provide support services, and engage in biotechnology research.

This program prepares students for various jobs in the medical field such as medical assistant, phlebotomist, EKG tech, and much more. Students will have the opportunity to participate in HOSA, the student-leadership organization associated with the medical assistant pathway.

Fundamentals of Health Professions **Grade Levels:** 9 - 10	**Course Offering:** Fall **Prerequisites:** None
Students will discover what it takes to be a successful healthcare worker and the important words used in the healthcare industry. They will also learn about different job options available in the healthcare field. **This course is limited to 24 students and only offered one time per year. Plan accordingly. Sequence:** 1st course in pathway. ***Students will earn their CPR/AED Certification as part of the pathway completion.**	

Medical Terminology **Grade Levels:** 9 - 10	**Course Offering:** Spring **Prerequisites:** Fundamentals of Health Professions with C or higher or instructor's permission
By taking this course, students will start to grasp the language used by doctors. The course covers medical terms, including basic parts of words like prefixes, suffixes, and roots. Students will also learn about the basic structure of the body as they explore each system, along with common illnesses and issues related to those systems. **Sequence:** 2nd course in pathway. **This course is limited to 24 students and only offered one time per year. Plan accordingly.**	

DC Medical Terminology **Grade Levels:** 9-12 **College:** LCSC - MEDPT 173	**Course Offering:** Spring **Prerequisites:** Fundamentals of Health Professions with C or higher or instructor's permission
This course provides students with a working knowledge of the language of medicine and will include learning medical terminology. This includes combining of roots, prefixes, and suffixes to form medical terms; linking medical terms, anatomy and physiology, and diseases in order to effectively communicate in a medical facility or setting. Course includes online coursework as well as bookwork that coincides with each course chapter. Course will emphasize professionalism in correct spelling and pronunciation and will be taught by body system approach.	

Human Anatomy and Physiology A and B **Grade Levels:** 10 - 11	**Course Offering:** Fall and Spring **Prerequisites:** Medical Terminology with C or higher or instructor's permission
This course gives you a chance to explore the human body, how it's organized, and how it works. We'll talk about the main body systems and how diseases can affect them. **This course is limited to 24 students. Sequence:** 3rd course in pathway	

Fundamentals of Medical Assisting **Grade Levels:** 11 - 12	**Course Offering:** Fall **Prerequisites:** Human Anatomy and Physiology A & B with C or higher or instructor's permission
This course will teach students the essential skills needed to be a medical assistant. They'll learn how to use medical equipment and check vital signs. Students will also pick up important office skills, like answering phone calls, recording medical information, and talking with patients. **Sequence:** 4th course in pathway.	

Advanced Medical Assisting Capstone **Grade Levels:** 11 - 12	**Course Offering:** Spring **Prerequisites:** Fundamentals of Medical Assisting with C or higher or instructor's permission
In this course, students will learn important skills needed to be a medical assistant, including how to collect blood and other samples, as well as perform various tasks in the office. They will also gain more advanced clerical skills, like recording medical information, understanding lab results, and communicating with patients. The main role of a medical assistant is to help doctors with everyday medical procedures, and this course will go deeper into those skills than the previous Fundamentals of Medical Assisting class. Additionally, each student will complete 30 hours of hands-on training in a clinical setting. ***At the completion of the Capstone class, each student will have the option to take the national certifying exam for Medical Assistant, Phlebotomy, and EKG Tech.** **Sequence:** Capstone course in pathway	

Medical Assistant Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Medical Assistant Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway	

Certifications Available

- CPR/AED Certification
- NHA Certified EKG Technician
- NHA Certified Phlebotomy Technician
- NHA Certified Medical Assistant (MA)
- OSHA Ten Hour (HIPPA)

Athletic Training1/Sports Med **Grade Levels:** 11-12	**Course Offering:** Fall and Spring Course Code: 140620
Students will learn about the different components of a sports medicine team, as well as the unique role that sports medicine fills in the healthcare system. Students will also be introduced to key concepts related to sports medicine such as nutrition, coaching, biomechanics, sports psychology, anatomy, and emergency preparedness.	

