

CAREER & TECHNICAL EDUCATION/CRTC



CRTC: BE PREPARED TO STAND OUT

One of 27 high school Career and Technical Education [centers across New Hampshire](#), the Concord Regional Technical Center ([CRTC](#)), since 1980, has helped thousands of students from nine Concord-area high schools to earn a tremendous head start, as well as a competitive edge, as they move towards developing and then implementing their own personalized college and career plan. Because of the level of preparation received, CRTC graduates stand out to college and military recruiters, employers and career professionals.

The CRTC, as part of our [mission, vision and core beliefs](#), utilizes a robust Career Pathway model to help students reach their goals in the most strategic manner possible. Opportunities for CRTC students include:

- Engaging in meetings, internships and job shadows with career professionals
- Earning nationally recognized industry certificates and/or licensure
- Completing numerous dual enrollment college classes (with transcripts)
- Acquiring (with evidence) industry-ready technical skills
- Demonstrating (with evidence) employability/workplace-ready professional skills
- Attaining targeted, career-specific writing, presentation and math skills
- Working in an entry-level position in the industry
- Developing the beginnings of a professional network

Unlike most courses at CHS, students are required to apply to their desired CRTC program. The application, available at <http://theCRTC.net>, involves students telling us a bit about themselves; in addition, we also review attendance, transcripts and other information as part of the application process.

More than 95% of new CRTC students apply by mid-February and are notified of their status in mid-April. Completed applications should be given to your school counselor except during the summer, when students should contact our office directly. The majority of new applicants are sophomores (who will be juniors when they start at the CRTC in September). Current freshman, who have demonstrated maturity, are also strongly urged to apply especially in Construction Trades and Culinary & Pastry Arts. We always have a handful of seats available for seniors in our level I classes.

Enrolling in the CRTC is a significant commitment and we want to help students make the right personal decision. To do so, there are many formal opportunities to learn about the CRTC, especially during the months of January and February. Events include class assemblies, CRTC Preview Days, lunch tables as well as classroom visits and 1:1 teacher talks. All information, including a calendar and an overview brochure, are available [online](#). Our job is to help students and parents in every manner possible learn about the CRTC. In most cases this involves meeting current students, alumni, industry partners and of course, our industry-proven teachers.

Year One

Automotive Technology I
Computer Engineering I
Construction Trades I
Cosmetology I
Criminal Justice I
Culinary & Pastry Arts I
Emergency Services I
Graphic Design & Creative Media I
Health Science I
Teacher Preparation I
Theater & Film: Acting I
Theater & Film: Production and Design I

Year Two

Automotive Technology II
Computer Engineering II
Construction Trades II
Cosmetology II
Criminal Justice II
Culinary & Pastry Arts II
Emergency Services II
Graphic Design & Creative Media II
Health Science II
Teacher Preparation II
Theater & Film: Acting II
Theater & Film: Production and Design II

CRTC+ (Additional CRTC opportunities)

Career Communications English Credit (CRTC/ELO)
Third Year Intensive Internships
Community College (on campus) Career Pathway Classes
ELO's
Certification and/or Licensure Programs

DUAL CREDIT ENROLLMENT:

Many of the Concord Regional Technical Center programs offer a dual credit option. Dual credit is the optional opportunity for students to earn college credits while in high school. One such program is the NH Community College System's Project Running Start. With Running Start, a relationship is formalized between one of our programs and a particular community college course. Once established, students pay approximately \$150 (financial aid is available) at the start of our course and, upon satisfactory completion, earn college credit, as well as high school credit. This course is listed on a college transcript, which students receive in addition to their high school transcript. In most cases, the college course expectations are fully integrated into the class and no additional work is expected. In addition to Project Running Start, we have additional Dual Enrollment relationships with other colleges, such as Southern New Hampshire University, that work in a similar fashion. We strongly urge every student to participate.

All relationships are re-established on an annual basis and are not guaranteed until the start of the school year. Present Running Start (RS)/Dual Enrollment (DE) and Articulation Agreement relationships include:

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AUTOMOTIVE TECHNOLOGY

AUTO111-Introduction to Automotive Services (RS-Manchester Community College); AUT100-Introduction to Automotive; AUT200-State Inspection (AA-Central Maine Community College); LAUT1200-Introduction to Automotive Service; LAUT1211-Automotive Systems (AA-Lakes Region Community College)

Certifications Available:

ASE; Snap-On Solus Pro Scan Tool; Snap-On 504 Electrical Meter; SP-2 Mechanical Safety and Pollution Control Certificates.

