



BIDDEFORD REGIONAL CENTER OF TECHNOLOGY
YOUR CAREER & TECHNICAL HIGH SCHOOL

2026-27 COURSE CATALOG

Welcome to BRCOT!

Start on your career pathway now.



Our classes are designed to integrate a rigorous program of academic study with real world hands-on training. Our students are taught by highly competent instructors from the field that stress “learning by doing.” Through our collaboration with parents, communities, and business leaders, we serve a diverse student body with multiple learning styles. Our integrated curriculum provides students the opportunity to develop the academic, vocational and technical skills necessary to be productive members of a global community.

All of our courses are college prep or honors level that prepare students to progress to post-secondary education. We value life-long learning that fosters personal and professional development in a safe and respectful environment. By being engaged with employers, business, and post-secondary institutions, the graduates will be better prepared to succeed in their career pathway.

Is BRCOT right for you?

Making a decision to attend a career and technical high school might be one of the most important decisions you make in your life thus far. How do you know if attending BRCOT is the right place for you?

Start by answering these questions:

- Do you love a good challenge?
- Do you like to be creative?
- Do you like to learn in a small learning environment?
- Do you like to spend time out of the classroom?
- Do you have a particular interest or career pathway you want to pursue?
- Do you learn best with your mind and hands work together?

If you answered yes to any of these questions, then you have found the learning environment you have been searching for. Continue reading about our program offerings and how to apply to BRCOT. Please contact us anytime for a tour or questions. We are always happy to talk to you.

Paulette Bonneau, *Director*

Table of Contents

Scholarships	5
Skills USA & ABC Craft Championship	5
Business & Financial Management	6-7
Computer Technology	8-9
Career Pathways	10
Career Exploration	11-13
Culinary & Hospitality	14-15
Engineering & Architectural Design.....	16-17
Auto Body & Small Engine	18

Automotive Technology	19
Residential Carpentry	20
Electrical Technology.....	21
Manufacturing Technology	22
Welding & Metal Fabrication	23
Plumbing & Heating	24
Teaching & Early Education.....	25
Medical	26-27
Continuing Education.....	28
Enrichment Opportunities.....	29
Career Possibilities.....	30-31

Standards of Admissions

Biddeford Regional Center of Technology may admit persons eligible to receive a free public secondary education who are residents of the municipalities served by BRCOT and who are attending one of the following schools: Biddeford High School, Thornton Academy, Old Orchard Beach High School, Kennebunk High School, and Massabesic High School. Others may seek enrollment on a space available basis and according to the established procedures for admission of students not attending a sending school. Home-schoolers may attend BRCOT but must be registered with a sending high school. Although prerequisites are listed with courses, students are not denied acceptance based on the lack of prerequisite courses.

All students who would like to enroll in a BRCOT program must complete a BRCOT application for consideration. The application is online at biddefordschools.me/o/brcot. Potential applicants are strongly encouraged to visit the program they are interested in to make an informed decision. For more information, contact us at 207-282-1501 or talk with your high school guidance counselor.

Continuous Notice of Non-Discrimination

The Biddeford Regional Center of Technology does not discriminate in its education and employment programs on the basis of religion; age; race; color; national origin; gender; sexual orientation; marital or parental status and disability and provide equal access to designated youth groups and complies with

Title VI of the Civil Rights Act of 1964, Title IX Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 and the American’s Disabilities Act (ADA) of 1990.

Inquiries regarding Title VI, Title IX, 504, and ADA may be made to Chris Indorf, Affirmative Action Officer, Biddeford School Department, 18 Maplewood Ave., Biddeford, ME 04005, Telephone: 207-282-8280, Fax: 207-284-7956, Email: cindorf@biddefordschools.me. If you have questions, have witnessed, or experienced acts of discrimination based on these criteria and wish to express a Title IX/504 Grievance please contact Chris Indorf.

- Old Orchard Beach students please contact:**
Eric Hanson, *Assistant Superintendent*
207-934-4461
- Thornton Academy students please contact:**
Marsha Snyder, *Associate Headmaster*
207-282-3361
- Kennebunk High School students please contact:**
Don Weafer, 207-985-1160
- Massabesic High School students please contact:**
Scott Lavertu, 207-247-3141

Students may grieve to the Biddeford Affirmative Action Officer, Chris Indorf or to the Office of Civil rights, Washington, D.C. at any time before, during and after implementation of the School Department’s grievance process. Employees may grieve to the Office of Civil rights. The grievance policy and procedures may be found on the Biddeford School Department website listed under district Policy AC and AC-R.

Meet Your Graduation Requirements

Attending class at BRCOT can be a viable pathway towards graduation. Planning ahead and working with your guidance counselor can help you gain credits early on while studying what you enjoy.

Rigor & Relevance

*Industry Based Standards
Career Oriented Instruction*

Instruction is based on standards that have been verified by the industry and taught by instructors who have been in the field and credentialed to teach the content area. Our courses provide instruction in high wage 21st century career opportunities. All courses taught at BRCOT undergo a rigorous approval process by the Department of Education. Each program has an Advisory Committee that meets two times a year to review program rigor, relevance and current industry trends. Learning at BRCOT is learning that works! Learning that works for life!

Save Thousands Of Dollars By Earning Free College Credits!

There are different types of these agreements, known as dual or concurrent enrollment, articulation, and advanced standing agreements. Their availability is noted in each program's description.

Many of our programs offer College Credits while you are earning your high school credits. All of courses at BRCOT are college prep level or honor level offerings and are indicated with each course description.

College credits may be earned in three ways:

① Dual Enrollment ▶

High school students are enrolled at the sponsoring post-secondary institution and BRCOT at the same time, earning credits at both. Upon completion of the course, students receive an academic transcript from the post-secondary school identical to the one received by college students who are physically attending that institution. Please check with your guidance counselor regarding course limits and fees. Dual enrollment courses are honor level courses.

② Articulation Agreements ▶

An arrangement between the Center of Technology and various colleges and universities, where a successful completion of class you have taken at BRCOT will count for college credit at that specific college. This means that if you attend a post-secondary institution which BRCOT has an agreement with, you will not have to retake classes that you already have taken ... saving you time, energy, and money.

③ Advanced Standing Program Credits ▶

Offers high school students the opportunity to receive university college credit for their work during high school. Upon successful completions of your high school program and passing a university approved proficiency exam, college credits will be awarded; students will receive an academic transcript from the college or university identical to the one received by college students who are physically attending the school. These credits are fully transferable(there may be a small processing fee) to most other post-secondary colleges and universities.

Scholarships

To encourage post-secondary learning, the BRCOT is proud to provide and support an impressive amount of scholarship opportunities. Last year, more than \$25,000 worth of scholarships, including tools and equipment were awarded at our annual year-end ceremony. Local businesses and community organizations continue to recognize the value of investing in our students and their postsecondary education. We encourage all BRCOT students to take advantage of, and apply for, this free money.