Athletic Training 2/Sports Med **Grade Levels:** 11-12	**Course Offering**: Fall and Spring Course Code: 140622
This class will introduce students to key concepts and ideas around athletic injury evaluation. This class will cover common sports related injuries from different areas of the body. Students will learn about the signs and symptoms of these injuries and some special tests to help identify certain injuries.	

Automotive Technology Pathway

Recommended Course Sequence

- ✓ Required class
- • Recommended class

This pathway has limited seats per course.

9th Grade

- ✓ **Auto 1: 201033 (1 credit, semester class, repeatable class)**

⇩

10th Grade

- ✓ **Auto 2A and 2B: 201031 (2 credits, year-long class)**

⇩

11th Grade

Auto 3A and 3B Capstone: 201032 (2 credits, year-long class)

⇩

12th Grade

- ✓ **Automotive Technology Work-Based Learning: 201482 (2 credits, year-long class)** ***Must have completed the Automotive Technology Pathway***

Automotive Technology Pathway



Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

This program prepares students for various jobs in the transportation industry such as automotive repair, calibration technician, diesel engine specialist, and much more. Students will have the opportunity to participate in SkillsUSA, a student leadership organization in the Automotive Technology Pathway.

Auto 1 **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This introductory course provides students with foundational knowledge of how small engines operate and how major engine systems function. Instruction includes shop safety procedures, tool identification and proper use, and basic maintenance practices. Students perform hands-on activities such as oil changes, tire service, preventive maintenance, and introductory engine disassembly and reassembly. Two-stroke and four-stroke engine operation is introduced along with basic fuel and ignition system concepts. Safety expectations are taught and consistently reinforced in both classroom and laboratory settings. **This course is limited to 21 students.** Sequence: 1st course in pathway	

Auto 2A and 2B **Grade Levels:** 10 - 11	**Course Offering:** Fall and Spring **Prerequisites:** Auto 1 with C or higher or instructor's permission
This course is set up to teach students both the theory and practical skills they need in 10 key areas of automotive service. After the lessons in the classroom, there will be a focus on working in labs where students can get real experience. These labs will feature the latest tools and equipment to help them practice. The goal is to help students learn the basics of repairing modern cars and light trucks. Safety will be a priority and will be covered in both classrooms and labs. Additionally, students are encouraged to join SkillsUSA activities to enhance their learning and experiences. **This course is limited to 17 students. Sequence:** 2nd course in pathway	

Auto 3A and 3B Capstone **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Auto 2 with C or higher or instructor's permission
This course gives students a hands-on experience similar to working in a repair shop. In class, students will spend time in the lab figuring out what's wrong with cars and light trucks and fixing them. They will learn to use the latest tools and equipment to get ready for ASE Student Certifications. The course will also help students build teamwork and problem-solving skills needed for beginner jobs in the automotive field. By the end of the course, students can earn up to 10 ASE Student Certifications. They are also encouraged to join SkillsUSA activities to enhance their learning experiences. **This course is limited to 17 students. Sequence:** Capstone course in pathway	

Automotive Technology Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Automotive Technology Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway	

Certifications Available

- ASE (Automotive Service Excellence)
- OSHA Ten Hour

Aircraft Maintenance Pathway

Recommended Course Sequence

- ✓ Required class
- • Recommended class

This pathway has limited seats per course.

9th Grade

- ✓ **Intro to Aviation and Aircraft Technology: 200010 (1 credit, semester class)**

⇩

10th Grade

- ✓ **Aircraft Maintenance 1A and 1B: 201140 (2 credits, year-long class)**

⇩

11th Grade

- ✓ **Aircraft Maintenance 2A and 2B: 201141 (2 credits, year-long class)**

⇩

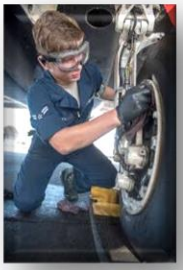
12th Grade

- ✓ **Aircraft Maintenance 3A and 3B Capstone: 201142 (2 credits, year-long class)**

and

- ✓ **Aircraft Maintenance Work-Based Learning: 201484 (2 credits, year-long class)** ***Must have completed the Aircraft Maintenance Pathway***

Aircraft Maintenance Pathway



Planning, management, and movement of people, materials, and goods by air and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

This cluster prepares students for various jobs in the aviation mechanics industry such as aircraft engine specialist, aviation inspector, and much more.

