Osborne High School

Career, Technical and Agricultural Education

Pathway Offerings

Osborne High School's CTAE department currently offers 16 pathways within nine career clusters. Students must complete three courses to complete a pathway and can earn an industry credential in their field of study. Credentials are awarded in recognition of an individual's attainment of measurable technical or occupational skills necessary to obtain employment or to advance within an occupation. These technical or occupational skills are generally based on standards developed or endorsed by employers.

The table below outlines the pathways offered at Osborne. Click on a pathway to access more information about a pathway and the courses offered.

[Graphic Design](#)	[Audio Video Tech & Film](#)	[Business – Accounting](#)	[Business & Technology](#)
[Entrepreneurship](#)	[Human Resources](#)	[Financial Technology](#)	[JROTC – Army](#)
[Culinary Arts](#)	[Food & Nutrition](#)	[Public Safety- Criminal Investigations](#)	[Public Safety Communications](#)
[Public Safety – Firefighting](#)	[Emergency Medical Responder](#)	[Marketing](#)	[Engineering & Technology](#)
[Off Campus Work Based Learning](#)	[Work-Based Learning Tax Center](#)	[On Campus Work-Based Learning](#)	

More information about CTAE can be found at [Georgia's Department of Education website](#).

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Graphic Design Pathway

Overview

Graphic designers—or graphic artists—plan, analyze, and create visual solutions to communications problems. They find the most effective way to get messages across in print, electronic, and film media using a variety of methods such as color, type, illustration, photography, animation, and various print and layout techniques. The Graphics and Design pathway provides students with the processes involved in the technologies of printing, publishing, packaging, electronic imaging, and their allied industries.

Pathway Courses	48.56100 Introduction to Graphics and Design
	48.56200 Graphic Design and Production
	48.52800 Advanced Graphic Design
Careers	• Graphic Designers • Desktop publishers • Commercial & industrial designers • Multimedia Artist & Animators
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	Adobe Illustrator
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	Program of Study

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Audio Video Technology & Film

Overview

The pathway prepares students for employment or entry into a postsecondary education program in the audio and video technology career field. Topics include Planning, Writing, Directing and Editing a Production; Field Equipment Functions; Operational Set-Up and Maintenance; Advanced Editing Operations; Studio Productions; Performance; Audio/Video Control Systems; Production Graphics; Career Opportunities; and Professional Ethics. Students will also produce and manage the daily Osborne News Show.

Pathway Courses	10.51810 Audio & Video Technology & Film I
	10.51910 Audio & Video Technology & Film II
	10.52010 Audio & Video Technology & Film III
Careers	- AV Equipment Tech - Camera Operators - Broadcast Technicians - Film and Video Editors
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	Television Production NOCTI Job Ready Assessment
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	Program of Study

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Business – Accounting

Overview

In the Business Accounting pathway, students will be introduced to basic business concepts. Students will become literate in the world of personal finances by studying banking, credit, insurance, investing and more. Finally, by using financial information, students will learn how to make decisions about planning, organizing, and allocating resources using accounting procedures.

Pathway Courses	07.44130 Introduction to Business & Technology
	07.42600 Financial Literacy
	07.41100 Accounting I
Careers	- Tax preparers - Accountants - Auditors - Financial analysts - Financial managers
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	NOCTI Business Financial Management
For information about pathway, career, and post-secondary opportunities, visit the Program of Study link	Program of Study

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Business & Technology

Overview

In the Business Accounting pathway, students will be introduced to basic business concepts. In addition to these business concepts, students will focus on office technologies. Students will become competent in Microsoft Office applications such as Outlook, Word, Excel, Forms and PowerPoint. These computer skills are relevant and necessary in many careers. At the conclusion of study, students can receive certification in the MOS applications.