COMPUTER ENGINEERING (IT)

ROBO211M Robotic Design; ADMT110M Manufacturing Processes; ADMT115M Engineering Printing Reading; IST110C Programming Fundamentals (all at MCC)

AP Computer Science Principles Exam.

CONSTRUCTION TRADES

MCC: Articulation Agreement

Certifications Available: NCCER credentials in Welding, Electrical, Plumbing, Masonry and Carpentry; SP2 Welding OSHA-10 Hour Card

COSMETOLOGY

Cosmetology students do not earn dual enrollment credit due to the structure of post-secondary cosmetology programs; but, upon successful completion of a competency exam (taken before starting a post-secondary program), students from our program are credited 360 of the 1,500 hours required to earn their NH State Cosmetology License. Most post-secondary cosmetology schools embrace this opportunity.

Certifications Available: *Paul Mitchell Color Application, Long Hair Styling, and Product Knowledge; S/P2 Cosmetology; 21st Century Skills; Human Resources; Safety and Environment; Cuccio Gel*

CRIMINAL JUSTICE

NHTI: CJ101-Introduction to Criminal Justice - Criminology; CJ121-Criminal Procedure; CJ123-Criminal Law (RS-NHTI). CJ101-Introduction to Criminal Justice; CJ215-Police Operations (Articulation Agreement with Husson University)

Certifications Available:

First Aid/CPR for Healthcare Provider Certificate // National Incident Management System (NIMS) Certificate

CULINARY & PASTRY ARTS

LCUL1460-Bakery Production; LCUL1510-Culinary Fundamentals; LCUL1520-Sanitation and Safety; LHOS2160-Catering (RS-LRCC); Safety and Sanitation; Servsafe course (Articulation Credit with Culinary Institute of America and UNH Thompson School)

Certifications Available: ServSafe National Restaurant; Education Foundation Food and Sanitation Certificate; ProStart National Restaurant Education Foundation Certificate

EMERGENCY SERVICES

LRCC: Articulation Agreement for students who attend LRCC for completion of Firefighter I (6 credits) and/or EMT-Basic (3 credits)

Certifications Available: EMR Certificate; EMT Certificate; First Aid/CPR Certificate; Firefighter I Certificate

(second year); Hazardous Materials Awareness/Operations Certificate; SCBA Certification; Wildland Certification

GRAPHIC DESIGN & CREATIVE MEDIA

GDES110-Page Layout & Design; GDES115-Digital Imaging; GDES155-Computer Illustration; (RS-MCC) VRTS193-Introduction to Photoshop (RS-NHTI)

Certifications Available: Adobe Associate Certifications in Photoshop, Illustrator, InDesign and Premiere

HEALTH SCIENCE

EXER105-Essentials of Exercise Science; (RS-MCC) HS101-Medical Terminology (RS-NHTI)

Licensed Nursing Assistant: Dual Enrollment with LRCC for 5 Credits;

Certifications Available: AED (Automated External Defibrillator) Certificate; Healthcare Professional FA/CPR; EMT Certificate

Licensing Available:

EMR (License upon successful completion of State Exam) – not offered every year

LNA (upon successful completion of State Exam)

ACE – not offered every year

TEACHER PREPARATION

EDU200-Introduction to Education (1st year students), SPED210-Early Childhood Issues/Disabilities & EDU270-Foundations of Teaching and Learning (2nd year students) (DE-SNHU)

Certificates Available:

CPI (Crisis Prevention Institute) Certification

THEATER & FILM: ACTING PATHWAY AND PRODUCTION & DESIGN PATHWAY

THTR101C-Acting 1 (RS-NHTI) 3 credits

UNH Articulation Agreement (Production & Design); Recognition through National and State Filmmaking Contests

To prepare students for success, our entire organization focuses its energies upon helping students to develop and improve both professional (soft) skills and technical (competency) skills. We take pride in establishing performance targets that are valued by our industry and higher education partners. The CRTC specifically defines and measures the following soft skills for every student: Collaboration, Communication, Inventiveness and Self-Direction.

Demonstrating the best of these skills is emphasized and expected of all students. Many of our students earn the opportunity to complete an internship or job shadow experience, where possessing effective soft skills is a non-negotiable requirement, given that students will be interacting with valued customers, clients, and employees. Students who succeed at the CRTC understand these expectations and strive for feedback and improvement at all times.

