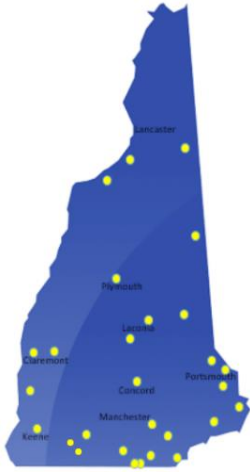


CAREER & TECHNICAL EDUCATION/CRTC



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 tens of 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 implementing their college and career plan. Because of the level of preparation received, CRTC graduates stand out to college and military recruiters, employers and career professionals. As part of our [mission, vision and core beliefs](#), the CRTC 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.org>, involves students telling us a bit about themselves; in addition, we also review attendance, transcripts and other information as part of the application process.

The gross majority (95%) of new CRTC applicants apply by late-February and are notified of their status in mid-April. Students apply to the CRTC online effective January 2021. Students should make their school counselor aware of their intent to apply and review their plans accordingly. Contact our office at theCRTC.org with any questions. The majority of new applicants are sophomores (who will be juniors when they start at the CRTC in September). Current freshmen, who have demonstrated maturity, are also strongly urged to apply especially in Construction Trades, Auto Tech and Culinary & Pastry Arts. We also always have a handful of seats available for seniors and freshmen (currently only: Theater and Film: Acting) in our level I classes.

Enrolling in the CRTC is a significant commitment and we want to help students make the right personal decision. There are many formal opportunities to learn about the CRTC, especially during f January and February. Events include informational assemblies, CRTC Preview Days, lunch informational tables, classroom visits and meeting with teachers. All information, including a calendar and an overview brochure, are available [online](#). Our job is to help students and parents learn about the CRTC. In most cases this involves meeting current students, alumni, industry partners and of course, our industry-proven teachers.

Programs/Classes:

- Automotive Technology I and II (CRTC+Year III available for students who start as sophomores)
- Computer Engineering I and II
- Construction Trades I and II (CRTC+ Year III available for students who start as sophomores)
- Cosmetology I and II
- Criminal Justice I and II
- Culinary and Pastry Arts I and II
- Education and Behavioral Science I and II
- Emergency Services I and II (ES II is mostly off-site)
- Graphic Design and Creative Media I and II
- Health Science I and II (Health Science II has three strands: LNA, EMT and ELO)
- Theater and Film: Acting I and II (some students start as freshman then do Production and Design)
- Theater and Film: Production and Design I and II
 - *All CRTC programs consists of a Year I and Year II class. Program completers must finish both years in good standing. Acceptance to Year II is competitive and students are invited to return based on their year I performance.*
 - *Most students start with the CRTC as juniors, while some start as sophomores. By starting early, students can map out a CRTC+ Year III to accelerate the start of their post-secondary college and career pathway while still enrolled in high school. Some students even add CRTC+ to their Year II experience as seniors.*
 - *All CRTC programs except Education and Behavioral Science meet the state standard for the senior year embedded math.*

CRTC+ (Additional CRTC opportunities)

- Replace regular high school class(es) with on-campus “Early College” Community College System of New Hampshire (CCSNH) class(es) specifically in your career pathway.
- Work an expanded internship or pre-apprenticeship.
- Pursue an advanced industry-recognized certificate.
- Assume an expanded role in our in-house businesses: Automotive Technology Shop (Auto Tech+), Crimson Tide Preschool (Education and Behavioral Science +) and Crimson Cafe (Culinary & Pastry Arts +) by doubling class time in your senior year.
- Enroll in our customized CRTC Career Communication English class for one-half or one English credit.

DUAL CREDIT ENROLLMENT

Many of the CTRC’s 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 CCSNH’s Project Running Start. With Running Start, a relationship is formalized between one of our programs and a community college course. Once established, students pay at most \$150 (financial aid is available) at the start of our course and, upon satisfactory completion, earn college credit, as well as high school credit. STEM courses can also be free when covered by the Governor’s STEM Scholarship. Once satisfactorily completed, the course and grade are 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:

Present Running Start (RS)/Dual Enrollment (DE) and Articulation Agreement (AA) relationships include:

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); OSHA-10 Hour Card
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 Nails

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

EDUCATION & BEHAVIORAL SCIENCE

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

Certifications Available: Google Educator Level I

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: EMT-B Certificate (year II); First Aid/CPR Certificate; Firefighter I Certificate, EMT-A Certification (year II).

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;

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

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;

Certifications Available: OSHA-10 Hour Card; Adobe Associate Certificate in Premiere; ETC EOS Essentials Level I & II

To prepare students for success, our organization focuses upon helping students 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 professional skills is a non-negotiable requirement, given that students will be interacting with the partner's valued customers, clients, and employees. Students succeed at the CRTC when they understand these expectations and strive for success.

