



9th Grade Program of Studies

This program is designed to assist incoming 9th graders with the course selection process by highlighting the information most relevant to their freshman experience. For a review of all ORHS offerings, please reference the main Program of Studies on the ORHS website.

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ORHS Website: <http://www.orcsd.org/hs/>

Discrimination against and harassment of Oyster River Cooperative school employees because of age, sex, race, creed, color, marital status, familial status, physical or mental disability, genetic information, national origin or sexual orientation are prohibited. Discrimination against and harassment of students because of sex, race, creed, color, age, marital status, familial status, physical or mental disability, national origin or sexual orientation are prohibited.

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Our Mission

Oyster River High School Mission

Oyster River High School promotes a safe and nurturing community where the uniqueness of each member is valued. In this spirit, we are committed to becoming educated, ethical, responsible citizens who strive to contribute positively toward the betterment of ourselves, our school, our society, and our world.

ORHS 21st Century Learning Expectations

-  Knowledgeable Person
-  Skilled Information Processor
-  Critical and Creative Thinker
-  Self-Directed Learner
-  Responsible Citizen
-  Effective Communicator
-  Collaborative Worker

ORCSD Vision of a Graduate

ORCSD graduates will be empowered through an **awareness of self** and an **awareness of others**, who utilize a strong foundation of **transferable skills**.

Awareness of Self: Able to self-direct, self-regulate, self-advocate, and understand oneself as a learner. Be resilient, adaptable, and independent thinkers.

Awareness of Others: Be ethical, empathetic, respectful, and collaborative global thinkers.

Transferable Skills: Have strong foundational/core skills paired with a growth mindset that allows for critical thinking, effective communication, problem

Introduction

The *Program of Studies* is designed to assist you in planning your academic program at ORHS. It includes course descriptions, academic rules, and graduation requirements.

You will be more successful, and your high school experience will be more rewarding if courses are selected carefully. We encourage you to review the Program of Studies, and consult with your parents, teachers, and School Counselor for advice.

The Program of Studies is a guide to the comprehensive curriculum of ORHS. While every effort has been made to ensure accuracy, Oyster River High School reserves the right to make changes at any time

Grade Scale

Quality points are used to determine a student's Grade Point Average (GPA). GPA is used to determine honor roll status.

The final grade for all courses will be truncated. ORHS *does not* round the grade up to the next whole number.

Students receiving a grade of "D" or "F" in any subject will not be eligible for Honor Roll, regardless of their GPA.

Grade	Point	Range
A+	4.33	98-100
A	4.00	93-97
A-	3.67	90-92
B+	3.33	87-89
B	3.00	83-86
B-	2.67	80-82
C+	2.33	77-79
C	2.00	73-76
C-	1.67	70-72
D+	1.33	69
D	1.00	66-68
D-	.67	65
F	0.00	0-64

Honor Roll Designations

Honors: GPA = 3.00 to 3.32

High Honors: GPA = 3.33 to 3.82

Highest Honors: GPA = 3.83 to 4.33

Grade Reporting

Grades are reported quarterly to provide information regarding a student's academic progress via the PowerSchool Parent/Student Portal. Progress grades are reported mid-way through each quarter in PowerSchool.

All attempts for courses taken outside of ORHS will be noted on the ORHS transcript, including grades of Withdrawal or Failure.

Promotion Policy

Students are promoted by virtue of credit accumulation. Students must earn five credits as a freshman to be considered a sophomore, earn ten credits by the end of sophomore year to be considered a junior, and earn fifteen credits by the end of junior year to be considered a senior.

Transfer of Credits

High school courses transferred into ORHS will be included in the cumulative GPA. VLACS courses are considered transfer high school courses. Credits are accepted from accredited high school programs. Grades transferred into ORHS will be accepted at face value from the previous institution based on the previous institution's non-weighted grade scale (i.e. The grade of A from another school will be included as an A [4.0] at ORHS).

VLACS Course Transfer: Notation of all VLACS courses will be made on the ORHS transcript. This includes completed course grades and corresponding credits, as well as withdrawals and failures.

Process for Adding/Withdrawing from Courses

Course Load/Class Changes - Students are recommended to take a minimum of 6 courses based on individual student needs. Students wishing to enroll in fewer than 6 courses must meet with their School Counselor to develop a plan that must be approved by the Principal. Students may add courses to their schedules, providing space is available, for a period of up to **five (5) class periods following the start of the course.**

A student transcript reflects all academic endeavors, attempted and/or completed, throughout the high school career. Students who withdraw from a course within five weeks of its start will receive no grade and the course will not become part of the student's permanent record. Students who withdraw from a course *after five weeks* of attending the course will receive the grade earned to date for the quarter during which the withdrawal occurred. A grade of "W" will be assigned for the remaining quarters, and a final grade of "W" will be recorded on the transcript; a "W" is not factored into the calculation of the student's cumulative GPA, although any "W" will remain part of the student's permanent transcript, as a matter of record.

New Hampshire Scholars Program

New Hampshire Scholars is part of the State Scholars Initiative, a national program that partners with business leaders to motivate students, beginning in Grade 8, to complete a rigorous core course of study in high school - one that will give them a boost in college and careers. New Hampshire Scholars encourages and motivates all high school students to complete a rigorous core course of study that prepares them for successful transition to college coursework or technical training necessary to enter today's competitive job market.

New Hampshire Scholars gives students an edge – one that's of real value to them, the schools they attend, the companies they work for, and the communities where they live.



MINIMUM NH SCHOLAR REQUIREMENTS FOR ORHS STUDENTS

- English: 4 credits
- Math: 4 credits or 4 years
(including Alg. I, Alg. II and Geometry)
- Lab Science: 3 credits
(including Biology & Chemistry)
- Social Science: 3 ½ credits
- Foreign Language: 2 credits
(NH Scholar, STEM and Arts Pathway only)

See below for additional requirements of each pathway. You can't count a course twice.

STEM PATHWAY REQUIREMENTS

- Lab Science:
Additional 1 credit
- STEM related course:
1 credit
(Science, Math, Technology, Engineering, Computers, Advanced Manufacturing, including CTE, Project Lead The Way, Family Consumer Science, etc.)
- Minimum 3.4 GPA

MEDAL COLORS

- NH Scholar: Blue & Gold
- STEM: Green & Gold
- Art: Black & Gold
- Career: Red & Gold
- Complete two or more pathways: Maroon & Gold

ARTS PATHWAY REQUIREMENTS

- Art: 2 credits
(Visual Art, Fine Art, Performing Arts, Music, Graphic Design, etc.)
- Minimum 3.4 GPA

CAREER PATHWAY REQUIREMENTS

- Successfully complete one of the following: Approved NH CTE Program, Industry- Aligned or Career-Driven Extended Learning Opportunity, All Sequence Components in Formal Career Pathway Program of Study, CCSNH Industry Certificate Sequence
- Successfully engaged in a Work Based Learning Experience
- Successfully earned one of the following: College Credits, Industry Valued Recognized Certificate, or Postsecondary Hours

FOR MORE INFORMATION VISIT NHSCHOLARS.ORG



Course Selection Process/NCAA

Course Selection:

The course selection process for Freshmen, Sophomores, and Juniors is an eight-step process:

1. Meetings are held in the beginning of Semester 2 with students to discuss the course selection process, new course offerings and electives, and to review the *Program of Studies*.
2. Students review the Program of Studies with their parents/guardians.
3. Course Selection Window: Students receive course selection materials, review with parents/guardians, and then complete course selection in PowerSchool during the designated timeframe.
4. Students have individual conferences with their School Counselor to review course selections and graduation requirements after winter break.
5. Student course requests are posted on PowerSchool for parents to review.
6. The master schedule is built based on the courses requested by students, teacher availability, and room usage requirements.
7. Individual student schedules are generated and reviewed by Counseling staff.
8. Student schedules are posted on PowerSchool.

Are College Athletics in your future?

Athletes considering participation in intercollegiate athletics in any Division I or Division II College program must register with the National Collegiate Athletic Association (NCAA) and meet certain requirements regarding the scope and rigor of their academic program (among other requirements). Courses approved by the NCAA at the time this booklet went to press are noted with the NCAA's circular logo. Please see your School Counselor or the Athletic Director for more information. You can also read and download a guide for student athletes at ncaastudent.org or visit the NCAA Eligibility Center website [HERE](#).



The Programs and Services of the Bruce Smith Library/Learning Center

The Bruce Smith Library/Learning Center provides the tools and support necessary for students to become confident and capable lifelong learners who seek out, evaluate, use, and create information for a variety of purposes. Through class visits to the Library, direct instruction, small group work, and one-on-one assistance from the Library staff, students have abundant opportunities to meet this goal.

The Library maintains a collection designed to meet the personal interests and academic needs of our students. In addition to traditional books and magazines, the Library lends digital equipment and provides access to online databases and downloadable e-books and audiobooks. For needs that reach beyond our collection, the Library participates in the Statewide Interlibrary Loan Network, lending and borrowing items from libraries around New Hampshire.

