



ConVal Regional High School



Region 14 Applied Technology Center

**Program of Studies**  
**2021-2022**

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# About ConVal High School

Contoocook Valley Regional High School is part of Contoocook Valley Regional School District, SAU #1, and serves the nine towns of Antrim, Bennington, Dublin, Franconia, Greenfield, Hancock, Peterborough, Sharon, and Temple.



## School Profile

Hours: 7:35—2:20

Enrollment: 726

Building Personnel: 106

Motto: "Here Comes ConVal!"

Mascot: Cougar

Colors: Blue and Gold

Address: 184 Hancock Road, Peterborough, NH 03458

Website: [cvhs.convalsd.net](http://cvhs.convalsd.net)

## Our Mission

The ConVal High School community is dedicated to learning, thinking and growing.

## Beliefs and Core Values

- Fostering a safe environment through positive culture
- Relentless pursuit of learning, thinking and growing
- Community demonstrates respect for self, peers, facility, and adults
- Students, parents, community, and staff working together

## 21<sup>st</sup> Century Learning Expectations

- Independent Thinker
- Effective Communicator
- Collaborative Team Member
- Informed Civic Contributor

## Learning Environment

ConVal Regional High School is a comprehensive public high school and is accredited by the New England Association of Schools and Colleges. Courses are offered on a four-by-four block schedule with daily classes for eighty minutes, and one forty-three minute intervention block.

In addition to Advanced Placement, honors and college preparatory courses, students participate in extended learning opportunities, internships, career education courses, career and technical courses and the arts. All students participate in an intervention block called TASC (Teachers in Academic Support Centers), which provides daily, forty-three minute guided interventions and/or extensions. Over fifty percent of our student body participates in athletics and/or extracurricular activities.

# ConVal High School Programs and Procedures

## Graduation Requirements

Subject Areas	ConVal Diploma	Adult Diploma Program
English	4	4
Global Studies	1	1
Economics/Government	1	1
US History	1	1
Science <i>Physical Science, Biology &amp; Earth Science</i>	3	2
Mathematics*	3 /4*	2
World Languages	0	0
Health	1	0
Physical Education	1	0
Arts Education	0.5	0
Information and Computer Technology**	0.5 (or competency)	0.5 (or competency)
Elective Offerings	10	8.5
<b>Total Credits</b>	<b>26</b>	<b>20</b>

\*Starting with the Class of 2023, students must have 4 credits of math, this requires the completion of at least Algebra 1; students must be enrolled in a math class every semester until the Algebra 1 completion requirement is met.

\*\*The following elective courses meet the Information and Computer Technology requirement: Introduction to Business, Robotics, and Website Design. The following CTE programs also meet the requirement with their introductory course: Business and Personal Law, Entrepreneurship and Small Business Ownership, Business Management, Principles of Marketing, Computer Networking I, Computer Software Development I, Digital Photo & Video I, Engineering Design I.

## Grading Procedures

### Grading Scale

ConVal High School uses the following grading scale:

A+ 97 - 100	B+ 87 - 89	C+ 77 - 79	D+ 67 - 69	
A 93 - 96	B 83 - 86	C 73 - 76	D 63 - 66	F below 60
A- 90 - 92	B- 80 - 82	C- 70 - 72	D- 60 - 62	

### *Weighted Grades*

ConVal assigns a value of 1.5 to all 010 courses, 1.25 to all 012 courses and 1.00 to all 123 courses for purposes of weighting grades. Weighted GPA is used for the determination of class rank. Transcripts communicate unweighted GPA.. Each course in the program of studies is labelled with the course level (010, 012, 123).

010 Courses (Honors, AP, and Dual Enrollment)  Value: 1.50	A+ 6.50	B+ 5.00	C+ 3.50	D+ 2.00	
	A 6.00	B 4.50	C 3.00	D 1.50	F 0.00
	A- 5.50	B- 4.00	C- 2.50	D- 1.00	
012 Courses  Value: 1.25	A+ 5.41	B+ 4.16	C+ 2.91	D+ 1.66	
	A 5.00	B 3.75	C 2.50	D 1.25	F 0.00
	A- 4.59	B- 3.34	C- 2.09	D- 0.84	
123 Courses  Value: 1.00	A+ 4.33	B+ 3.33	C+ 2.33	D+ 1.33	
	A 4.00	B 3.00	C 2.00	D 1.00	F 0.00
	A- 3.67	B- 2.67	C- 1.67	D- 0.67	

### **New Hampshire Scholars**

New Hampshire Scholars is part of the national State Scholars Initiative, and administered by the New Hampshire College and University Council, that seeks to incentivize students to take a rigorous course of study in high school to ensure preparation for college and/or career. There are four pathways to earning the distinction (requirements outlined below), and students that earn the distinction will be recognized in their senior year, have the distinction recorded on their diploma and transcript, and receive a medallion to wear at graduation. Students may also be eligible for college application fee waivers and scholarship opportunities at New Hampshire colleges.

To earn the distinction, students must formally sign on to earn the distinction by completing the NH Scholars agreement prior to the end of the first quarter of the senior year (typically, this will occur during course selection in the junior year). and complete the requirements for their respective pathway prior to graduation.

## New Hampshire Scholars Options

Subject Areas	NH Scholars Standard	NH Scholars STEM	NH Scholars Arts	NH Scholars Career Pathway
GPA Requirement	N/A	3.2	3.2	N/A
English	4	4	4	4
Global Studies	1	1	1	1
Economics/Government	1	1	1	1
US History	1	1	1	1
Social Studies Electives ( <i>Western Heritage, AP World: Modern, World Religions, Psychology, Post World War II, or Social Studies Through Sports</i> )	1	1	1	1
Science <i>Total credits (3 lab-based)</i>	4 (3 lab-based)	4 (3 lab-based)	4 (3 lab-based)	4 (3 lab-based))
Mathematics <i>Requires completion of Algebra 1, Algebra 2, Geometry, and 1 other</i>	4	4	4	4
World Languages <i>2 of the same language</i>	2	2	2	0
Health	1	1	1	1
Physical Education	1	1	1	1
Arts Education	0.5	0.5	2	0.5
Information and Computer Technology	0.5 or competency	0.5 or competency	0.5 or competency	0.5 or competency
Elective Offerings	5	4	3.5	varies
STEM	n/a	1	n/a	-
Career/Workforce Experience*				see below
<b>Total Credits</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>

\*Career/Workforce Experience includes each of the following:

- Successfully complete one of the following: Region 14 Applied Technology Center CTE program curriculum; Industry-aligned or career-driven extended learning opportunity; Running Start/Dual Enrollment credit; All sequence components in formal career pathway program of study; CCSNH industry certificate sequence
- Successfully engage in a work-based learning experience
- Successfully complete one of the following: College credits, Industry valued, recognized certificate, post-secondary hours

*See your counselor for details, These requirements reflect revisions for class of 2022 onward. Class of 2021 should refer to previous years Program of Studies requirements.*

## **Student Placement Procedure**

All ConVal students are encouraged to access the highest levels of academic challenge. Decisions about a student's academic placement take many factors into consideration, including the student's ability to persist and his/her demonstrated knowledge and skills in previous coursework. Input and recommendations from teachers, counselors, parents and students are carefully considered in this process.

