Welcome to BRCOT! Get a jump on the competition and start on your career pathway now.

The Biddeford Regional Center of Technology (COT) offers career and technical education for students from the local high schools. We provide education and training that will support and guide you on your career path, whether you are planning to continue your education or directly enter the workforce following graduation. In some programs, students may earn industry certifications that will bring employment opportunities and you may also earn college credits, as many of the programs have credit bearing agreements with Maine colleges.

Our classes are designed to integrate a rigorous program of academic study with a hands on career and technical education. Students work under the close supervision of competent instructors that stress “learning by doing.” The atmosphere in all our classes is one that simulates real working conditions found in the career pathway. All of our programs are college prep or honors level courses that prepare you for postsecondary education and a competitive advantage when entering the workforce. We maintain strong ties to the business community, two and four year colleges, and community based organizations. We help you work on your future and we are prepared to help you achieve the goals you have set forth for yourself in work, learning and life.

Is BRCOT right for you?

Making decisions to attend a career and technical program might be just one of the most important decisions in your life thus far! But how do you know if attending BRCOT is right for you?

It is simple, really. Start by answering these questions:

- Do you love a good challenge?
- Do you learn best when your mind and hands work together?
- Do you like to learn in a small class room environment?
- Do you have a particular interest or career pathway you want to pursue?
- Do you have high expectations of yourself?
- Do you believe it is never too early to map your future?

If you answered “YES” to any of these questions, then you may have found the kind of learning you have been searching for. Continue reading about our program offerings and how to apply to BRCOT. Please contact us anytime as we are always happy to talk to you about BRCOT and you!

Paulette Bonneau
Director
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, and Old Orchard Beach 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. A potential BRCOT student should also meet the prerequisite academic requirements for the specific program he or she is requesting.

All students who would like to enroll in a BRCOT career and technical program must complete a BRCOT application for consideration. The application is online at http://biddeford.mainetc.org. Acceptance is a shared decision between the Guidance Department at your high school and the Center of Technology. Potential applicants are strongly encouraged to visit the BRCOT program they are interested in to make an informed decision. For more information you can contact our office 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 on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access to designated youth groups. If you have questions, have witnessed, or experienced acts of discrimination based on these criteria and wish to express a grievance please contact our Title IX/504 Coordinator, Tiffany Jackson, at 207-282-8280, or at tjackson@biddefordschools.me. Students attending Old Orchard Beach High School can contact Asst. Principal, Eric Hanson, at 207-934-4461, Thornton Academy students can contact Associate Headmaster Marsha Snyder at 207-282-3361 to express a Title IX/504 Grievance.
BRCOT is Learning that Works for Life!

Meet Your Graduation Requirements
Did you know that as of January 1, 2017, a diploma indicating graduation from a secondary school must be based on a student’s demonstration of proficiency? You are allowed to gain mastery through multiple pathways and successfully completing courses. BRCOT is one way to meet your graduation requirements.

Rigor and 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. 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. Likewise, the credits are fully transferrable to most other post-secondary schools. 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 transferrable (there may be a small processing fee) to most other post-secondary colleges and universities.
Student Leadership Council

- Would you like to represent the student body to the community and school officials?
- Do you want to identify and advocate students’ concerns?
- Are you interested in assisting the school in advancing its mission?

An active Student Leadership Council (SLC) represents students from each program at the Center of Technology. SLC is involved in community projects, fund-raising, student advising on COT policies, and special events—such as the annual COT Awards Banquet. This voluntary group represents both morning and afternoon students.

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 were awarded at our annual year-end banquet. Local business and community organizations continue to recognize the value of investing in our students and their post-secondary education. Last year’s scholarship offerings included some, but not limited to:

- Cheryl D'Amico Scholarship
- Biddeford-Saco Rotary Scholarship
- Boucher Electric Scholarship
- Browne Scholarship
- Chantigny's Family Scholarship
- Dutch Elm Golf Course
- Don Elie Scholarship
- Elie Family Scholarship
- Gerard Chantigny Scholarship
- Joanna WRBA Scholarship
- John Gelines Memorial Scholarship
- Kerry Anton Memorial
- Maine Blue Collar Scholarship
- Mel Gay Memorial
- MELMAC
- Normand J. Audie Memorial
- Pratt and Whitney
- Raymond Cyr Memorial
- Saco Bay Rotary
- Saco & Biddeford Savings Institution
- St. Louis Alumni
- YCCC Rotary Scholarship

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.
Do you want to learn how to run a business and make a profit? Do you like working with and managing money? This Business Academy career program will provide you with broad knowledge to help you excel in any business-related field or college program. Courses include Accounting I & II, Business Management/Entrepreneurship, Investing & Personal Finance that lead to an industry verified and recognized Program Certificate and possibly internship opportunities. Students will participate in statewide and national finance and management competitions such as Junior Achievement’s computerized statewide business competition – The JA TITAN Challenge and SIMFA’s Stock Market Game. Real-world applications and computer programs, MS Excel and QuickBooks will be used. Students will explore the vast world of Business and the possible career paths and compensation expected. Career path possibilities include: Accountant/CPA, Auditing, Forensic Accounting, Business Owners/Managers, Financial Advisors/Planners, Sports Management, Customer Relation Representatives, Insurance Agents, Risk Management, Stock Brokers/Analysts, Bank Loan Officers, Project Managers, Operations/Branch Managers, Real Estate/Property Managers, and Payroll, Accounts Payable or Receivable Clerks. This is a Dual Enrollment program where Juniors and Seniors who have maintained a 2.5 GPA may earn free college credits offered (see below) that are transferable to most post-secondary institutions.
**Accounting I (#21016)**

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. **Students can gain a Math & Social Science credit at BHS for graduation by taking this course.**

Earns 3 transferable college credits at Thomas College for AC111.