The Library is open Monday through Thursday from 7:45 to 4:00. On Fridays, it is open from 7:45 until 3:00. On average, over 200 students use the Library daily, so we ask for students' cooperation in keeping the Library a productive and neat work environment for all. Desktop and laptop computers are available for school-related activities.

Graduation Requirements Worksheet

Program Area	Graduation Requirements 2 Year/Employment/Trade School	4 Year College/University (Minimum)	NH State Scholars Program (See pg. 9 for all NH Scholars Programs)	
Credits Required				
English <ul style="list-style-type: none"> • Essentials of English, Sophomore English, .5 Literature, .5 Communications, .5 Writing, .5 Elective 	4	4	4	
Mathematics <ul style="list-style-type: none"> • An Algebra I credit, and two additional math credits. • All students must complete 4 years of a math experience. See page 12 for classes. 	3*	3	3	
Science <ul style="list-style-type: none"> • A Life Science credit and a Physical Science credit 	2	3	3	
Social Studies <ul style="list-style-type: none"> • World Cultures, United States History, Citizen Education • Seniors must pass the U.S. Naturalization Citizenship Exam in order to graduate 	2.5	3	3.5	
Economics	.5	.5	.5	
Computer Science Education	.5	.5	N/A	
Fine Arts <ul style="list-style-type: none"> • Art, Music, Video, or Theater 	.5	.5	N/A	
World Languages <ul style="list-style-type: none"> • French, Mandarin Chinese, Spanish (2 years of the same language) 	optional <i>may be an elective</i>	2-3	2	
Health and Physical Education All students are required to take Health and 1.0 credit of PE	Health Education	.5	.5	N/A
	Physical Education	1.0	.5	N/A
Open Electives	7.5	2.5 - 3.5	N/A	
Total Credits				
Total Credits Needed for ORHS Diploma	22	22 (Minimum)	N/A	

Computer Science Requirement and Options

Successful completion of any of these courses will satisfy the graduation requirement of .5 credits in Technology:

Advanced Programming with Java
Computer Integrated Math 1

Introduction to Adobe
Introduction to Computer Science
Introduction to Programming with Python

Fine Art Requirement and Options

Acting I & II
Band
Beginner Piano/Keyboard
Chorus
Digital Video Production
Guitar Ensemble
Introduction to Art

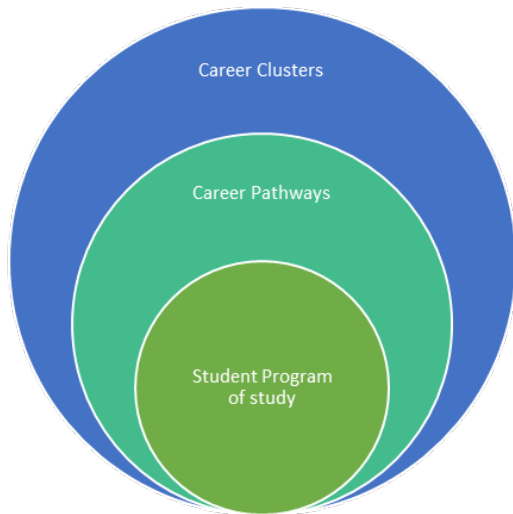
Introduction to Digital Art & Design
Introduction to Sculpture
Music Production
Music Theory
Songwriting
Strings Orchestra
World Drumming

4th Math Experience Options

Advanced Building Construction
Advanced Programming with Java
Advanced Woodworking
AP Chemistry
AP Economics
AP Physics
Astronomy
Bake Shop
Basic Woodworking
Building Construction
Chemistry

Economics
Exploring Electricity
Exploring Engineering
Introduction to Business
Introduction to Culinary Art
Introduction to Programming with Python
Marketing
Mechanical Technology
Personal Finance
Physics

Pathways to Success



Example:

Career Cluster: Health & Human Services

Career Pathway: Education

Student Program of Study: 4-year plan developed to support exploration within the Education pathway: Child Development I/II, Sociology, Psychology, CTC programming, etc.

What are Pathways to Success?

Career Clusters are broad occupational groupings based on a set of common knowledge and skills required for a broad group of careers. Career clusters provide opportunities for all students regardless of their career goals and interests. Career Clusters are a tool for a seamless educational system that blends rigorous academic/technical preparation, provides career development, offers options for students to experience all aspects of a business or industry, and facilitates/assists students and educators with ongoing transitions. ORHS, in conjunction with our area Career Technical Centers, have a wide variety of courses to support five Career Cluster areas. These include Arts, Communications & Humanities, Business, Management & Computer Technology, Health and Human Services, Industry & Engineering Technology, and Natural Resources.

Career Pathways are a sub-grouping of careers used as an organizing tool for curriculum design and instruction. Similar to career clusters, career pathways are grouped based on their requirements for a set of core and similar knowledge and skills for career success. Each pathway highlights a specific part of each cluster.

A **Student Program of Study** includes learning that is represented by fluid, living, breathing, mapped academic planning that reflects a student's unique set of interests, needs, learning goals, and graduation requirements. It goes beyond the "four-year plan" by encouraging participation in job shadowing, mentorships, internships, and/or apprenticeships, and the pursuit of skill development through hobbies, athletics, and fine arts.

How Can I Use the Pathways for Course Selection?

The Career Clusters outlined in the Program of Studies provide a very general outline of coursework that can provide skills and experience in a given field. Students may use the Career Cluster Model to choose courses in areas of interest. In addition, students will meet with their School Counselor to discuss course selection.

Arts, Communication, & Humanities

This pathway is designed to meet the needs of students considering careers that utilize skills in the area of Arts, Communication and Humanities. Listed below are potential career opportunities, aligned with the level of training required. In addition, possible college majors/career fields are listed, followed by ORHS courses that can provide additional skills and exposure. Please note that this is a suggested list and is not exhaustive. Students should meet with their School Counselor to create a detailed four-year plan.

<p style="text-align: center;"><u>Fine Arts</u></p> <p>Art Intro to Adobe World History Topics in World Cultures or Current History American Literature Basic Wood Advanced Wood Graphic Arts Digital Video Production (RS)</p>	<p>Possible Career Opportunities</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin: 10px auto; width: 80%;"> <p><u>Entry Level</u> Picture Framer Movie/TV Extra Sound Technician Darkroom Assistant Sign Painter Dancer Seamstress Lighting Technician Talent Agency Intern</p> </div> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin: 10px auto; width: 80%;"> <p><u>Technical Level</u> Instrument Repair Weaver/Potter Library Media Specialist Singer Choreographer Studio Artist Sculptor Instrumentalist Graphic Designer Jewelry Designer Historical Interpreter</p> </div> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin: 10px auto; width: 80%;"> <p><u>Professional Level</u> Architect Art Restorer Fashion Designer Interpreter/Translator Editor/Publisher Cinematographer Conductor Teacher/Educator Journalist/Photographer Public Relations Historian/Philosopher</p> </div>	<p style="text-align: center;"><u>Language & Culture</u></p> <p>English—Literature Emphasis World Language Critical Analysis of Storytelling Psychology Sociology Cold War and the 60's African American History Linguistics Genocide in the Modern World Women in American History World Religions</p>
<p style="text-align: center;"><u>Literature</u></p> <p>English—Literature Emphasis World Language</p>		<p style="text-align: center;"><u>Commercial Art</u></p> <p>College Composition (RS) Marketing Digital Video Production (RS) ORTV Intro to Adobe Art Basic Wood Advanced Wood Graphic Arts</p>
<p style="text-align: center;"><u>Media & Communication</u></p> <p>English—Communications Emphasis English—Writing Emphasis Acting I & II Digital Video Production (RS) Critical Analysis of Storytelling Music Theory Piano Band Linguistics Psychology Sociology Art Intro to Business (RS) Marketing ORTV Journalism I / II</p>		<p style="text-align: center;"><u>Music & Drama</u></p> <p>Debate and Persuasion Shakespeare Poetry Workshop Fiction Writing Music Drama Acting I & II Critical Analysis of Storytelling Digital Video Production (RS) ORTV Guitar Ensemble</p>

Potential Career Technical Programs (see page 64):

Animation & Web Design (S) Broadcast Technology (S) Computer Programming (D) Engineering (D/S/R)
Graphic Design (R) Teacher of Multiple Levels (R) Technical Theater & Design (S) Video & Graphic Arts (R)

Business, Management, & Computer Technology

This pathway is designed to meet the needs of students considering careers that utilize skills in the area of Business, Management, and Computer Technology. Listed below are potential career opportunities, aligned with the level of training required. In addition, possible college majors/career fields are listed, followed by ORHS courses that can provide additional skills and exposure. Please note that this is a suggested list and is not exhaustive. Students should meet with their School Counselor to create a detailed four-year plan.