PROGRAMS/COURSE DESCRIPTIONS

AUTOMOTIVE TECHNOLOGY I – CT1023

90-minute classes

5 Days/Week, Full Year

2 Credits

A proposed Project Running Start college credit-bearing course (approved on an annual basis with the NH Community College System).

This course covers the fundamentals of the automobile and the internal combustion engine. A laboratory program provides students a "hands-on" experience using their own engines. It is recommended that students obtain a used "salvage" engine before entering the program. Students attain skills using a variety of industry-standard tools as they disassemble and reassemble the engine. Students learn proper lab and shop safety techniques. Other areas of learning include: engine performance and repair, exhaust systems, steering and suspension systems, and brakes. Repair work will be done as it relates to lab experiences. After completing the Automotive Technology I Program, the student will know all the parts of an internal combustion engine, the procedure for service and replacement of engine parts, timing procedures, how to read micrometers to take vital measurements, and basic engine-testing methods. Students have the opportunity to take 3 ASE tests: Brakes and Steering & Suspension.

Suggested Prerequisite courses: Algebra, Geometry

Suggested Simultaneous courses: Physics, Technical Writing, Business Management, Accounting

AUTOMOTIVE TECHNOLOGY II – CT1033

90-minute classes

5 Days/Week, Full Year

2 Credits

A proposed Project Running Start college credit-bearing course (approved on an annual basis with the NH Community College System).

This course emphasizes engine diagnosis, electrical systems, on-board computer, electronic diagnostic equipment, fuel injection & emission systems, brakes, steering & suspension, alignments, heating & air conditioning. Standard and automatic transmissions and transaxles will be covered, along with differential gears relating to automotive drivelines. Students participate in a shop environment, where they will perform automotive repairs on vehicles scheduled in the facility. After completing the Automotive Technology II program, the student will have acquired all the basic skills required to start working in a position as an entry level automotive technician. Students who demonstrate proficiency at the core competency will be prepared to be successful to enter a post-secondary school's Automotive Technology Program. All Automotive Technology II students are required to participate in an internship based on shadowing a technician at a local dealership. Students have the opportunity to take 5 ASE tests: Automatic Transmission, Manual Transmission, Engine Performance, Electrical, Heating & Air Conditioning.

Suggested Prerequisite courses: Algebra, Geometry

Suggested Simultaneous courses: Physics, Technical Writing, Business Management, Accounting

COMPUTER ENGINEERING I & II - CT1187 & CT1197

(mix of year one and year two students)

90-minute classes

5 Days/Week, 2 Credits

Full Year

A proposed Project Running Start college credit-bearing course (approved on an annual basis with the NH Community College System).

Computer Engineering represents a shift from the traditional Information Technology Program. Curriculum includes one year of AP level Computer Science Principles and one year of Engineering for Robotics and Automation. There is significant emphasis on programming logic and strategies for computer applications as well as engineering programs applied to robots and industrial machinery (CNC). In essence, we are combining skills related to computer science, advanced manufacturing, machining, mechatronics, and information technology into one program. During the computer science year, emphasis will be placed on ethics, global impacts of computing, abstraction, algorithm development, big data, programming languages, the Internet, and cyber security. During the Robotics & Automation year, focus will be on engineering systems to manufacture products and on other applications for robotics. The classroom includes industry equipment including a CNC milling machine, cutting tools, hand and power tools, robotic arms and its associated equipment (motors, sensors, pneumatic and electrical components, etc.) so that students can practice design engineering, create/analyze programs, and convert those designs into actual industrial parts. These processes provide a foundation for numerous certificates, 2-4 year college opportunities, as well as high-demand, high-paying employment careers in New Hampshire and beyond.

Students will learn current industry-specific programming languages like Python, C, HTML5, CSS, JavaScript, and explore SQL and PHP, they will also learn to develop CAD/CAM programs through solid modeling software to post and edit CNC controllers and 3D printers that rely on G&M geometry code. The program balances a strong foundation of theory and practice, focused on the world of computing and its global impact across a variety of industries to produce valued outputs.

While the above classes will be very beneficial for anyone pursuing a career in computer science, advanced manufacturing, or any STEM technology field, students will also learn that a strong foundation in Computer Engineering can be applied (and is often required) in many other career fields such as finance, entrepreneurship, and business management.