Skills USA

Students enrolled at COT are eligible to participate in SkillsUSA, a national organization of students, teachers, and industry representatives working together to prepare high-performance workers in career and technical occupations. SkillsUSA emphasizes total work quality-high ethical standards, superior work skills and pride in the pursuit of lifelong learning. The program includes local, state, and national competitions in which students demonstrate occupational and leadership skills in over 70 different areas. These competitions are judged by industry representatives, with scholarships and equipment prizes awarded to medalists. First place winners in the State competition go on to compete at the National Championships.



ABC Craft Championship

All students in engineering and construction-related programs have the opportunity to participate in the Annual Craft Championships which is sponsored by the Downeast Construction Education Fund, a charitable trust established by Associated Builders and Contractors of Maine to help educate the next generation of construction craft professionals. The Craft Championships include competitions and demonstrations in over 30 hands-on activities, including state of the art advanced technologies.



Business Education

Do you want to learn how to run a business and make a profit? Do you like working with and managing money? The Business Leadership program will introduce you to the business world and prepare you to excel in any business-related field or college program. Courses include: Intro to Business & Entrepreneurship, Accounting, Investing & Personal Finance, as well as additional electives in Marketing, Project Management, and Business Law. You will also have the opportunity to apply for the Small Business Management Certificate from YCCC if you attend both Junior and Senior year – earning you 18 college credits and a college credential!

Accounting

#21017

Learn to properly maintain business financial records according to Generally Accepted Accounting Principles (GAAP). Students will become familiar with the basic accounting system used in the United States today. Students will be introduced to the complete accounting cycle for service businesses organized as sole proprietorships as well as merchandising businesses (sells a product) organized as a corporation.

Level: Honors
Credit: 1 (Block 1, Fall Semester)
Earns 3 transferable college credits at YCCC for ACC111
Integrated Credit: Social Science, Math

Business of Travel, Tourism & Hospitality

#28036

Discover careers that take you places -- from hotels and restaurants to events and travel destinations! This is your ticket to exploring the fun and exciting world of tourism -- the #1 industry in Maine. From event planning to hotel operations to restaurant management-- you'll gain valuable skills in business basics, communications, teamwork, problem solving, customer service and marketing that will serve you in any career. Includes many field trips to local businesses and job shadows at The Lincoln Hotel. Create a restaurant concept. Become a manager, start your own business, or kickstart a career where you can travel the world for free. Start here, go everywhere!

Level: CP
Open to: 10, 11, 12
Credit: 4
Prerequisite: None
Eligible for Dual / Concurrent Enrollment:
SMCC HSPM 102 3 Credits



Investing & Personal Finance

#21057

Learn sound economic principles to handle your money, as well as intelligent investing in stocks, bonds or mutual funds. Students will learn the complete record-keeping, planning and money management activities necessary for successful completion of personal and family financial matters. Topics include making a budget, using credit wisely, and preparing income taxes. An introduction to the fundamentals of knowledgeable investing will follow, focusing on stocks, bonds, mutual funds and real estate.

Level:	Honors
Open to:	11, 12
Credit:	1 (Block 1, Spring semester) Eligible for college credits through YCCC for BUS113.
Integrated Credit:	Social Science, Math

Marketing & Sales

#21046

Introduces the student to the basics of personal selling and serves as a preparation for a successful sales career. The course explores social and ethical issues as well as psychology, communication, and persuasion. The dynamics of prospecting for new customers and closing the sale are considered. Special emphasis is placed on actual sales presentations through role-playing. Students also study the role of advertising in selling a product or service.

Level:	Honors
Open to:	11, 12
Credit:	2 (Block 5 year long) Eligible for college credits through YCCC for BUS 250.
Integrated Credit:	Social Science

Business Leadership & Entrepreneurship

#21037b

For motivated students interested in owning their own business, working in supervisory management or attending college for Accounting, Finance, or Management. Students will gain the fundamental skills needed to establish, organize, promote, and manage any trade or business venture. Topics include creating and presenting a business plan, related legal issues, marketing products or services, financial record-keeping, protecting assets, and managing human resources. Special emphasis will be placed on the key management functions of Leading, Planning, Organizing, Staffing and Controlling.

Level:	Honors
Open to:	11, 12
Credit:	2 (Block 2) Earns 6 transferable college credits at YCCC for BUS110 and BUS260.
Integrated Credit:	Social Science, Math

Business Management

#21037

This course covers the many facets of business and gives the student a general knowledge of the modern business environment. The economic, social, legal, ethical systems affecting US businesses are explored. The general concepts of business organization, management, "the people aspects" of business, together with the functions of production, marketing, accounting, and finance are investigated.

Level:	Honors
Open to:	11, 12
Credit:	2 (Block 2) Eligible for college credits through YCCC for BUS 110.
Integrated Credit:	Social Science, Math

Computer Technology

Would you like to get things done faster and more efficiently? Do you want the skills to succeed in today's technologically dependent world? BRCOT offers a comprehensive, two-year program in Computer Technology to prepare students to become highly marketable employees in today's computer world, acquiring skills currently in demand by employers and for success at the college level. Several of the components in this program lead to industry certifications and up to 18 college credits. Students who complete this program earn a COT Certificate of Completion in Computer Technology.

Career path possibilities include: Programmer, Software Engineer, Tech Support Specialist, Video Game Designer, Information Architect, Graphic Designer, Marketing & Communications, Business Manager, IT Consultant, Cloud Architect, Computer Forensic Investigator, Health IT Specialist, Mobile App Developer, Web Developer, Software Engineer, and many others- some haven't even been thought of, yet. Being proficient in the world of computers opens untold career opportunities as well as promoting a meaningful life. Not only do students study how computers are built and maintained, but the social and ethical implications of their use. No prior computer experience is necessary.



Computer Technology & Applications I

#22097

You do not need any prior experience or knowledge about computers to be successful in this class. We will focus on Hardware, Software, Operating Systems, Networking, CyberSecurity, and Databases, as well as Mobile App Development, Microsoft Office 2016 (Word, Excel, and PowerPoint), and Adobe Creative Cloud (Illustrator, Photoshop, Animator, InDesign, and others). Programming will be done in JavaScript and SQL in the first year. Our focus will be on creating "real world" solutions for our school and community.

Students will have the opportunity to earn CompTIA A+, Microsoft Office Specialist, and Adobe Certified Expert. Emphasis will be placed on developing a broad Technology Based Portfolio which students can use to advance academic and employment careers. And, no modern technology class can be complete without developing creative and critical thinking skills while considering the social and ethical implications of technology. What is the difference between information and data? Can we predict the impact of new technologies? What can my bank/school/hospital do with my personal information? How does the Digital Divide affect economic development? We want to do more than hack away at our keyboards or crimp Cat 6 cables. We want to use our Computer Technology knowledge for good.

- Level: CP or Honors
- Open to: 11, 12 (10 w/ instructor permission)
- Credit: 4 (Honors may earn up to 12 college credits)
- Integrated Credit:
 - Science, Fine Art
- Prerequisite: Appropriate reading, writing, and math skills for college-level coursework
- Honors/College Credits:
 - YCCC CIS 115, CIS 118, MUL 10, MUL 122



Computer Technology & Applications II

#22197

For students who have successfully completed Computer Technology and Applications I or have prior instructor approval based on student ability or prior courses, this class works on virtual reality, drones, and 3D programming for use in an educational environment. We also run the COT's Help Desk and work with Instructors to solve computing and technology issues.