**Accounting II (#21026)**

A continuation of the concepts covered in Accounting I, with a focus on preparing and analyzing the financial statements for merchandising businesses organized as partnerships and corporations. Students will also learn how to calculate and enter employees’ payroll and employer’s payroll taxes. There will be an emphasis on the special accounting procedures for uncollectible accounts, loans, depreciation, inventory and taxes. Financial statement analysis of the business’ liquidity, profitability and financial strength which promote intelligent decision-making will occur throughout. **Students can gain a Math & Social Science credit at BHS for graduation by taking this course.**

Earns 3 transferable college credits at Thomas College for AC112.

**Business Management/Entrepreneurship (#21036)**

Learn how to establish, organize, promote and manage a business. Students will gain the fundamental understanding of skills needed to start 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 as well as techniques to become effective communicators and decision-makers. **Students can gain a Social Science credit at BHS for graduation by taking this course.**

Earns 3 transferable college credits at Thomas College for MG224.

**Investing & Personal Finance (#21056)**

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. Students can gain two credits from the following disciplines; Math, Financial Literacy & Social Science credit at BHS for graduation by taking this course.

Earns 3 transferable college credits at SouthernMaine Community College for BUSN115.

**Open to:** Grades 11 & 12  
**Level:** CP or Honors  
**Credit:** 4 (Honors level may earn 12 college credits)  
**Prerequisite:** For the motivated students interested in owning their own business, working in supervisory management or attending college for Accounting, Finance, or Management which are some of the fastest growing fields for employment.  
**For Honors/college credits** you must have a minimum 2.5 cumulative GPA and satisfactory attendance records.
Information Technology Programs

Would you like to get things done faster and more efficiently? Do you want the skills to succeed in today’s technological world? Biddeford Regional COT is offering two comprehensive programs in the field of 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 these program(s) may lead to industry certifications. Completion of these program(s) earn a COT Certificate of Completion in Business Information Technology: Computer Technology or Business Technology. Career path possibilities include: Programmer, Software Engineer, Tech. Support Specialist, Video Game Designer, Information Architect, Hardware Specialist, Graphic Designer, Business Manager, Computer Office Assistant. Up to 12 free college credits offered transferable to most post-secondary institutions for juniors and seniors.

Level: CP or Honors
Open to: Grades 9, 10, 11 & 12
Prerequisite: Motivated students interested in acquiring the technological skills to efficiently operate their own business or assist in college coursework.

Information Technology

Data. It’s all about data. It doesn’t matter if it is data stored in a financial database or the data conveyed in the most popular meme. It’s all the same. How do we create it? How do we store it? How do we use it? How does it impact the world around us? Being proficient in the world of data opens untold career opportunities as well as promoting a meaningful life. Not only do students study how Information Systems are built and maintained, but the social and ethical implications of their use. Career path possibilities include: IT Consultant, Cloud Architect, Computer Forensic Investigator, Health IT Specialist, Mobile App Developer, Web Developer, Software Engineer, and many, many others- some haven’t even been thought of, yet. Up to 12 free college credits offered transferable to most post-secondary institutions. No prior computer experience is necessary. We will start wherever you are.
**Information Technology I (#22096)**

Study, design, implement, support, and maintain computer-based information systems with a focus on the Hardware, Software, Operating Systems, Networks, and Databases which we rely on every day to lead meaningful and productive lives. In addition to surveying popular coding languages such as Python and SQL, creating “real world” solutions for our school and community, and having gigafun, students will have the opportunity to earn some basic networking and coding certifications and to develop a Technology Based Portfolio which they can use to advance their academic and employment careers. And, no modern Computer Technology class is complete without developing critical and creative thinking skills, and considering the social and ethical implications of technology. Such as, “What is the difference between data and information? Can we predict the impact of new technologies? What can my bank/school/hospital do with my personal information? Or, how does the Digital Divide hurt economic development?” We want to do more than just hack away at our keyboards or crimp Cat 6 cables. We want to use our Computer Technology knowledge for good. You do not need to have any prior experience in computers or technology in order to be successful in this class. **Students can gain a Fine Arts credit at BHS for graduation by taking this course.**

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<th>Level:</th>
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<tr>
<td>Open To:</td>
<td>Grades 9, 10, 11 &amp; 12</td>
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<tr>
<td>Credit:</td>
<td>2</td>
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<td>Prerequisite:</td>
<td>None</td>
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**Information Technology II (#22196)**

For students who have successfully completed **Information Technology I** or **Business Technology**, this class is the opportunity to fine-tune skills in a variety of situations- web design, help desk support, graphic design, app development, etc. We will apply our knowledge to all areas within the Center of Technology (ie. How does Computer Technology work within Auto Body Repair, Plumbing or Early Childhood Education?) and outside our school as well (health care, Artificial Intelligence, etc.). Emphasis will be on developing practical solutions to “real world” problems. Students will prepare for more certifications of their choice (CompTIA+, Microsoft Office Specialist, and other third-party certifications) and will end the two-year Computer Technology program understanding how to use Information Technology and how they can shape their world with it. **Students can gain a Fine Arts credit at BHS for graduation by taking this course.**

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<tr>
<td>Credit:</td>
<td>2</td>
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<tr>
<td>Prerequisite:</td>
<td>None</td>
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“**The number one benefit of information technology is that it empowers people to do what they want to do. It lets people be creative. It lets people be productive. It lets people learn things they didn’t think they could learn before, and so in a sense it is all about potential.**”

— Steve Ballmer
Business Technology (#22106)

Also known as “How to Win Friends and Influence People,” Business Technology is an exploration of the most popular programs used in the modern business world. This class will focus on Microsoft Office 2016 (Word, Excel, and PowerPoint) and Adobe CS6 (PhotoShop, Illustrator, InDesign, and DreamWeaver) with some work in Google Docs, Sheets, and Forms. We will also explore HTML5, CSS, Brackets, BootStrap, hosting solutions, and analytics to complement our web design capabilities. Students will take what they learn in the classroom and apply it in the world around them by actively seeking out problems in need of solutions. They will be building a personal portfolio of their projects they can use when applying to jobs or colleges. Additionally, students will have the opportunity to earn Microsoft and Adobe certifications in each respective application. By the time students are finished, they should frequently hear people say, “What?!? You know how to use (fill in the blank).” And the student should be able to respond, “Of course! In fact, I’m certified in (fill in the blank).” You do not need to have any prior experience in computers or technology in order to be successful in this class. **Students can gain a Fine Arts, Math or Social Science credit at BHS for graduation by taking this course.**

This is a Dual Enrollment course - Juniors & Seniors may earn 9 free college credits offered from Thomas College (CS115, CS140, and MS120) transferable to most post-secondary institutions.

