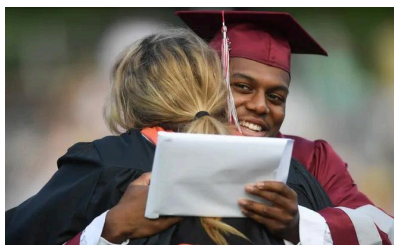


# Exploring Pathways

at Oak Ridge High School

Every student prepared for College, Career and Life **Success**



**Oak Ridge**  
SCHOOLS

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## Glossary of Acronyms

AP - Advanced Placement: courses give students the chance to tackle college-level work while still in high school and earn college credit and placement.

APG - Academic Planning Guide: a catalog of course offerings and descriptions, including graduation requirements.

CP - College Preparatory: course of studies designed to qualify students for admission to a college or university.

DC - Dual Credit: eligible high school students enroll in a college course and receive credit from both the college and high school, usually by participating in an aligned exam.

DE - Dual Enrollment: high school students taking college courses while they are still enrolled in a secondary school. Credit is awarded at both institutions. (Some offered off-campus).

WBL - Work-Based Learning: through experiences like internships, apprenticeships, and paid work experience, juniors and seniors (16 years or older) may earn high school credit for course-aligned employment.

For more detailed information, see our full Academic Planning Guide:

[https://www.ortn.edu/ORHS/APG\\_2024-2025.pdf](https://www.ortn.edu/ORHS/APG_2024-2025.pdf)

# Introduction to Pathways

Oak Ridge Schools is committed to preparing every student for college, career, and life success. To support that effort, students are required to explore Pathways during their ORHS career that will prepare them for post-secondary pursuits, whether that's college, career, and/or military. **Built into our graduation requirements (page 3) are 3 credits in an elective focus. Students have an additional 6 credits with which they can explore multiple pathways.**

## How are Pathways Identified?

Pathways align with [career clusters identified by the Tennessee School Board Association](#), with special consideration given to availability of instructors and interest of current student body.

## What if my student changes Pathways?

Students are encouraged to explore multiple pathways at ORHS. By requiring 3 credits in an elective focus, it affords students time and flexibility to take courses in other pathways and change if needed.

## What should my student consider when choosing a Pathway?

The student's personal interests and strengths should be determining factors when choosing a pathway. Other factors including job demand/work force needs, required degrees/certifications and median salary are outlined on the [TSBA Data Dashboard](#).

## What is an Elective Focus?

We offer five categories of elective focus, with aligned pathways.

### Advanced Studies

- Advanced Placement & Dual Studies
- Advanced Math & Science

### Arts, Business, and Communications

- Arts & A/V Communications (Broadcasting or Digital Arts)
- Business, Finance, & Marketing
- Performing Arts
- Visual Arts

### Health and Public Services

- Cosmetology
- Education & Training
- Exercise Science
- Health Science
- NJROTC

### Humanities

- English Language Arts
- Social Studies
- World Languages

### Industry and Innovation

- Automotive
- Aviation
- Clean & Nuclear Energy Innovations
- Electrical and Construction
- Information Technology
- iSchool Wildcat Manufacturing
- STEM Engineering & Machining
- Welding

## GRADE-LEVEL COUNSELORS

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### Class of 2029

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# Graduation Requirements

To graduate, a student must finish the credit requirements outlined below within four years and the summer following the senior year to count as an on-time graduate by the Tennessee Department of Education.

GRADUATION REQUIREMENTS		
SUBJECT	COURSES REQUIRED	CREDITS REQUIRED
<b>English</b>	<ul style="list-style-type: none"> <li>English 9</li> <li>English 10</li> <li>English 11</li> <li>English 12</li> </ul>	4 Credits
<b>Math</b>	<ul style="list-style-type: none"> <li>Algebra 1</li> <li>Geometry</li> <li>Algebra 2</li> <li><b>+1 Choice*</b></li> </ul>	4 Credits
<b>Science</b>	<ul style="list-style-type: none"> <li>Biology</li> <li>Chemistry or Physics</li> <li><b>+1 Choice</b></li> </ul>	3 Credits
<b>Social Studies</b>	<ul style="list-style-type: none"> <li>US Gov</li> <li>US History</li> <li>World History</li> <li>Economics</li> <li>Personal Finance</li> </ul>	3.5 Credits
<b>Lifetime Wellness</b>	<ul style="list-style-type: none"> <li>Wellness A</li> <li>Wellness B</li> <li><b>3rd Wellness**</b></li> </ul>	1.5 Credits
<b>World Languages</b>	<ul style="list-style-type: none"> <li>2 Credits in the same language</li> </ul>	2 Credits
<b>Visual &amp; Performing Arts</b>	<ul style="list-style-type: none"> <li>1 Credit Visual or Performing Arts</li> </ul>	1 Credit
<b>Elective Focus</b>	<ul style="list-style-type: none"> <li>At Least 3 Credits in Selected Pathways</li> </ul>	3 - 9 Credits
<b>Total Credits Required for Graduation</b>		<b>28 Credits</b>

\*Students must be enrolled in a mathematics course or an approved substitution in 3 of 4 years per Tennessee State Board of Education Policy 2.103.