We'll start in CoSpaces and work our way into the cross-platform game engine Unity. Some students will specialize in programming while others can specialize in developing Game Objects and two and three dimensional games and educational applications for the HTC Vive and Oculus. At the end of the two-year Computer Technology and Applications course, students could complete the Technology courses required for YCCC's Help Desk Certificate. Basic certification as a Unity Certified Associate and Drone Operator may be available to select students.

Level:	CP or Honors
Open to:	11, 12
Credit:	4 (Honors may earn up to 12 college credits)
Prerequisite:	Successful completion of CT I or have the instructor's approval
Honors/College Credits:	YCCC CIS 125 and CIS 152

Graphic Arts & Multimedia Design

#TBD

This program prepares students for careers in visual communication, digital media, and creative industries. Students develop both creative and technical skills through hands-on projects that reflect real-world design challenges and industry standards.

Throughout the program, students learn the principles of graphic design, digital imaging, typography, branding, layout, photography, video production, animation, and multimedia storytelling. Using industry-standard software and equipment, students create professional-quality digital and print media such as logos, advertisements, websites, social media content, videos, and promotional materials.

This program supports college and career readiness by offering opportunities for industry certifications, work-based learning experiences, and articulation with postsecondary programs. Graduates are prepared for entry-level positions, freelance opportunities, or continued education in fields such as graphic design, multimedia production, marketing, communications, web design, and digital media arts.

Level:	CP
Open to:	11, 12 (10 w/ instructor permission)
Credit:	4
Integrated Credit:	Fine Arts

Career Pathways

Do you have the career-ready skills employers are looking for? Do you have a plan for employment, continuing education and a career after high school?

Biddeford Regional Center of Technology's Career Pathways program helps students identify their individual learning styles, target industries of interest, identify potential career opportunities, and develop valuable 21st century employability skills while researching and working in their field of interest. Career Pathway students are exposed to Career and Technical High School programs, as well as Cooperative Education opportunities not available at BRCOT. The goal of the Career Pathways program is to assist students in making appropriate choices and plans for their education/career paths during and after high school.

Technical Math

#14205

This is a hands-on course that is designed for Career & Technical students. This course will cover topics in Algebra, Geometry, Measurement, and Data Analysis. These topics are covered at an introductory level and the emphasis is on the application of those skills. Students will immediately see the purpose and real-world connection as a large portion of instruction is project based and aligned with the skills they will need to be successful in any trade.

Level: CS
Open to: 9, 10, 11, 12
Credit: 2
Prerequisite: Math Foundations and/or Pre-Alg.

Career Development: School-to-Work Cooperative Education Or Extended Learning Opportunity

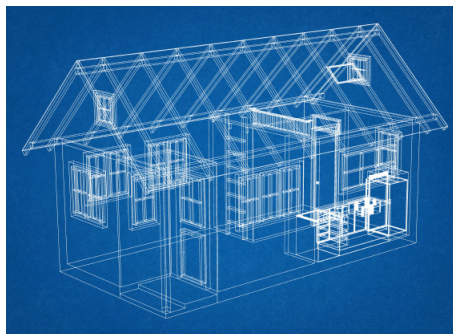
#28027

Career Development School-to-Work Cooperative Education (Co-Op) or Extended Learning Opportunities (ELO) provide an opportunity for students to further develop their occupational skills and participate in occupational training programs that combine academic study with paid, monitored and credit-bearing work, accelerating a student's college and career path and strengthening employability skills. Our philosophy recognizes that classroom learning is only part of the skills and knowledge students will need to succeed in their chosen profession or career. While working students must maintain good attendance and academic performance outside of the Co-Op or ELO. In addition to working on site, students will participate in weekly online class discussions and check in regularly for group discussion, industry required testing and assessment with BRCOT program instructor or Career Pathway Coordinator. Through this specific program, high school students earn credit for paid, supervised work in the community. A State of Maine Cooperative Agreement among the parent(s), student, school and employer is completed. Employers/supervisors evaluate work ethic, on the job skills, and workplace responsibilities. Students must provide their own transportation to and from the job site. Students do not have to be enrolled in a CTE program to participate in the COOP program. Students enrolled in this course have the opportunity to earn a Nocti WorkReady industry certificate.

Level: CP/Honors
Open to: 11, 12
Credit: Up to 2 credits annually
Integrated Credit: Social Science, English
Prerequisite: None
Eligible for Dual/Concurrent Enrollment: SMCC (Career Development 2)

Career Exploration

Do you dream of designing and building your own home? Are you on the college track and want to develop other skills? Are you a "non-traditional" student wishing to explore different career options?



These interactive classes introduce you to many different fields that can help you make career choices or just learn something new in a fun way.

“The top 5 industries for “good jobs” that pay a median income of \$55,000+ without a bachelor’s degree are management, office and administrative support, sales, production, and construction and extraction.”

– National Skills Coalition, 2019

Tiny Home Construction

#17026

This class will cover the basics of what is involved in designing a house as well as provide an overview of how houses are constructed as you design and build a Tiny House Model from the ground up. The information covered in this class should be of great value to anyone who is planning to own a house at some point, as well as being an excellent introduction to a variety of topics that can be studied in greater depth at the Center of Technology, such as Engineering and Architectural Design, and Residential Construction. Skills learned will include precision hand drafting to prepare house plans, some basic woodworking and the safe and proper use of a variety of hand and power tools.

Level:	CP
Open to:	9, 10, 11, 12
Credit:	1
Prerequisite:	None

“Do what you love and success will follow. Passion is the fuel behind a successful career.”

– Meg Whitman

Energy & Power

#17526

Students will learn the fundamentals of energy, through hands-on and in-class activities; what it is, how we obtain it, and how we have learned to use it. The skills and knowledge introduced in the class help to understand how and why things work, which can be very useful both professionally, at home (when fixing things), and even just for fun! This class also serves as an introduction to many topics covered in more detail in courses offered at the Center of Technology (COT), including electrical, plumbing and HVAC, engineering, automotive, and more.

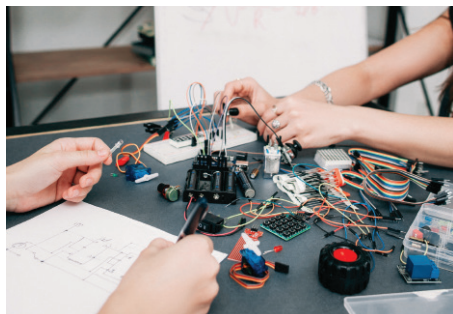
Level: CP
Open to: 9, 10, 11, 12
Credit: 1
Prerequisite: None

Project Bike

#17416

In the process of building a recumbent bicycle from the ground up, students will be introduced to a variety of hand and power tools as well as to the basic systems that make up the bicycle. The skills and knowledge from this class are widely useful outside of working on bikes, both in job situations and in general life. Topics in this class include metalworking, welding and brazing, and mechanics systems also provides a good background for further study at the Biddeford Regional Center of Technology in such programs as Welding, Precision Machining, Automotive, Auto Body and Plumbing.