Intro to Aviation and Aircraft Technology **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This course will give you an overview of the aviation, aerospace, and aircraft maintenance fields. You'll learn about job opportunities in aviation, understand important concepts related to flying, and look at common practices in aircraft maintenance. Topics covered include the history of aviation, pilot training, how airplanes are built, engines, basic flight principles, the environment for flying, airport operations, navigation, and drones. **Sequence:** 1st course in pathway	

Aircraft Maintenance 1A and 1B **Grade Levels:** 10 - 11	**Course Offering:** Fall and Spring **Prerequisites:** Introduction to Aviation and Aircraft Technology
This course aims to teach how aircraft bodies work and how to maintain and repair them. It includes both lectures and hands-on practice in the PR2TA hangar at Emmett Airport. Students will start learning about important topics required by the Federal Aviation Administration (FAA) to prepare for the General knowledge test needed for the FAA Airframe and Power plant (A&P) certification. They'll also acquire skills that will help them in an apprenticeship for A&P, such as shop safety, working safely around aircraft, recognizing tools, handling aircraft on the ground, servicing aircraft, understanding aviation math, managing aircraft weight and balance, performing repairs and fabrication, and controlling aircraft corrosion. Knowing some algebra is useful but not mandatory. **Sequence:** 2nd **and** 3rd course in pathway	

Aircraft Maintenance 2A and 2B **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Aircraft Maintenance 1A and 1B
This course aims to teach students about AC electrical systems and how to fix AC electronic systems in airplanes. Students will learn how to perform and document yearly inspections, understand the rules and regulations, read aircraft blueprints, and carry out advanced repairs on the airframe. **Sequence:** 4th **and** 5th course in pathway	

Aircraft Maintenance 3 A and B Capstone **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Aircraft Maintenance 2A and 2B
This capstone course is meant to help students understand how aircraft engines work and how to take care of them. It covers the basics of how to maintain and repair engine systems and parts. Students will learn about DC electrical systems and how to fix problems with them, how to identify and create fluid lines, and recognize different aircraft materials and processes. They'll also learn about cleaning aircraft and preventing corrosion. To finish the course, students will take and pass a 50-question general exam as part of the FAA A&P certification process. **Sequence:** Capstone courses in pathway.	

Aircraft Maintenance Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Aircraft Mechanics Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway	

Certifications Available

- FAA A&P Certification

Aviation Flight Pathway

Recommended Course Sequence

- ✓ Required class
- • Recommended class

This pathway has limited seats per course.

9th Grade

- ✓ **Intro to Aviation and Aircraft Technology: 200010 (1 credit, semester class)**

⇩

10th Grade

- ✓ **Aviation 1A and 1B: 200530 (2 credits, year-long class)**

⇩

11th Grade

- ✓ **Aviation 2A and 2B: 200531 (2 credits, year-long class)**

⇩

12th Grade

- ✓ **Aviation 3A and 3B Capstone: 200532 (2 credits, year-long class)**

and

- ✓ **Aviation Work-Based Learning: 201485 (2 credits, year-long class)** ***Must have completed the Aviation Flight Pathway***

Aviation Flight Pathway



Planning, management, and movement of people, materials, and goods by air and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

This cluster prepares students for various jobs in the aviation flight industry such as airline pilot, ground and tower air controller, drone pilot, and much more. This is the pathway to commercial drones and/or private pilot license. It is in the process of being approved by the state as an official CTE Pathway.

Intro to Aviation and Aircraft Technology **Grade Levels:** 9 - 10	**Course Offering:** Fall and Spring **Prerequisites:** None
This course will give you an overview of the aviation, aerospace, and aircraft maintenance fields. You'll learn about job opportunities in aviation, understand important concepts related to flying, and look at common practices in aircraft maintenance. Topics covered include the history of aviation, pilot training, how airplanes are built, engines, basic flight principles, the environment for flying, airport operations, navigation, and drones. **Sequence:** 1st course in pathway.	