## **Course Selection Process**

- Students consult with teachers and school counselors to select courses for the next year.
- Some courses require a teacher recommendation. Students and/or parents who would like to appeal a particular course placement/recommendation must communicate this in writing with the student's school counselor. A meeting will be held with the parent, student, teacher, and counselor as appropriate. If a decision is made to take a course that a student is not recommended for, the student and parent will be asked to acknowledge that they understand that the decision is not advised.

## **Project Running Start/Dual Enrollment Courses**

Dual enrollment courses are available at ConVal High School through an articulation agreement with the New Hampshire Community College System (NHCCS). Students may earn college credits for Project Running Start courses. Paperwork with parent signature is required.

ConVal High School offers dual enrollment courses in the following subject areas:

- Advanced Manufacturing Systems
- Advanced Placement courses (AP Chemistry, AP Biology, AP Calculus)
- Automotive Technician
- Computer Networking (Computer Networking I, Computer Networking II)
- Computer Programming and Software Development (Computer Programming and Software Development I, Computer Programming and Software Development II)
- Engineering and Mechanical Design (Introduction to Engineering Design, Engineering Design and Manufacturing I, II, III, IV)
- English College Composition
- Fire Science and Emergency Technician (Firefighting I, Emergency Medical Technician)
- Graphic Design II
- Robotics
- Careers in Education (Human Growth & Development and Careers in Education I, II)

Many of the Project Running Start dual enrollment courses also qualify for the STEM and Arts pathways of the NH Scholars Program. The School Counseling Office will be able to provide additional information upon request.

## Scheduling Changes and Add Deadlines

- Student/parent requests for specific teachers cannot be considered unless a student previously failed the same course with the same teacher.
- Students typically cannot add courses after 5 school days from the start of the course.
- Students who drop a class after this deadline will receive a grade of W based on the discussion and recommendation of the teacher, counselor, and administration.
- Students may move into/out of weighted courses until the week after the first progress report, upon a written request by the parent and with the support of the teacher as space and scheduling permit.
- If a student is retaking a course to improve a grade, the new grade will show on the transcript and be figured into the GPA calculation. The old grade will also remain on the transcript; however, the point value will not be figured. Students typically only earn one credit for a repeated course.

## Limited Release

- Only juniors and seniors are eligible for limited release.
- Parent permission and administrative approval are required.
- Juniors and seniors must sign in and out at the main office.
- Juniors and seniors who leave 4th block may not return to campus until 2:20.
- Transportation for release privileges is the responsibility of the parent and student.
- Juniors and seniors are responsible for attending TASC unless otherwise approved by their school counselor.
- Juniors and seniors may not transport students without this privilege off campus.

Administration may revoke these privileges at any time for violations of the ConVal High School Code of Conduct or these guidelines.

## Middle School Credit

New Hampshire State policy states that a high school may grant credit for courses at the 8th grade level that meet high school standards, and they may appear on the transcript.

## Alternative Credit Options

### 5th Block Classes

Students may have the option of taking required or elective courses after school two days per week, based on Academy offerings. Students may have the option of participating in credit recovery and/or skill building activities after school two days per week. *Capacity and offerings may be influenced/restricted by COVID-19 Response as we begin the 2021-2022 school year.*

## **Extended Learning Opportunities**

Students may engage in educational experiences that reach beyond the brick and mortar of the school, the regular school day as well as extend their learning beyond the standard offerings. Students shall not be permitted to take more than two extended learning opportunities simultaneously. Students may include a maximum of 6 credits for extended learning opportunities on their transcript. Extended Learning Opportunities are assessed on a pass/fail basis. Weight is applied at the 012 Course Level.

## **Internships**

Students may also wish to experience the world of work first-hand by becoming an intern at a local business. While internships can be used in a variety of ways, they work best when they are the capstone or culminating event in a student's high school course of study. For example, a student who is interested in pursuing a career as a dental hygienist should take all the appropriate science and health occupations classes before becoming an intern at a local dental office. This way, the student is able to have the best possible experience as an intern while the local business gains the benefit of working with a student truly interested in the profession. Open to Juniors and Seniors only. Internships are assessed on a pass/fail basis. Weight is applied at the 012 course level.

## **Credit Recovery**

Students must meet with their school counselor to review their transcripts and discuss the possibility of credit recovery coursework prior to registering for a course. If a student is retaking a course to improve a grade, the new grade will show on the transcript and will be figured into the grade point average calculation. The old grade will also show; however, the point value will not be figured. Students taking graduation requirements must complete credit recovery courses by the end of Quarter 3 of their senior year.

## **Summer Academy**

Students have the opportunity to take credit recovery and first time credit courses during a five week Summer Academy. Students are invited to register for courses for a designated fee. *Offerings may be influenced/restricted by COVID-19 as we begin the 2021-2022 school year.*

## **Specialized Programs**

ConVal High School (CVHS) believes strongly in the value of each and every student and creates opportunities to meet the needs of all students. We carry with that a strong value of a school dedicated to providing full inclusionary opportunities for students. The school's Special Education Department ensures that students with educational disabilities are provided a Free, Appropriate Public Education (FAPE) to all students 9-12 who have been determined to have an educational disability as mandated by IDEA. Services are determined in response to the student's unique needs and are based upon the student's Individual Education Plan (IEP). With full inclusion as the foundation of our practice, these services will be provided in the Least Restrictive Environment (LRE) providing access to the general education curriculum. CVHS has developed a wide array of programming supports to meet the unique needs of each student.

## **Programming Supports**

*Universal Learning Lab Skills Academy:* Designed and implemented for students who benefit from specialized instruction in reading, math, written expression, and executive functioning skills, in order to improve skills and close student learning gaps in these areas. The skills lab is taught by dedicated special education teachers specializing in skill development in each content area. This program is taught during third block in order to create 45 minute skinny sessions before and after lunch.

*Intensive Learning Skills (ILS):* Designed and implemented for students who benefit from significant and intensive support in math, reading, writing skills, and functional life skills, and who experience deficits in those skills areas. This program is served by dedicated special education teachers, related services personnel, and paraprofessionals.

*Expect Success Program (ESP):*

Designed and implemented for students who benefit from specialized instruction and significant social-emotional support in order to successfully maneuver the required high school graduation requirements and general classroom curriculum requirements. Students are supported in the general curriculum by program staff trained in LSCI and CPI who assist them with emotional regulation, executive functioning, and other areas of need.