Level: CP
Open to: 9, 10, 11, 12
Credit: 1
Prerequisite: None



Introduction To Robotics

#17056

Students will build and program robots using problem-solving strategies. Students will work hands-on in teams to design, build, program, and document their progress. Topics will include motor control, gear ratios, torque, friction, sensors, timing, program loops, and decision-making.

Level: CP
Open to: 9, 10, 11, 12
Credit: 1
Prerequisite: None

Advanced Robotics

#17066

Students will build and program robots using problem-solving strategies. Students will work hands-on in teams to design, build, program, and document their progress. Topics will include motor control, gear ratios, torque, friction, sensors, timing, program loops, and decision-making.

Level: CP
Open to: 9, 10, 11, 12
Credit: 1
Prerequisite: Introduction To Robotics or permission from instructor

Metal & Materials

#17086

This course introduces students to the foundational techniques of metal fabrication and joining, including soldering methods, cold connections like riveting and hinges, and creative structural techniques such as tab construction. Students will also explore decorative processes like inlay, stone setting in bezels, forging, roller printing, surface coloration, and stamping. With guidance from instructors, students will design projects that blend technical skills with personal expression, resulting in unique and meaningful creations.

Level: CP
Open to: 9, 10, 11, 12
Credit: 1
Prerequisite: None

Introduction To Programming

#17106

This is an exploratory course to introduce students to the concepts of programming, different programming languages, and basic app development. Students will also gain an understanding of computer logic, which will enhance problem solving skills. No previous coding experience is required as we will begin with block-style programming and work our way into other programming languages.

Level: CP
Open to: 9, 10, 11, 12
Credit: 1
Prerequisite: None

Introduction to Digital Media

#12306

Introduces basic skills and conceptual development in photography and related digital media. This course offers students opportunities to develop fundamental skills in photographic composition. Techniques include: Rule of Thirds, Balance, Light, Point of View, Pattern, Motion, Selective Focus, Contrast and Variety, Texture, Mood, Framing and Depth of Field. Students will be required to develop a print and/or electronic portfolio.

Level: CP
Open to: 9, 10, 11, 12
Credit: 1
Prerequisite: None

Food & Farming Production

#17516

This course will introduce the students to the skills, knowledge and science around healthy food production at both the large-scale and home scale levels. A variety of related material will be covered, and in the process. The student will gain experience using a variety of hand and power tools. Topics in this class also will provide good background for further study at the Biddeford Regional Center of Technology (COT). Examples of such topics include nutrition and nutritious food production, which connects with the health-related programs (CNA, EMT and Medical Assisting) and the fabrication of structures for growing food which ties into the Residential Construction program.

Level: CP
Open to: 9, 10, 11, 12
Credit: 1
Prerequisite: None

Culinary & Hospitality

The Culinary Arts Training Program is designed to equip individuals with the essential skills and knowledge required to excel in the dynamic and diverse field of culinary arts. This program combines hands-on culinary training with theoretical understanding, creating a comprehensive learning experience. Students learn fundamental and advanced culinary techniques,, the art of menu planning, professional kitchen management, and the curriculum is designed to keep students abreast of the latest culinary trends to foster creativity and adaptability in an ever evolving industry.

The Hospitality, Travel, and Tourism Program is a comprehensive training initiative that prepares individuals for exciting careers in the global hospitality and tourism industry. It focuses on developing a broad skill set encompassing customer service, management, and industry-specific knowledge. Students are trained to provide excellent customer service, event management, hotel and resort management, travel and tourism trends, and practical experiences allowing students to apply theoretical knowledge in event settings.



Business of Travel, Tourism & Hospitality

#28036

Discover careers that take you places -- from hotels and restaurants to events and travel destinations! This is your ticket to exploring the fun and exciting world of tourism -- the #1 industry in Maine. From event planning to hotel operations to restaurant management-- you'll gain valuable skills in business basics, communications, teamwork, problem solving, customer service and marketing that will serve you in any career. Includes many field trips to local businesses and job shadows at The Lincoln Hotel. Create a restaurant concept. Become a manager, start your own business, or kickstart a career where you can travel the world for free. Start here, go everywhere!

Level: CP

Open to: 10, 11, 12

Credit: 4

Prerequisite: None

Eligible for Dual / Concurrent Enrollment:

SMCC HSPM 102 3 Credits

“From culinary arts to event management and hotel operations-where hands on skills, teamwork, and a strong work ethic lead to long-term success.”

– Hospitality Maine



Culinary Arts I

#27376

The ProStart® Program is a two-year industry-based program that prepares students for careers in the restaurant and food service industry or post-secondary schools. Culinary Arts is a course to orient the student toward food preparation procedure and the use of equipment as it applies to the finished product. This will include study and practical application in baking, main meal production, short order cooking, sanitation, safety, hygiene, and menu planning on a daily basis. Each student will be involved in planning, coordinating, and catering functions and parties for small and large groups throughout the year. Opportunities for graduates are wide ranging in all areas of both direct food preparation and related management in the food service field. Students will gain entry level work skills and hands-on experience participating in the Culinary Arts Industry.

Level: CP

Open to: 11, 12

Credit: 4

Prerequisite: None

Culinary Arts II

#27386

Culinary Arts II students' progress to hands-on mastery of advanced culinary skills. They build on skills acquired in Culinary Arts I to gain a comprehensive knowledge of the food service industry, including kitchen safety and sanitation, nutritional principles, and advanced food preparation techniques. Students will build on their basic culinary skills by learning more complex cooking methods, plating, and presentation, as well as gaining deeper insights into food science and industry standards. Students may earn a ServSafe certification as part of this course. Students will have an opportunity for high-quality work-based learning which will provide experiential learning opportunities related to the students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations.

Level: CP

Open to: 11, 12

Credit: 4

Prerequisite: Successful completion of CA I and Instructor recommendation

Engineering & Architectural Design

Do you have an interest in career fields that use Computer Aided Design known as CAD? These career fields include: All disciplines of Engineering (mechanical, computer, electrical, nuclear, civil, etc.), Architecture, Interior Design, Landscape Design, Industrial Design, and more. Do you like to invent, design, and create? Do you want to earn six college credits while in high school?

Be a part of "The Next Industrial Revolution." Design and make complex objects with our state-of-the-art 3D printer. Join the rapidly emerging field of Additive Manufacturing and Rapid Prototyping that will revolutionize the way we live. Students in this program are job shadowing at local engineering and architecture firms and experiencing first hand what their future careers will look like. You will learn the newest versions of Computer Aided Drawing (CAD) software, as well as hand drafting, sketching, and architectural model building. The course includes field trips to local engineering and architecture firms and hosts engineers and architects as guest speakers.

“More than 80% of manufacturers report that talent shortages will impact their ability to meet customer demand.”