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<td>Open to:</td>
<td>Grades 9, 10, 11 &amp; 12</td>
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<tr>
<td>Credit:</td>
<td>2 (Honors level may earn 9 college credits Jr/Sr only)</td>
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<tr>
<td>Prerequisite:</td>
<td>None</td>
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Technical Reading and Writing (#21066)

This course is designed to develop student language, reading and composition skills in a manner relevant to the student’s CTE course content. Emphasis is given to reading strategies, student success strategies, and technical writing.

Using a learn-by-doing approach, students are introduced to the methods of writing used in business and technical documents. They will study and practice various forms of technical communication such as brief correspondence, informative reports, investigative reports, instructions, employment communication, recommendation reports, and proposals. Students will also study workplace ethics. This course meets the Senior English requirement. **Students can gain a Social Science or an ELA credit at BHS for graduation by taking this course.**

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<tr>
<td>Open to:</td>
<td>Grade 12</td>
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<tr>
<td>Credit:</td>
<td>1</td>
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<tr>
<td>Prerequisite:</td>
<td>Preference is given to students enrolled in COT programs</td>
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Intro to Programming (#17106)
This is an exploratory course to introduce a variety of programming software, the concepts of programming, and application development. Students will gain a basic background of standard computer logic, which will enhance problem-solving skills. A variety of software, including robots will be used for learning how to read and write programs. Scratch, BASIC, C++, and Java will be explored.

Level: CP  
Open to: Grades 9, 10, 11 & 12  
Credit: .5  
Prerequisite: None

Graphic Communications (#12346)
This course introduces students to the computer as a tool for creating and designing digital artwork and limited animation. The purpose of this course is to introduce the students to the hardware and software available and to have them apply the theory of design to practical application and production on the computer. Projects include lessons in typography, logo building, page layout, scanning, duplicating and digital imaging. Customer support skills are developed by live design jobs including brochures, logos, newsletters, signs and textile printing. This is an introductory class to give students exposure to a potential BRCOT program.

Level: CP  
Open to: Grades 9, 10, 11 & 12  
Credit: .5  
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: Grades 9, 10, 11 & 12  
Credit: .5  
Prerequisite: None
Legal Studies (#26016 & 26026)

This Business Academy Career Program prepares students to be a step ahead in their college classes in pursuit of careers in law, criminal justice or in the business world, and/or to help prepare for entry level positions in these fields.

Even If You Are Not Sure What Career Is Best For You, This Is The Program To Take!! You will acquire valuable information to help you make that important career decision and/or help determine your college major. Numerous speakers in these fields: attorneys, State Police, U.S. Marshals, DEA, Homeland Security, District Attorneys, FBI, detectives, CSI, game wardens and others will be invited to class to facilitate career exploration. Field trips are anticipated to be taken to Saco Police Department, Cumberland County Jail, Biddeford District Court and York County Superior Court. Job shadows are available subject to business approvals.

This program covers legal terminology, business, consumer, civil and criminal law. Court procedures, Internet legal research, current events, learning your rights, computer/legal applications, and employment skills inclusive of: professionalism, resumes, cover letters, reference lists and interview skills are also covered. A business education certificate for Legal Studies and four high school credits will be issued upon successful completion of this program. FREE college credits may be earned by taking this class. Currently up to nine (9) + credits may be earned for dual enrollment, advanced standing & articulated college credits. Dual enrollment/advanced standing college credits are transferable to most other colleges and universities. Currently agreements with the following colleges/universities are set up: SMCC, YCCC, CMCC and Husson University. Other college agreements may be added throughout the school year; check with the instructor for specific details. Students can gain a Social Science credit at BHS for graduation by taking this course.

| Level:     | CP or Honors |
| Open to:   | Grades 11 & 12 (Blocks 1 & 2) |
| Credit:    | 4 (Honors level earns college credits |
| Prerequisite: | A strong work ethic and a genuine interest in a career in the legal/criminal justice or business fields |
Medical Assisting (#24036 & 24046)

This Business Academy Career Program prepares students to be a step ahead in their college classes in pursuit of careers in the medical field, the business world and/or to help prepare for entry-level positions in these fields.

Even If You Are Not Sure What Career Is Best For You, This Is The Program To Take! You will acquire valuable information to help you make that important career decision and/or help determine your college major. Students are eligible to do an approximately 25+ hour area of interest clinical/job shadow (i.e.: radiology, dental, nursing, medical assisting, athletic trainer, veterinary) experiencing actual work in that field (subject to business availability). Additionally, numerous speakers are invited into class and tours of local health care facilities will expose students to a variety of future health care career possibilities.

Topics covered are: patient care, medical terminology, basic anatomy and physiology, diagnostic clinical procedures, CPR and basic life support certifications; Microsoft - Word, Excel, PowerPoint and Access; medical laws, ethics, scheduling, medical coding, billing, current events, varied medical office procedures and much more! Additionally, employment skills inclusive of: professionalism, resumes, cover letters, reference lists and interview skills are also covered.

A business education certificate for Medical Studies and four high school credits will be issued upon successful completion of this program. Additionally, FREE college credits may be earned by taking this class. Currently up to six (6) + credits may be earned for dual enrollment and articulated college credits. Dual enrollment college credits are transferable to most other colleges and universities. Currently agreements with the following colleges/universities are set up: SMCC, YCCC, and CMCC. Other college agreements may be added throughout the school year; check with the instructor for specific details. Students can gain a Life Science and Health credit (if not completed previously) at BHS for graduation by taking this course.