\*\*3rd Wellness can be obtained through taking wellness C, one season of interscholastic athletics, marching band, 2 credits of NJROTC, repeating wellness B, or taking athletic conditioning.

\*\*\*General studies elective pathway at counselor discretion.

^World Language and Fine Arts Waivers may be submitted by administrative approval. See full paragraph about this option if needed.

+Beginning with the class of 2028, all students are required to take 1 credit of Computer Science before graduation.

~All students must take the ACT or SAT and the U.S. Civics test.

# Pathways

Built into our graduation requirements are 3 credits in an elective focus. Students have an additional 6 credits with which they can explore multiple pathways beyond the core requirements from the following programs.



Advanced Placement and Dual Studies



Humanities



Advanced Math & Science



Health Science



Arts & A/V Communications



Information Technology



Automotive



iSchool & Wildcat Manufacturing



Aviation



NJROTC



Business, Finance and Marketing



Performing Arts



Clean & Nuclear Energy Innovations



Electrical and Construction



Cosmetology



STEM Engineering and Machining



Education & Training



Visual Arts



Exercise Science



Welding

# Course Offerings By Pathway

Students must complete any three (3) of the courses aligned to their elective focus.

<b><i>Advanced Studies Elective Focus</i></b>	
<b>Advanced Placement and Dual Studies</b>	<ul style="list-style-type: none"> <li>• Any 3 AP, Dual Enrollment, or Dual Credit classes</li> <li>• Additional elective(s) based on subject or career interest</li> </ul>
<b>Advanced Math &amp; Science</b>	<ul style="list-style-type: none"> <li>• Any math courses beyond graduation requirements (<i>Includes Math Thesis 1 &amp; 2 by recommendation</i>)</li> <li>• Any science courses beyond graduation requirements</li> <li>• Additional elective(s) based on subject or career interest</li> </ul>
<b><i>Arts, Business, and Communications Elective Focus</i></b>	
<b>Arts &amp; A/V Communications</b>  <b>Broadcasting or Digital Arts</b>	<ul style="list-style-type: none"> <li>• Broadcasting 1</li> <li>• Broadcasting 2 Dual Credit with PSCC</li> <li>• Broadcasting 3</li> <li>• Broadcasting 4 Career Practicum and/or WBL</li> <li>• Digital Arts 1</li> <li>• Digital Arts 2</li> <li>• Digital Arts 3</li> <li>• Digital Arts 4 Career Practicum and/or WBL</li> </ul>
<b>Business, Finance and Marketing</b>	<ul style="list-style-type: none"> <li>• CS Foundations of Emerging Technologies</li> <li>• Introduction to Business and Marketing</li> <li>• Accounting 1 &amp; Accounting 2</li> <li>• Business Marketing &amp; Management</li> <li>• Virtual Enterprise and/or WBL</li> </ul>
<b>Performing Arts</b>	<ul style="list-style-type: none"> <li>• Band (multiple levels)</li> <li>• Choir (multiple levels)</li> <li>• Orchestra (multiple levels)</li> <li>• Color Guard (multiple levels)</li> <li>• Theatre Courses (multiple levels)</li> </ul>
<b>Visual Arts</b>	<ul style="list-style-type: none"> <li>• Art Foundations</li> <li>• 2D Visual Art</li> <li>• Ceramics (DE option)</li> <li>• Digital Art</li> <li>• Printmaking</li> <li>• Photography</li> <li>• AP Studio</li> </ul>

# Course Offerings By Pathway

Students must complete any three (3) of the courses aligned to their elective focus.

