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## OLD COLONY RVTHS

Old Colony Regional Vocational Technical High School is located on an 80-acre campus in Rochester, Massachusetts, the geographical center of the five-member town school district that includes Acushnet, Carver, Lakeville, Mattapoisett, and Rochester. Old Colony is committed to providing rigorous and relevant vocational-technical and academic programs. Graduates receive a high school diploma and a Technical Program Certificate of Completion.

Old Colony's four-year program of studies allows students to directly enter the job market as skilled workers or to continue their education at college, university, or technical school. As part of the Career Vocational Technical Education Program (CVTE) our students are eligible to earn college credit through articulated credit, courses, and early college placement. Students who meet specific criteria enroll in these courses at no cost. College credits can be awarded for technical training received at Old Colony from a variety of post-secondary institutions. Old Colony is fully accredited by the New England Association of Schools and Colleges.

### MISSION STATEMENT

Our mission is to prepare and support students for the global demands of society and the workforce through rigorous, vocational-technical and academic courses. This foundation is established within a safe environment that values students' interest, needs, and diversity fostering responsible, productive citizens in our community.

#### Core Values:

COMMUNITY,  
INTEGRITY,  
PERSEVERANCE,  
PROFESSIONALISM,  
RESPECT



## BELIEFS ABOUT LEARNING

- All students are provided with the most current vocational, technical, and academic courses of instruction that allow for differences in student interests, aptitudes and abilities.
- Students' compassion towards others is paramount in fostering interpersonal connections collaboratively to ensure a safe, productive and respectful learning environment.
- Each student establishes relationships with community organizations to maximize student learning and promote postsecondary and career opportunities.
- Students will develop effective communication and leadership skills that build upon traits creating reliable work ethic of a civic-minded, life-long learner.
- Students are encouraged to persevere with professional, academic, and personal integrity.



## LEARNING EXPECTATIONS ACADEMIC & CAREER

*OC Students are expected to:*

- Develop critical thinking and reasoning skills
- Work independently and collaboratively
- Utilize technical skills and knowledge to solve problems
- Create individual education and career plan
- Communicate with clarity, focus, and consideration of audience and purpose

### **SOCIAL**

*OC Students are expected to:*

- Exhibit professional skills and behavior
- Accept personal responsibility
- Demonstrate self-respect and empathy for others
- Collaborate with peers and school community

### **CIVIC**

*OC Students are expected to:*

- Participate in community events
- Model the conduct required of an engaged and responsible citizen
- Demonstrate an understanding of civic duties within their local communities, while exploring global challenges





PROGRAM OF STUDIES

AUTOMOTIVE TECHNOLOGY

BUSINESS TECHNOLOGY

CAD DRAFTING

COSMETOLOGY

CULINARY ARTS

COMPUTER SCIENCE

ELECTRONIC ENGINEERING TECHNOLOGY

ELECTRICAL

HEALTH CAREERS

HOUSE & MILL CARPENTRY

GRAPHIC COMMUNICATION & DESIGN

MACHINE & TOOL TECHNOLOGY

METAL FABRICATION AND JOINING TECHNOLOGIES

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## AUTOMOTIVE TECHNOLOGY

- Work on today's foreign, domestic, and alternative fuel cars and trucks in a rapidly changing industry
- Diagnose, maintain, repair and fine-tune a wide range of vehicles alongside an ASE Master Technician
- Use advanced diagnostic and repair equipment to troubleshoot complex automotive systems

### **Career Opportunities**

*Graduates find employment opportunities in entry level positions such as:*

- Apprentice Technician
- Lube Technician
- Parts Assistant
- Service Station Attendant
- Tire Technician
- Used Car Technician

*With advanced training they can enter these higher level positions:*

- Mechanical Engineer
- Automotive Technician
- Service Manager
- Parts Manager
- Sales Manager
- General Manager
- Vocational Instructor
- Design Engineer





# CAD DRAFTING

- Transform ideas into products using the same design, drafting, and 3D modeling technologies as professional architects and engineers
- Find creative solutions to complex engineering and architectural challenges
- Develop a comprehensive portfolio with computerized architectural and mechanical drafting designs