Sales & Marketing

Debate & Persuasion
 Expository Writing
 Journalism
 Philosophy
 Linguistics
 World Language
 Introduction to Business (RS)
 Marketing
 Economics
 Micro & Macro Economics (RS)
 AP Economics
 Art
 AP Statistics
 Intro to Adobe
 Digital Video Production (RS)

Possible Career Opportunities

Entry Level

Receptionist
 Word Processor
 Bank Teller
 Payroll Clerk
 Customer Service
 Representative
 Salesperson
 Telemarketer

Technical Level

Court Reporter
 Claims Agent
 Real Estate Agent
 Computer Technician
 Medical Secretary
 Audit Clerk
 Retail Manager
 Travel Director
 Sales Representative

Professional Level

Estate Planner
 Loan Officer
 Sports/Recreation Manager
 Bank Examiner
 Accountant/CPA
 Advertising/Marketing Director
 System Analyst
 Investment Banker
 Entrepreneur

Sports/Recreation Management

Debate & Persuasion
 Environmental Science
 Digital Photography
 Psychology
 Sociology
 Introduction to Business (RS)
 Economics
 Journalism
 Exercise Physiology & Wellness

Accounting/Finance

Introduction to Business (RS)
 Personal Finance
 Algebra 1 & 2
 AP Statistics
 Economics
 Micro & Macro Economics (RS)
 AP Economics
 World Language
 Linguistics

Hotel/Restaurant Management

Expository Writing
 World Language
 Culinary Arts
 Computers
 Digital Photography
 Construction Technology
 Introduction to Business (RS)
 Personal Finance
 Economics
 World Language
 World Religions

Computer Technology

Physics
 Computers
 Music Theory
 Intro & Advanced Programming
 Algebra 1 & 2
 Computer Integrated Mathematics
 Science Fiction
 Exploring Engineering
 Linguistics

Potential Career Technical Programs (see page 64):

Accounting (R)	Banking & Financial Services (R)	Business Commerce (R)	Business, Entrepreneurship, & Marketing (S)
Business Principles (D)	Computer Networking (D)	Computer Programming (D)	Engineering (D/S/R)
Culinary Arts (D/S)	Engineering (D/S/R)	Restaurant Management (R)	

Health & Human Services

This pathway is designed to meet the needs of students considering careers that utilize skills in the area of Health & Human Services. Listed below are potential career opportunities, aligned with the level of training required. In addition, possible college majors/career fields are listed, followed by ORHS courses that can provide additional skills and exposure. Please note that this is a suggested list and is not exhaustive. Students should meet with their School Counselor to create a detailed four-year plan.

<p style="text-align: center;"><u>Education</u></p> <p>English Environmental Science Music Theory Social Studies World Language Computer courses Art Physical Education Child Development I & II (RS) Adulting</p>	<p style="text-align: center;">Possible Career Opportunities</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin: 5px 0;"> <p style="text-align: center;"><u>Entry Level</u></p> <p>Geriatric Aide Dietary Aide Certified Nurses Aide Health Information Technician Day Care Employee Police Officer Cook/Wait staff</p> </div> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin: 5px 0;"> <p style="text-align: center;"><u>Technical Level</u></p> <p>Licensed Practical Nurse Dental Hygienist Surgical Technician Pharmacy Technician Paramedic Cosmetologist Esthetician Chef Paralegal</p> </div> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin: 5px 0;"> <p style="text-align: center;"><u>Professional Level</u></p> <p>Registered Nurse Doctor Social Worker Teacher/Educator Lawyer/Judge Military Officer Government Employee Psychologist Athletic Trainer</p> </div>	<p style="text-align: center;"><u>Law/Government</u></p> <p>Debate & Persuasion Expository Writing Linguistics Forensics Environmental Science Psychology Sociology Criminal Law and Justice in America World Language World Religions</p>
<p style="text-align: center;"><u>Culinary Arts</u></p> <p>Intro to Culinary Arts Bake Shop Nutrition Fuel & Fitness Internship Digital Photography 3D Design</p>		<p style="text-align: center;"><u>Doctor/Dentist</u></p> <p>AP Biology AP Chemistry Physics AP Physics Calculus (RS) Computer courses World Language Psychology Sociology Nutrition Fuel & Fitness Anatomy & Physiology (RS) Exploring Engineering</p>
<p style="text-align: center;"><u>Psychology/Sociology</u></p> <p>Women's Literature World Literature AP Biology Forensics Anatomy & Physiology (RS) Sociology Psychology World Language AP Statistics Child Development I & II (RS) Adulting Linguistics</p>		<p style="text-align: center;"><u>Nursing & Related Fields</u></p> <p>Anatomy & Physiology (RS) Chemistry Algebra 1 & 2 World Language Sociology Psychology Nutrition Fuel & Fitness Physics</p>

Potential Career Technical Programs (see page 64):

Biomedical Science (D) Cosmetology (D) Criminal Justice (R) Naval Junior Reserve Office Training CORPS (NJROTC) (D)
Fire Science/EMT (D) Health Science (D/R) Medical Assisting (S) Teacher of Multiple Levels (.R) Culinary Arts (D/S) Sports Medicine (D)

Industrial & Engineering Technology

This pathway is designed to meet the needs of students considering careers that utilize skills in the area of Industrial and Engineering Technology. Listed below are potential career opportunities, aligned with the level of training required. In addition, possible college majors/career fields are listed, followed by ORHS courses that can provide additional skills and exposure. Please note that this is a suggested list and is not exhaustive - students should meet with their School Counselor to create a detailed four-year plan.

<p style="text-align: center;"><u>Engineering</u></p> <p>Algebra I & II Geometry Trigonometry Calculus (RS) Chemistry Physics Computers Electrical Technology Computer Integrated Mathematics Construction Technology Exploring Engineering</p>	<p style="text-align: center;">Possible Career Opportunities</p> <p style="text-align: center;"><u>Entry Level</u></p> <p style="text-align: center;">Carpenter Equipment Assembly Telephone/Cable Repair Cabinet Maker Welder Truck Driver Painter Roofer</p>	<p style="text-align: center;"><u>Computer Science</u></p> <p>Intro to Programming Advanced Programming (RS) Digital Video Production (RS) Algebra I & II Geometry Trigonometry Precalculus (RS) Calculus (RS) Physics Exploring Engineering Robotics</p>
<p style="text-align: center;"><u>Civil Technology</u></p> <p>Physics Environmental Science Algebra I & II World Language Computers Basic Wood Advanced Wood Construction Technology Geometry Trigonometry Computer Integrated Mathematics Exploring Engineering</p>	<p style="text-align: center;"><u>Technical Level</u></p> <p style="text-align: center;">Electrician HVAC Mechanic Plumber/Pipefitter Surveying/Mapping Tech Drafter Engineering Tech Water Treatment Plant Public Works Automotive Mechanic</p>	<p style="text-align: center;"><u>Machinist</u></p> <p>Algebra I & II Geometry Electrical Technology Construction Technology Trigonometry Accounting</p>
<p style="text-align: center;"><u>Automotive Technology</u></p> <p>Algebra I & II Geometry Electrical Technology Accounting Intro to Business Personal Finance</p>	<p style="text-align: center;"><u>Professional Level</u></p> <p style="text-align: center;">Machinery Design Engineer Production Manger Aircraft Pilot Programmer Numerical Controller Purchasing Agent Architect Construction Manager</p>	<p style="text-align: center;"><u>Graphic Arts</u></p> <p>Intro to Adobe Graphic Arts Computers Art Digital Video Production (RS) Journalism Marketing Algebra I & II Geometry Computer Integrated Mathematics</p>

Potential Career Technical Programs (see page 64):

Computer Systems Networking (D)	Automotive Collision (D)	Automotive Technology (D/S/R)
Computer Programming (D)	Electrical Technology (D)	Engineering (D/S/R)
Building Construction (D/S)	Precision Machining (R)	Welding (D)
		HVAC Technology (R)
		Adv. Millwork & Manufacturing (R)

Natural Resources

This pathway is designed to meet the needs of students considering careers that utilize skills in the area of Natural Resources. Listed below are potential career opportunities, aligned with the level of training required. In addition, possible college majors/career fields are listed, followed by ORHS courses that can provide additional skills and exposure. Please note that this is a suggested list and is not exhaustive. Students should meet with their School Counselor to create a detailed four-year plan.