– ACTE, 2020



SMCC Engineering & Architectural Design I

#23067

In this hands-on course, students will explore the exciting world of design and innovation through practical applications and advanced technology. Utilizing software such as AutoCAD, SketchUp, and Inventor, students will learn to create detailed architectural plans and 3D models. The course emphasizes hands-on learning, allowing students to engage in 3D printing, laser cutting, and model building to bring their designs to life.

Students will also delve into robotics with VEX Robotics, fostering skills in mechanical design, teamwork, and programming. Throughout the course, students will tackle real-world design challenges, applying the engineering process to develop creative solutions. By the end of the course, students will have a strong foundation in engineering principles, design techniques, and practical skills that prepare them for future studies in engineering, architecture, or related fields.

Level:	Honors
Open to:	9, 10, 11, 12
Credit:	4
Integrated Credit:	Science, Math
Eligible for Dual / Concurrent Enrollment:	SMCC AEDD 100 3 Credits



SMCC Engineering & Architectural Design II

#23036

In his second-year course, students will deepen their understanding of design and engineering principles while refining their technical skills. Building on foundational knowledge from the first year, they will explore advanced software tools like SolidWorks and Revit Architecture to create sophisticated 3D designs and architectural plans.

The course emphasizes student-driven projects, allowing learners to work independently or in small groups. Students will engage in creative projects that benefit their community, such as designing functional prototypes and developing architectural solutions. They will also have the opportunity to collaborate with local businesses and organizations on real-world challenges.

Through this course, students will enhance their technical proficiency, critical thinking, and project management skills, preparing them for advanced studies and careers in engineering, architecture, and related fields.

Level: Honors
 Open to: 11, 12
 Credit: 4
 Integrated Credit:
 Science, Math
 Eligible for Dual / Concurrent Enrollment:
 SMCC AEDD 105 3 Credits



SOUTHERN
MAINE
 COMMUNITY
COLLEGE

Auto Body Technology I

#27016

Students should be self-motivated and able to work in a group or individually. Students will spend time each day in the classroom learning Auto Body repairs through industry recognized I-Car curriculum in the areas of body repair, power tools, hand tools, welding, surface preparation, plastic repair, and vehicle technology and then develop those skills in the shop to be able to repair automobiles to today's standards.

Level:	CP
Open to:	11, 12 (10 with instructor permission)
Credit:	4
Integrated Credit:	Science, Fine Art

Auto Body Technology II

#27036

Auto body II covers the refinishing part of the industry. Students learn proper metal treatment, priming, paint mixing, alternate colors, paint matching, paint blending, base coat and clear coat finishes through industry recognized I-Car curriculum. Students will spend time each day in the classroom and then further develop their body repair skills in the shop, and refinish automobiles to today's standards. Successful second year students may be placed in off site settings while earning credit and industry recognized certifications. Upon successful completion of Auto Body II students will be employable at the entry level technician or further their education in a technical college.

Level:	CP
Open to:	11, 12
Credit:	4
Integrated Credit:	Science, Fine Art
Prerequisite:	Successful completion of Auto Body Technology I and Instructor recommended.

Small Engines & Power Equipment Repair

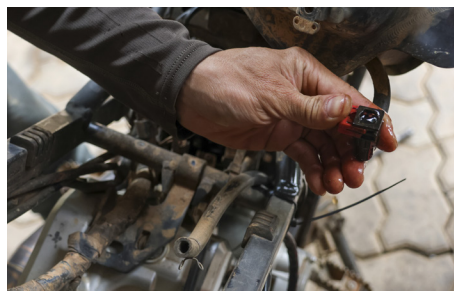
#TBD

This program prepares students with the knowledge and hands-on skills needed to diagnose, maintain, and repair small engines and power equipment used in residential, commercial, and recreational settings. Students will work with two- and four-stroke engines commonly found in lawn mowers, snow blowers, chainsaws, snowmobiles, ATVs, and other power equipment.

Through a combination of classroom instruction and lab-based learning, students will develop skills in engine theory, fuel and ignition systems, electrical components, hydraulics, preventative maintenance, and troubleshooting techniques. Emphasis is placed on proper tool use, workplace safety, technical reading, and problem-solving. The possibility of training with Yamaha or Polaris Industries exists.

The program also introduces students to industry standards and customer service practices relevant to the power equipment and outdoor power industries. Students will explore career pathways in equipment repair, automotive and diesel technology, landscaping, recreation equipment and related skilled trades, while building transferable skills such as teamwork, communication, and customer service.

Level:	CP
Open to:	11, 12 (10 w/ instructor permission)
Credit:	4





Automotive Technology I

#27056

Automotive theory learned in the classroom will be applied in the Automotive Technology laboratory. This program follows the automotive standards set by National Automotive Technicians Education Foundation (NATEF) and Automotive Service Excellence (ASE). The first year curriculum includes: career paths available in the automotive industry, communication, problem solving, customer relations, technical writing, reference material use, diagrams, shop safety, tool orientation, vehicle maintenance, tire theory and service, brake theory and service for drum, disc and brakes, cooling system theory and service, electrical theory fundamentals, charging systems, cranking systems, and related math and science topics.

Level:	CP
Open to:	11, 12 (10 w/ instructor permission)
Credit:	4
Integrated Credit:	Science, Math

Automotive Technology II

#27076

Automotive Technology II will build on skills that were acquired in Automotive Technology I. The second year of the automotive technology program includes review of proper shop safety and procedure. Students will progress through the more advanced stages of drive train, brakes, electrical/electronics, handheld meter theory, engine tune up theory and service, emission system theory and service, engine performance, computer controls theory and use, air conditioning theory and service, and alternative energy vehicles and bio fuels. Students will learn how to troubleshoot performance issues using hand held scanners and researching online automotive repair manuals and databases.

Level:	CP
Open to:	11, 12
Credit:	4
Integrated Credit:	Science, Math
Prerequisite:	Permission of instructor, successful completion of Automotive Technology I

Residential Carpentry I

#27096

The curriculum for the Residential Carpentry I program is centered around national standards established by the National Association of Home Builders. The program is geared toward community projects. Projects may include new construction or renovation with an emphasis on residential carpentry skills. Residential Carpentry I covers fundamentals required to engage in the building process. Positive work habits and employable skills are stressed. Students learn applied academic skills required to perform hands-on tasks and will practice that knowledge on a number of shop-based and community construction projects.

Level:	CP
Open To:	11, 12 (10 w/ instructor permission)
Credit:	4
Integrated Credit:	Science, Math

Residential Carpentry II

#27116

The curriculum of the Residential Carpentry II program continues to center around national standards established by the National Association of Home Builders. The program is geared toward community projects. Projects may include new construction or renovation with an emphasis on residential carpentry skills. Residential Carpentry II will continue to build on the skills developed in RC I. The skills learned in the first year will be further developed and include the building envelope, interior finish, advanced framing techniques and estimating.

Level:	CP
Open To:	11, 12
Credit:	4
Integrated Credit:	Science, Math
Prerequisite:	Successful completion of Residential Carpentry I and Instructor recommendation



“Young people who start cultivating professional skills now are setting themselves up to win not just in the workplace, but in their personal lives as well. Their middle and high schools years are such a formative period in their development. We can help them form the professional skills now that will serve them the rest of their lives.”