Aviation 1A and 1B **Grade Levels:** 10 - 11	**Course Offering:** Fall and Spring **Prerequisites:** Introduction to Aviation and Aircraft Technology
Aviation 1A will introduce students to basic weather concepts that are important for flying aircraft and drones. The focus will be on how to use national weather service reports and forecasts to assess flying conditions. This course will also help prepare students for the weather portion of the FAA Private Pilot Knowledge exam. Aviation 1B will explore fundamental ideas about how airplanes fly, including the shapes of wings and the forces acting on them, airplane performance, stability, control, and the limits on strength, as well as how these factors apply to different flying situations. Students will explore how drones are used in different industries and how to fly them properly. **Sequence:** 2nd course in pathway.	

Aviation 2A and 2B **Grade Levels:** 11 - 12	**Course Offering:** Fall and Spring **Prerequisites:** Aviation 1A and 1B
Aviation 2 A & B will build on what students learned in previous courses, focusing on the basic skills they need for flying under normal conditions. Student will continue to develop technical skills to use drones for advanced applications. By the end of this course, students who are doing well will be able to use their knowledge and skills in different flight simulations. Additionally, those who finish this course can move on to more advanced training in Advanced Flight, where they will keep preparing for the FAA Private Pilot written exam. **Sequence:** 3rd course in pathway.	

Aviation 3A and 3B Capstone **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Aviation 2A and 2B
In this capstone course, students will learn about flying, rules, weather, and how to use instruments, all to get ready for the FAA's instrument knowledge test. This class is designed to help students start their careers in aviation. Building on what they learned in Introduction to Aerospace and Principles of Flight, students in Advanced Flight will receive in-depth training to prepare for the Federal Aviation Administration (FAA) Private Pilot written exam. **Sequence:** Capstone course in pathway.	

Aviation Work-Based Learning **Grade Levels:** 12	**Course Offering:** Fall and Spring **Prerequisites:** Completion of Aviation Pathway
This is an option for students who have completed the pathway and are looking at extending their learning through a supervised internship/work-based learning experience. Students enrolled must have their own transportation when required. **Sequence:** Optional course in pathway.	

Certifications Available

- OSHA Ten Hour
- FAA Remote Pilot Certificate
- FAA Private Pilot (Written Exam Prep)

Army Junior Reserve Officers' Training (JROTC)



The Junior Reserve Officers' Training Corps, or JROTC Program, includes full credit elective courses that provide interesting classroom instruction combined with the opportunity to serve the school and community, participate in extracurricular activities, enjoy active social programs, and have the opportunity for early leadership responsibilities. This program is also designed to teach students to be good, honest and respectable citizens and covers the basics of leadership giving the student a combination of values, competencies and attributes, inspiring and influencing them to become responsible citizens.

Army JROTC Levels I and II **Grade Level:** 9, 10, 11, & 12	**Course Offering: 2 Semesters** **Prerequisites:** None

This course is designed to develop an understanding of leadership traits and principles, citizenship, oral communication, physical fitness, health/wellness including drug prevention and CPR, motivational techniques such as "Unlocking Your Potential" and an awareness of military history. The course will recognize the acronym "LDRSHP" Loyalty, Duty, Respect, Honor, Integrity and Personal Courage in everything it covers during the course and will require the student to maintain a respectable student while attending the course.

This course will also include the study of wellness, fitness and first aid, drug awareness, ethical values, and principles of good citizenship in American history and Government. Students will be taught and demonstrate knowledge of drill, map reading, and physical training, with emphasis on methods of instruction.

Army JROTC Levels III and IV **Grade Levels:** 10, 11, & 12	**Course Offering: 2 Semesters** **Prerequisites:** Army JROTC Levels I and II

This course includes the study of leadership strategies, the foundation of success, managing conflict, career planning, financial planning, and citizenship in American history, and government with continued practical work in leadership, drill, technology awareness, and methods of instruction, map reading and physical training. This course also will require cadets to demonstrate leadership potential as role models, coaches, counselors, management skills, and assistant instructors. Study service to the Nation and financial planning, with continued practical work in drill, technology awareness, physical training, and command and staff principles. Cadets may only take Level 4 courses upon approval of the Instructor. Level III can be continued in lieu of Level IV until the cadet can show proficiency in all LEVEL I, II and III areas.

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