Forestry

NextGen: Earth
 NextGen: Biology
 Environmental Science
 Intro to Adobe
 Basic Wood
 Advanced Wood
 Algebra I & II
 Geometry

Possible Career Opportunities

Entry Level

Animal Caretaker/Groomer
 Forestry Tech
 Commercial Fisherman
 Landscape/Nursery Employee
 Logger
 Floral Assistant
 Farm Hand
 Landfill/Recycling Employee

Horticulture/Landscaping

NextGen: Earth
 NextGen: Biology
 Environmental Science
 Intro to Adobe
 Art
 Basic Wood
 Advanced Wood
 Computer Integrated Mathematics

Environmental Science

Environmental Science
 Literature & the Land
 Trigonometry
 Topics in World Cultures
 Psychology
 Sociology

Technical Level

Animal Health Technician
 Firefighter
 Fish Hatchery Manager
 Florist
 Landscaper
 Arborist

Veterinary Science

Anatomy & Physiology (RS)
 Chemistry
 AP Chemistry
 AP Biology
 Physics
 Computer courses
 Precalculus (RS)
 Calculus

Marine Biology

Marine Biology
 NextGen: Earth
 NextGen: Biology
 Environmental Science
 Global Diplomacy and the United Nations
 PreCalculus (RS)
 Calculus (RS)

Professional Level

Landscape Architect
 Water Resources Manager
 Animal Science Research
 Marine Biologist
 Forester
 Geologist
 Ornithologist
 Microbiologist

Potential Career Technical Programs (see page 64):

Animal & Vet. Science (D)	Biomedical Science (D)	Naval Junior Reserve Office Training CORPS (NJROTC) (D)
Health Science (D/R)	Fire Science/EMT (D)	Environmental Science & Sustainable Studies (R)

Courses Offered at a Glance

Explanation of Codes:

AP Advanced Placement

SNHU Southern New Hampshire Credit Available

RS Running Start Credit May Be Available

*Courses with an asterisk require instructor's permission

Art (Visual)

Course		Grades				Credits
Advanced Ceramics	588		10	11	12	.5
Advanced Studio Art *	684			11	12	.5
Ceramics I	587	9	10	11	12	.5
Digital Photography	682	9	10	11	12	.5
Drawing & Painting I	603	9	10	11	12	.5
Drawing & Painting II	604		10	11	12	.5
Introduction to Art	601	9	10	11	12	.5
Introduction to Digital Art & Design	664	9	10	11	12	.5
Introduction to Sculpture	602	9	10	11	12	.5

Art (Theater and Video)

Course		Grades				Credits
Acting I	667	9	10	11	12	.5
Acting II	669	9	10	11	12	.5
Digital Video Production RS	615			11	12	.5
ORTV 1	115			11	12	.5
ORTV 2	116			11	12	.5

Business Department

Course		Grades				Credits
AP Economics	711			11	12	1.0
Economics	714			11	12	.5
Introduction to Business RS	710		10	11	12	.5
Macroeconomics RS	731			11	12	.5
Marketing	722			11	12	.5
Microeconomics RS	730			11	12	.5
Personal Finance	633		10	11	12	.5

Computer Science Department

Course		Grades				Credits
Advanced Programming with Java RS	702			11	12	.5
Introduction to Adobe RS	705		10	11	12	.5
Introduction to Computer Science	699	9	10	11	12	.5
Introduction to Programming with Python RS	703		10	11	12	.5

English Department

Course		Grades				Credits
Essentials of English	100	9				1
Sophomore English—Magic, Monsters and Mythic Figures	112		10			1
Sophomore English—Voices and Vision in Literature	117		10			1
Communications Emphasis						
College Composition RS	149			11	12	.5
Critical Analysis of Storytelling	154			11	12	.5
Debate and Persuasion	105			11	12	.5
Digital Video Production RS	615			11	12	.5
Journalism I	109		10	11	12	.5
Journalism II*	111			11	12	1.0
Linguistics	108			11	12	.5
ORTV 1	115			11	12	.5
ORTV 2	116			11	12	.5
Shakespeare	144			11	12	.5
Writing for the Modern World	152			11	12	.5
Literature Emphasis						
Advanced Seminar in Literature *	139				12	.5
Literature and the Land	123			11	12	.5
Mythology	125		10	11	12	.5
Nonfiction	127			11	12	.5
Science Fiction	126			11	12	.5
Shakespeare	144			11	12	.5
Themes in American Literature	103			11	12	.5

English Department (continued)

Women's Literature	131			11	12	.5
World Literature	128			11	12	.5
Writing Emphasis						
Advanced Writing *	113				12	.5
College Composition RS	106			11	12	.5
Debate and Persuasion	105			11	12	.5
Expository Writing	101		10	11	12	.5
Fiction Writing	151		10	11	12	.5
Journalism I	109		10	11	12	.5
Journalism II*	111			11	12	1.0
Linguistics	108			11	12	.5
Poetry Workshop	150		10	11	12	.5

Exercise Physiology & Wellness Department

Course		Grades				Credits
Exercise Physiology & Wellness 1	590	9				.5
Exercise Physiology & Wellness 2	591	9				.5
Health	558	9	10	11	12	.5
Adulting	582	9	10	11	12	.5
Adventure Education 1	595		10	11	12	.5
Bake Shop	630	9	10	11	12	.5
Child Development I RS	643			11	12	.5
Child Development II RS	644			11	12	.5
Fuel and Fitness	581	9	10	11	12	.5
Introduction to Culinary Arts	629	9	10	11	12	.5
Nutrition	580	9	10	11	12	.5
Team/Individual Sports	592		10	11	12	.5
Unified Partner	597			11	12	.5
Weight Training and Fitness	594		10	11	12	.5
Yoga and Mindfulness	598		10	11	12	.5

Mathematics Department

Course		Grades				Credits
General Mathematics	301	9	10	11	12	1
Applications of Mathematics	303	9	10	11	12	1
Introduction to Algebra/Geometry	305	9	10	11	12	1
Algebra I—Segment A	321	9	10	11	12	.5
Algebra I—Segment B	322	9	10	11	12	.5
Geometry	312	9	10	11	12	1
Accelerated Geometry	314	9	10	11	12	1
Algebra II	316		10	11	12	1
Algebra II with Trigonometry	318		10	11	12	1
Quantitative Reasoning RS	327		10	11	12	1
Topics in Geometry—Semester 1	307		10	11	12	.5
Topics in Geometry—Semester 2	308		10	11	12	.5
AP® Calculus AB	324			11	12	1
AP® Calculus BC—Semester 2	325			11	12	.5
AP® Precalculus	331			11	12	1
AP® Statistics	326			11	12	1
Calculus RS	330			11	12	1
Computer Integrated Mathematics 1	313			11	12	.5
Computer Integrated Mathematics 2	315			11	12	.5
Finite Mathematics	320			11	12	.5
Precalculus RS	323			11	12	1
Trigonometry	319			11	12	.5
Trigonometry/Finite	328			11	12	.5

Music Department

Course		Grades				Credits
Band —Semester 1	671	9	10	11	12	.5
Band —Semester 2	672	9	10	11	12	.5
Beginning Piano/Keyboarding	627	9	10	11	12	.5
Chorus—Semester 1	680	9	10	11	12	.5
Chorus—Semester 2	681	9	10	11	12	.5
Guitar Ensemble	654	9	10	11	12	.5
Modern Band	663	9	10	11	12	.5
Music Production	656	9	10	11	12	.5
Music Theory	621	9	10	11	12	.5
Piano/Keyboarding II	589	9	10	11	12	.5
Songwriting	660	9	10	11	12	.5
Strings Orchestra—Semester 1	616	9	10	11	12	.5
Strings Orchestra—Semester 2	619	9	10	11	12	.5
World Drumming	647	9	10	11	12	.5

Science Department

Course		Grades				Credits
NextGen Biology	425	9	10			1
NextGen Earth	426		10	11		1
Chemistry	410		10	11	12	1
AP® Biology	417			11	12	1
AP® Chemistry	429			11	12	1
AP® Physics	421			11	12	1
AP® Physics 2	427				12	1
Astronomy	420			11	12	.5
Environmental Science	413			11	12	1
Exploring Engineering	418			11	12	.5
Human Anatomy & Physiology SNHU	411			11	12	1
Introduction to Forensic Science	419			11	12	.5
Marine Biology	423			11	12	.5
Physics	416			11	12	1
Life Science	435	9	10	11	12	1
Physical Science	436	9	10	11	12	1

Social Studies Department

Course		Grades				Credits
World Cultures	200	9				1
United States History	199		10			1
Citizenship Education	201			11	12	.5
Advanced World Cultures	225			11	12	.5
African American History	210			11	12	.5
AP® United States History	228			11	12	1
Cold War & The 60's	209			11	12	.5
Criminal Law and Justice in America	230			11	12	.5
Genocide in the Modern World	231			11	12	.5
Global Diplomacy and the United Nations	217	9	10	11	12	.5
Psychology	213			11	12	.5
Sociology	215			11	12	.5
Sports and 20 th Century Society	206	9	10	11	12	.5
Topics in World History Through Film	216			11	12	.5
Women in American History	233			11	12	.5
World Religions	232			11	12	.5