## Career Opportunities

Graduates find employment opportunities in entry level positions such as:

- Assistant Drafter/CAD Detailer
- Mechanical Drafter
- Architectural Drafter

With advanced training they can enter these higher level positions:

- Architect
- Civil Engineer
- Industrial Engineer
- Interior Designer
- Mechanical Engineer

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“My boys are the first in our family to go to a vocational school. Their father and I always say what an amazing experience it has been. From the staff/classes, to the trades, to the athletics it has allowed them to become so well rounded and diversified. I truly believe it helped our oldest to get into the college of his choice.”

*Janice Wright  
(parent of former and present student)*





## HOUSE AND MILL CARPENTRY

- Operate a wide-range of professional power tools and computerized equipment to build innovative furniture and carpentry projects
- Work in all aspects of residential and commercial construction
- Work individually and in teams to design and construct meaningful projects for the community

### **Career Opportunities**

*Graduates find employment opportunities in entry level positions such as:*

- Framers
- Finish Carpentry
- Roofing/Siding
- Millwork

*With advanced training they can enter these higher level positions:*

- Construction Supervisor
- Engineering
- Construction Manager
- Architecture



“Making the choice to attend Old Colony has had a tremendous impact on my life; I wouldn’t be where I am now had I chosen to go to high school anywhere else.”

*Chad Underhill  
(2015 CIS graduate, current WPI student)*

## COMPUTER SCIENCE

- Power the modern world by writing code for apps, games, cyber security, and websites
- Develop creative and unique software solutions to complex problems
- Program in advanced languages such as HTML, PHP, JAVA, C++, CSS, and JavaScript

### **Career Opportunities**

*Graduates find employment opportunities in entry level positions such as:*

- Independent Game Designer
- Web Designer
- Programmer
- Quality Assurance Tester
- Mobile App Designer

*With advanced training they can enter these higher level positions:*

- Software Developer
- Systems Analyst
- Database Administrator
- Researcher
- Digital Forensics

## BUSINESS TECHNOLOGY

- Turn big ideas into a working business. Collaborate with business owners and industry leaders to develop entrepreneurial spirit
- Create and execute transformational media campaigns
- Design and implement powerful marketing and management plans using a multitude of technologies to solve real world business challenges

### **Career Opportunities**

*Graduates find employment opportunities in entry level positions such as:*

- |  |                                      |
|--|--------------------------------------|
| • Insurance Assistant                      | • Bookkeeping                        |
| • Accounts Payable/<br>Accounts Receivable | • Customer Service<br>Representative |
| • Retail Clerk                             | • Receptionist                       |
| • Administrative Assistant                 | • Bank Teller                        |

*With advanced training they can enter these higher level positions:*

- |                     |                    |
|---------------------|--------------------|
| • Retail Supervisor | • Business Manager |
| • Accountant        | • Insurance Agent  |
| • Event Planner     |                    |





## COSMETOLOGY

- Express your creativity by providing a wide range of artistic hair, nail, and skin care services
- Use professional techniques in a full-service salon and spa
- Work alongside professional cosmetologists while earning state licensure prior to graduation

### **Career Opportunities**

*Graduates find employment opportunities in entry level positions such as:*

- Nail Tech
- Skin Care Tech
- Licensed Cosmetologist

*With advanced training they can enter these higher level positions:*

- Make-up Artist
- Skin Care Consultant
- Barber
- Esthetician
- Dermatologist
- Cosmetic Plastic Surgeon
- Esthetic Nurse
- Salon Manager
- Manicurist



# CULINARY ARTS

- Create and present delicious gourmet masterpieces while working in a full-service restaurant
- Cook alongside professional chefs preparing appetizers, entrées, and desserts to everyone's delight
- Express your individual creativity as part of a team that develops unique culinary experiences

## Career Opportunities

*Graduates find employment opportunities in entry level positions such as:*

- Prep Cook
- Line Cook
- Dishwasher
- Baker's Assistant
- Wait Staff

*With advanced training they can enter these higher level positions:*

- Sous Chef
- Kitchen Manager
- Food Service Director
- Hospitality Director
- Restaurant Manager