PROGRAMS/COURSE DESCRIPTIONS

AUTOMOTIVE TECHNOLOGY I – CT1023

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Algebra, Geometry

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

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. 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. Beyond learning in the shop, students learn the theory and science behind combustion, braking and suspension. 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: Engine Repair, Brakes and Steering & Suspension.

AUTOMOTIVE TECHNOLOGY II – CT1033

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Algebra, Geometry

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

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.

COMPUTER ENGINEERING I & II - CT1187 & CT1197 (currently a mix of year one and year two students)

90-minute classes

5 Days/Week, Full Year

2 Credits

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)

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

The CTE curriculum for Computer Engineering I and II each cover competency associated with national and state-based Digital Technology and STEM standards. CHS students who successfully complete Computer Engineering I and II earn credit towards Digital Education. Sending school students can petition their home school to seek a similar structure. Some are already approved.

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 (including design, build, program, and test). There is significant emphasis on programming logic and strategies for computer applications, as well as engineering processes and programming applied to industrial robots and automated machinery (CNC). This program combines skills and competencies related to computer science, advanced manufacturing, machining, mechatronics, and information technology into one a more robust comprehensive program.

During the Computer Science year, emphasis is placed on ethics, global impacts of computing, abstraction, algorithm development, big data, the Internet, cyber security, and programming languages (Python, C, C#, HTML5, CSS, JavaScript, and explore SQL and PHP). The PLTW curriculum structure is aligned to and approved by the College Board for the Advanced Placement Computer Science Principles exam and is enhanced with additional hardware, networking, and cyber security activities/projects. During the Robotics and Automation year, the focus is on engineering automated industrial systems to manufacture products using robotic arms and CNC milling, and is supported by applying related engineering processes (safety, design concepts, print reading, metrology, electronics, pneumatics, mechanics, and quality assurance concepts) following the PLTW Computer Integrated Manufacturing curriculum. They develop CAD/CAM programs through solid modeling software that rely on geometric modeling to post 3D printing files and CNC programs that both rely on G&M geometry code.

The classroom includes a computer lab, in addition to a fabrication lab that houses industrial equipment including a CNC milling machine, material, cutting tools, hand and power tools, 3D printers, robotic arms and a tool crib to store all associated tools and robotic equipment (motors, sensors, pneumatic and electrical components) 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, two-to-four-year college opportunities, as well as high-demand, high-paying employment careers. The program balances a strong foundation of theory and practice around the world of computing and its global impact across industries. All students can benefit from a strong foundation in Computer Engineering, where the concepts learned can be applied to nearly every career field.

CONSTRUCTION TRADES I – CT1083

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Algebra, Geometry

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

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 a focus on welding, electrical, plumbing, masonry and carpentry. To build and foundation, 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 standards. When focusing on electrical or plumbing students will learn theory and then engage in extensive hands-on activities related to the specific discipline.

CONSTRUCTION TRADES II – CT1093

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Algebra, Geometry

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

This course will continue to sharpen student's skills in the construction trades. 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 including welding and masonry. They will also learn "Green Building" techniques and its impact on the building industry. Students gain exposure to a wealth of post-secondary opportunities including college, apprenticeship programs and work opportunities including union affiliated training. Students will hear from experts in the field and engage in complex jobs related to the trades. Students will also develop the professional 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. Some students choose to supplement this class with our CRTC+ model and start college/trade classes at Manchester Community College (MCC).

COSMETOLOGY I – CT1403

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Biology, Art (Color Theory)

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

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 explores 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 becoming a stylist on a major film production or 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.

COSMETOLOGY II – CT1413

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Biology, Art (Color Theory)

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

The CTE Curriculum for Cosmetology Program covers common and accepted competencies associated with national and state-based Art standards. Students who complete Cosmetology II can earn .5 elective credit towards graduation expectations associated with art.

Students gain new skills in the areas of pedicures, facials, waxing, hair design, and makeup. In addition, students are 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. *We are exploring options for a small set of students to pursue an outside barbering school in year two. This option is not yet determined.*

CRIMINAL JUSTICE I: Criminal Procedure – CT1225

90-minute classes

5 Days/Week, Full Year

2 Credits

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

Suggested Simultaneous courses: Law, Sociology, Psychology, Fitness

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

The Criminal Justice I 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 regular 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.

CRIMINAL JUSTICE II: Criminal Law - CT1226

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 CTE Curriculum for Criminal Justice Program covers common and accepted competencies associated with national and state-based Social Studies standards. Students who complete Criminal Justice II can earn .5 elective credit towards graduation expectations associated with Social Studies.