Suggested Prerequisite courses: Algebra I & II, Basic Computer Class, Full course load aligned to preparing for a 4-year college

Suggested Simultaneous courses: Computer Programming Courses, Advanced Math Courses, Project Lead the Way (or similar)

CONSTRUCTION TRADES I – CT1083

90-minute classes

5 Days/Week, Full Year

2 Credits

This program is designed to teach students a mix of skills in the construction trades that lead to high paying high demand jobs in the construction industry. This includes NCCER credentials in Welding, Electrical, Plumbing, Masonry and Carpentry. The first focus in Construction Trades I is core construction and safety skills. Students learn both residential home construction and, to some degree, commercial construction. In this program, students develop and sharpen safe construction skills while building a home or other structure, stick-built or modular. Learning experiences include house-framing (wood and metal), roofing, siding, and trimming. When focusing on welding, electrical, plumbing or masonry students will learn theory and then engage in extensive hands-on activities related to the specific discipline. They will also learn "Green Building" techniques and its impact on the building industry.

Suggested Prerequisite courses: Algebra, Geometry

Suggested Simultaneous courses: Physics, Technical Writing, Business Management, Accounting

CONSTRUCTION TRADES II – CT1093

90-minute classes

5 Days/Week, Full Year

2 Credits

This course will continue to sharpen student's skills in the construction trades which cover more advanced aspects of carpentry trade work, including: siding application and interior and exterior trim. Students will participate in OSHA training and receive a ten-hour OSHA card. Students will also further their studies in other specific trades which they did not learn in their first year. Students will hear from experts in the field and engage in complex jobs related to the trades. Students will also develop the soft skills sought in the industry including dealing with customers, employees, and co-workers around such areas as working safely, displaying job-seeking and job retention skills, and demonstrating leadership ability.

Suggested Prerequisite courses: Algebra, Geometry

Suggested Simultaneous courses: Physics, Technical Writing, Business Management, Accounting

COSMETOLOGY I – CT1403

90-minute classes

5 Days/Week, Full Year

2 Credits

Cosmetology and barbering are major components of a multi-billion dollar industry. Cosmetology is the art and science of beautifying hair, skin, and nails. Our program provides the opportunity to explore a variety of careers in this large and diverse field of study. The employment opportunities range from working behind the chair in a hair salon or barbershop to being a stylist on a major film production, or becoming a platform artist on stage. The possibilities are endless.

In Cosmetology I, students are exposed to a blend of classroom instruction and hands-on learning experiences using a human hair mannequin in a simulated salon environment. Students learn a variety of hairstyling techniques, such as shampooing and scalp massage; manicures & nail design, and proper sanitation. Students will need to purchase an Internship License; and it is recommended they purchase a personal cosmetology tools/supplies kit.

Suggested Prerequisite courses: Biology, Art (Color Theory)

Suggested Simultaneous courses: Business Math, Technical Math, Business Management, Accounting

COSMETOLOGY II – CT1413

90-minute classes

5 Days/Week, Full Year

2 Credits

Gain new skills in the areas of pedicures, facials, waxing, hair design, and makeup. In addition, students will be exposed to the business side of the cosmetology industry and salon management. Students will have the opportunity to work directly with customers in the salon and job-shadow professional cosmetologists. Upon successful completion of this two-year program and the State competency exam, students will be able to transfer their hours to a post-secondary school. It is recommended that second-year students purchase additional tools and supplies.

Suggested Prerequisite courses: Biology, Art (Color Theory)

Suggested Simultaneous courses: Business Math, Technical Math, Business Management, Accounting

CRIMINAL JUSTICE I: Criminal Procedure – CT1225 / CRIMINAL JUSTICE II: Criminal Law - CT1226 (mixed class of year one and two students)

90-minute classes

5 Days/Week, Full Year

2 Credits

A proposed Project Running Start college credit-bearing course (approved on an annual basis with the NH Community College System)

The Criminal Justice course is designed to provide the student with an overall understanding of the Criminal Justice system, to include: law enforcement, the court system, juvenile justice, and the corrections system. Students learn the history and theory of criminology and the historical origins and development of criminal law, as well as the constitutional issues. Students will have contact with professionals from law enforcement, the court system, juvenile justice, and corrections. In addition to classroom work, students will receive practical experience through crime scene investigation, role-plays, mock trials, hiring boards, background investigations, and field trips to local criminal justice agencies and correctional facilities.