Pathway Courses	07.44130 Introduction to Business & Technology 07.44100 Business & Technology 07.45100 Business Communications
Careers	• Administrative support • Management analysts • Secretary
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	Microsoft PowerPoint
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	Program of Study

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Entrepreneurship

Overview

In the Entrepreneurship pathway, students learn how to take an idea and turn it into a business. Students will be exposed to the development of critical thinking, problem solving, and innovation in this course as they will either be the business owner or individuals working in a competitive job market in the future. Integration of accounting, finance, marketing, business management, legal and economic environments will be developed throughout projects in this pathway. Engaging students in the creation and management of a business and the challenges of being a small business owner will be fulfilled in this pathway.

Pathway Courses	07.44130 Introduction to Business & Technology 06.415000 Legal Environment of Business 06.41610 Entrepreneurship
Careers	• Small business owner • Financial advisor • Operations managers
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	NOCTI General Management Test
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	Program of Study

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Human Resources

Overview

Every business organization wants to attract, motivate, and keep qualified employees and match them to jobs for which they are well suited. Human resources workers accomplish this by directing the administrative functions of an organization. Their work involves overseeing employee relations, regulatory compliance, and employee-related services such as payroll, training, and benefits. Managers supervise the department's specialists and support staff and ensure that tasks are completed accurately and on time.

Pathway Courses	07.44130 Introduction to Business & Technology 06.415000 Legal Environment of Business 06.41800 Human Resources
Careers	- Training & development specialists - Human Resources managers - Fundraisers
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	NOCTI Human Resources
For information about pathway, career, and post-secondary opportunities, visit the Program of Study link	Program of Study

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This is a senior-level course for students in the 3DE program.

Financial Technology

Overview

The Financial Technology pathway explores what new financial technologies are emerging and how technological advances in data analytics are enabling innovation in the financial industry. Students examine new services and business models in various areas of banking, insurance, and financial asset management. In the third-level course, students will examine the design and development of dynamic, data-driven financial applications using client- and server-side architecture.

Pathway Courses	07.42700 Intro to Financial Technology
	07.42800 Financial Technologies & Services
	11.46300 Coding for FinTech
Careers	- Information Security Analysts - Network systems Administrators - Computer Network Architects - Mobile Application Developers
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	More info to come
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	Program of Study

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JROTC – Army

Overview

Junior Reserve Officer Training Corps (JROTC) is a leadership education program. This program will help students build a strong knowledge base of self-discovery and leadership skills applicable to many leadership and managerial situations. Mastery of these standards through project-based learning, service learning and leadership development activities will prepare students for 21st Century leadership responsibilities.

Pathway Courses	28.03100 JROTC Army Leadership Education 1
	28.03200 JROTC Leadership Education 2
	28.03300 JROTC Leadership Education 3
Careers	- Graphic Designers - Desktop publishers - Commercial & industrial designers - Multimedia Artist & Animators
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	
For information about pathway, career, and post-secondary opportunities, visit the Program of Study link	Program of Study

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Culinary Arts

Overview

A career in culinary arts involves more than simply cooking. Many job opportunities exist in this field, from executive chefs to part-time food service workers. Fundamental techniques, skills, and terminology are covered and mastered with an emphasis on basic kitchen and dining room safety, sanitation, equipment maintenance and operation procedures. Job openings for chefs, cooks, food preparation workers and food service managers are expected to be plentiful through 2024.

Pathway Courses	20.53100 Introduction to Culinary Arts
	20.53210 Culinary Arts I
	20.53310 Culinary Arts II
Careers	- Food service managers - Chefs and Head Cooks - Bakers - Meeting, Convention and Event Planners
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	NOCTI Culinary Arts
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	Program of Study

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Food & Nutrition

Overview

Those working in the food and nutrition field help people lead healthier lives through a balanced diet. These people plan food and nutrition programs and supervise the preparation and serving of meals. They help prevent and treat illnesses by promoting healthy eating habits and by recommending dietary modifications.