Technology Department

Course		Grades				Credits
Advanced Building Construction Tech.	658		10	11	12	.5
Advanced Woodworking	653		10	11	12	.5
Basic Building Construction Technology	657	9	10	11	12	.5
Basic Woodworking	651	9	10	11	12	.5
Exploring Electricity	661	9	10	11	12	.5
Mechanical Technology	659		10	11	12	.5

World Language Department

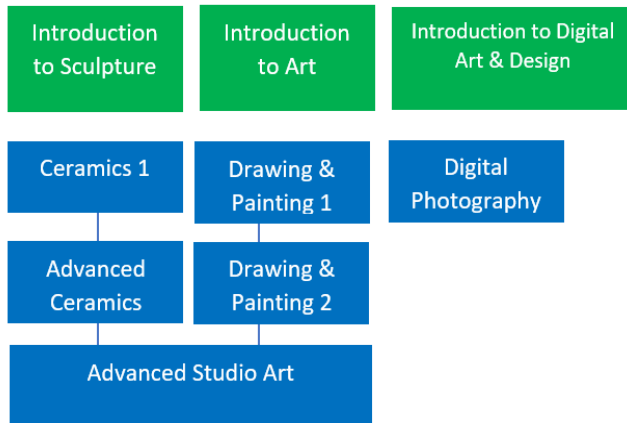
Course		Grades				Credits
French I	501	9	10	11	12	1
French II	502	9	10	11	12	1
French III	503	9	10	11	12	1
French IV	504			11	12	1
French V	505				12	1
Advanced Topics in French	507				12	1
AP® French Language	506				12	1
Mandarin Chinese 1	551	9	10	11	12	1
Mandarin Chinese 2	552	9	10	11	12	1
Mandarin Chinese 3	553	9	10	11	12	1
Mandarin Chinese 4	554		10	11	12	1
Mandarin Chinese 5	558		10	11	12	
Spanish I	531	9	10	11	12	1
Spanish II	532	9	10	11	12	1
Spanish III	533	9	10	11	12	1
Spanish IV	534			11	12	1
Spanish V	535				12	1
AP® Spanish Language	536				12	1

Career and Technical Education (CTE)

Center		Grades			Credits	
Dover High School Regional Career Technical Center			10	11	12	1-3
Somersworth High School Career Technical Center			10	11	12	1-3
Spaulding High School Regional Career Technology Center			10	11	12	1-3



ART DEPARTMENT



Successful completion of any green-level introductory art courses is required to begin exploring our first tier of blue-level courses.

The ORHS Art Department offers a variety of two & three-dimensional courses, starting with Introduction to Art, Introduction to Sculpture, & Introduction to Digital Art & Design. After successfully completing one of these prerequisites, students may begin exploring Ceramics 1, Drawing & Painting 1, or Digital Photography, and may then proceed to more advanced course offerings. The ORHS Art Department is committed to fostering a safe and supportive culture necessary for creative risk taking and artistic expression.

**Students are required to complete the following:
Fine Arts - .5 credit**

664 Introduction to Digital Art & Design .5 Credit
Grades 9-12

This new course offering provides an introductory exploration of Digital Art & Design. Students will learn about the important role digital media plays in today's society and how to be involved with that creative, virtual world. Programs from the Adobe Creative Suite (Illustrator, Photoshop, InDesign & Animate) will be used to develop unique and compelling digital drawings, paintings, photographs, short animations, logos, product designs, and graphic designs used in branding. There will be consideration of social media and print media for marketing. **This course fulfills the Fine Arts requirement.**

601 Introduction to Art .5 Credit
Grades 9-12

This popular class offers students a sampling of the ORHS art experience. Students will experience basic design, drawing and painting, pottery, and sculpture with emphasis on the elements of art and principles of design. Students will be actively engaged in the creative process, planning, creating, and critiquing art. Creativity, personal expression, and risk-taking will be fostered and encouraged. This course is designed to appeal to all students, as well as students with a passion for art. **This course fulfills the Fine Arts requirement.**

602 Introduction to Sculpture .5 Credit
Grades 9-12

This course is the ultimate hands-on art experience. Students will use a variety of materials and techniques to create three-dimensional art works, both relief and freestanding. Challenging projects are designed to reinforce the essential elements of art and principles of design, while allowing for creative and personal interpretation of the various subject matter and techniques. Sculpture materials may include wood, clay, glass, metal, cardboard, plaster, and found or recycled materials. An emphasis will be placed on experimentation, work ethic, and individual progress throughout the semester. **This course fulfills the Fine Arts requirement.**

587 Ceramics I

.5 Credit

Grades 9-12

Prerequisite: Introduction to Art, Introduction to Sculpture or Introduction to Digital Art & Design with a minimum grade of B.

This class introduces students to the ancient craft of working with clay. Students will experience hand-building techniques including pinch, coil, and slab. Wheel throwing is introduced with expectations for basic levels of achievement, including cylinder, bowl, and plate forms. As the semester progresses, experimentation with basic techniques will lead to more freedom and individual creativity. Informal group critiques and instructor demonstrations will reinforce student learning. Clay works created in this class, whether functional or sculptural, will be enjoyed for a lifetime!

682 Digital Photography

.5 Credit

Grades 9-12

Prerequisite: Introduction to Art, Introduction to Sculpture or Introduction to Digital Art & Design

Students will explore the unique art of digital photography, as well as digital imaging. They will also be introduced to more advanced digital cameras (DSLR), and become familiar with digital photography storage, enhancement, and editing using Adobe Photoshop. All assignments will emphasize creativity, photographic artistry, and personal expression. Owning a camera is not required and will be provided for students to share, but students are allowed and encouraged to use their own DSLR digital cameras.

Art- Theater and Video Department

667 Acting I

.5 Credit

Grades 9-12

This class is a combination of analysis of great performances, study of various acting techniques, and the interpretation/performance of a range of play scripts. Students will have practical experiences within and outside the classroom in the various realms of acting. The class will study the collaborative work of actors and directors and will also include topics such as: auditioning techniques, stage fright, sensory recall, improvisation, and stage directions.

This course fulfills the Fine Arts requirement.

669 Acting II

.5 Credit

Grades 9-12

Prerequisite: Acting I

Acting II is a course that builds upon the techniques and skills introduced in Acting I. The acting student will continue to explore the acting process. From voice, movement, warm-up, and characterization skills to analyzing a play and breaking down a role, students will read plays in class then apply what they are learning to selected scenes from the plays. Over time, dramatic skills and techniques are developed with exploration of increasingly more complex attitudes, values, and behaviors. This class will cover the theory and practice of fundamentals of American "method," based on principles of Stanislavski and their American evolution, as well as direct application of methodology through scene and monologue work. The approach will be based in the American "method" through such proponents as Adler, Strasberg, Hagen, Meisner.

Computer Science Education

The Computer Science Department offers a variety of courses to meet the needs of all students in order to successfully use technology tools at ORHS and beyond. Students should be proficient with cloud-based computing using word processing, spreadsheet and presentation software such as Office 365. If students are not proficient in ALL these areas, they should consider Introduction to Computer Science. All students who feel they have mastered ALL these skills should consider taking other intermediate courses such as programming or graphic design related courses such as Adobe Photoshop/Illustrator.

Students are required to complete the following: Computer Science – .5 credit

699 Introduction to Computer Science .5 Credit

Grades 9-12

Are you interested in the computer science field; do you want a better understanding of how computers work? This introductory course will cover fundamentals like using word processing and spreadsheets in a cloud-based environment to more advanced topics such as web development and 3D printing. Students will also learn the fundamentals of digital design using Photoshop, and hot topics such as privacy and security issues in the digital age. **This course fulfills the computer science requirement.**

English Department

The English Department offers diverse elective courses for students in grades 10 through 12. The basic academic skills of reading, listening, speaking, writing, viewing, and thinking are taught in all courses. To ensure a common foundation in writing skills, critical readings skills, communication skills, and literary analysis skills, all students are expected to pass a one-year course, Essentials of English, in grade 9. Students in grade 10 choose among the options for a required one-year course, and they may additionally take any of the available electives for grade 10. The English Department strongly suggests that students fulfill the ½ credit requirement in communication, literature, and writing before taking another course in the same emphasis area. Each student must meet this requirement, which builds off their work in the one-year 9th grade course and one-year 10th grade course.

100 Essentials of English

1 Credit



Grade 9

Essentials of English integrates reading, writing, listening, viewing, and speaking skills, giving them base skills for more advanced and specific courses. Students will use analytical tools to increase their understanding and appreciation of diverse literary genres and develop a process approach to writing to craft expository and formal essays. Many students will also participate in the national Poetry Out Loud recitation competition and experience a professional Shakespeare performance. This curriculum encourages students to explore a variety of perspectives in order to develop their own.