Suggested Prerequisite courses: Full course load aligned to preparing for a 4-year college

Suggested Simultaneous courses: Law, Sociology, Psychology, Fitness

CULINARY & PASTRY ARTS I – CT1144

90-minute classes

5 Days/Week, Full Year

2 Credits

A proposed Project Running Start college credit-bearing course (approved on an annual basis with the NH Community College System)

This course is designed to educate students to meet the ever-increasing demands of the food service industry. Culinary & Pastry Arts I provides realistic hands-on experience in the principals of working in and operating a kitchen/dining room through the operation of our own Crimson Café restaurant. Areas of instruction covered in the first year of the program are: safety and sanitation, use and care of the equipment, recipe terminology, measurements and equivalents, and customer service techniques. The course also covers quantity preparation techniques for pantry station, short-order station, stock, soup, and sauce station, vegetable station and bakery station. Food service computer experiences are incorporated throughout the year.

Suggested Prerequisite courses: Algebra, Business Math

Suggested Simultaneous courses: Chemistry, Technical Writing, Business Management, Accounting

CULINARY & PASTRY ARTS II – CT1154

90-minute classes

5 Days/Week, Full Year

2 Credits

A proposed Project Running Start college credit-bearing course (approved on an annual basis with the NH Community College System)

Students gain advanced training in food service skills with an emphasis on management skills. Culinary & Pastry Arts II provides the opportunity to obtain knowledge and experience needed to meet the requirements for entry into post-secondary education courses or jobs within the food service industry. This ProStart certified course emphasizes safety procedures and introduces menu design and nutrition; food service math skills; recordkeeping; purchasing and receiving; quantity and cost controls; poultry, meats, fish and International cuisines. The second year students undertake the management responsibilities of kitchen supervisor, dining room supervisor, storeroom supervisor, menu planner and buyer. Extensive use of computers and research are incorporated into the class.

Students in Culinary & Pastry Arts II receive instruction in the Servsafe Food Safety Sanitation course, sponsored by National Restaurant Association. Students have the option to take a certified Servsafe test and receive a nationally recognized certification from the National Restaurant Association Education Foundation.

Suggested Prerequisite courses: Algebra, Business Math

Suggested Simultaneous courses: Chemistry, Technical Writing, Business Management, Accounting

EMERGENCY SERVICES I – CT1505

90-minute classes

5 Days/Week, Full Year

2 Credits

As a student in our Emergency Services (ES) program, you will build the foundation for a career as a first responder to medical, fire and other emergency situations. In your first year of this two-year program, you will dive into both emergency medical and fire response training, learning daily from active career-professionals. In Emergency Services I (ES1) you'll be able to earn an Emergency Medical Responder (EMR) certificate, and potentially some fire training certificates including Hazardous Materials Awareness/Operations Certificate, SCBA Certification or Wildland Certification through testing, after classroom and online training. EMT satisfies requirement of Health II.

Note: At present, the ES1 course is only offered from 11:05 am to 12:35 pm daily. Students from Pittsfield and Bow will be allowed (with proper permission) to drive, as buses will not be offered, and additional expectations (20 hours of time on weekends to do practicals). In addition, personal transportation is required.

Suggested Prerequisite courses: Algebra, Geometry

Suggested Simultaneous courses: Chemistry, Physics

EMERGENCY SERVICES II – CT1503

90-minute classes

5 Days/Week, Full Year

2 Credits

Emergency Services II gives you two certificate driven options: either earning your EMT certificate in our Health Science II class, or earning your Firefighter I certificate by taking an off-site, non-high school course with our support and mentorship through a local fire department, LRCC or the NH Fire Academy. ES2 Firefighter I certificate option requires more time outside the school day.

Both of these certificates open the door to numerous options in the field. For example, becoming a professional fire fighter involves earning a Firefighter I and II certificates as well as EMT. Becoming a paramedic involves building on the EMT certificate by earning an Advanced EMT (AEMT) and paramedic certificates.

Note: At present, the ESII course offered in our Health Science II class is only offered from 9:20 am to 11:00 am daily

Suggested Prerequisite courses: Algebra, Geometry

Suggested Simultaneous courses: Chemistry, Physics, Fitness

GRAPHIC DESIGN & CREATIVE MEDIA I – CT1043

90-minute classes

5 Days/Week, Full Year

2 Credits

A proposed Project Running Start college credit-bearing course (approved on an annual basis with the NH Community College System)