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<tr>
<td>Open to:</td>
<td>Grades 11 &amp; 12 (Blocks 3 &amp; 4)</td>
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<tr>
<td>Credit:</td>
<td>4 (Honors level earns college credits)</td>
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<tr>
<td>Prerequisite:</td>
<td>A strong work ethic and a genuine interest in a career in the medical or business fields.</td>
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Career Pathways Program

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. **Students who excel in career exploration are given priority placement in CTE programs.**

Career Development 1 (#28017)

Career Exploration is open to Freshmen, Sophomores and Juniors who are looking to strengthen their intrapersonal, communication, problem-solving, and self-advocacy skills for the workplace.

Working with peers, instructors and outside businesses, students are exposed to hands-on career exploration strategies, including future planning and job search skills. Students learn intrapersonal communications and conflict resolution strategies while learning what constitutes appropriate behavior in the workplace. Students will identify and leverage personal strengths and learning styles to apply, interview and obtain a job shadow opportunity. Students are exposed to financial literacy concepts such as paying taxes, as well as saving and spending within a budget.

Students are responsible for conducting a self-inventory, researching a career field, identifying and interviewing a professional in the identified field and securing a job shadow opportunity. Students are required to survey and study OSHA requirements in their chosen field of interest and may begin to build a portfolio of skills towards a specific industry. By the end of the course, students will create a career map for moving forward. This course meets the Career and Education Development standards put forth by the Department of Education. **Students can gain half an ELA credit at BHS for graduation by taking this course.**

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<td>Open to:</td>
<td>Grades 9, 10 &amp; 11</td>
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<tr>
<td>Credit:</td>
<td>1</td>
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<td>Prerequisite:</td>
<td>None</td>
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Career Development 2 - Extended Learning / Internship (#28027)

Career Development Extended Learning Opportunities (ELO) provide an opportunity for students to 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.

An ELO can include a short or long-term project, paid or unpaid Internship or company sponsored Apprenticeship. An individual ELO opportunity is based on an agreement developed amongst an employer, a student, and BRCOT Career Pathways staff. Students work in a supervised workplace during designated days of their COT course block under the supervision of a business mentor, returning to school at regular intervals to assess skills and progress.

The program is available to Seniors who are enrolled in a CTE program for a minimum of 2 years and exceptional Juniors who have completed a 1-year program. (Special consideration can be made for students who obtain a job placement in a field not currently offered at BRCOT). Students must be recommended by their instructor and be at proficiency level in their technical education skill level, academic grades, attendance, and conduct records. Students must have OSHA training and required employability certifications.

Students participate in a Career Development ELO during their CTE or High School blocks, or after school. While working in an ELO, students must maintain good attendance and academic performance outside of the ELO. Students will participate in weekly online class discussion and check in regularly for industry required testing and assessment with BRCOT program instructor or Career Pathway Coordinator. Credits awarded will be based upon the amount of hours in the field.

Students can gain half an ELA credit at BHS for graduation by taking this course.

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<tr>
<td>Open to:</td>
<td>Grades 10, 11, 12</td>
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<tr>
<td>Credit:</td>
<td>Up to 2 credits annually</td>
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<tr>
<td>Prerequisite:</td>
<td>Career Exploration 1 or recommendation from instructor.</td>
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Auto Body Technology I (#27016 & 27026)

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. **Students can gain a Fine Arts credit at BHS for graduation by taking this course.**

**Level:** CP  
**Open to:** Grades 11 & 12  
**Credit:** 4  
**Prerequisite:** Strong Math and Writing skills are suggested. Students with respiratory ailments need medical doctor’s permission.

Auto Body Technology II (#27036 & 27046)

Auto body 2 covers the refinishing part of the industry. Students learn proper metal treatment, priming, paint mixing, alternate colors, paint matching, paint blending, basecoat and clearcoat 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. Upon successful completion of Auto Body II, the student will be employable at the entry level technician or further their education in a technical college. **Students can gain a Fine Arts credit at BHS for graduation by taking this course.**

**Level:** CP  
**Open to:** Grade 12  
**Credit:** 4  
**Prerequisite:** Strong Math and Writing skills are suggested. Successful completion of Auto Body Technology I and Instructor recommended.
Automotive Technology I
(#27056 & 27066)

Due to the highly technical nature of today’s automotive industry, students will need to be able to locate, identify and understand automotive related nomenclature. While not a writing intensive course, students will be expected to complete short writing assignments and clearly articulate technically written text. Students must be self-motivated, and able to work independently as well as in groups. 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. Students can gain a Physical Science, Fine Arts or an ELA credit at BHS for graduation by taking this course.

Level: CP
Open to: Grades 11 & 12
Credit: 4
Prerequisite: Students must have successfully completed Algebra 1 or Pre-Algebra. Strong reading, writing, and science skills are suggested. Have good gross and fine motor coordination. Have excellent high school attendance and discipline record.

Automotive Technology II
(#27076 & 27086)

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 drivetrain, 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 biofuels. Students will learn how to troubleshoot performance issues using hand held scanners and researching online automotive repair manuals and databases. Successful second year students may be placed in off site settings while earning credit. Articulated college credits are available to students who continue their education at Southern Maine Community College, Central Maine Community College, Lakes Region Community College. Students can gain a Physical Science, Fine Arts or an ELA credit at BHS for graduation by taking this course.

Level: CP
Open to: Grade 12
Credit: 4
Prerequisite: Permission of instructor, successful completion of Automotive Technology I, continued excellent high school attendance and discipline record.
Basic Carpentry (#17026)

Carpentry and the building of homes is a vital part to our economic stability. Students will explore and learn the required skills to construct basic projects that relate to the building trades. There are several related issues and topics such as economics, science, engineering and math that will be discussed. Other skills that will be learned will be the safe and proper use of hand tools, portable power tools and power machines. Strict safety requirements and practices will be expected and adhered to at all times.