*General Curriculum Supports:*

General curriculum supports are provided in core content areas: English, Math, Social Studies, and Science. Co-taught classes are provided in English 9,10, and 11, Government/Economics, Eastern World Heritage, U.S. History, Pre-Algebra, and Algebra 1 Part 1. In these classes, the regular education teacher and special education teacher collaborate in the planning and the delivery of course content. The special education teacher is instrumental in these classes in providing the targeted instruction beneficial to all students. Para-educator supports are also available based on the individual education plan.

## **Adult Diploma Program**

The ConVal Adult Diploma Program (ADP) is a 20 credit diploma offering available for students seeking an alternative to the 26 credit diploma offering at ConVal. Students must apply for admission to the Adult Diploma Program by March 31st of their Senior/Graduating year and be approved by the Adult Diploma Director. Students under the age of 18 must have written permission from their parent/guardian. Once approved, students will work with the Adult Diploma Director and their School Counselor to develop their individual plan.

A ConVal Adult Diploma requires students to obtain a minimum of 20 credits as outlined by the State of New Hampshire. In order to be eligible for an ADP diploma students must complete a required minimum 45 credit hours from a pre-approved ADP offering that must be separate from a ConVal credit-bearing course. Options include (but are not limited to): Work Study, Internship, Independent Study, ELO, Credit Recovery, HiSET Prep course, ConVal night class, or a distance learning class through BYU, VLACS, or another accredited online institution. This alternative is not recommended for students who plan to apply to four-year colleges.

## English Department

The courses in the English department consist of a set of core required one-credit courses and a variety of full credit and half-credit courses that are electives. All students are required to complete four (4) credits of English for graduation and there are required courses in English for freshmen, sophomores, and juniors. All students must complete three (3) of their four (4) required English credits through the appropriate level of classes with the remaining credit satisfied with electives of choice with recommendations from the department.



Course	9	10	11	12	Prerequisite
English 9	x				None
English 9 Honors	x				8th Grade LA Teacher Recommendation and completion of fall semester TASC extension
English 10		x			English 9/9H
English 10 Honors		x			Teacher Recommendation
English 11 American Cultural Studies			x		English 10/10H
AP English Language & Composition		x	x	x	Teacher Recommendation
AP English Literature			x	x	Teacher Recommendation
College Composition			x	x	English 11 or AP Lang & Comp or AP Literature
Young Adult Fiction	x	x	x	x	None
Philosophy			x	x	None
Aesthetics & Ideas		x	x	x	None
Interpersonal Communication	x	x	x	x	None
Mass Media Communication	x	x	x	x	None
Creative Writing Workshop	x	x	x	x	None
Human Nature & Storytelling		x	x	x	English 9, English 10
Introduction to Theater Arts	x	x	x	x	None
Theater Arts Workshop	x	x	x	x	Intro to Theatre Arts or Teacher Recommendation

## English 9

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

The freshman program provides a foundation for secondary school English. Students study a range of literary genres and nonfiction, focus on a variety of writing modes, and practice speaking, listening, and viewing. Introducing students to important concepts they will need throughout their high school careers and beyond, the course follows a program shaped by a series of essential questions and the Common Core State Standards. It is supplemented with three additional texts (*Of Mice and Men*, *Tuesdays with Morrie*, and *Romeo & Juliet*). Students will work toward proficiency in reading by using several comprehension strategies, including summarizing, predicting, and two-column note taking; and in writing by composing informational and expository multi-paragraph essays.

## English 9 Honors

Prerequisite: Final placement recommendation will be made after consultation with the middle school Language Arts teacher. Successful completion of a reading and writing project to be administered in the fall of 9th grade during TASC is required.

Course Level: 010

Credit: 1 Term: Semester

This course, designed for students who demonstrate proficient skills in reading and writing, supplements the core English program for grade 9 with additional literary works, writing assignments, and projects. *A preparatory assignment may be required for the course that would be due prior to the start of the semester. The instructor will communicate details directly to enrolled students.*

## English 10

Prerequisite: English 9

Course Level: 012

Credit: 1 Term: Semester

The sophomore program extends the areas of emphasis in English 9, with study of a variety of literary genres and nonfiction, and a focus on writing and practice in speaking, listening, and viewing. Continuing to use a program shaped by essential questions and the Common Core State Standards, along with three supplementary texts (*To Kill a Mockingbird*, *Night*, and *Macbeth*), students will master essential skills in reading and writing that will promote their learning in all disciplines. Students will increase their proficiency in writing as citing textual evidence becomes the norm in responding critically to literature. Essays of argument will feature more prominently in the curriculum. As reading for comprehension becomes more challenging and more is required outside of the classroom, students will identify and focus on those reading strategies that work best for them individually.

## English 10 Honors

Prerequisite: English 9/gH, teacher recommendation

Course Level: 010

Credit: 1 Term: Semester

For students who have demonstrated proficient skills in reading and writing, this course supplements the tenth grade core curriculum with additional reading, writing, and projects. This is designated as an honors class with longer and additional reading assignments, and more complex writing and research assignments. *A preparatory assignment may be required for the course that would be due prior to the start of the semester. The instructor will communicate details directly to enrolled students.*

## English 11/American Cultural Studies

Prerequisite: English 10/10H

Course Level: 012

Credit: 1 Term: Semester

This core course for juniors introduces students to the major ideas and concepts of American culture historically and in the present culture. Students reflect on the American experience in literature, media, film, and their own writing. Students focus on speaking and listening while building their proficiency in the Common Core State Standards of reading and writing.

## Advanced Placement English Language & Composition

Prerequisite: Teacher recommendation

Course Level: 010

Credits: 2 Term: Year

For sophomores, juniors, and seniors motivated to dedicate two semesters to developing their thinking, reading, and writing skills for life-long and college and career-ready application. This course offers diverse and engaging opportunities to build essential writing and reading skills helpful for all writing purposes — academic, rhetorical, and literary. Students primarily read and analyze non-fiction; however, they also study fiction, drama, and poetry. Writing assignments focus on the essay form: argument and explanatory essays, in particular, narrative and personal writing, as well. As part of the course, students will also practice and prepare for the Advanced Placement Language and Composition Examination in May. *A preparatory assignment may be required for the course that would be due prior to the start of the semester. The instructor will communicate details directly to enrolled students.*

## Advanced Placement English Literature

Prerequisite: Teacher recommendation

Course Level: 010

Credit: 1 Term: Semester

This is a course for juniors and seniors excited about reading literature and developing both their analytical reading skills and argument and explanatory writing skills. Students close-read classic and contemporary fiction, poems, and plays, and develop their understanding of the ways writers use language in literary texts to provide both meaning and pleasure to readers. Through daily reading, writing, and discussion, students consider the writer's use of structure and style, especially as it relates to theme. Also in relation to theme, students examine the smaller-scale elements of text, such as the use of diction, figurative language, imagery, symbolism, and tone. Units include practice in timed-essay writing and the application of various forms of literary criticism. Writing-to-learn and multiple-draft processes are central to the course. Students will also prepare for the AP Literature Exam in May. *A preparatory assignment may be required for the course that would be due prior to the start of the semester. The instructor will communicate details directly to enrolled students.*