– Marc Perna



Electrical Technology I

#27136

This program offers students a state and nationally recognized educational training curriculum that allows students to become licensed electricians, after successfully completing both years of the program and the necessary related work hours in the field. This program also benefits students who are interested in electrical engineering, working at a power plant, HVAC, and alternative power careers. Through classroom activities and hands-on labs, students will study on-the-job safety, electrical theory, residential and commercial wiring techniques and standards. Students will be exposed to real world situations every day. Seniors may elect to return for year two as a post grad.

Level: CP
 Open to: 11, 12 (10 with Instructor permission)
 Credit: 4
 Integrated Credit:
 Science, Math

Electrical Technology II

#27156

This is the second year of the two-year Electrical program, with the option of a third year in postgraduate study. Areas of study include commercial and industrial wiring practices including mechanical conduit bending, motors, transformers and motor controls. Consists of level 2 & possibly 3 of NCCER curriculum. Students will be exposed to real world situations every day. Successful students in this program will meet the educational requirements for a State of Maine Journeyman's Electrician's license.

Level: CP
 Open to: 11, 12
 Credit: 4
 Integrated Credit:
 Science, Math

Manufacturing Technology I

#27176

The Manufacturing Technology program introduces students to the field of machining. Machining is how things like dirt bikes or performance truck parts are made! Students who sign up will learn how to safely operate a wide range of equipment, including milling machines, lathes, surface grinders, and computer-controlled machines called CNCs. Industries that rely heavily on machining include defense, aerospace, semiconductor, medical, oil and gas, and countless others. Students are limited by their imagination in this program, where they have the freedom to make anything that interests them. Former students have made parts for race cars, snowmobiles, drones, video game controllers, jewelry, and tools. You will visit multiple cutting-edge machine shops in the area and also can earn college credit through Southern Maine Community College. Machinists earn a high-paying wage, with great benefits, in a very clean and safe environment.

During your first year, you will learn the basics of operating machines. Students will also learn how to precisely measure, and read engineering drawings, along with gaining knowledge of hand tools and materials like steel and aluminum. You will learn how to start with a raw piece of metal and end up with a usable tool or part you can be proud of. As we progress through the year, you will be presented with entry-level projects that progressively become more challenging and interesting. You will be able to make things with the precision of the thickness of a human hair.

Level: CP
Open to: 10, 11, 12
Credit: 4
Integrated Credit:
Science, Math

Manufacturing Technology II

#27206

Manufacturing Technology II is where your newly learned skills will be put to the test. You will make more in-depth projects that will further hone your skills and make you the type of candidate employers are looking for. Here is where you will learn to draw 3D computer models, and program CNC machines to make precise, modern-day type components. You will work as a team on projects such as air-powered motors, and tools used in the industry, along with having the freedom to design and manufacture something of your interest. Students are also able to work in the field, while earning credit towards their certificate, and may be paid for it too!

Level: CP
Open to: 11, 12
Credit: 4
Integrated Credit:
Science, Math
Prerequisite: Successful completion of
Manufacturing Technology I
and instructor recommendation





Welding & Metal Fabrication I

#27216

The first year will provide students with the fundamentals and basic skills needed to get into the field of welding and metal fabrication. Hands-on lab work will primarily include Shielded Metal Arc Welding (SMAW), some Metal Inert Gas Welding (MIG) and oxy acetylene cutting. The proper use of safety equipment, maintaining a safe working environment, safe working practices and other soft skills are also taught and strongly enforced. The curriculum follows standards set by the American Welding Society (AWS) and the National Center for Construction Education and Research (NCCER), each offers students with nationally recognized credentials.

Level: CP

Open to: 11, 12

Credit: 4

Integrated Credit:

Science, Math, Fine Art

Prerequisite: Students with respiratory/medical issues need a medical doctor's permission.

Eligible for Concurrent Enrollment:
EMCC

Welding & Metal Fabrication II

#27236

The second year classroom instruction will include complete coverage of blueprint reading and welding symbol interpretation. Basic metallurgy and weld-ability of different metals along with both the destructive and non-destructive examination of welds will also be covered. The lab work includes the continuation of mastering the SMAW process in all four positions. Students will also need to perform projects using Tungsten Inert Gas welding (TIG), and Flux Core Arc Welding (FCAW). Pipe welding will be introduced.

Level: CP

Open to: 12

Credit: 4

Integrated Credit:

Science, Math, Fine Art

Prerequisite: Successful completion of Welding and Metal Fabrication I and teacher recommendation.



Plumbing & Heating Technology I

#27256

Have you considered pursuing a challenging and a high-paying career in the plumbing and/or heating field? The plumbing and heating trades are one of the most attractive sectors of the skilled trades industry thanks to the good pay, varied work, and potential for advancement. The first year of this program offers students a nationally-recognized educational training curriculum that provides students a pathway to become a licensed plumber. This program also benefits students who are interested in mechanical engineering, HVAC and green power technologies. Year two of the program, you will be introduced to a career in heating technology. This challenging and relevant plumbing program prepares you towards the State of Maine Journeyman's License Exam, OSHA 10 Certification and preparation for LP & Natural Gas License and Refrigerant Certifications.

Level: CP
Open to: 11, 12 (10 with instructor permission)
Credit: 4
Integrated Credit: Science

Plumbing & Heating Technology II

#27366

Year two of the program, you can enjoy a fast track to a career in Plumbing Technology. This challenging and relevant program prepares you for the State of Maine Journeyman's License Exam for heating technologies. This program is a continuation of the first year plumbing course that expands into domestic water heating and space heating. Areas of study include building on plumbing principles and expanding into learning the basics of oil and gas heating systems. Students will learn to use the necessary tools to maintain, install, and troubleshoot heating systems. Boilers and furnaces will be worked on in the lab or at off-site locations. Students will be involved in the installation, maintenance, and adjustment of oil-fired and gas fired equipment. The heating labs will also involve learning piping, wiring, and control circuitry for domestic and space heating systems. Hydronic heat distribution units, such as baseboard and radiant floor tubing, will be installed as functioning heat zones in the lab. Solar, wood, and refrigeration will be explored as heating sources. Both courses use a nationally recognized curriculum with a national registry for qualified students (NCCER). Graduates have basic entry-level skills to enter the workforce or continue their education in plumbing and heating at a technical college.

Level: CP
Open to: 11, 12
Credit: 4
Integrated Credit: Science
Prerequisite: Successful Completion of Plumbing & Heating Technology I and teacher recommendation

Teaching & Early Education - AM Session

#25056

This class is an introduction to the world of education. Students will begin their understanding of human growth and development by studying children of all ages. Students will begin to understand the whole child's development which includes physical, cognitive, and social-emotional. Students will investigate teaching as a profession and how the field of education has changed. Students will be exposed to a variety of educational settings and may participate in field trips, job shadow opportunities, and community outreach. Students should expect to work with children, exercise communication skills, responsibility, dependability, and work well independently as well as part of a team. This course can be taken independently or as part of a two-year course of studies along with Teaching and Early Education. Industry Recognized Certifications: AHA First aid/ Infant/Child/Adult CPR and Mandated Reporting. Students whom successfully complete this program maybe eligible for a Maine Department of Education Educational Tech I certification.