The Criminal Justice II course further dives into the complex themes related to Criminal Justice. Students engage in tactical and fitness training. Regular speakers from industry and colleges provide authentic information about the many pathways available to students in this field.

Criminal Justice II further focuses on understanding all aspects of the criminal justice system including legislative, law enforcement, courts and corrections. Students study case law around major historical court cases and see them through the lens of the entire system including applied to current events. Students also continue with practical learning around criminal procedures and processes including: crime scenes, forensics, investigation, arrests and trial preparation..

CULINARY & PASTRY ARTS I – CT1144

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Algebra, Business Math

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

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 provide 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.

CULINARY & PASTRY ARTS II – CT1154

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Algebra, Business Math

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

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 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.

EDUCATION & BEHAVIORAL SCIENCE I – CT1004

90-minute classes

5 Days/Week, Full Year

2 Credits

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

Suggested Simultaneous courses: Psychology

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

This course is for students interested in pursuing a career which will help others grow academically, socially, and emotionally. Education & Behavioral Science I familiarizes students with the science of how children develop, learn, and function in school. They also gain essential classroom skills such as how to manage behaviors, create a positive learning environment, communicate effectively, and provide instruction. Classroom instruction includes projects, lectures, notes, handouts, hands-on activities, and unit tests. Education & Behavioral Science I units include Responsive Classroom, Instructional Practices, Curriculum Planning, Classroom Management, Educational Psychology, and Growth and Development.

One week per quarter, a licensed counselor teaches mini units on counseling techniques such as trauma, informed care and cognitive behavior therapy. During their field work, students apply their knowledge working with professional mentors in elementary, middle and high school classrooms, and in our Crimson Tide Lab Preschool.

This course is aligned to Southern New Hampshire University's dual enrollment program. Students can elect to earn 7 SNHU credits for the following courses: EDU 102- Foundations of Education, EDU 102 Lab, and DEV 106- Child Development.

Educators Rising is the co-curricular organization for the Education & Behavioral Science program. Through this organization, students participate in state and national conferences and competitions and have the opportunity for leadership positions at various levels.

EDUCATION & BEHAVIORAL SCIENCE II– CT1014

90-minute classes

5 Days/Week, Full Year

2 Credits

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

Suggested Simultaneous courses: Psychology

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

The CTE Curriculum for Education and Behavioral Science Program covers common and accepted competencies associated with national and state-based Social Studies standards. Students who complete Education and Behavioral Science II can appeal to earn .5 elective credit towards graduation expectations associated with social studies.

Students entering Education & Behavioral Science II are expected to have mastered or be proficient in the skills learned in Education & Behavioral Science I. Education & Behavioral Science II takes a deep dive into Universal Design for Learning as students learn about special education and family and culture. Class units include exceptionalities, differentiated instruction, poverty, and family dynamics. Education & Behavioral Science II students can earn certification as a Certified Google Educator. One week per quarter, a licensed counselor is a guest teacher and teaches mini units on counseling techniques such as trauma informed care and cognitive behavior therapy. During their field work, students can apply their knowledge working with professional mentors in elementary, middle and high school classrooms. This course is aligned to Southern New Hampshire University's dual enrollment program and students can elect to earn 9 SNHU credits for the following courses: DEV 260- Family & Culture, SPED 106- Children with Exceptionalities, and SPED 206- Interventions in Early Childhood

Educators Rising is the co-curricular organization for the Education & Behavioral Science program. Through this organization, students participate in state and national conferences and competitions and have the opportunity for leadership positions at various levels.

EMERGENCY SERVICES I – CT1135

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Algebra, Geometry

Suggested Simultaneous courses: Chemistry, Physics

The CTE Curriculum for the Emergency Services Program covers common and accepted competencies associated with national and state-based PE/Health standards. Students who complete Emergency Services I can earn .5 elective credit towards graduation expectations associated with PE/health. Students can petition their home school to do so.

As a student in our Emergency Services (ES) program, students 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, students dive into both emergency medical and fire response training, learning daily from active career-professionals.

ES1 students receive training and get tested on actual NH Firefighter I and EMT-Basics units. The goal is for students to prepare themselves, and gain an understanding of their readiness, for our year II program which involves taking off-site classes to earn EMT-Basic, EMT-Advanced and/or Firefighter I through outside agencies.

The Emergency Services (ES) program is unique. It is not taught by one teacher, rather by a set of active working paramedics, EMTs and firefighter instructors. While this arrangement gives the class an unmatched degree of authenticity, it does push students to adapt to having different instructors and their styles. It is also our intention to embed LRCC's Introduction to Emergency Services (FIRE124L) as part of the program.

Beyond the curriculum, students also get a feel of all aspects of the industry in ES1. This includes ride-alongs and regular visits from professionals in the field. By the time year one ends, students will have gained a clear understanding of the profession and in doing so, developed their own personal pathway.