## College Composition **Running Start**

Prerequisite: English 11 or AP English Lang/Comp

Course Level: 010

Credit: 1 Term: Semester

In this course, students learn to write clearly and effectively for defined audiences through a variety of strategies. Emphasis is on the writing process from pre-writing through drafting, revising and editing. Students gain confidence through learning the basic principles of effective expository composition and the application of these principles in writing essays and documented papers. Students will also read and examine a wide variety of writers and writing styles. This class is a core requirement for all degree programs at Nashua Community College. *Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee and may fulfil the first level writing course at many colleges.*

## **Young Adult Fiction**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Did you love *The Hunger Games* and *Divergent*? Obsessed with *Twilight* or *City of Bones*? Did you devour the Harry Potter series, or perhaps the more recent *Daughter of Smoke and Bone*? This class will explore the current phenomena of dystopian, paranormal, and fantasy literature as sure-fire best sellers. Reading, writing, and research will be central to the course as students explore the conventions of these genres, consider themes within and among the texts, and examine what makes them so popular with a wide range of readers.

## **Philosophy**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Students in this survey course of Western philosophy study the philosophies and writings of such thinkers as Plato, Aristotle, Montaigne, Emerson, Dewey, Huxley, Hesse, Rand, and Nussbaum. In developing a basic understanding of ethics, citizenry, and effective writing and speaking, each student develops philosophies of their own. The emphasis of the course is on self-knowledge and community building through reading, writing, speaking, and listening.

## **Aesthetics & Ideas**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Asking the essential question, "how art, stories, faiths and philosophies shape individual and community identities," this Art and English department collaboration explores everything great about art, language and ideas. Through large group, small group, independent and online explorations, students and co-teachers from each department will look at what it means to be human, the power of communication and community and how, what, and why humans have made, collected and shared art and stories and faiths and philosophies to both unite and separate themselves from other cultures, societies and traditions. This class is heavy on thinking, making and doing. Be excited, be very, very excited. *This course awards .5 credit in Art and .5 in English and can be taken for a full English credit. This determination must be made at the start of the course.*

## **Interpersonal Communication**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

This course introduces students to communication in interpersonal, small group, and public speaking settings. Course topics include the foundations of communication (perception, language, nonverbal communication), interpersonal communication, small group communication, public speaking, and interviewing. Students will study communication skills, understand the communication choices they can make, and evaluate the consequences of those choices.

## **Mass Media Communication**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

This hands-on course will allow students to work on real news stories and features for school as well as class publications. Additionally, they will participate in formal and informal discussions about journalistic ethics, issues, and the role journalism plays in our culture. Students will analyze the changing journalistic landscape and evaluate how emerging mediums affect how news is disseminated and consumed. Further, students will employ a variety of these mediums to report on the stories they investigate.

## **Creative Writing Workshop**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

This semester course will give students more advanced instruction and practice in creative writing (incl. fiction, poetry, and dramatic writing). Students will write every day, revise each piece at least twice, and bring to a final draft at least one piece every two weeks, resulting in a portfolio that will be assessed for a final grade. Peer workshop revision and editing will be part of the daily writing process.

## **Human Nature & Storytelling**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

The world is made of stories. Even this statement is a story — it's true! If you are curious about yourself, your friends and family, your neighbors, if you are interested in strange people, unfamiliar cultures, far-flung real and imaginary worlds and time periods: this is the class for you. Through close reading and viewing, listening and discussing, and note taking and writing, we will look at ourselves and our stories as shared in film, plays, podcasts, poems, and short stories. We will make a few stories of our own, too!

## **Introduction to Theater Arts**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Theatre Arts is a production-based introductory class in which students learn and practice acting, directing and technical theatre skills along with theatre history, and script analysis. Students participate in various improvisation and theatre games, as well as other community building activities. Learning about the design and building of sets, costumes, make-up, lights and sound, students identify meaning and technique in the visual components of performance. Acting skills are also identified and explained through the monologue process. The "final showcase" of the course allows a student to select one or two areas of expertise to help produce a selection of work to present to an invited audience. *This course may be taken for either English or Visual and Performing Arts Credit. This determination must be made at the start of the course.*

## **Theater Arts Workshop**

Prerequisite: Introduction to Theater Arts

Course Level: 012

Credit: 1 Term: Semester

Theatre Arts Workshop a production-based class designed for students with an interest in exploring the process of creating and developing their own creative theatre work. Students in this class may work on skills in directing, performing, technical design, playwriting, etc. Students will present their work in a culminating Showcase. Attendance at the final showcase is required. Students taking this class must be prepared to commit time outside of class for auditions, rehearsal and performance time if they seek to direct a short play. This course may be taken multiple times. Students must have either previously taken Introduction to Theatre Arts or have involvement in a theatre program with the approval of the instructor. *This course may be taken for either English or Visual and Performing Arts Credit. This determination must be made at the start of the course.*

# Mathematics Department

Planning is important in selecting mathematics courses. Personal interest, graduation requirements, and college requirements should be considered in determining which courses are taken and in what order. Three (3) mathematics credits are required for graduation for the class of 2021 and 2022. Four (4) credits are required for the class of 2023 and beyond and must include Algebra 1. A sequence of courses through Algebra 2 is typically required for college admission; Algebra 3 and/or Trigonometry are recommended for more competitive schools.



Course	9	10	11	12	Prerequisite
Pre-Algebra	x	x	x		Teacher Recommendation
Algebra 1 part 1	x	x	x	x	Teacher Recommendation
Algebra 1 part 2	x	x	x	x	Algebra 1 part 1 and Teacher Recommendation
Geometry Concepts		x	x	x	Algebra 1 Part. 1 & 2 and Teacher Recommendation
Geometry	x	x	x	x	Algebra 1 and Teacher Recommendation
Geometry Honors	x	x	x	x	Algebra 1 and Teacher Recommendation
Algebra 2	x	x	x	x	Algebra 1 and Teacher Recommendation
Algebra 2 Honors	x	x	x	x	Algebra 1 and Teacher Recommendation
Topics in Algebra			x	x	Algebra 1 or Concepts and Teacher Recommendation
Algebra 3		x	x	x	Algebra 2, Geometry and Teacher Recommendation
Trigonometry		x	x	x	Algebra 3 and Teacher Recommendation
Statistics			x	x	Algebra 2 and Teacher Recommendation
Calculus			x	x	Teacher Recommendation
AP Calculus			x	x	Pre Calculus Honors and Teacher Recommendation
AP Calculus/Physics				x	AP Calculus and Teacher Recommendation

## Pre-Algebra

Prerequisite: Teacher Recommendation

Course Level: 123

Credit: 1 Term: Semester

This course is designed to reinforce the computational skills and basic algebraic and geometric concepts needed to be successful in Algebra 1 and Geometry. Course content includes: operations with whole numbers, fractions, decimals, percentages, and integers; an introduction to geometric terms, area and perimeter; an introduction to algebraic expressions and equations; and an introduction to probability. Time will be devoted to both practicing skills and applying skills and concepts to real world problems.