Our Culinary Arts Department runs The Cougars' Den, a full-service restaurant open to the public. *Learn more at [www.oldcolony.us](http://www.oldcolony.us).*





## ELECTRICAL

- Control electricity to power the world
- Harness your power by becoming a licensed electrician in residential, commercial and industrial wiring systems
- Earn apprenticeship experience towards a journeyman's license while working with licensed Electricians

### Career Opportunities

*Graduates find employment opportunities in entry level positions such as:*

- Apprentice Electrician
- Security System Installer
- Cable TV Technician (Comcast)
- Telecommunications Technician (Verizon)
- Fire Alarm Technician
- CCTV/Security Camera Installer
- Home Theater Installer
- Electrical Union Apprentice
- Electrical Sales Associate/ Electrical Distribution

*With advanced training they can enter these higher level positions:*

- Licensed Journeyman Electrician
- Licensed Master Electrician
- Solar Electric Installer
- Electrical Contractor/ Business Owner
- Power Technician /Linesman (NSTAR/National Grid/Eversource)
- Electrical Foreman
- Project Manager
- Electrical Estimator
- Home Automation Integrator
- Electrical Instructor (Vocational/Trade School)



# ELECTRONIC ENGINEERING TECHNOLOGY

- Invent, design, and produce solutions to complex engineering challenges from concept to completion
- Create the electronic components that operate game consoles, cell phones, iPads, and advanced robotic devices
- Work with information technology specialists to design, install, and troubleshoot complex computer network

## **Career Opportunities**

*Graduates find employment opportunities in entry level positions such as:*

- Electronic Service repair Technician
- Engineering Technician
- Computer And Network Hardware Support
- Manufacturing Equipment Technician
- Entry Level Biomedical Technician

*With advanced training they can enter these higher level positions:*

- Electronics Engineer
- Field Service Engineer
- System Designer
- Computer Engineer
- Robotic Design and Engineering
- PCB Designer
- Component Engineer
- Biomedical Technician/Engineer





## GRAPHIC COMMUNICATION & DESIGN

- Design, produce, and deliver a wide range of creative promotional materials for print media
- Express your unique artistic vision by creating dynamic illustrations, computer animations, and digital photographs
- Showcase your unique talents by creating a digital portfolio for college and career

### **Career Opportunities**

*Graduates find employment opportunities in entry level positions such as:*

- Junior Graphic Designer
- Digital Print Associate

*With advanced training they can enter these higher level positions:*

- Senior Graphic Designer
- Creative Director
- Print Specialist
- Multimedia Artist/Animator
- Art Director
- Illustrator
- Production Designer
- Self-employed Entrepreneur



Our Graphic Communication & Design department offers design services to the surrounding communities. Visit [www.oldcolony.us](http://www.oldcolony.us) to learn more.



# HEALTH CAREERS

- Help others by improving the quality of patients' lives
- Explore a wide range of healthcare careers
- Participate in clinical rotations in hospital and acute-care facilities to enhance the quality of patients' lives

## Career Opportunities

*Graduates find employment opportunities in entry level positions such as:*

- Certified Nursing Assistant
- Hospital Care Staff
- Nursing Home Staff
- Daycare Staff
- Assisted Living Staff
- Home Care Staff

*With advanced training they can enter these higher level positions:*

- Nurse
- Doctor
- Surgeon
- All Allied Health Fields

Almost

**50%**

of seniors participate in  
paid cooperative education  
experiences

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## MACHINE AND TOOL TECHNOLOGY

- Invent, design, and engineer high-tech precision parts for the military, medical, and telecommunications industries
- Use advanced computer technology to create 3D prototypes
- Dive into the fields of Mechanical and Manufacturing Engineering

### **Career Opportunities**

*Graduates find employment opportunities in entry level positions such as:*

- Machine Operators
- Inspector
- Machinist

*With advanced training they can enter these higher level positions:*

- CNC Programmer
- Setup Person
- CMM Technician
- Teacher
- Engineer



# METAL FABRICATION AND JOINING TECHNOLOGIES

- Drill, bend, cut, punch, join, and manipulate many types of materials to create artistic sculptures
- Control fire and electricity to design, dismantle, and weld a wide range of metal products
- Design layout patterns, interpret blueprints, and adhere to engineering specifications