Level: CP
Open to: 9,10, 11, 12
Credit: 4
Integrated Credit:
Social Science, ELA



“CTE prepares students for high wage, high skill, high demand careers.”

– ACTE

Teaching & Early Education - PM Session

#25026

This year-long college prep course is an exploration of a career working with children in an educational setting. This class prepares students for postsecondary education within a variety of pathways: classroom teacher, social worker, occupational therapist, physical therapist, or as a teacher in a child care program. Students engage in rigorous coursework which follows industry competency standards by adhering to best practice as outlined by the National Association for the Education of Young Children (NAEYC). Students run an on-site simulation preschool program (Mother Goose) and plan developmentally appropriate activities which are aligned with Maine's Early Learning & Developmental Standards. Students may also have the opportunity to job shadow and/or internship in a local child care program or in an elementary classroom. This course can be taken as part of a two-year course of studies along with Introduction to Education.

Industry Recognized Certifications: AHA First aid/Infant/Child/Adult CPR, ServSafe Food Handler, Mandated Reporting, and Health and Safety Basics.

Level: CP
Open to: 10, 11, 12
Credit: 4
Integrated Credit:
Social Science, ELA
Eligible for Dual / Concurrent Enrollment:
YCCC up to 6 credits

Health Assistant/CNA

#24017

This rigorous college preparatory course is for students who enjoy working with people and are considering a career in the healthcare field. All students in this program pursue nursing assistant training. Students have classroom and laboratory experiences at the Center of Technology and 40 hours of clinical experience at a local nursing home and hospital. This program provides a strong science foundation that prepares students to continue their education in any of the health care fields or to work as a certified nursing assistant. All successful students will be eligible to take the Maine State Nursing Assistant exam. Students can also earn their CPR/Basic Life Support Healthcare Provider Certification. Similar training elsewhere may cost a student in excess of \$1200, whereas high school students may take this program free of charge. Vaccinations required by clinical host sites.

Level:	CP/Honors
Open to:	11, 12
Credit:	4 (Honors level earns college credits)
Integrated Credit:	Science, Health
Prerequisite:	Biology and/or Chemistry. Students must be 16 years of age prior to the first day of classes at BRCOT.
Eligible for Dual / Concurrent Enrollment:	SMCC

“*Part of our mission is to help create the skilled workforce of the future.*”

– P. Bonneau, Director



Athletic Training/Sports Medicine

Sports Medicine is a program designed for students interested in health care fields such as athletic training, physical therapy, occupational therapy, fitness, kinesiology, nutrition, personal training and other sports medicine related fields. The course includes class work and practical hands-on application in the following areas: prevention, treatment, and rehabilitation of sports injuries, taping and wrapping of injuries, first aid/CPR, emergency procedures, nutrition, sports psychology, anatomy and physiology, and sports medicine careers. This program will include opportunities to earn industry certifications. Students are encouraged to include this course in part of the medical science career pathway at COT.

Level:	CP
Open to:	11, 12
Credit:	4
Prerequisite:	None

Emergency Medical Services

#24087

The Emergency Medical Services (EMS) Program provides students with skills necessary to respond to emergency calls, provide efficient and immediate care to critically ill or injured persons and transport patients to a medical facility. The EMT training program is a one-year course that includes classroom and hands-on education. Students receive instruction in anatomy and physiology and patient assessment. Extensive reading and written work is required. Upon successful completion of the course the student will be eligible to take the National Registry EMT written and skills exams. Successful completion of those exams will gain the student National Registry certification as an EMT Basic and make the student eligible to obtain licensure as a Maine EMT-B. Vaccinations required by clinical host sites.

Level:	CP
Open to:	11, 12 (Grade 10 with Instructor permission)
Credit:	4
Integrated Credit:	Science, Health
Prerequisite:	Student must be 16 years old at the start of the program
Eligible for Concurrent Enrollment:	SMCC



Introduction To Medical Science

#24056

This program prepares students to further their education on the professional or technical level in any of the 300+ health career fields. Students in this course learn human anatomy, physiology, and pathophysiology. Students will complete an independent study in a variety of healthcare fields. These students will take the National Healthcare Foundations Skills Assessment certification exam and will be prepared to make an informed decision regarding their healthcare career choice and their college major. Vaccinations required by clinical host sites.

Level:	CP/Honors
Open to:	11, 12 (10 with Instructor permission)
Credit:	4 (Honors level earn college credits for 12th grade students)
Integrated Credit:	Science, Health
Eligible for Dual / Concurrent Enrollment:	SMCC, YCCC

Did you know two-thirds of COT graduates attend post-secondary schools?



Recent Graduates Attended:

Arizona State University
Bentley University
Bridgewater State College
Carrol College Montana
Central Maine Community College
Colby Sawyer College
College of Central Florida
Eastern Maine Community College
Elmira College
Endicott College
Framingham State University
Husson University
Mason City
Lasell College
Lesley University
Florida State University
Maine College of Art
Maine Maritime Academy

Mercyhurst University
New Hampshire Technical
Institute
Northeastern University Northern
Maine Community College
Massachusetts College of
Pharmacy
Norwich University
Nova Southeastern University
Plymouth State University
Rensselaer Polytechnic Institute
Rivier College
Sacred Heart University
Southern Maine Community
College
Southern New Hampshire
University
St. Anslem College

St. Joseph's College
St. Michael's College
Suffolk University
Thomas College
Quinnipiac College
United States Army
United States Marine Corp
University of Colorado
University of Maine at Orono
University of Maine—Farmington
University of New England
University of Southern Maine
Unity College
York County Community College
Wentworth Institute of Technology
Stonehill College

Do you know COT students have career enrichment opportunities through the support of the following?

Advance Auto Parts
Age Friendly Biddeford
ALIGN
Allen Range Road Used Auto Parts
Arundel Ford
Associated Builders and Contractors of Maine
Astro Automotive
Atlantic Holdings
Aube-Plamondon Electric
Auto Zone
AVX Tantalum Corp.
Baker Company
Bank of Maine
Biddeford Animal Hospital
Biddeford Arena & Expo Center
Biddeford Athletic Association
Biddeford District Court
Biddeford Middle School
Biddeford Police Department
Biddeford Primary School
Biddeford-Saco Chamber of Commerce
Biddeford Saco Savings Bank
Biddeford/Saco Rotary Club
Bill Automotive
Bob's Auto
Boucher Electric
Bruce's Auto Service, Inc.
Builder's Supply
Camille's Electric
CarQuest
Casco Bay Steel
CIA Salvage, Inc.
Cianbro
Cisco Systems
City of Biddeford, Parks and Rec.
City of Biddeford, Public Works
Coastal Enterprises Inc.
Cumberland County Sheriff
Curlew Brothers
David Wood, Attorney at Law
Deering Lumber
Downeast Construction
Firestone Auto Care
Flotation Buoyancy
DSM Metal Fabrication
Dube's Drywall Supply
Dutch Elm Golf Course
Fairfield School
Gallant Electric