**Algebra Part 1 and Part 2**

Course Level: 012

Prerequisite: Teacher Recommendation

Credits: 2 Term: year (both semesters)

Description: This course is designed to build upon the computational and basic algebraic skills developed in Pre-Algebra. Course content includes: Evaluating and simplifying expressions, solving linear, quadratic and exponential equations as well as inequalities and systems, and graphing linear, quadratic and exponential functions.

**Geometry Concepts**

Course Level: 123

Prerequisite: Teacher Recommendation

Credit: 1 Term: Semester

This course is designed to allow students to gain experience with basic geometric properties. Students will learn the properties of angles, fundamental geometric shapes and develop skills in measurement (perimeter and area). Topics will also include an exploration of theorems related to right triangles and triangle similarity and congruence.

**Geometry**

Course Level: 012

Prerequisite: Algebra 1 and Teacher recommendation

Credit: 1 Term: Semester

Geometry provides students with experiences that deepen the understanding of two dimensional objects and their properties. Cooperative learning groups will be used to develop deductive and inductive reasoning, analyzing conjectures and formulating proofs. Investigative strategies in drawing conclusions are stressed. Properties and relationships of geometric objects include the study of: (1) points, lines, angles and planes; (2) polygons, with a special focus on quadrilaterals, triangles, right triangles; (3) circles.

**Geometry Honors**

Course Level: 010

Prerequisite: Algebra 1 and Teacher Recommendation

Credit: 1 Term: Semester

Honors Geometry provides students with the same foundations they develop in Geometry. In addition, other topics are introduced and concepts are covered in more depth, at a faster pace. More complex proofs are addressed and more open-ended, challenging questions are assigned.

**Algebra 2**

Course Level: 012

Prerequisite: Algebra 1 and Teacher Recommendation

Credit: 1 Term: Semester

Algebra 2 is a continuation of the Algebra 1 course. The objective is to complete a study of Algebra 2 topics, including: the structure of the real number system with an extension into the complex number system and a careful study of mathematical functions (constant, linear, quadratic, radical, polynomial, logarithmic, and exponential). Students will solve equations for the roots of these functions, as well as graph transformations.

**Algebra 2 Honors**

Course Level: 010

Prerequisite: Algebra 1 and Teacher Recommendation

Credit: 1 Term: Semester

Honors Algebra 2 is a continuation of the Algebra 1 program for students who have demonstrated exceptional mathematical ability. The objective of this course is to complete a study of Algebra 2 topics. These topics include, but are not limited to: the structure of the real number system with an extension into the complex number system, a careful study of mathematical functions (constant,

linear, quadratic, polynomial, rational, logarithmic, and exponential), sequences and series, and permutations, combinations and probability. Emphasis will be placed on solving challenging real world problems in a fast-paced environment.

### **Topics in Algebra**

Prerequisite: Algebra 1 Part 1 and Part 2 or Algebra Concepts and/or Teacher Recommendation

Course Level: 012  
Credit: 1 Term: Semester

This is a survey course, focusing primarily on the algebra skills needed to enter the work-force or community colleges. Students will develop facility in simplifying and evaluating polynomial and rational expressions as well as solving linear equations and inequalities, quadratic equations and systems of linear equations. Emphasis will be placed on applying these skills in solving real world problems. This course is designed to offer juniors or seniors an Algebra experience so they may be capable of handling a fundamental community college math course. The course content is similar to that of an Algebra 1 course with a few elements from Algebra 2. Students may not take this course if they have already earned a credit in Algebra 2.

### **Algebra 3**

Prerequisite: Algebra 2, Geometry and Teacher Recommendation

Course Level: 012  
Credit: 1 Term: Semester

In this course, students will develop an in-depth knowledge of the nine algebraic functions: linear, absolute value, quadratic, cubic, greatest integer, radical, rational, exponential, and logarithmic. Other topics may include: Conic Sections, Limits, Sequences and Series, and Vectors.

### **Trigonometry**

Prerequisite: Algebra 3 and Teacher Recommendation

Course Level: 012  
Credit: 1 Term: Semester

This course will focus on a study of trigonometry, including: analyzing and graphing the six trigonometric functions, solving trigonometric identities, and applying this knowledge to a study of vectors, parametric equations, and polar equations. Students will also incorporate a study of analytic geometry in two and three dimensions. An emphasis will be placed on problem solving and applications.

### **Statistics**

Prerequisite: Algebra 2 and Teacher Recommendation

Course Level: 012  
Credit: 1 Term: Semester

Statistics is a college-level, non-calculus based course in introductory statistics. It is an excellent option for any student who has successfully completed Algebra 2. This course is designed to present strategies for collecting, organizing, and drawing conclusions from data. Students will learn to interpret and judge the statistical information in the world around them. Computers and calculators will allow students to investigate and explore statistical concepts. Effective communication skills will be developed through regular written analysis of real data.

**Honors Pre-Calculus** will not be offered during the 2021-2022 school year.

## Calculus

Prerequisite: Teacher Recommendation

Course Level: 012

Credit: 1 Term: Semester

This course is designed for those students who want to gain a basic understanding of differential and integral calculus in one semester. The class will provide students with a solid foundation for the AP Calculus class or college calculus.

## Advanced Placement Calculus **Running Start**

Prerequisite: Trigonometry and Teacher Recommendation

Course Level: 010

Credits: 2 / year

Understanding concepts and techniques of calculus is required for study of advanced mathematics, physical sciences, life sciences, economics, business, and other disciplines. AP calculus, for students with demonstrated ability and interest in mathematics, is equivalent to at least a two-semester college-level course in differential and integral calculus. The course content conforms to the College Board AP Program recommendations but is not limited to that. AP Calculus prepares students to take either the AP Calculus AB level or BC level exam. Which exam a student chooses will be determined based upon the student's performance in the course. Successful exam scores may result in advanced placement and/or college credit *Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.*

## Advanced Placement Calculus /Physics **Running Start**

Prerequisite: AP Calculus and Teacher Recommendation

Course Level: 010

Credits: 2 / year

Calculus was initially developed as a tool to solve problems in many areas, particularly in physics. This course is designed to reinforce that idea. While adhering to both curriculums, the students will be applying their newly found calculus knowledge to physics problems. Upon completing the course students will receive two credits, one math and one science, and have the opportunity to take three AP exams. *Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.*



# Science Department

The ConVal Science curriculum is aligned to national science standards. The Next Generation Science Standards (NGSS) emphasize teaching students the practices that scientists and engineers use on a daily basis as well as the concepts that are related to the content area. Three courses — Physical Science, Biology, and Earth & Space Science — are required for graduation (3 credits).