## **Career Opportunities**

*Graduates find employment opportunities in entry level positions such as:*

- Apprenticeships in any of the local metal trades both union and non-union - pipefitter, pipe welder, iron worker, sheet metal worker, boilermaker, millwright, shipbuilders, production workers and production assemblers

*With advanced training they can enter these higher level positions:*

- Structural Engineer
- Nuclear Welder
- Underwater Welder
- Robotics Engineer
- Journeyman in the Metal Trades
- Self-employment

**91%**

of students attend  
post-secondary education  
or begin employment in  
their technical field upon  
graduation



## ACADEMICS

### ENGLISH LANGUAGE ARTS

- ENGLISH HONORS AND COLLEGE PREP

### MATHEMATICS

- ALGEBRA I HONORS & CP
- ALGEBRA II HONORS & CP
- GEOMETRY HONORS & CP
- PRECALCULUS
- CALCULUS
- STATISTICS & TRIGONOMETRY APPLICATIONS
- 21ST CENTURY MATHEMATICAL APPLICATIONS

### SCIENCE

- TECHNOLOGY & ENGINEERING HONORS & CP
- BIOLOGY HONORS & CP
- CHEMISTRY HONORS & CP
- MARINE BIOLOGY
- PHYSICS HONORS & CP
- FORENSICS

### SOCIAL STUDIES

- U.S. HISTORY I HONORS & CP
- U.S. HISTORY II HONORS & CP
- MODERN WORLD HISTORY I HONORS & CP
- MODERN WORLD HISTORY II HONORS & CP

### PHYSICAL EDUCATION AND WELLNESS PROGRAM

- PHYSICAL EDUCATION & FITNESS
- HEALTH & WELLNESS EDUCATION
- DIGITAL LITERACY
- LIFE AND CAREER READINESS
- ACADEMIC SUPPORT

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## ENGLISH LANGUAGE ARTS

The goal of the English Language Arts Program is to provide literature-based education founded on intensive reading, writing, speaking and listening skill mastery. Over the four-year course of studies, the students will be presented with curriculum that will scaffold skills necessary for post-secondary goals of continued education and placement in the work force. The program provides students with a solid body of knowledge derived from the following: reading high quality works of literature; discerning characteristics of and approaches to fiction, non-fiction, prose, verse, drama, and informational texts, incorporating multi-faceted technologies; gaining experience in confronting global issues and conflicts. Benefiting from a curriculum aligned to the Common Core Standards, students at Old Colony RVTHS will develop the skills necessary to become critical readers and effective writers of research, formal argument, and expository essays. In addition, students receive a strong background in mastering extended texts, while synthesizing and analyzing a variety of sources.

## MATHEMATICS

Honors, and the College Prep Math courses are offered for students in grades 9, 10, 11, & 12. The Honors courses are designed for those students who have a strong background in mathematics and are planning on pursuing higher education. College Prep courses are designed for students planning on attending technical schools, two-year colleges or furthering their study in their chosen vocational area, entering the workforce or military service. All levels prepare students in their Freshman and Sophomore years for the MCAS test. In their Junior year, the course work becomes more specific to graduation plans. Placement in all mathematics courses after Algebra I is contingent upon successful completion of the prerequisites and teacher recommendation. All students must pass four years of mathematics.



## SCIENCE

In all of the science courses students are expected to demonstrate an understanding of the basic principles of science, demonstrate the ability to work safely and effectively with equipment while conducting experiments, and employ problem-solving skills. Courses in grades 9 are designed to meet the requirements of the MCAS Technology & Engineering Test.

## SOCIAL STUDIES

In all social studies courses, students analyze cause and effect of social issues. Research and writing skills are developed through papers and essays along with oral and visual projects. Students discuss the significance, bias, and reliability of historical evidence. In honors courses, more emphasis is placed on critical thinking of the subject matter in addition to comparing and contrasting the various aspects of controversial issues.