Exercise Physiology and Wellness

The Exercise Physiology and Wellness Department is committed to supporting a culture which nurtures the psychomotor, social-emotional, and cognitive abilities of our students through the areas of nutrition, physical activity, and fitness. This program provides a coordinated approach fostering the development of knowledge and skills needed to achieve and maintain personal health, lifetime fitness, and recreational enjoyment. Competencies are demonstrated through the active participation and physical practice of skills in diverse offerings provided within the Exercise Physiology and Wellness Department.

Students are required to complete the following:

Physical Education- 1 credit

Health- .5 credit

590 Exercise Physiology and Wellness 1 .5 Credit
Grade 9

591 Exercise Physiology and Wellness 2 .5 Credit
Grade 9

Freshman Physical Education is an integral part of a district wide comprehensive wellness initiative. The goal of this course is to create an experiential and supportive environment where students can develop skills necessary for lifelong activity and wellness. Students will leave this class with an understanding of basic skills and concepts in a wide variety of physical activities and sports. Units include but are not limited to team and individual sports, fitness and weight training, adventure education, winter activities, racket and paddle sports, cooperative games/challenges, Dance and CPR/First Aid training.

558 Health .5 Credit
Grades 9-12

The Health/Wellness class looks at the overall wellbeing of the student and the physical, emotional and social changes that they experience during normal patterns of growth. The class gives information to the students for them to make informed decisions and positive choices to achieve and maintain good health through skills that practice and develop health literacy (Communication, advocating, reasoning and investigating). The class is structured around best practices, current issues and student's inquiries. The course includes, but not limited to, topics in the following areas: Nutrition, Drugs and Alcohol, Mental Health, Human Sexuality, Skin Cancer, and Oral Health.

EPW Electives

582 Adulting .5 Credit
Grades 9-12

Explore, discuss, and practice life skills in preparation for transition into adult life. Class topics will include mindfulness, executive functioning, job/college interviewing, independent living, budgeting, self-care (safety, healthy eating, exercise), and relationships. Students will engage in a variety of readings, discussions, and practical experiences in the class and greater local community. As part of this class, students will work together to meet competencies through hands-on classwork and projects.

630 Bake Shop .5 Credit
Grades 9-12

There is much more to a bake shop than baking cookies! Learn the science behind what makes a cake rise, what makes a pie crust flaky and why meringue weeps all while enjoying making your favorite baked goods. Discover traditional baked goods from a variety of countries. Learn healthier ways to create some of your favorites. Labs will include artisan breads, cookies, pies, pastries, tarts, cakes, international baked goods and more. **Students enrolled in this class will be exposed to food products containing gluten, nuts, soy and other common food allergens.**

581 Fuel and Fitness

.5 Credit
Grades 9-12

Fuel and Fitness will provide you with an overview of the principles of nutrition and fitness needed for an active lifestyle. Learn how the general function of vitamins, minerals, fluids and other nutrients can support your wellness goals while engaging in hands on activities across multiple settings including the classroom, kitchen, and fitness room. This course is meant for any student looking to establish and support an active and healthy lifestyle.

629 Introduction to Culinary Arts

.5 Credit
Grades 9-12

Enjoy the fun of preparing a wide variety of foods using different cooking methods. Topics covered in this lab course include the fundamentals of food preparation, kitchen safety and sanitation. Instruction will also be provided in the areas of nutrition, equipment, knife skills,

basic meal planning, and vocabulary terms used in recipes. Labs include making a wide variety of foods such as pizza, soups, pasta and rice dishes. **Students enrolled in this class will be exposed to food products containing gluten, nuts, soy and other common food allergens.**

580 Nutrition

.5 Credit
Grades 9-12

Nutrition is an overview of the nutritional principles that are necessary for physical and mental wellness throughout a long, healthy life. Instructional topics will explore how nutrition impacts and supports wellness management, sports and fitness, and cognitive functioning. You will also investigate how society and culture impact the foods you consume. Upon completion, you will have gained the knowledge to intelligently evaluate nutritional information to make informed choices about what you put in your body.

Mathematics Department

Oyster River High School has a graduation requirement of three credits in mathematics and a fourth-year mathematics experience. The New Hampshire Department of Education requires that all students fulfill an algebra requirement as a part of their credits in mathematics. This can be fulfilled through our Introduction to Algebra and Geometry course or our Algebra 1 course. The mathematics department encourages all students to develop a four-year plan of study in cooperation with their mathematics teachers. Course prerequisites have been designed to ensure student success in each course, therefore, **course prerequisites must be met before any course may be taken.**

Students are required to complete the following:

Algebra- 1 credit

Math Courses- 2 credits, plus a 4th math experience/credit

301 General Mathematics

1 Credit
Grades 9-12

Prerequisite: Recommendation of the eighth-grade math teacher.

This course is a review of the fundamentals of arithmetic, involving whole numbers, fractions, decimals, and percentages. Students will work to achieve suitable competence levels in arithmetic skills. Regular nightly practice will be expected.

303 Applications of Mathematics

1 Credit
Grades 9-12


Prerequisite: Successful completion of General Mathematics or recommendation of math teacher.


Applications is a rigorous course that will help strengthen foundational mathematical skills which are necessary for success in future courses. There will be an emphasis on number fluency, solving equations, and graphing lines. There will be constant review of arithmetic skills, applications of those skills, and problem-solving methods. Regular nightly practice will be expected.

305 Introduction to Algebra/Geometry 1 Credit
Grades 9-12

Prerequisite: Recommendation of the eighth-grade math teacher or a grade of C- or better in previous high school mathematics course.

The objectives of this course are to strengthen the student's computational and problem-solving skills needed for Algebra I and Geometry. This course provides an extra year of mathematics to prepare the student for the rigor and abstract problem-solving of Algebra I. Regular nightly practice will be expected. This course fulfills the algebra component requirement for graduation.

321 Algebra I – Segment A .5 Credit
 Grades 9-12

322 Algebra I – Segment B .5 Credit
 Grades 9-12


Prerequisite: Recommendation of the eighth-grade math teacher or a grade of C- or better in Introduction to Algebra and Geometry.

This college preparatory course explores properties of real numbers, linear, quadratic, and exponential functions, graphing equations and inequalities, systems of equations, radicals, factoring polynomials, and mathematical modeling. This is a rigorous course, and requires a strong foundation in arithmetic skills, especially fractions, percentages, and problem-solving. Regular nightly practice will be expected.

312 Geometry 1 Credit
 Grades 9-12

Prerequisite: Recommendation of the eighth-grade math teacher or a grade of C- or better in Algebra IB.

This is a college preparatory course which develops the process of deductive reasoning. The postulates and theorems of Euclidean Geometry are studied. A strong background in Algebra 1 is essential for success. Regular nightly practice will be expected.

314 Accelerated Geometry 1 Credit
 Grades 9-12

Prerequisite: Recommendation of the eighth-grade math teacher or a grade of A- or better in Algebra I.

In this college preparatory course, the concepts of Euclidean Geometry and methods of logical reasoning are studied in-depth at a demanding pace. A strong background in Algebra is essential. This course is recommended for the student who wishes to continue in a rigorous mathematics sequence, leading to Precalculus and Calculus courses in the high school. Regular nightly practice will be expected.

Music Department

The curriculum of the Oyster River High School Music Department is built on the philosophy of providing a comprehensive program for the involvement of persons of all ages in learning music. It is designed to advance the teaching of music of all periods, styles, forms, and cultures. The curriculum offered provides the opportunity for every student at ORHS, no matter what his/her musical background, to select an offering at his/her particular level of musical knowledge. Incoming 9th graders who want to continue with music in their ninth-grade year may postpone the EPW requirement until tenth grade.

671 Band: Semester 1	.5 Credit Grades 9-12

672 Band: Semester 2	.5 Credit Grades 9-12

Band is a performing ensemble comprised of wind instruments (woodwinds and brass) and percussion. The goal of Band is to provide each student with the opportunity to actively participate in the creation of art via the medium of music. The vehicle for creating musical art is the ensemble itself. Therefore, central to attaining the Band's artistic goal is the achievement of ensemble performance excellence through each student's growth in the areas of knowledge, understanding and skills. Growth in these areas is fostered through instruction of musical skills, rehearsal, and performance of wind band music in a variety of styles. This music is presented throughout the year. Experiences include evening concerts, field trips, school assemblies and performances at community events. Attendance at all performances is a mandatory course requirement. **Students are strongly recommended to take both semesters of the course in order to get the best experience and educational continuity.**

This course fulfills the Fine Arts Requirement.



680 Chorus: Semester 1	.5 Credit Grades 9-12

681 Chorus: Semester 2	.5 Credit Grades 9-12

Chorus is a performing group elective open to any student interested in singing or learning to sing. If you love to sing, then this course is for you. Emphasis is placed on the development of proper vocal technique, music literacy, beginning sight singing techniques, and critical music listening skills. The choir will sing music in a wide variety of styles. Beginning singers with no prior experience as well as experienced singers can both really develop and benefit from this course. Chorus members' attendance at performances (both in and out of the school day) is a course requirement. Members may also be asked to attend occasional extra rehearsals outside the school day as needed to meet the Choir's performance objectives. This course can be repeated for credit every year as the repertoire is different each year. **Students are strongly recommended to take both semesters of the course in order to get the best experience and educational continuity.**

This course fulfills the Fine Arts Requirement.