Course	9	10	11	12	Prerequisite
Physical Science*	x				None
Earth and Space Science		x	x	x	Physical Science (Biology recommended)
Biology or Biology Topics*		x			Physical Science
Honors Biology*		x			Physical Science and Teacher Recommendation
Chemistry*		x	x	x	Physical Science
Honors Chemistry*		x	x	x	Physical Science and Teacher Recommendation
AP Chemistry*			x	x	Honors Chemistry and Teacher Recommendation, (Honors Biology recommended)
Physics*		x	x	x	Physical Science, Algebra part 1 and 2 and Teacher Recommendation
AP Biology*			x	x	Honors Chemistry, Honors Biology and Teacher Recommendation
AP Calculus/Physics			x	x	AP Calculus/Teacher Recommendation
Anatomy & Physiology 1*			x	x	Biology and Teacher Recommendation
Anatomy & Physiology 2*			x	x	Biology and Teacher Recommendation

\*Indicates lab-based science course.

## Physical Science

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Physical Science is ConVal's introductory lab-based science course covering the basics of scientific and engineering practices and STEM principles. Chemistry topics include matter and energy while physics topics include motion, forces and waves. Students will engage in hands-on labs, inquiries and activities, apply math and graphing to many scientific problems, and will be challenged to understand and analyze natural phenomena.

## **Earth and Space Science**

Prerequisite: Physical Science (Biology recommended)

Course Level: 012

Credit: 1 Term: Semester

Earth and Space Science is designed to take students on a journey from the beginning of our universe, to the formation of the stars, to the future of life on Earth. Students will explore living and nonliving systems and how they function as part of The Earth System. Topics will include the Big Bang Theory, the fate of the sun, stellar evolution, Earth's place in space, the impacts of shifting tectonic plates, how matter and energy are recycled, climate change causes & effects, and humanity's evolving relationship with the Earth. Students will explore Earth and Space Science through individual and group activities, argumentative writing, collaborative efforts to problem-solve, science and engineering practices, and research-based STEM projects.

## **Biology**

Prerequisite: Physical Science

Course Level: 012

Credit: 1 Term: Semester

Biology, the study of living organisms, increases students' understanding of themselves as living organisms. This lab-based course examines cell structure/function relationships, unity and diversity among life forms, and heredity. Students successfully completing this course will better understand how living organisms function and interact as well as biomedical, ecological, and ethical issues of our society. They will be able to make informed decisions as citizens.

## **Honors Biology**

Prerequisite: Physical Science and Teacher Recommendation

Course Level: 010

Credit: 1 Term: Semester

This lab-based course explores the same general topics as level 012 but utilizes molecular biology as its base. It also involves more reading, writing, and homework, as well as application of higher-level thinking skills. To succeed at the honors level, the student must demonstrate proficiency in time management and active reading.

## **Biology Topics**

Prerequisite: Biology teacher permission

Course Level: 123

Credit: 1 Term: Semester

This course focuses on applying life science concepts to humans, plants, and animals. Students will carry out lab investigations and spend time outside every week. Time will also be spent developing reading, writing, and math skills. Assessment will be based on quizzes, projects, and portfolio entries.

## **Chemistry**

Prerequisite: Physical Science

Course Level: 012

Credit: 1 Term: Semester

This lab-based course, which prepares students for college entry, emphasizes experimental chemistry techniques and problem solving skills. Topics include formulas of chemical compounds, writing and balancing chemical equations, chemical reaction types, acids and bases, and calculations involving chemical quantities. The chemistry of Forensic Science will also be investigated. Forensic Science topics will include fingerprint analysis, ink separation techniques, and soil analysis. Students must have solid time management skills and the motivation to master the basic mathematical concepts of chemistry.

## Honors Chemistry

Prerequisite: Physical Science and Teacher Recommendation

Course Level: 010

Credit: 1 Term: Semester

This lab-based course is designed to meet the needs of the highly capable student who demonstrates excellent writing, reading and thinking skills, and has a genuine interest in the sciences. Laboratory experiments stress inquiry skills, mathematical analysis of the data, and application to real-world problems. This course prepares students for success in Advanced Placement Chemistry and offers opportunities for hands-on exploration of many chemistry topics.

## Advanced Placement Chemistry **Running Start**

Prerequisite: Honors Chemistry or Chemistry and Teacher Recommendation  
(Honors Biology recommended)

Course Level: 010

Credits: 2 Term: Year

This lab-based course is designed to be the equivalent of the general chemistry course taken during the first year of college. Students will prepare for the AP Chemistry exam, which provides for the possibility of college credit. Laboratory work and demonstrations supplement the lecture portion of the course. This course is offered alternate years with AP Biology. *Running Start Course: Dual credit option for this course is available for Juniors and Seniors.*

## Physics

Prerequisite: Teacher Recommendation, Algebra I (Part 1 and 2)

Course Level: 012

Credit: 1 Term: Semester

This is a Conceptual Physics course requiring working skills in Algebra and Geometry. Course content includes the fundamentals of motion, force, energy, work and physical properties of matter including inertia, momentum, and gravitational attraction. Students will explore these properties through numerous hands-on investigations.

## Advanced Placement Biology **Running Start**

Prerequisite: Honors Chemistry, Honors Biology, Teacher Recommendation

Course Level: 010

Credits: 2 Term: Year

This lab-based course is designed to be the equivalent of the general biology course taken during the first year of college. The unifying themes of this course are Evolution, Energy and Matter, and Interactions within Biological Systems. Students explore topics through several hands-on inquiry investigations, both at the microscopic and macroscopic level. A minimum of 25% of the course is spent engaging in laboratory exercises. Lecture notes, group projects, and assigned readings are used to reinforce student learning. This course prepares students for the AP Biology Exam, which provides opportunity for college credit. This course is typically offered alternate years with AP Chemistry. *Running Start Course: Dual credit option for this course is available for Juniors and Seniors.*

## Advanced Placement Calculus/Physics **Running Start**

Prerequisite: AP Calculus and Teacher Recommendation

Course Level: 010

Credits: 2 Term: Year

Calculus was initially developed as a tool to solve problems in many areas, particularly in physics. This course is designed to reinforce that idea. While adhering to both curriculums, the students will be applying their newly found calculus knowledge to physics problems. Upon completing the course students will receive two credits, one math and one science, and have the opportunity to take three AP exams. *Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.*

## Anatomy and Physiology 1

Prerequisite: Biology and Teacher Recommendation

Course Level: 012

Credit: 1 Term: Semester

This very demanding course was designed for students who have expressed an interest in pursuing a career in a health-related field. Students in this class explore the systems of the human body through both individual and group projects. Participation in dissections, lectures, laboratory experiences and independent research is required. The successful student demonstrates good time management skills. Content addressed in this section includes: introduction of anatomy and physiology, organization of the body, medical terminology, histology, integumentary system, skeletal system, muscular system, nervous system, somatic and special senses, rabbit dissection, and health care issues. *This is a two-part course; students may opt for the first or second part of this curriculum separately for one credit each.*

## Anatomy and Physiology 2

Prerequisite: Biology and Teacher Recommendation

Course Level: 012

Credit: 1 Term: Semester

This very demanding course was designed for students who have expressed an interest in pursuing a career in a health-related field. Students in this class explore the systems of the human body through both individual and group projects. Participation in dissections, lectures, laboratory experiences and independent research is required. The successful student demonstrates good time management skills. Content addressed in this section includes: endocrine system, blood and lymphatic systems, cardiovascular system, respiratory system, digestive system, nutrition and metabolism, urinary system, reproductive system, health occupations, history of medicine, and health care issues. *This is a two-part course; students may opt for the first or second part of this curriculum separately for one credit each.*



## Social Studies Department

All students are required to complete three (3) credits in Social Studies for graduation. Credits are earned by completing Eastern World Heritage, the US History program as well as Government/Economics. The Social Studies department also offers a number of opportunities to fulfill elective credits, such as AP World, Post World War II, Psychology, Social Studies Through Sports, Western Heritage, and World Religions.