<b><i>Health and Public Services Elective Focus</i></b>	
<b>Cosmetology</b>	<ul style="list-style-type: none"> <li>• Introduction to Business &amp; Marketing</li> <li>• DE Cosmetology 1</li> <li>• DE Cosmetology 2</li> </ul>
<b>Education &amp; Training</b>	<ul style="list-style-type: none"> <li>• Teaching as a Profession 1</li> <li>• Teaching as a Profession 2</li> <li>• DE Teaching as a Profession 3</li> <li>• Teaching as a Profession 4 Work-Based Learning</li> </ul>
<b>Exercise Science</b>	<ul style="list-style-type: none"> <li>• Health Science Education</li> <li>• Rehabilitation Careers</li> <li>• Anatomy &amp; Physiology and/or DE Gross Anatomy</li> <li>• Wellness Beyond Graduation Requirements</li> <li>• Athletic Conditioning</li> </ul>
<b>Health Science</b>	<ul style="list-style-type: none"> <li>• Health Science Education</li> <li>• Medical Therapeutics</li> <li>• Rehabilitation Careers</li> <li>• Anatomy &amp; Physiology and/or DE Gross Anatomy</li> <li>• DE Clinical Services &amp; Clinical Internship or DE Nursing Services Work-Based Learning</li> </ul>
<b>NJROTC</b>	<ul style="list-style-type: none"> <li>• Naval Sciences JROTC 1</li> <li>• Naval Sciences JROTC 2</li> <li>• Naval Sciences JROTC 3</li> <li>• Naval Sciences JROTC 4+</li> <li>• Additional elective(s) based on subject or career interest</li> </ul>
<b><i>Humanities Elective Focus</i></b>	
<b>English Language Arts</b> <b>Social Studies</b> <b>World Languages</b>	<ul style="list-style-type: none"> <li>• English Language Arts electives beyond graduation requirements including AP and DE coursework</li> <li>• Social Studies electives beyond graduation requirements including AP and DE coursework</li> <li>• World Language electives beyond graduation requirements including AP and DE coursework</li> </ul>

# Course Offerings By Pathway

Students must complete any three (3) of the courses aligned to their elective focus.

<b>Industry and Innovation Elective Focus</b>	
<b>Automotive</b>	<ul style="list-style-type: none"> <li>• DE Automotive Maintenance 1</li> <li>• DE Automotive Maintenance 2</li> <li>• DE Automotive Maintenance 3</li> <li>• DE Automotive Maintenance 4 and/or WBL</li> </ul>
<b>Aviation</b>	<ul style="list-style-type: none"> <li>• Introduction to Aerospace</li> <li>• Aviation 1 &amp; 2 (ground tests)</li> <li>• Aviation Airframe &amp; Power Plant (A&amp;P) 1 &amp; 2</li> <li>• Work-Based Learning Flight School (flight tests)</li> <li>• Dual Credit by Exams with MTSU</li> </ul>
<b>Clean &amp; Nuclear Energy Innovations</b>	<ul style="list-style-type: none"> <li>• Fundamentals of Clean Energy</li> <li>• Fundamentals of Nuclear Energy</li> <li>• Cross-Cutting Coursework in Business &amp; Marketing and/or IT</li> <li>• Advanced STEM, iSchool, and/or Welding</li> <li>• Middle/Early College Nuclear Technologies at RSCC</li> <li>• Project Management/Project Controls Emphasis at RSCC</li> </ul>
<b>Electrical and Construction</b>	<ul style="list-style-type: none"> <li>• Advanced STEM, iSchool, and/or Welding</li> <li>• Cross-Cutting Coursework in Business &amp; Marketing and/or IT</li> <li>• Interim Credentials Virtual Coursework with IBEW</li> </ul>
<b>Information Technology</b>	<ul style="list-style-type: none"> <li>• CS Foundations of Emerging Technologies</li> <li>• Coding 1 or Cybersecurity 1</li> <li>• AP Computer Science Principles</li> <li>• AP Computer Science A</li> <li>• DE Programming, DE Cybersecurity (CompTIA), and/or WBL</li> </ul>
<b>iSchool &amp; Wildcat Manufacturing</b>	<ul style="list-style-type: none"> <li>• i-School 1</li> <li>• i-School 2</li> <li>• DE Wildcat Manufacturing WBL 3</li> <li>• DE Wildcat Manufacturing WBL 4</li> </ul>
<b>STEM Engineering &amp; Machining</b>	<ul style="list-style-type: none"> <li>• Advanced STEM 1</li> <li>• DE Advanced STEM 2</li> <li>• DE Advanced STEM 3</li> <li>• DE Advanced STEM 4 and/or WBL</li> </ul>
<b>Welding</b>	<ul style="list-style-type: none"> <li>• DE Welding 1</li> <li>• DE Welding 2</li> <li>• DE Welding 3</li> <li>• DE Welding 4 and/or WBL</li> </ul>