**Level:** CP  
**Open to:** Grades 9, 10, 11 & 12  
**Credit:** .5  
**Prerequisite:** None

Residential Carpentry I  
**Level:** CP/300 (#27096 & 27106)  

The curriculum for the Residential Carpentry I and II 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. If you want to learn how to build a house, this is the place for you! Residential Carpentry I covers fundamentals required to engage in the building process. Positive work habits and employable skills are suggested. 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. The primary focus of the curriculum and projects will be the fundamentals of framing. **Students can gain a Math credit at BHS for graduation by taking this course.**

**Level:** CP  
**Open to:** Grades 11 & 12  
**Credit:** 4  
**Prerequisite:** Successful completion of Residential Construction I or instructor permission

Residential Carpentry II  
**Level:** CP/300 (#27116 & 27126)  

The curriculum of the Residential Carpentry I and II 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. If you want to learn how to build a house, this is the place for you! 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. Once a class has reached a level of competency they may have the opportunity to work on a Renovation Project within the community. Students will then be engaged in all aspects of residential construction required to restore a local home to its previous grandeur. The projects are complex and challenging, making the class dynamic, fast paced, fluid and diverse. Students must possess the competencies, creativity, maturity and desire to work in such a demanding environment. Students can earn their OSHA 10 certification. At the conclusion of the two-year program students will have the skills to enter the field of residential construction and/or continue their education at the postsecondary level. **Students can gain a Math credit at BHS for graduation by taking this course.**

**Level:** CP  
**Open to:** Grades 11 & 12  
**Credit:** 4  
**Prerequisite:** Strong math and interpersonal skills
Trade and Technical Programs

Welding and Metal Fabrication I
(#27216 & 27226)
The first year of the Welding and Metal Fabrication program 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. Students are required to perform SMAW welding on five of the common joints encountered in the welding field. These five joints are each required to be welded in the flat, horizontal, vertical and overhead positions. Being able to consistently weld a joint to industry standard can only come with repetition from hours of practice. Properly setting up and operating an oxy acetylene cutting torch is also needed. Each project will need to be cut in half using the torch so a cross section of the weld can be inspected. Students will also need to safely operate angle grinders. During the class, the curriculum follows standards set by the American Welding Society (AWS) and the National Center for Construction Education and Research (NCCER) each which offers students with nationally recognized credentials. Successful students may earn their Occupational Safety and Health Administration (OSHA) 10 Certification. Students can gain a Math, Fine Arts & Physical Science credit at BHS for graduation by taking this course.

Level: CP
Open to: Grades 11 & 12
Credit: 4
Prerequisite: Basic math skills. Students with respiratory/medical issues need a medical doctor’s permission

Welding and Metal Fabrication II
(#27236 & 27246)
During the second-year classroom instruction will include complete coverage of blueprint reading and welding symbol interpretation. Basic metallurgy and the weldability 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). Some pipe welding can also be performed if they progress far enough. Students will be able to take a number of AWS welding tests depending on how far they have progressed at the end of the program to obtain a national certification. Upon the successful completion of the Welding and Metal Fabrication I and II programs the student will be employable at the entry welding/metal fabrication level. They will also be able to move on to studying the welding field further at a post-graduate level. Students can gain a Math, Fine Arts & Physical Science credit at BHS for graduation by taking this course.

Level: CP
Open to: Grade 12
Credit: 4
Prerequisite: Successful completion of Welding and Metal Fabrication I
Manufacturing Technology 1
(#27176 & 27186)
Do you like to make or create things from raw materials using machines? Do you know that many local companies like AVX, General Dynamics, Pratt & Whitney, Arundel Machine, McAllister Machine, and more are currently hiring in this career field? This course will allow you to practice entry level skills that are in high demand. You will learn how to apply the math (fractions/decimal inches, X Y Z coordinates) and geometry that you’ve studied in school to create parts from a variety of materials like steel, aluminum, brass, wood, and plastic. This is a program where you will learn how to setup, and operate a variety of machines to remove material (subtractive machining) to make finished parts from start to end, while reading blueprints. You will learn how to use and run CNC (Computer Numerical Control) machines. This program has recently acquired four new, modern, ProtoTRAK- 3 axis (X Y Z) milling machines. Learn how to use these fantastic, computer driven machines to make three-dimensional parts, that are used in all types of industries, such as Medical, Automotive, Robotics, Aviation, and more. Learn the fundamental skills in operating machinery like: a manual lathe, milling machine, surface grinder, CNC lathe, and CNC Milling Centers. TOOLING U software will be used to enhance your experience. Related classroom discussions will stress safety, blueprint reading, the Cartesian coordinate system and correctly using precision measuring tools. Students will earn their OSHA 10 certification. **Students can gain a Math credit at BHS for graduation by taking this course.**

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Manufacturing Technology 2
(#27196 & 27206)
Precision Machining II is a continuation of the first course where students will continue to improve their skills for employment. This year you will learn how to program those computerized milling machines (CNC) by learning its computer language (FANUC) to create metal parts to an accuracy of plus or minus the thickness of a sheet of paper. We will take field trips to local manufacturing facilities to see state of the art equipment being used to make high quality (and high value) parts for the aerospace, military, and medical industry. Students may also co-enroll in the Engineering program at COT to further expand their experience. Students who successfully complete this program will be employable before graduation at many local manufacturers. **College credits are available to successful two-year program completers who choose to continue their education at any Maine Community College in the field.**

**Students can gain a Math credit at BHS for graduation by taking this course.**
Trade and Technical Programs

Plumbing Technology (#27256 & 27266)
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. Through classroom activities and hands-on labs, students will study on-the-job safety, plumbing theory, residential and commercial plumbing techniques, and plumbing installation requirements. Seniors may elect to return for year two as a post grad. The NCCER curriculum offers students the ability to continue their training after high school at locations across the country. Projects may include work outside the lab on new construction or renovation sites with actual on-the-job training. The plumbing course includes education in: jobsite safety, proper trade tool operation, plumbing materials, drainage and venting systems, storm drainage systems, potable water systems, plumbing fixture installations, backflow principles, reading and creating construction plans, estimating project materials and costs, and understanding the State of Maine Uniform Plumbing Code. Successful students may earn their OSHA 10 certification. Positive work habits and employable skills are stressed in this program. Students can gain a Physical Science credit at BHS for graduation by taking this course.