Course	9	10	11	12	Prerequisite
Eastern World Heritage	x				None
Western World Heritage		x	x	x	Eastern World Heritage
AP World: Modern		x	x	x	Eastern World Heritage and Teacher Recommendation
American Economics/Government		x	x	x	None
United States History			x	x	Eastern World Heritage or comparable equivalent
AP United States History			x	x	Eastern World Heritage and Teacher Recommendation
World Religions			x	x	None
Psychology			x	x	None
Post World War II			x	x	United States History
Social Studies through Sports	x	x	x	x	None

### Eastern World Heritage

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

This course examines both the historical and geographic trends that have led to the development and sustainability of Eastern civilizations. Beginning with a study of geographic principles students will conduct a brief study of current issues in the Eastern World. Through the rest of the semester students examine how Eastern civilization developed and interacted with Western civilizations from development of Islam to current globalization. The skills needed for the rest of high school social studies program are introduced and practiced.

### Western World Heritage

Prerequisite: Eastern World Heritage

Course Level: 012

Credit: 1 Term: Semester

This course examines both the historical and geographic trends that have led to the development and sustainability of Western civilizations. Beginning with a study of the cultural hearths of Europe, Africa and Meso-America, students conduct a brief survey of how Western civilization developed and interacted with Eastern civilization from the first globalization to the present. The skills needed for the rest of high school social studies program are introduced and practiced.

**Advanced Placement World: Modern**

Prerequisite: Eastern World Heritage and Teacher Recommendation

Course Level: 010

Credits: 2 Term: Year

This course develops a greater understanding of the evolution of global processes and contacts. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course builds on an understanding of cultural, institutional and technological precedents that, along with geography, set the human stage. Periodization forms an organizing principle for analyzing change. This course examines the great cultural civilizations of the Middle East, Europe, Africa, Asia, and Latin America.

**American Government and Economics**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

This required course supports students in becoming active participants in the American Political and economic systems. Students learn the role of government and politics at the local, state and federal level, and explore the impact of the rule of law and our guiding principles. From an economic perspective, students will study the impact that scarcity has on individual, business, and federal government decisions, and will also delve into the micro and macro forces that influence financial, labor and global markets. This will be accomplished through an issues-based curriculum integrating both disciplines.

**United States History**

Prerequisite: Eastern World Heritage or comparable equivalent

Course Level: 012

Credit: 1 Term: Semester

This course will address selected topics and themes in American History beginning with the Civil War and ending with the events on September 11th, 2001. This course is intended for students who are seeking an understanding of the events and forces that have shaped modern American life.

**Advanced Placement United States History**

Prerequisite: Eastern World Heritage and Teacher Recommendation

Course Level: 010

Credits: 2 Term: Year

This course is for serious history students and will cover selected topics and events in American History beginning with the discovery of the New World and culminating with an analysis of the events of the 2000s. This course will prepare students for the AP Examination in US History.

**World Religions**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

This course will explore the religions of Judaism, Christianity and Islam and eastern religions such as Hinduism, Buddhism and Taoism. Students will explore, compare and evaluate the foundations, beliefs, practices and traditions of each religion. Students will evaluate why humans believe and analyze the empiricist criticisms of religious belief.

**Psychology**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

This course is for students seeking an understanding of human behavior, emotions and mental processes. Topics include the biological basis of behavior, human growth and development, personality development, learning and intelligence and mental health.

## **Post World War II**

Prerequisite: United States History

Course Level: 012

Credit: 1 Term: Semester

This course will be an in-depth analysis of US History, from 1945-present. Areas of political and social inquiry will include The Cold War, The Arms Race, The Civil Rights Movement, The Vietnam War, the Reagan/Bush era, the First Gulf War, and the Clinton Administration, 9/11, and terrorism.

## **Social Studies through Sports**

Prerequisite: None

Course Level: 012

Credit: 1 /semester

This course is designed for students to explore the seven disciplines of social studies (history, geography, economics, political science, psychology, sociology, & anthropology) using sports as the common theme. At the completion of the course students will: 1) Develop a deeper understanding of basic political, economic, and historical concepts. 2.) Generate connections between sports , cultures, and societies worldwide in a meaningful way.



# Visual and Performing Arts Department

The Visual and Performing Arts Department at CVHS is committed to fostering uniquely individual creative thought in a physically safe environment that encourages intellectual risk-taking. Our fundamental belief is that students should have a strong, skill-based foundation that provides opportunities to create, analyze and reflect on the role, value and impact the arts have on our society.



Course	9	10	11	12	Prerequisite
2D Studio Art	x	x	x	x	None
3D Studio Art	x	x	x	x	None
Ceramics	x	x	x	x	None
Aesthetics & Ideas		x	x	x	None
Studio Arts Extension	x	x	x	x	None
Introduction to Theater Arts	x	x	x	x	None
Theater Arts Workshop		x	x	x	Intro to Theatre Arts or Teacher Recommendation
Concert Band	x	x	x	x	None
Jazz Band	x	x	x	x	By Audition
Marching Band	x	x	x	x	None
Instrumental Methods	x	x	x	x	None
Concert Choir	x	x	x	x	None
Chamber Choir	x	x	x	x	None
Select Chorus	x	x	x	x	By Audition
Intro to Guitar	x	x	x	x	None
Music and Media	x	x	x	x	None
History of Rock'n'Roll	x	x	x	x	None
Intro to Music Theory/Keyboard Playing	x	x	x	x	None

## 2D Studio Art

Prerequisite: None

Course Level: 012

Credit: 1 /semester

The primary focus of this class will be exploring art and design concepts through two dimensional artworks such as drawing, painting, printmaking, and collage. The specific media and concepts will be based on the number of times the student has taken the class, their abilities and work ethic. This is a multi-level class where students may be taking for the first, second, third time. While

primarily a studio class, there will be regular reflective writing assignments, sketchbook homework, and technology expectations (Google Classroom, Digital Portfolio, Presentations).