Gilman Electric Supply
Hancock Lumber
Heart of Biddeford
Heartwood Distributors
Huntington Commons
Hussey Seating
Husson University
Independence Auto, Inc.
Integrity Composites
IAPMD
Jim Godbout Plumbing
Jim's Auto Salvage, Inc.
Joe McKenney Photography
Joe Troegner's Auto Service
Johnson & Jordan Controls
Junaro, Inc
Just for Kids Dental Associates
Kennebunk Police Department
La Kermesse Franco-Americaine
MaineHealth
Mark Pollard Electric
Metso
Moody's Collision Center
MotorLand
Moulison Electric Inc.
Napa Auto Parts
Neil's Motors, Inc.
New England Building Materials
New England Tech Air
Northeast Electrical Distributors
Old Orchard Beach Police Dept.
Paulsen Tire
Pension Professionals
Pepperell and North Dam Mills
Pillsbury Plumbing
Portsmouth Naval Shipyard

Pratt & Whitney Precision Manufacturing Solutions
Prime Auto
Rod's Electric
Saco & Biddeford Savings Institute
Saco Bay Orthopedics
Saco Bay Rotary
Saco Biddeford Savings Bank
Saco Community Gardens
Saco Food Pantry
Saco Parks & Rec. Department
Saco Police Department
Saco Valley Auto Care
Sanford Police Department
Soleras LTD.
Southern Maine Community College
Southridge Rehab & Living Center
Standard Electric Supply
Sterling Rope
Spang Builders
St. Andre's Healthcare Facility
Sullivan Tire & Auto
Superior Paint & Supply
T+D Little Clouds, Scarborough
The Lincoln
University of New England
University of Southern Maine
Waterboro Elementary School
Wells Physical Therapy
Windham Police Department
York County District Attorney's Office
York County Superior Court



Career Possibilities

BRCOT classes are just the beginning! Your education and training here can launch your career path, whether you are planning on continuing your education or directly entering the workforce following graduation. In some programs, industry certifications can be earned that will bring immediate employment opportunities. You may also earn college credits, as many of the programs have credit bearing agreements with Maine colleges. Where will your BRCOT experience take you?

Business & Financial Management . . . 6-7

Accountant
Business Owner or Manager
Financial Advisor / Planner
Sports Manager
Insurance Agent
Stock Broker / Analyst
Bank Loan Officer
Project Manager
Purchasing Agent
Bank Operations / Branch Manager
Real Estate / Property Manager
Supervisor / Mid-level Manager

Computer Technology 8-9

CyberSecurity Specialist / Analyst
Programming Specialist
Network Administrator
IT Administrator
Graphic Designer
Marketing & Communications
Software Engineer
Tech Support Specialist
Video Game Designer
Information Architect
IT Consultant
Cloud Architect
Computer Forensic Investigator
Mobile App Developer
Web Developer

Culinary & Hospitality 14-15

Executive/Private Chef
Pastry/Banquet Chef
Corporate Procurement Manager
Food Stylist / Photographer
Food Critic / Blogger
Expediter
Instructor
Sports & Concert Arena Concessions Supervisor
Cruise Ship or Airline Chef
Gourmet Food Store Owner
Military Cook
International Travel Consultant
Meeting & Event Planner
Restaurant/Hotel Operations Manager/Owner
Wedding Planner
Travel Agent / Tour Guide
Reservation Agent or Flight Attendant

Engineering & Architectural Design 16-17

Mechanical Engineer
Aeronautical Engineer
Architecture
Civil Engineer
Computer Engineer
Interior Designer
Environmental Engineer
Robotic Engineer

Auto Body, Automotive Technology & Power Equipment 18-19

Automotive Repair
Service Estimator
Small Engine Tech
Motorcycle/ATV Tech
Shop Owner
Automotive Dealer
Transmission Tech
Service Manager
Engine Rebuilder
Auto Body Restorer/Refinisher
Vehicle Detailer
Vehicle Painter
Used Car Reconditioner
Insurance Adjuster

Residential Construction 20

Carpenter
General Contractor
Project Manager
Roofer
Drywall Installation & Finishing
Insulator
Flooring Installation
Tiler
Cabinet Maker
Cost Estimator

Electrical Technology 21

Electrician
Electrical Contractor
Electrical Engineer
Electrical Sales
Electronics
Security / Fire Alarms Technician
Appliance Repair
Military
Utility Line Worker
Alternative Power Technician
Manufacturing
Wind Turbine Technician

Manufacturing Technology 22

Machinist
Setup Technician / CNC Operator
Repair Tech
Tool & Die Maker
Mold Maker
Mechanical Engineer
Shop Manager / Owner
Manufacturing
Engineer
Electro Mechanical
Machine Assembler

Welding & Metal Fabrication 23

Technician/Engineer
Welder Fitter/Cutter
Fabricator
Welding Inspector
Maintenance Welder
Production Welder
Pipe Welder
Structural Welder
Welding Tester
Welding Supervisor
Boiler Maker Welder
Industrial Machine
Structural Metal Fabricator
Metalsmith

Plumbing & Heating 24

Residential Plumber
Mechanical engineer
Architecture
Pipefitter and Steamfitter
Civil Engineer
Construction Project Manager
HVAC Technician

Teaching & Early Education 25

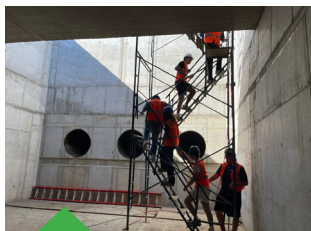
Teacher
Nanny
Psychologist
Counselor / Social Worker
Speech/Language Pathologist
Occupational / Recreational Therapist
Child Care Worker / Child Care Owner
Recreation Worker
Librarian
Nutritionist

Medical 26-27

Registered Nurse / Nurse Practitioner
Certified Nursing Assistant
Physician / Physician Assistant
Occupational / Physical Therapy
Dental Hygienist / Dentist
Emergency Medical Technician
Optometrist / Optician
Veterinary Technician / Veterinarian
Radiologic Technologist / Sonographer
Laboratory Technician / Phlebotomist
Counselor / Social Worker
Pharmacy Technician / Pharmacist
Athletic Trainer / Personal Trainer
Sports Medicine

“
When students discover what they are naturally wired to do and can align education with real, in-demand skills, they gain purpose and confidence.”

– Edson Borstan, CEO of YouScience



Teaching & Early Education

Page 25



Plumbing

Page 24



Business Education

Page 6

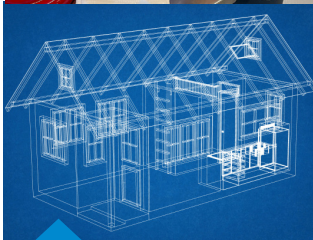


Culinary Arts

Page 15

Introduction to Medical Science

Page 27



Auto Body Technology

Page 18



Tiny Home Construction

Page 11



Engineering & Architectural Design

Page 16

Plus More Classes Inside!

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