Heating Technology (#27276 & 27286)
Year two of the program, you can enjoy a fast track to a career in heating technology. This challenging and relevant heating program prepares you for the State of Maine Journeyman’s License Exam for heating technologies. Heating Technology 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 offsite 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. Graduates have basic entry-level skills to enter the workforce or continue their education in plumbing and heating at a technical college. Students can gain a Physical Science credit at BHS for graduation by taking this course.

Level: CP
Open to: Students completing Plumbing I
Credit: 4
Prerequisite: Successful completion of Plumbing Technology or permission of instructor. Students need to have strong math, reading, and interpersonal skills, and be able to work both independently and as part of a team.
Trade and Technical Programs

Engineering, Architecture, and Design Program at the BRCOT

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 6 college credits while in high school? If you have an interest in the most powerful design software, this is a course for you! Be a part of “The Next Industrial Revolution.” Design and make complex objects with our state of the art 3-D 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, and also learn 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. Students can gain credits from the following disciplines: Math, ELA, Fine Arts & Physical Science credit at BHS for graduation by taking this course.

Level: CP or Honors
Open to: Grades 9, 10, 11 & 12
Credit: 4 (Honors level may earn 6 college credits Jr/Sr only)
Prerequisite: No prerequisite (for Honors/college credits you must meet the enrollment qualifications for SMCC - see the instructor for details).

See more about the program and Like us on Facebook @ Biddeford Regional Center of Technology Engineering and Architectural Design

Project Lead The Way: Introduction to Engineering Design (#23046)

In Project Lead The Way Engineering, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world’s top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning postsecondary education or careers. Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. Students can gain a Math & Physical Science credit at BHS for graduation by taking this course.

Level: CP
Open to: Grades 9, 10, 11 & 12
Credit: 2
Prerequisite: None
Engineering & Architectural Design (#23026)

This course will involve the production of 2D and 3D technical drawings that meet industry standards using AutoCAD and Revit CAD software. 3D printing, model building, sketching, and mechanical tool drawing will be covered. As students create drawings in different formats, emphasis will be placed on precision and accuracy, use of symbols, line types, line weights, orthographic projection, multi-view placement, text format, dimensions, section views, auxiliary views, isometric views, and plotting accuracy. A variety of design fields will be reviewed with an emphasis on ASME graphics standards. Students can gain credits from the following disciplines; Math, ELA, Fine Arts & Physical Science credit at BHS for graduation by taking this course.

This course is dual enrolled with SMCC for 3 college credits. Qualified juniors and seniors will earn 3 transferable college credits at SMCC for AEDD 105. These college credits are approved for transfer as core electives to: UMO, USM, UMA, UMM, YCCC, and CMCC.

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<tr>
<td>Prerequisite:</td>
<td>No prerequisite (for Honors/college credits you must meet the enrollment qualifications for SMCC -see the instructor for details).</td>
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Engineering & Architectural Design Independent Study (#23076)

For students with a strong desire to enter into an engineering or architectural career. This is a project based course for advanced students who often work with businesses and community members on design projects. Depending on availability, students may also intern in local businesses to further explore their opportunities in the field such as Mechanical, Computer, Electrical, and Civil Engineering, Architecture, Interior Design, Landscape Design, CAD Operator, CAD Designer, Architectural Designer, etc.

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<td>Grades 11 &amp; 12</td>
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<tr>
<td>Credit:</td>
<td>up to 4</td>
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<tr>
<td>Prerequisite</td>
<td>Completion of Engineering &amp; Architectural Design, and Instructor Approval</td>
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“...I was allowed to take this course as a sophomore. Take this class if you are interested in engineering or architecture. It’s a great way to learn career-centered skills.”

— Emily Doyon, Engineering, Architecture, & Drafting
Introduction to Engineering Design & Mechanical Drawing (#17016)

Are you thinking of a career in engineering, manufacturing, construction, boat building, or building anything, this is the course for you? This course will allow you to gain knowledge and skills that are necessary to be successful; problem solving, teamwork, critical thinking, and technical processes will be explored. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to real-world engineering problems like wind-blade design, building with recycled materials, Formula 1 cars, magnetic levitation, and assistive technology devices will be explored. This is an introductory class to give students exposure to a potential BRCOT program.

Level: CP
Open to: Grades 9, 10, 11, & 12
Credit: .5
Prerequisite: None

House Design & Construction (#17036)

Are you interested in learning how to design a house? After working on a computer-based pre-planned project, you will create and draw a house of your own design on the computer. This is an introductory class to give students exposure to a potential BRCOT program.

Level: CP
Open to: Grades 9, 10, 11, & 12
Credit: .5
Prerequisite: None

Manufacturing & Production (#17136)

This course will prepare students with the knowledge and skills necessary for continuing education and ultimately a successful career in manufacturing, mechanical design and skilled mechanical trades occupation.

Level: CP
Open to: Grades 9, 10, 11, & 12
Credit: .5
Prerequisite: None

Robotics 1 (#17056)

Robots are everywhere. Want to tell a robot what to do? 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. Have fun; you might even find a career here.

Level: CP
Open to: Grades 9, 10, 11, & 12
Credit: .5
Prerequisite: None

Advanced Robots (#17066)

A continuation of the Robots course where students will explore robot mechanisms and intelligent controls. Various control and coding devices will be tested. Students will design and build a robotic system to complete a real-world task.

Level: CP
Open to: Grades 9, 10, 11, & 12
Credit: .5
Prerequisite: Robots

Intro to Programming (#17106)

This is an exploratory course to introduce a variety of programming software, the concepts of programming, and application development. Students will gain a basic background of standard computer logic, which will enhance problem-solving skills. A variety of software, including robots will be used for learning how to read and write programs. Scratch, BASIC, C++, and Java will be explored.