This course is a broad-based curriculum designed to include a range of activities associated with the graphic design and creative media industry. Students work in a professional, cutting-edge design lab environment including state of the art computers, digital drawing tablets (Cintiqs), 3D printer, embroidery machine and the states only high school CTE program with a direct-to-garment printer. All graphic design projects are industry standard and relevant to career success. Skills developed include learning correct technical composition, graphic design principles, graphic design codes, vector/photo manipulations, color theory, digital illustration and typography. In the first line of the course, students learn these graphic design skills using software applications found in the Adobe CS products such as Photoshop, Illustrator, InDesign, Premier and others. Students will learn how to create professional files in different formats. In addition to print media, students will also be exposed to creative media avenues which includes: video production, motion graphics, 3D sculpting and website design. Students engage in hands-on projects including direct-to-garment printing, mounting, professional critiques and more. The student should be prepared to work individually as well as within groups to produce clear and effective communication. Students will explore and identify career opportunities in the graphic design field as well as engage in portfolio preparation.

Suggested Prerequisite courses: Art (Color Theory), Computer Courses, Geometry

Suggested Simultaneous courses: Advanced Art, Business Management, Accounting

GRAPHIC DESIGN & CREATIVE MEDIA II – CT1053

90-minute classes

5 Days/Week, Full Year

2 Credits

A proposed Project Running Start college credit-bearing course (approved on an annual basis with the NH Community College System)

Students continue to expand professional skills for producing print-ready, media-ready communications from Graphic Design and Creative Media I. Refined and focused attention is given to graphic design principles, creative expression, professional industry based solutions, portfolio creation, web development, shared project management skills, as well as interviewing and project scheduling, peer review, and redesign. Students develop further direct-to-garment printing skills by helping run our in-house t-shirt printing and embroidery business. The key skills emphasized in this semester are mix of technical and professional skills, and real life working experiences as students learn how to adapt and meet customer needs, work in teams and generally accept critique.

During the second portion of this course, students prepare for internationally recognized Adobe Associate Certifications in Photoshop, Illustrator, InDesign and Premiere. Opportunities for extra learning internships, freelance gigs and job shadows are provided as a necessary pathway for career development and success. Students work to develop richer projects based on these key skill areas: project management and collaboration, design, research and communication. Students will continue portfolio development begun in Graphic Design and Creative Media I. Students also have an opportunity to develop the technical skills and knowledge necessary to obtain entry level employment in the graphic design industry, as well as be prepared for post-secondary training.

Suggested Prerequisite courses: Art (Color Theory), Computer Courses, Geometry

Suggested Simultaneous courses: Advanced Art, Business Management, Accounting

HEALTH SCIENCE I – CT1123

90-minute classes

5 Days/Week, Full Year

2 Credits

Health Science I covers all competencies associated with CHS Health II. Students who successfully complete Health Science I are exempt from Health II.

Students in this course will learn about job opportunities in the health profession and explore career options through research, self-assessment and guest speakers in a variety of healthcare professions. There is strong academic emphasis in the following areas: Anatomy and Physiology, Medical Terminology, Infection Control, Safety and Blood Borne Pathogen training. Students will have hands-on experiences with medical equipment in the classroom. Classroom activities will include lectures, discussions, poster/PowerPoint presentations and research projects. Anatomy labs include some dissection, competitive games and audiovisual learning related to diagnosis, treatment and prevention of disease. Students will be able to perform vision screenings, take vital signs (blood pressure, temperature, pulse and respirations), and demonstrate gown-and-gloving technique and proper use of body mechanics. Students successfully completing Health Science & Technology I will demonstrate competencies in accordance with National Health Care Skills Standards. Students will become certified in CPR for the Professional Rescuer, First Aid & Automated External Defibrillation.

HOSA (Health Occupations Students of America) is an integral part of the program. Through HOSA, students develop leadership and teambuilding skills. It encourages both civic and social responsibility. Students involved with HOSA activities can become more involved with the state and national levels and attend the annual leadership conventions.

Students considering any career in the health care field such as physician, nurse, physical therapist, dental hygienist, veterinarian, or pharmacist would greatly benefit from this course.

Suggested Prerequisite courses: Full course load aligned to preparing for a 4-year college

Suggested Simultaneous courses: Advanced Chemistry, Anatomy & Physiology, Microbiology/AP Biology, Psychology, Human Growth & Development

HEALTH SCIENCE II – CT1133

90-minute classes

5 Days/Week, Full Year

2 Credits

(plus additional hours to do clinical experiences outside the school day to fulfill licensure)

A proposed Project Running Start college credit-bearing course (approved on an annual basis with the NH Community College System)

Health Science & Technology II continues with the completion of studies in Anatomy and Physiology, Safety and Blood Borne Pathogen Training. Attention is focused on the development of specialized tasks and skills for individualized career goals. Students will explore in more depth the areas of anatomy and physiology, mental health, wellness, health care consumerism, the aging process and individualized career development.