## PHYSICAL EDUCATION AND WELLNESS PROGRAM

The mission of Physical Education and Wellness at Old Colony High School is to encompass a well-balanced program that prepares students with the knowledge and skills necessary to be physically fit and healthy for life in the 21st century. Growing scientific evidence is showing a significant connection between physical fitness and the cognitive, emotional, and social well-being of the individual, which makes regular participation in physical education more crucial to all aspects of life. Students will gain a fundamental understanding about the importance of lifelong fitness in a safe and enjoyable environment.

The Health Education program is designed to meet the National Health Education Standards. It addresses physical, social and emotional issues facing students to help them develop healthy lifestyles.

## ATHLETICS

BASEBALL

BASKETBALL (GIRLS & BOYS)

CHEERLEADING

CROSS COUNTRY

FOOTBALL

GOLF

LACROSSE (GIRLS & BOYS)

SOCCER (GIRLS & BOYS)

SOFTBALL

VOLLEYBALL

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## PHILOSOPHY OF ATHLETICS

Old Colony Regional Vocational Technical High School will strive to provide our students with the finest Athletic Program possible. The athletic facilities, equipment, uniforms, and coaching must be of the highest caliber. Regardless of number, we will try to involve as many students as possible, both male and female. Every experience, practice, or game should be instructional and enjoyable. Discipline, fair play, good sportsmanship, and conduct must be of prime concern for all coaches.

**68%**

Old Colony  
students are multi-sport  
athletes

# ATHLETIC MISSION

The Mission of the Athletic Department is to support and supplement the mission of the Old Colony School System by providing interscholastic sports programs. We are committed to the personal development and well being of our student-athletes and staff. Through its offerings, the Athletic Department plays an integral part in preparing our student-athletes for citizenship, service and leadership by emphasizing teamwork, self-discipline, personal responsibility and the setting of high standards and achieve.

## *Sportsmanship*

Old Colony RVTHS is committed to creating and promoting sportsmanship and ensuring healthy environments for competition.

## **Principle of Sportsmanship**

- Respect
- Responsibility
- Good Citizenship
- Fairness

We strongly recommend getting involved in our athletic programs. Students who are interested in participating in one of the programs should contact Matt Trahan, Athletic Director. All students-athletes must have a completed permission form signed by a parent/guardian. In addition, all students-athletes are required to have passed a physical examination within the last 13 months.



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## CLUBS & ACTIVITIES



BROADCASTING &  
PRODUCTION

GAY/STRAIGHT ALLIANCE

INTERNATIONAL TRAVEL

MUSIC

NATIONAL HONOR SOCIETY

NEWSPAPER

NON-TRADITIONAL

ROBOTICS

SKILLSUSA

STUDENT COUNCIL

# 100%

of Old Colony students  
are SkillsUSA members

## PROMOTION

In order to graduate from Old Colony, each student must complete four (4) years of high school and a minimum number of courses as outlined below. For the classes of 2020, 2019, and 2018, all grades must successfully complete all core courses in order to be promoted.

Core courses include: English, Math, Science, Social Studies, Shop Related, and Shop. Old Colony offers additional course options in Physical Education, Health, Academic Support, Digital Literacy, and Life and Career Skills.

Students found to be deficient in fulfilling the academic requirements for promotion and/or graduation must attend a summer school program during July and August. Prior approval must be obtained from Old Colony Guidance Department before enrolling in any summer courses and evidence of the satisfactory completion of all summer courses (with at least a grade of "C") must be submitted. Any student who does not attend, does not meet the attendance requirements, or does not pass all of their required academic summer courses (with at least a grade of "C") to promote into the next grade level, forfeits his/her enrollment to Old Colony RVTHS. Since shop grades constitute 1/2 of the year's credit, there are no provisions for any shop make-up.

All students will be required to complete a student portfolio as a graduation requirement, and that the portfolio will be a condition of promotion from each grade. Students must pass each of the MCAS tests required by the Commonwealth of Massachusetts Department of Education.





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