Pathway Courses	20.41610 Food, Nutrition & Wellness 20.41400 Food for Life 20.41500 Food Science
Careers	• Food Service Managers • Dieticians & Nutritionists • Fitness & Wellness Coordinators
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	Nutrition, Food, and Wellness Pre-Professional Assessment and
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	Program of Study

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Public Safety- Criminal Investigations

Overview

This pathway examines the basic concepts of law related to citizens' rights and the responsibilities, and students will receive instruction in critical skill areas including: communicating with diverse groups, conflict resolution, ethics, basic firefighting, report writing, terrorism, civil and criminal law. Students will also study the criminal justice system. Students will become immersed in criminal and constitutional law and will review basic law enforcement skills. The second course ends with a mock trial to provide participants with a first-hand experience of the criminal justice system. The final course is designed to provide students with an opportunity to explore the basic processes and principles of a criminal investigation.

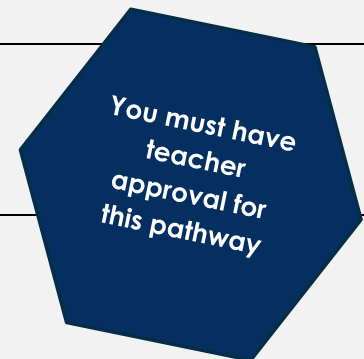| Pathway Courses	43.45000 Intro to Law, Public Safety, Corrections, & Security
	43.45100 Criminal Justices Essentials
	43.45300 Criminal Investigations
Careers	• Police officer • Security officer
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	NOCTI Criminal Justice
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	N/A

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Public Safety Communications

Overview

This pathway examines the basic concepts of law related to citizens' rights and the responsibilities, and students will receive instruction in critical skill areas including: communicating with diverse groups, conflict resolution, ethics, basic firefighting, report writing, terrorism, civil and criminal law. Students will also study the criminal justice system. Students will become immersed in criminal and constitutional law and will review basic law enforcement skills. The second course ends with a mock trial to provide participants with a first-hand experience of the criminal justice system. In the final course, students learn to handle law enforcement, as well as fire and emergency calls and medical calls. Students will complete CPR, AED, and First Aid training.

Pathway Courses	43.45000 Intro to Law, Public Safety, Corrections, & Security 43.45100 Criminal Justices Essentials 43.46200 Public Safety Communications
Careers	• 911 Operators • Public Safety Dispatchers
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	Students will complete the APCO certification which can lead to employment as a 911 Operator
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	N/A

You must have teacher approval for this pathway
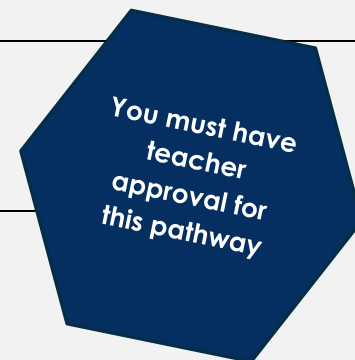
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Firefighting

Overview

This pathway addresses the essential components needed for fire and emergency services. Students will be prepared for their third-course options that include the following: firefighting, emergency medical responder, and public safety communications. Students will explore career options, interagency communications, medical services, and basic firefighting standards. The final course is designed to meet the requirements of NFPA® 1001, Fire Fighter I. After completing this course, the student will be able to sit for the exam to certify as a Firefighter I per National Fire Protection Association (NFPA®) 1001, Standard for Fire Fighter Professional Qualifications.

Pathway Courses	43.45000 Intro to Law, Public Safety, Corrections, & Security 43.46000 Essentials of Firefighting 43.44000 Applications of Firefighting
Careers	• Firefighter • Emergency Medical Technician • Emergency Medical Responder
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	NOCTI Fire & Emergency Services
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	N/A

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You must have teacher approval for this pathway

Emergency Medical Responder

Overview

The Emergency Medical Responder (EMR) course prepares the student to provide initial stabilizing care to the sick or injured prior to the arrival of Emergency Medical Services Professionals (EMS), and to assist EMS personnel in transporting patients for definitive care at an appropriate hospital/facility. Major areas of instruction include Introductory Medical Terminology and Anatomy & Physiology; Responder Safety; Incident Command; Blood-borne Pathogen Training; Basic Physical Assessment; and Treatment of Trauma and Medical Emergencies; Cardiopulmonary Resuscitation and the use of Automatic External Defibrillators (AEDs).