As part of the Health Science & Technology II course, beginning in the second semester, students may choose to participate in the Licensed Nursing Assistant (LNA) Program or Emergency Medical Technician (EMT) program. The EMT and LNA programs have fees associated (financial aid and/or payment plans are available); students are also required to attend some evening and weekend clinical experiences to earn licensure. Upon completion of the LNA or EMT program, and passing the corresponding State license exam, the student is licensed.

Upon successful completion of Health Science & Technology II, students will demonstrate all competencies outlined for the program in the Standard Competency Profile and those in accordance with National Health Care Skills Standards.

NOTE: The State of New Hampshire requires an annual Mantoux T.B. test, physical exam and criminal background check for all students entering a clinical setting during the program. (This course satisfies the graduation requirement for HEALTH II.)

Suggested Prerequisite courses: Full course load aligned to preparing for a 4-year college

Suggested Simultaneous courses: Advanced Chemistry, Anatomy & Physiology, Microbiology/AP Biology, Psychology, Human Growth & Development

TEACHER PREPARATION I – CT1004

90-minute classes

5 Days/Week, Full Year

2 Credits

This course is designed for students interested in pursuing a career in education. Teacher Preparation I familiarizes students with the science of how children develop and learn. They also gain essential classroom skills such as how to manage behaviors and provide instruction. During their internship, students experience first-hand the many aspects of being an educator, including the opportunity to prepare and present lesson plans. In order to practice their skills, students also teach and assist in our own Crimson Tide Preschool throughout their time in the program. Classroom instruction includes lectures, notes, handouts, projects, hands-on activities, and unit tests. Teacher Preparation I units include Responsive Classroom, Differentiated Instruction, Instructional Practices, Curriculum Planning, Classroom Management, Educational Psychology, and Growth and Development.

NOTE: The State of New Hampshire requires an annual Mantoux T.B. test and physical exam for all students entering the program. Students will be required to undergo a criminal background check at the N.H. Department of Safety in order to participate in the internship component of the program.

Suggested Prerequisite courses: Full course load aligned to preparing for a 4-year college

Suggested Simultaneous courses: Psychology, Human Growth & Development

TEACHER PREPARATION II – CT1014

90-minute classes

5 Days/Week, Full Year

2 Credits

A proposed Dual Enrollment college credit-bearing course (approved on an annual basis with Southern NH University)

Students entering Teacher Preparation II are expected to have mastered or be proficient in the basic teaching skills learned in Teacher Preparation I. Students have the opportunity to do an extensive internship with a teacher or specialist at their preferred level of education (preschool, elementary, middle, or high school). Teacher Preparation II units include curriculum planning using Understanding by Design, special education, advanced instructional practices, and observation skills. Students in year two of the program will be loaned a personal iPad to master best practices with instructional technology. At the conclusion of Teacher Preparation II, students will create a professional portfolio to demonstrate the competencies they have achieved.

NOTE: The State of New Hampshire requires an annual Mantoux T.B. for all students entering the program. Students will be required to undergo a criminal background check at the N.H. Department of Safety in order to participate in the internship component of the program.

Suggested Prerequisite courses: Full course load aligned to preparing for a 4-year college

Suggested Simultaneous courses: Psychology, Human Growth & Development

THEATER & FILM: ACTING I & II – CT1731 & CT1741

THEATER & FILM: PRODUCTION & DESIGN I & II - CT1701 & CT1711

90-minute classes

5 Days/Week, Full Year

2 Credits

As a Theater and Film student you will have the opportunity to develop your creative expression and technical skills in live performances and digital recorded media. This innovative program is designed for the new generation of storytellers, providing a hands-on, interactive approach to the craft of entertainment and performance. Students need to choose one of the two pathways.

As a **Production and Design Pathway** student, you will learn the “behind the scenes” professional skills related to creating theater, film and digital media productions. Technical skills emphasized include: set design, digital audio and lighting, props and costuming. Students also develop core artistic and management skills related to professional filmmaking (new in 2018/19), including lighting, sound and camera techniques, and use of video editing software (Adobe Premiere Pro CC).