Level: CP
Open to: Grades 9, 10, 11, & 12
Credit: .5
Prerequisite: None
Trade and Technical Programs

**Energy & Power (#17076)**

This class will introduce students to the world of energy and the forms of energy and how it’s produced and harnessed. Students will understand how power works and the three forms of power that are commonly used in technology. Transportation will be a topic of exploration as it pertains to energy and power throughout history and its future. The three forms of power that will be studied are Mechanical, Electrical and Fluid Power.

| Level: | CP |
| Open to: | Grades 9, 10, 11, & 12 |
| Credit: | .5 |
| Prerequisite: | None |

**Electrical Technology I (#27136 & 27146)**

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, 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. Seniors may elect to return for year two as a post grad. Consists of level 1 & 2 of NCCER curriculum. Students can gain a Math & Physical Science credit at BHS for graduation by taking this course.

| Level: | CP |
| Open to: | Grades 9-12 (9-10 with instructor permission) |
| Credit: | 4 |
| Prerequisite: | Successful completion of Electrical Technology I and instructor recommendation. |

**Electrical Technology II (#27156 & 27166)**

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 can gain a Math & Physical Science credit at BHS for graduation by taking this course.

Successful students in this program will meet the educational requirements for a State of Maine Journeyman’s Electrician’s license. Up to five college credits are available to successful two-year program completers who choose to continue their education at any Maine Community College in the electrical field.

| Level: | CP |
| Open to: | Grades 10-12 |
| Credit: | 4 |
| Prerequisite: | Successful completion of Electrical Technology I and instructor recommendation. |
Teaching and Early Education (#25016 & 25026)

This college prep course is an exploration of a career working with children. Students are also able to earn college credit through concurrent enrollment through YCCC. This class prepares students for postsecondary education within a variety of pathways: classroom teacher, social worker, nurse, or teacher in a child care program. Students may also choose to begin working directly in an entry-level position in a child care program with children ages birth to five. Classroom instruction includes child development and learning, developmentally appropriate practices, best teaching practices, family and community relationships, and using content knowledge to build meaningful curriculum. Students have the opportunity to plan and implement activities, which are aligned with Maine’s Early Learning and Development Standards (MELDS), for the children (ages 3-5) in the on-site nursery school-Mother Goose. Students also have the opportunity to job shadow or internship within a local school or child care program depending on individual interest. Students will begin working towards their Child Development Associate (CDA) credential with the opportunity for an independent study during a second year to complete the requirements needed. Students can gain a Social Science or an ELA credit at BHS for graduation by taking this course.

Health Assistant/CNA (#24016 & 24026)

This 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 80 hours of clinical experience at a local nursing home and hospital. Two science credits are awarded for anatomy, physiology & pathophysiology. The other two credits are awarded for the nursing assistant curriculum, human growth and development, nutrition, basic life support and first aid certification. This program provides a strong science foundation that prepares students to continue their education in any of the healthcare fields or to work as a certified nursing assistant. This course saves the student the tuition (approximately $1,200) usually needed to become a nursing assistant. All successful students will take the Maine State Nursing Assistant exam. After passing the exam, students will easily gain employment as CNAs. In addition, students who continue their education will have the experience of caring for patients before they graduate from their nursing or other health science program. Students can gain a Life Science and Health credit (if not completed previously) at BHS for graduation by taking this course.

Students may also earn college credits through dual enrollment.

| Level: | CP or Honors |
| Open to: | Grades 11 & 12 |
| Credit: | 4 (Honors level earns college credits) |
| Prerequisite: | Science courses in chemistry or biology, good interpersonal skills, great attendance and a strong work ethic. Students must be 16 years of age to participate in nursing assistant training. |
Medical Sciences, Introduction to
(#24056 & 24066)

This rigorous academic 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 earn four credits: two science credits are awarded for anatomy and physiology and two additional credits are earned studying patient care skills, human growth and development, nutrition, CPR and first aid. Students may choose to complete the nursing assistant curriculum or complete independent study and job-shadow (subject to availability) in the health field of their choice. Students who choose to complete the nursing assistant curriculum will spend 80 hours caring for patients at a local nursing home and at Southern Maine Health Care. The nursing assistant curriculum saves the student the tuition (approximately $1200) needed to become certified. Successful students will become a Maine Certified Nursing Assistant with a well-paying, marketable skill upon graduation. In addition, students who continue their education will have already experienced caring for patients before they graduate from their nursing or other health science program. Students who choose job shadowing will complete 40 hours of independent study followed by 20 hours of job-shadowing in various healthcare fields (e.g. dental, therapy, dietary, radiology, etc.). 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. Students can gain a Life Science and Health credit (if not completed previously) at BHS for graduation by taking this course. Students may also earn dual enrollment credits.

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<tr>
<td>Credits:</td>
<td>4</td>
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<tr>
<td>(Honors level earn college credits)</td>
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<tr>
<td>Prerequisite:</td>
<td>Chemistry or biology, great attendance, good interpersonal skills, and a strong work ethic.</td>
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Did you know two-thirds of COT graduates attend post-secondary schools?

Recent Graduates Attended:

Arizona State University  Bentley University  Carrol College Montana  Central Maine Community College  College of Central Florida  Eastern Maine Community College  Endicott College  Framingham State University  Husson University  La’James College  Mason City  IA Landmark University Utah  Lasell College  Lesley University  Lynn University  Florida State University  Maine College of Art  Maine Maritime Academy  Massasoit Community College  Mercyhurst University  New Hampshire Technical Institute  Northeastern University Northern  Maine Community College  Norwich University  Nova Southeastern University  Plymouth State University  Rensselaer Polytechnic Institute  Rivier College  Southern Maine Community College  Southern New Hampshire University  St. Anselm 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
Enrichment Opportunities