Pathway Courses	43.45000 Intro to Law, Public Safety, Corrections, & Security 43.46000 Essentials of Fire & Emergency Services 25.45000 Emergency Medical Responder
Careers	• Emergency Medical Responders
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	N/A

You must have teacher approval for this pathway

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Marketing & Management

Overview

Marketing professionals are responsible for developing, implementing, and managing a company's marketing efforts, both through traditional and digital formats, to stimulate customer interest and generate sales. To assess consumer demand, marketing managers evaluate the products and services offered by their own firm and its competitors.

Pathway Courses	08.47400 Marketing Principles 08.44100 Marketing & Entrepreneurship 08.44200 Marketing Management
Careers	• Sales Managers • Promotional Managers • Telemarketers
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	OK Career Tech Marketing Exam
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	Program of Study

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Engineering & Technology

Overview

Professionals in the engineering and technology field continue to revolutionize the way we live. They design, produce, operate, and maintain a variety of equipment and services we use in our everyday lives. The rapidly changing engineering and technology field requires a broad educational background and a lifelong commitment to learning new and specialized information. Overall job opportunities in engineering and technology are expected to be good but will vary by specialty. Technology and technology-related employment will continue to increase as technology changes and new technology is invented.

Pathway Courses	21.42500 Foundations of Engineering and Technology
	21.47100 Engineering Concepts
	21.47200 Engineering Applications
Careers	• Electrical Engineers • Civil Engineers • Cost Estimators
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	NOCTI Engineering
For information about pathway, career, and post-secondary opportunities, visit the Program of Study link	Program of Study

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Work-Based Learning – Off Campus

Overview

The Work-Based Learning Program (WBL) is a continuum of awareness, exploration, preparation, and training activities, including developing employability and technical skills that support success in careers and postsecondary education. Structured learning and authentic work experiences are implemented through an education and industry partnership. Students have the opportunity to connect what they learn in school with worksite application, enabling a smooth transition into the work force and/or education beyond high school. Work-Based Learning activities culminate in an assessment and recognition of acquired knowledge and skills.

Course	06.7114099 WBL Business Management (Specific course is determined by prior course completion within CTAE.)
Careers	Various
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	Not Applicable
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	Program of Study

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Work-Based Learning – Tax Center

Overview

The Work-Based Learning Program (WBL) is a continuum of awareness, exploration, preparation, and training activities, including developing employability and technical skills that support success in careers and postsecondary education. Structured learning and authentic work experiences are implemented through a functioning business within the school. The Osborne Tax Center provides free tax preparation for students, staff and the community. Students will run all aspects of the small business. Each year, the tax center prepares more than 300 tax returns during the filing season.

Prerequisites	It is recommended that a student completes a pathway in Business Management Administration or Finance career clusters. Must be in 11th or 12th grade
Course	06.7114099 WBL Business Management
Careers	Tax Preparers Accountants Administrative Assistants
Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	IRS Certification Exam

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Work-Based Learning – On Campus

Overview

The Work-Based Learning Program (WBL) is a continuum of awareness, exploration, preparation, and training activities, including developing employability and technical skills that support success in careers and postsecondary education. Structured learning and authentic work experiences are implemented through a department within the school. Students have the opportunity to practice worksite application and gain experience without ever leaving the Osborne campus. Work-Based Learning activities culminate in an assessment and recognition of acquired knowledge and skills.

Course	06.7114099 WBL Business Management (Specific course is determined by prior course completion within CTAE.)
Careers	Various
Pathway Credentialing Opportunity (at the completion of the three pathway courses, students will take the End of Pathway Assessment)	Not Applicable
For information about pathway, career and post-secondary opportunities, visit the Program of Study link	Program of Study

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