As an **Acting Pathway** student, you’ll learn professional stage and acting techniques while working with different types of scripts and settings. A major focus of the program involves students getting constant and specific feedback on their performances in accordance with industry expectations. You’ll also learn script-writing techniques, and develop basic professional film editing skills (using Adobe Premiere Pro CC), that will enable you to build a college and career-ready portfolio.

Suggested Prerequisite courses: Full course load aligned to preparing for a 4-year college

Suggested Simultaneous courses: Physics, Construction Trades, Electronics, Sewing, CAD, Drafting

CRTC+: OFFERINGS BEYOND CORE CRTC PROGRAMS:

CRTC+ puts you in charge of building the kind of senior year that will give you a head start on your personal college and career plans. While you remain a full-time high school student (with all associated privileges), we will work with you to create a customized schedule that goes beyond your mainstream high school classes by blending advance coursework with deep work-based learning experiences. CRTC+ students gain an unmistakable sense of pride, purpose and maturity by gaining control of their education and career development.

Your CRTC+ experience can be a mix of any of the following options:

- Replace regular high school class(es) with on-campus CCSNH class(es) in your chosen career or college pathway.
- Work on an expanded internship or pre-apprenticeship.
- Pursue an advanced industry-recognized certificate or license.
- Assume an expanded role in our in-house businesses: Automotive Technology Shop (Auto+), Crimson Tide Preschool (Teacher Prep+) or Crimson Cafe (Culinary+) by doubling class time in your senior year.
- Enroll in our customized Career Communication (CRTC) class for .5 or 1.0 English credit

For students that are interested in CRTC+ options, Concord High School has Extended Learning Opportunity (ELO) guidelines that are already established which provide a structure for most activities. Here are some credit-bearing examples:

- A student wants to complete a basic job shadow or internship beyond what is offered in our program. The student would complete a blog to track the experience and do some sort of formal reflection on what they learned.
- A student wants to innovate and engage in some sort of industry-based activity or even start their own business. The student would complete a blog to track the experience and do some sort of formal reflection on their learning outcomes.
- A student engages in a formal, contained outside learning activity. For example, he/she takes a certificate program training related to their CRTC program. Student would solely need to demonstrate completion of the program (certificate).
- A student takes a course at local community college or an online course related to their CRTC career program. The student would solely need to demonstrate successful completion of the program (transcript).
- A student is actively working in their chosen industry and is engaged in activities related to program competencies (oftentimes this is called a co-op). The student would complete a blog to track the experience and do some sort of formal reflection on learning.

Stop by, call or email the CRTC Office at 603-717-7654 or email info@thecrtc.net to learn more.

CAREER COMMUNICATIONS (CRTC/ELO OPTIONAL) – CT8015

.5 to 1.0 English credits (depending on options selected) is offered as a semester or year-long class

Career Communications (CRTC) goes beyond punctuation, prepositions and parts of speech and connects you directly into the professional reading, writing and speaking tasks you'll be doing once you get on the job. You'll learn everything from how to give constructive criticism to how to run meetings, read trade journals, and write work orders, job evaluations, and professional emails.

The course is customized to the specific program which the student is enrolled; for example, an Auto Tech student would focus on writing, presentation and communicating in the context of the automotive industry; a cosmetology student would likewise work in the context of that specific industry; otherwise projects and presentations would not be the same for all students. For example, an accident report in Criminal Justice is very different than a work proposal in the Construction Trades field.

This personalized course, available to all CRTC students (CHS and sending schools) can be taken any time AFTER completing one semester of a CRTC program (most students take it in their senior year). The student must be in good standing and have demonstrated solid soft skills as there is a significant degree of independence and maturity required, by the nature of the course.

Students may also choose the ELO option for an additional .5 credits. The ELO project would involve outside research. Additional support would be provided by the student's CRTC program teacher; in addition to the English teacher for this course.

Students who complete this course further ready themselves for college and career success. They develop specific career communication skills to enhance their resume and general readiness. Career Communications (CRTC/ELO) ultimately gives students a leg up and prepares them to stand out as they pursue (and compete for) career-related opportunities.

It is the policy of the Concord School District not to discriminate on the basis of age, sex, sexual orientation, race, color, marital status, disability, religious creed or national origin in its educational programs, activities and services or employment practices as required by Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, Title 11 of the Americans with Disabilities Act of 1990 (ADA), and New Hampshire RSA 354-A:7. Inquiries or complaints regarding compliance with Title IX, Section 504, ADA and RSA 354-A:7 are to be directed to Donna Palley, Assistant Superintendent of Schools: dpalley@sau8.org