Our second year, Emergency Services II (ES2), is for students who both want to return, and who have demonstrated the necessary readiness. The high-level performance expectations necessary to be invited back are made clear to call students.

EMERGENCY SERVICES II – CT1137

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Algebra, Geometry

Suggested Simultaneous courses: Chemistry, Physics, Fitness

The CTE Curriculum for the Emergency Services Program covers common and accepted competencies associated with national and state-based PE/Health standards. Students who complete Emergency Services II can earn .5 elective credit towards graduation expectations associated with PE/health. Students can petition their home school to do so.

Emergency Services II gives students the opportunity to pursue industry recognized certificates including EMT-Basic, EMT-Advanced, and Firefighter I. We sponsor some, if not all of the costs, associated with tuition. We provide mentoring throughout the process.

Some students choose to take EMT-B through our on-site Health Science II Program, but most take it off-site at either LRCC or Granite State EMS. One pathway is to take EMT-Basic in the fall and then EMT-Advance in the spring.

Some students choose to pursue earning their Firefighter I certificate at the NH State Fire Academy. This is generally done in the spring and is very time consuming. Students must become affiliated with a local fire department to be eligible for our sponsorship. We assist students to prepare during ES1.

Overall ES2 is a very different program requiring students to show incredible independence. Students often front load high school courses to gain the flexibility necessary. Some students going to LRCC elect to use our ELO process to extend their time there to take English Composition through the Early College Program where they earn high school and college credit. In addition, our instructors provide mentoring and support while the students are enrolled in these off-site programs.

GRAPHIC DESIGN & CREATIVE MEDIA I – CT1043

90-minute classes

5 Days/Week, Full Year

2 Credits

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

Suggested Simultaneous courses: Advanced Art, Business Management, Accounting

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

The CTE curriculum for Graphic Design and Creative Media I and II each cover common and accepted competency associated with national and state-based Art standards. CHS students who successfully complete Graphic Design and Creative Media I or II earn .5 elective credit towards graduation expectations related to art. Sending school students can petition their home school to seek a similar structure. Some are already approved.

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.

GRAPHIC DESIGN & CREATIVE MEDIA II – CT1053

90-minute classes

5 Days/Week, Full Year

2 Credits

Suggested Prerequisite courses: Art (Color Theory), Computer Courses, Geometry
Suggested Simultaneous courses: Advanced Art, Business Management, Accounting

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

The CTE curriculum for Graphic Design and Creative Media I and II each cover common and accepted competencies associated with national and state-based Art standards. CHS students who successfully complete Graphic Design and Creative Media I or II earn .5 elective credit towards graduation expectations related to art. Sending school students can petition their home school to seek a similar structure. Some are already approved.

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.

HEALTH SCIENCE I – CT1123

90-minute classes

5 Days/Week, Full Year

2 Credits

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 I covers all competencies associated with CHS Health II course. Students who successfully complete Health Science I are exempt from Health II. Overall, the CTE curriculum for Health Science I and II each cover common and accepted competency associated with national and state-based Health and Science curriculum. Students can petition their home school to seek elective credit. Some are already approved.

Students in this course will learn about job opportunities in the health profession and explore career options through research, self-assessment and guest speakers with 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.

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)

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

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

Overall, the CTE curriculum for Health Science program covers common and accepted competencies associated with national and state-based Health and Science curriculum. Students who completed Health Science II can petition their home school to seek elective credit towards graduation. Some are already approved.

Health Science & Technology II continues with the completion of studies in Anatomy and Physiology, Safety and Blood Borne Pathogen Training with attention to the development of specialized tasks and skills for career goals. Students will explore 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. Financial aid and/or payment plans are available for program fees. Students are also required to attend some evening and weekend clinical experiences to earn licensure. Students earn a license when they 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.)

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

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

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

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

The CTE curriculum for Theater and Film: Production and Design I and II each cover common and accepted competencies associated with national and state-based Art standards. CHS students who successfully complete Theater and Film: Production and Design I and II earn .5 elective credit towards graduation expectations related to art. Sending school students can petition their home school to seek a similar structure. Some are already approved.

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

As a **Production and Design Pathway** student, students 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, students learn stage and acting techniques while working with different types of scripts and settings. Students get constant feedback on their performances in accordance with industry expectations. You will 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.

CRTC+: OFFERINGS BEYOND CORE CRTC PROGRAMS

CRTC+ puts you in charge of building a senior year that will give you a head start on your college and career plans. While you remain a full-time student, 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 college class(es) in your chosen 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 (Education and Behavioral Science+) and Crimson Cafe (Culinary & Pastry Arts+) 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 will be doing once you get on the job. You will 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