627 Beginning Piano/ Keyboarding .5 Credit
Grades 9-12

Entry level music elective. Learn how to play the piano. No musical experience required. Students will learn to read music in the treble and bass clefs as well as how to read rhythmic notation. Also covered will be basic diatonic chord progressions used in popular music, several major and minor keys, transposition, song forms, folk music and scales. Students practice with headphones at an individual workstation and learn at their own pace. Students will perform in weekly classroom recitals and will conclude their semester with a longer repertoire piece performed at a final recital. **This course fulfills the Fine Arts Requirement**

654 Guitar Ensemble .5 Credit
Grades 9-12

The ORHS Guitar Ensemble teaches beginning guitarists within the context of a small modern ensemble (rock band, funk band, blues band, pop band, etc.) All students will need their own acoustic guitar for this class and will also have an opportunity to play electric guitar. In our performances some students will choose to sing, play bass, drums, woodwinds, brass, strings, keyboards (or other instruments) along with guitars to recreate the original instrumentation of songs that we choose together. Students will develop proficiency with open diatonic chords in several keys. They will begin using major, minor, dominant 7th, 9th and 13th barre chords. Students will also be introduced to finger picking, hybrid picking, diatonic theory, tab notation, and standard music notation. The class will perform on two evenings (mandatory) at the end of the semester. Guitar Ensemble may be repeated throughout a student's years at ORHS. **This course fulfills the Fine Arts Requirement.**

663 Modern Band .5 Credit
Grades 9-12

This course will focus on student lead collaboration in an ensemble setting and explore various styles of music. The modern band will prepare popular music styles including rock, country, folk, hip-hop, etc. Students that sign up for this course should have a minimum of one semester's experience playing guitar, bass, piano or singing. The ensemble will perform at the end of the semester, showcasing their hard work and skills developed during rehearsals. The course may be taken more than once. **This course fulfills the Fine Arts Requirement.**

656 Music Production .5 Credit
Grades 9-12

Designed for anyone interested in producing music in any style. This course provides an overview of tools available for music production. Through hands-on exercises and projects, you'll experience the process of producing music using a computer and recording equipment to capture music, from developing the original idea through creating a final mix. You'll learn how to set up audio interfaces, microphones, and electronic instruments to effectively create and produce your musical ideas. The ability to play an instrument at the beginner level is necessary to succeed. **This course fulfills the Fine Arts Requirement.**

621 Music Theory .5 Credit
Grades 9-12

This class focuses on the components of music and their application through music history. The program is geared towards students with an interest in writing, improvisation and developing the skills necessary to hear music and be able to quickly recreate and perform it. No musical background is required to take the course. Covered topics include notation (tonal and rhythmic), scales, key signatures, diatonic chords, modes, basic secondary dominant chords, song form and ear training. Harmonic and tonal analysis combined with ear training exercises will build the ability to compose and also recognize and recreate melodic and harmonic structures. **This course fulfills the Fine Arts Requirement.**

589 Piano/Keyboarding II

.5 Credit
Grades 9-12

Prerequisite: Beginning Piano/Keyboarding, or prior experience

Continue your study of piano and learn more technique and songs. Students will learn to read in further keys and learn more advanced rhythms (syncopation). Also covered will be diatonic triad progressions and inversions used in popular music, extended major and minor keys, augmented and diminished triads, cadences, song forms, folk music and scales. Students practice with headphones at an individual work station and learn at their own pace. Students perform in weekly classroom recitals and will conclude their semester with a longer repertoire piece performed at a final recital. **This course fulfills the Fine Arts Requirement.**

660 Songwriting

.5 Credit
Grades 9-12

Students will learn how to write melody, harmony, arrange and write lyrics in order to build a portfolio of original songs. In this class you'll focus on melody writing, chord progressions and harmonic techniques, beats, grooves and lyric structure as you develop your individual musical identity. You will also learn modern writing practices like collaboration and production, where you'll make recordings of your songs using professional mixing and recording computer software. Students will have performance opportunities to present songs at public concerts, coffee houses and similar events. The ability to play an instrument at the beginner level is necessary to succeed. **This course fulfills the Fine Arts Requirement.**



616 String Orchestra: Semester 1

.5 Credit
Grades 9-12

619 String Orchestra: Semester 2

.5 Credit
Grades 9-12

String Orchestra can be chosen by any student who is taking private violin, viola, cello, or double bass lessons or any student who has taken an orchestra class at ORMS or ORHS. In string orchestra, we will explore a variety of classical, Celtic/fiddle, and popular music and play it in a large string ensemble. Students will also have the opportunity to help choose music for this ensemble and will be valued as contributing members to those decisions. Students will play in various concerts throughout the year and will have the opportunity to collaborate with wind and percussion players during studio orchestra time as well. **This course fulfills the Fine Arts Requirement.**


647 World Drumming

.5 Credit
Grades 9-12

An entry level elective which requires no prior musical background. The World Drumming course gives an overview of the music, drumming, rhythmic styles, history, customs, and geography of cultures such as West Africa, Cuba and Brazil. Students will perform on different world percussion instruments while accruing technique and aesthetic awareness. The class is geared to emphasize and develop self-awareness and self-confidence through ensemble and individual experience. Students will develop awareness of the value of collaboration, sharing, communication, and taking on their own responsibilities. This interactive program educates students about themselves and the larger world. Through performance the class emphasizes how music can serve as a universal form of communication and act as a catalyst for improving self-awareness and confidence. Students will also have the opportunity to compose and then perform original rhythms in the world music style with the class. **This course fulfills the Fine Arts Requirement.**

Science Department

NextGen Science courses are designed for freshmen and sophomore students at ORHS and use phenomenon-based curricula to make science content relevant and engaging for students. In 9th grade, students are required to take NextGen: Biology. During 10th grade, students are recommended to take NextGen: Earth. Together, these two NextGen courses will provide core, foundational concepts and skills that will prepare students for success in other science electives. Both of these courses are designed to introduce students to fundamental science content and skills that will help them interpret the world around them. In these courses, a variety of phenomena are used as engaging instructional elements that drive student development of essential skills such as experimental design, data analysis, presentation in various media, and group collaboration.

425 NextGen: Biology	1 Credit
	Grades 9-10

In this NextGen Science course, students will explore different facets of living organisms, from the roles played by microscopic molecules such as glucose and DNA all the way to the interactions between members of an ecosystem. At all levels, the structure and function of key cellular function, organs and their systems, heredity and evolution will all be investigated to varying degrees.

Social Studies Department

The main goals of the Social Studies curriculum include preparing students for their civic responsibilities, learning to make good decisions, analyzing past and current events, and learning to appreciate the variety of people in the world.

Students are required to complete the following:

World Cultures- 1 credit

US History- 1 credit

Citizen Education- .5 credit

SOCIAL STUDIES ELECTIVE COURSES

Students are urged to take electives beyond the required courses and are encouraged to talk to teachers in the department or to their school counselor, if they have questions about a course or would like help in selecting a sequence of Social Studies courses. Courses are listed in the order in which most students will choose to take them. It is essential that course descriptions be read carefully to understand the level of difficulty, course requirements (reading, writing, and research), as well as content.

200 World Cultures	1 Credit
	Grade 9

World Cultures is a yearlong ethnographic survey of the world. Each class will study a variety of cultural topics designed to develop an appreciation for human diversity. While units are created to investigate specific cultural issues, they will also touch on the following regions: Europe, Asia, the Middle East, Latin America, and Africa. World Cultures also serves as an introduction to the different disciplines of Social Studies like Geography, Anthropology, Economics, Sociology, and History. The skills this introductory course will focus on are communication, reading, writing and research.

Social Studies Electives

217 Global Diplomacy and
the United Nations

.5 Credit
Grades 9-12



The purpose of the course is to increase your knowledge of international issues, policy making and the activities of the United Nations. You will gain valuable skills in public speaking, research and writing, negotiation and powers of persuasion, leadership, and organization. Students will gain these skills through United Nations simulations and other course assignments.

206 Sports and 20th Century Society

.5 Credit
Grades 9-12

This class will look to explore topics such as the Chicago Black Sox Scandal in 1919, the 1936 Olympics in Nazi Germany to the doping scandals of the last 15 years, and how professional and amateur sports have shaped the culture in which we live today. Using readings, videos, and class discussions, students will develop their thinking skills to gain in-depth understanding of concepts, issues, and attitudes within sports and society. Students will also be asked to develop their own personal beliefs regarding the impact that sports have had on society within the political, social and economic spectrum. The class will be discussion based, and students will work in a variety of social work groups, while learning to communicate information through writing, speaking and the use of technology.