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

Advance Auto Parts
Albert's Garage Inc.
Allen Range Road Used Auto Parts
Allergy & Asthma Assoc, of Maine
Andre Faucher Drywall
Animal Medical Center – Saco
Artistry in Bloom
Arundel Ford
Arundel Machine Tool Co. Inc.
Associated Builders and Contractors of Maine
Astro Automotive
Aube-Plamondon Electric
Aunties Day Care
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 Youth Football Assoc
Biddeford/Saco Rotary Club
Bill Automotive
Bob's Auto
Boucher Electric
Bruce's Auto Service, Inc.
Builder's Supply
Caleb Johnson Architects
Camille's Electric
Carl Goodwin Construction
CarQuest
Casco Bay Steel
CIA Salvage, Inc.
Cianbro
Cisco Systems
City of Biddeford, Parks and Rec.
City of Biddeford, Public Works
Coastal Win Air
Cumberland County Sheriff
Curlew Brothers
David Redmond-Probation Officer
David Wood, Attorney at Law
Deering Lumber
Diana Sainte, Acupuncturist
Downeast Construction
Education Foundation
Flotation Buoyancy
Dr. Beverly Stoops
Dr. Dean G. Tourigny, DDS
Dr. Denise Couture, Chiropractor
Dr. Gary Winn, D.O.
Dr. James Murray, DDS
Dr. Marc Malon, Chiropractor
Dr. Robert Vaughan, Prime Care
DSM Metal Fabrication
Dube's Drywall Supply
Dutch Elm Golf Course
Evergreen Manor
Fairfield School
Gallant Electric
German Auto Services
Gervais Dube Properties
Gilman Electric Supply
Gwenyth Duffield, Nurse Practitioner
Hancock Lumber
Heart of Biddeford
Heartwood Distributors
Huntington Commons
Hussey Seating
Husson University
Independence Auto, Inc.
Integrity Composites
Jim Godbout Plumbing
Jim's Auto Salvage, Inc.
Joe McKenney Photography
Joe Troegner's Auto Service
John F. Kennedy Kindergarten Ctr.
Just for Kids Dental Associates
Katie McCarter, Athletic Trainer
Kennebunk Police Department
Kennebunk Veterinary
Kirsten Cyr, Clinical Social Worker
La Kermesse Franco-Americaine
Maine Attorney General
Maine Criminal Justice Academy
Maine Game Wardens
Maine Medical Center
Maine State Troopers
Mark Pollard Electric
McAllister Machine
Mercy Hospital
Metso
Michael Purdue, Private Investigator and Westbrook
Portsmouth Naval Shipyard
Prime Auto
Prime Care Pediatrics, Biddeford
Prime Care Pediatrics, Saco
PSMP Inc.
PSMP Inc.
Ruth Pioner, Nurse Practitioner, BMS
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
Saint Joseph's College
Seal Rock Health Care Facility
SMHC Visiting Nurses
Soleras LTD.
Southern Maine Health Care
Southridge Rehab & Living Center
Standard Electric Supply
Sterling Rope
Sue Richardson, OT
Sullivan Tire & Auto
Superior Paint & Supply
T+D Little Clouds, Scarborough
TJ's Pizza
Toddler Inn, Saco
University of New England Health
US ATF
US Customs, Border Enforcement
US DEA
US FBI
US Homeland Security
US Marshals
US Secret Service
Waterboro Elementary School
Wells Physical Therapy
Windham Police Department
York County District Attorney's Office
York County Superior Court

New England Building Materials
North East Electrical Distributors
Old Orchard Beach Police Dept.
Paulsen Tire
Pepperell and North Dam Mills
Plastic & Hand Surgical Assoc.
Portsmouth Naval Shipyard
Pratt & Whitney Precision Manufacturing Solutions
## 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

### Information Technology Programs . . . 8-11
- Cybersecurity Specialist
- Programming Specialist
- Network Administrator
- IT Administrator
- Graphic Designer

### Legal Studies . . . . . . . . . . . . . . . . . . . . . 12
- Crime Scene Investigator
- Game Warden
- Law Enforcement
- Lawyer
- Paralegal
- US Drug Enforcement Officer
- FBI Agent
- U.S. Marshal
- Homeland Security Agent
- Correctional / Probational Officer
- Forensics / Criminologist
- Intelligence Analyst

### Medical Assisting . . . . . . . . . . . . . . . . . . . . . . . . . . 13
- Medical Assistant
- Nursing
- Radiography
- Veterinary Science
- Medical Sonographer
- Physician Assistant
- Occupational, Respiratory, or Physical Therapist
- Athletic Trainers
- Dentistry
- Surgical Technologists
- Physician
- Medical and Healthcare Manager
- Nutritionist or Dietician
- Pharmacist

### Auto Body Technology . . . . . . . . . . . . . . . . . . . . . . . . 16
- Auto Body Repair
- Auto Dismantler
- Frame Technician
- Auto Body Restorer
- Vehicle Detailer
- Paint Preparer
- Vehicle Painter
- Shop Manager
- Used Car Reconditioner
- Auto Refinisher
- Insurance Adjuster

### Automotive Technology . . . . . . . . . . . . . . . . . . . . . . . . . 17
- Automotive Repair
- Service Estimator
- Small Engine Tech
- Motorcycle Tech
- ATV Tech
- Shop Owner
- Automotive Dealer
- Transmission Tech
- Service Manager
- Engine Rebuilder

### Building Construction . . . . . . . . . . . . . . . . . . . . . . . . . 18
- Carpenter
- General Contractor
- Project Manager
- Roofer
- Drywall Installation & Finishing
- Insulator
- Flooring Installation
- Tiler
- Cabinet Maker
- Cost Estimator
**Career Possibilities**

**Welding & Metal Fabrication** ....... 19
- 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** .............. 21
- Residential Plumber
- Mechanical engineer
- Architecture
- Pipefitter and Steamfitter
- Civil Engineer
- Construction Project Manager
- HVAC Technician

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

**Electrical Technology** ............ 15
- 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

**Teaching & Early Education** ....... 26
- Teacher
- Nanny
- Psychologist
- Counselor / Social Worker
- Speech-Language Pathologist
- Occupational / Recreational Therapist
- Child Care Worker / Child Care Owner
- Recreation Worker
- Librarian
- Nutritionist

**Introduction to Medical Science / Health Assistant / CNA** .......... 26-27
- Registered Nurse / Nurse Practitioner
- 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

> COT really opened my eyes to how many good jobs go unnoticed, if it wasn’t for the COT I would never have known what I wanted to do out of high school.”

— Jasper Sapa,

**Welding & Metal Fabrication**