Technology Education

The Technology Education Department provides problem-solving instruction and activities of experimenting, designing, constructing, and evaluating through the use of tools, machines, materials, and processes. The applied knowledge and skills acquired through our courses will assist the student in making informed and meaningful school-to-career choices.

657 Basic Building
Construction Technology

.5 Credit
Grades 9-12

This course discusses and studies stick-frame construction. It includes group construction of to-scale model frame homes, electrical wiring techniques, and plumbing techniques.

661 Exploring Electricity

.5 Credit
Grades 9-12

This course introduces students to the basics of electricity. Course topics include the exploration of resistors, conductors, electric motors, electric theories, and basic electrical wiring. Electrical technology will be explored in simulated and real-life situations.

651 Basic Woodworking

.5 Credit
Grades 9-12

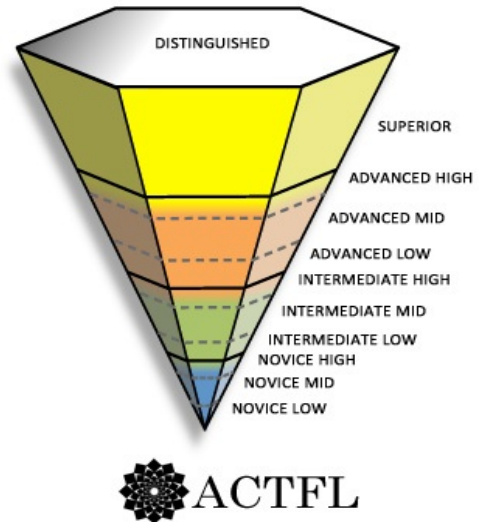
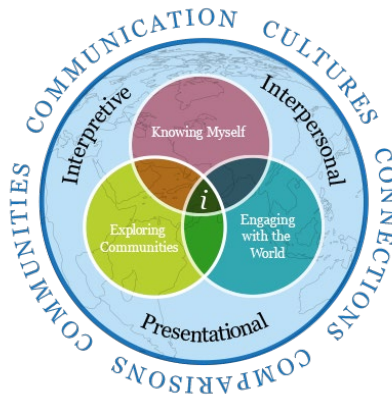
Basic Woodworking is an introductory woodworking class where students will learn the fundamentals of woodworking through the process of project construction. Emphasis is placed on project planning through design, sketches, and construction steps, the proper and safe use of tools, and quality craftsmanship. Students may be responsible for some material costs, dependent upon project choice.



World Language Department

The World Language Department recommends a minimum of two years of any language at the high school level in addition to those completed at the Middle School for students who are planning to attend a four-year college. Students are encouraged to complete a four-year sequence in order to achieve maximum fluency, comprehension, and appreciation of the language as well as the culture. ORHS World Language classes stress a proficiency approach which include:

- **Interpersonal Communication**- exchange of information either written or spoken
- **Presentational Communication**- delivery of information either written or spoken
- **Interpretive** reading, viewing, and listening



501 French 1 1 Credit
Grades 9-12

Open to all grades with no previous French experience. Learn to communicate with others about yourself, your family, your pastimes, your life as a student and your likes and dislikes. Discover how French can bring you closer to others by comparing your own culture to another. Improve your communication skills by viewing videos, reading authentic documents, listening to native speakers and conversing with your peers. The proficiency target at the end of French 1 is NOVICE-HIGH on the ACTFL proficiency scale.

502 French 2 1 Credit
Grades 9-12

Prerequisite: French 1 (Teacher recommendation required)
 Learn to extend your communicative skills as you head into the Intermediate zone of proficiency where you will learn to expand your sentences, create original thoughts in French. Make cultural comparisons between the United States and different Francophone countries around the world through authentic media, cultural texts, short stories, and personal conversations and writings. By the end of French 2 your target is to reach the INTERMEDIATE LOW on the ACTFL proficiency scale.

503 French 3 1 Credit
Grades 9-12

Prerequisite: French 2 (Teacher recommendation required)
 You are at an important crossroads of your language development where you begin to put all you have learned together as an Intermediate level speaker. Speak and write with greater precision in the present time frame and learn to express what was. Boost your knowledge of vocabulary through reading short stories, authentic current texts, excerpts from French literature, by viewing authentic media and through personal writings. By the end of French 3 your target is to reach the INTERMEDIATE LOW/MID level on the ACTFL proficiency scale.

551 Mandarin Chinese 1**1 Credit****Grades 9-12**

Open to all grades with no previous Chinese experience. Speak to your friends in a new language – tell them about yourself and your family – about your likes and dislikes. Take a chance and learn about other cultures. Improve your communication skills by watching videos, reading authentic articles, listening to native speakers, and conversing with your peers.

531 Spanish 1**1 Credit****Grades 9-12**

Open to all grades with no previous Spanish experience or by teacher recommendation. Learn to communicate with others about yourself and other topics of interest. Build your Spanish language vocabulary and learn how Spanish can bring you closer to others by discovering other cultures and beliefs. Improve your communication skills by viewing videos, reading stories and authentic articles, listening to native speakers and conversing with your peers. By the end of Spanish 1, your target is to reach the NOVICE HIGH level on the ACTFL proficiency scale.

552 Mandarin Chinese 2**1 Credit****Grades 9-12**

Prerequisite: Chinese 1 (Teacher recommendation required)

Learn more about daily life : including eating out, going shopping, sports, hobbies and travel. You will learn to give directions, give suggestions, make requests, comparisons with more authentic Chinese language. Experience Chinese culture, art and calligraphy. Improve your language skills through reading, writing, personal conversations, and a variety of Chinese media.

532 Spanish 2**1 Credit****Grades 9-12**

Prerequisite: Spanish 1 (Teacher recommendation required)

Make cultural comparisons between the United States and Spanish speaking countries. Improve your language skills through readings, writing, personal conversations, videos and songs. Continue to build upon the skills acquired in level 1 and expand your vocabulary and communication in the present and past tenses through theme-based units. By the end of Spanish 2 your target is to reach the INTERMEDIATE LOW level on the ACTFL proficiency scale.

553 Mandarin Chinese 3**1 Credit****Grades 9-12**

Prerequisite: Chinese 2 (Teacher recommendation required)

In Chinese 3, you will develop more advanced Mandarin Chinese communicative skills of listening, speaking, reading and writing. Through authentic cultural materials, you will build your knowledge in vocabulary, sentence patterns, and grammar while also exploring Chinese literature, folklore, culture, and daily life. The target for the end of Chinese 3 is the NOVICE HIGH-INTERMEDIATE LOW levels on the ACTFL proficiency scale.

533 Spanish 3**1 Credit****Grades 9-12**

Prerequisite: Spanish 2 (Teacher recommendation required)

Continue to develop your linguistic confidence in this intermediate course. Deepen your Spanish vocabulary across a variety of themes relating to the world around us and discuss topics in various time frames. By the end of this course, you will feel more confident in your ability to express your needs, offer suggestions or opinions, and tell stories in Spanish. Take a deeper look at Spanish speaking cultures by viewing authentic videos, reading short stories, and listening to popular music. By the end of Spanish 3 your target is to reach the INTERMEDIATE LOW/MID range on the ACTFL proficiency scale.

Additional Offerings

Connections

.5 or 1 Credit
Grades 9-12

Placement by the MTSS Team

This course is created to develop self-management skills including time management, goal setting, and self-motivation. In a collaborative atmosphere, we work on fostering a growth mindset and a belief in the power of effort. There is an emphasis on understanding and managing emotions and developing self-confidence by learning how to advocate for themselves and seek out academic support when needed.

435 Life Science

1 Credit
Grades 9-12

Prerequisite: Placement by the Academic Team only

This course is part of a two-year program that meets Oyster River's graduation requirements in science. It uses a hands-on, competency-based approach to exploring life science concepts and applications, and emphasizes the development of scientific inquiry, experimentation, analysis, and presentation skills throughout the two-year program.

436 Physical Science

1 Credit
Grades 9-12

Prerequisite: Placement by the Academic Team only

This course is part of a two-year program that meets Oyster River's graduation requirements in science. It uses a hands-on, competency-based approach to exploring physical science concepts and applications, and emphasizes the development of scientific inquiry, experimentation, analysis, and presentation skills throughout the two-year program.

Learning Lab- Fall

Learning Lab- Spring

.5 or 1 Credit

Grades 9-12

Placement by the MTSS Team

Learning Lab affords students the opportunity to get to know themselves as learners while receiving academic and executive functioning support. Developing goals, identifying strengths and weaknesses, engaging in honest self-reflection will be emphasized, as well as skill building, progress monitoring, and tutoring.

Study Skills

.5 or 1 Credit
Grades 9-12

Placement by the IEP Team only

The goal of study skills is to help students develop into more independent learners and prepare them for the next steps in their education. Instruction for each student is individualized based on the needs and goals outlined in their IEP.