### **3D Studio Art**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

The primary focus of this class will be exploring art and design concepts through three dimensional materials such as cardboard, paper, wire, found objects and plaster. The specific projects, media and concepts will be based on the number of times students have taken the class, their abilities and work ethic. This is a multi-level class where students may be attending for the first, second, or third time. While primarily a studio class, there will be regular reflective writing assignments, sketchbook homework, and technology expectations (Google Classroom, Digital Portfolio, Presentations).

### **Ceramics**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

The primary focus of this class will be exploring art and design concepts, issues of function and craft through clay. The specific projects and concepts will be based on the number of times students have taken the class, their abilities and work ethic. This is a multi-level class where students may be attending for the first, second, or third time. While primarily a studio class, there will be regular reflective writing assignments, sketchbook homework, and technology expectations (Google Classroom, Digital Portfolio, Presentations).

### **Aesthetics & Ideas**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Asking the essential question, "how art, stories, faiths and philosophies shape individual and community identities," this Art and English department collaboration explores everything great about art, language and ideas. Through large group, small group, independent and online explorations, students and co-teachers from each department will look at what it means to be human, the power of communication and community and how, what, and why humans have made, collected and shared art and stories and faiths and philosophies to both unite and separate themselves from other cultures, societies and traditions. This class is heavy on thinking, making and doing. Be excited, be very, very excited. *This course awards .5 credit in Art and .5 in English and can be taken for a full English credit. This determination must be made at the start of the course.*

### **Studio Art Extension**

Prerequisite: None

Course Level: 012

.5 Arts or Elective Credit; Year Long weekly meetings during 1 TASC period

This Extended Learning Opportunity (ELO) is open to all students who are interested in extending their studio practice above and beyond the basic course requirements. Students meet weekly with the visual arts teachers to learn about independent art practice, ConVal arts alumni, post-secondary art programs, and careers in the arts. Students work with a community partner to exhibit their artwork out in the greater community. Students compile a portfolio of their artworks (in process and finished) throughout the course of the ELO. They are assessed based on their final portfolio to an audience, which may include peers, teachers, community partners, and/or other audience members they select; their final reflection.

## **Introduction to Theater Arts**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Theatre Arts is a production-based introductory class in which students learn and practice acting, directing and technical theatre skills along with theatre history, and script analysis. Students participate in various improvisation and theatre games, as well as other community building activities. Learning about the design and building of sets, costumes, make-up, lights and sound, students identify meaning and technique in the visual components of performance. Acting skills are also identified and explained through the monologue process. The "final showcase" of the course allows a student to select one of two areas of expertise to help produce a selection of work to present to an invited audience. *This course may be taken for either English or Visual and Performing Arts Credit. This determination must be made at the start of the course.*

## **Theater Arts Workshop**

Prerequisite: None

Course Level: 012

Prerequisite: none

Theatre Arts Workshop a production-based class designed for students with an interest in exploring the process of creating and developing their own creative theatre work. Students in this class may work on skills in directing, performing, technical design, playwriting, etc. Students will present their work in a culminating Showcase. Attendance at the final showcase is required. Students taking this class must be prepared to commit time outside of class for auditions, rehearsal and performance time if they seek to direct a short play. This course may be taken multiple times. Students must have either previously taken Theatre Arts or have involvement in a theatre program with the approval of the instructor. *This course may be taken for either English or Visual and Performing Arts Credit. This determination must be made at the start of the course.*

## **Concert Band**

Prerequisite: none

Course Level: 012 /010

Credit: 1 Term: Semester/B days

Credits 2 Term: Year

Concert Band is offered to students in grades 9-12 who enjoy playing a woodwind, brass, string bass or percussion instrument. Band has the option to meet daily or every other day. Repertoire includes all genres of music from marches to the pops and romantic to modern. Students in Concert Band will have performances which include but are not limited to concerts, field trips, and parades.

Concert Band is broken into three sections that all meet during the same block but, due to scheduling, different days mean different Band rehearsals. Students who enroll in B days will rehearse in Concert Band. Students who enroll in the Spring Semester course will rehearse in Concert Band and Symphonic Band. Students who enroll in the Year Long section will rehearse in Concert Band, Symphonic Band, and Chamber Band. Symphonic Band is a little smaller than Concert Band and is made up of mostly upperclassmen. Chamber Band is a flexible instrumentation ensemble mostly made up of upperclassmen.

The following courses are offered as co-curricular activities and will adjust course credit for Concert Band to the 010 Honors level.

**Jazz Band** is offered by audition to dedicated students in grades 9-12 who play a traditional Jazz Band instrument. This class rehearses outside the regular school schedule and students receive credit at the 010 level. Jazz Band covers a variety of styles, including swing, funk, rock and Latin. Students in Jazz Band will have several performances. Students in Jazz Band also participate in Concert Band or Concert Choir.

**Marching Band** is offered to dedicated students in grades 9-12 who play a wind instrument, drumline, or colorguard. This class rehearses outside the school day and students receive credit at the 010 level. Students in Marching Band will have several performances which include but are not limited to concerts, parades, pep band, and band shows. Students in Marching Band also participate in Concert Band or Concert Choir.

### **Instrumental Methods**

Course Level: 012

Prerequisite: None

Credit: 1 Term: Semester

Open to all students grades 9-12 who enjoy playing or would like to learn to play a traditional string or band instrument. Skill levels range from new/beginner to experienced. Students will play a wide repertoire chosen uniquely for participating students who practice and rehearse as a group. Genres may include romantic, classical, baroque, contemporary, jazz, and rock. Please see your instrumental teacher if you need help finding or choosing an instrument to play.

### **Concert Choir**

Course Level: 012/010

Prerequisite: none

Credit: 1 Term: Semester/A days

The ConVal choral program covers contrasting musical styles from Baroque to Modern musical literature. Each choir performs at concerts throughout the year and is focused on excellence in choral arts. In addition to these concerts, the choral program offers many opportunities for further participation in music through various festivals and yearly performance based field trips.

**Concert Choir** is the largest vocal ensemble at ConVal open to any students in grades 9 - 12 at varying levels of proficiency. This choir meets every other day throughout the semester. As part of this ensemble, students are required to participate in after school performances. No previous experience is necessary.

**Select Choir** is ConVal High School's premier vocal ensemble of auditioned students in grades 9 - 12. Select Chorus meets after school for an hour and a half each week and performs the highest level of choral music out of our choral ensembles. As part of this ensemble, students are required to participate in after-school performances and additional collaborative projects. While no additional credit is offered, participation in Select Chorus raises the level of chorus credit to the 010. Auditions are open to all students and while prior experience is suggested, it is not required to audition.

### **History of Rock'n'Roll**

Course Level: 123

Prerequisite: None

Credit: 1 Term: Semester

Examine the birth of rock n roll music and track its evolution from the 50s through to modern day music making. This process will highlight specific artists, identify historical contexts, consider social influences, and identify musical connections between present and past. Students will learn concepts by listening and watching famous Rock and Roll musicians.

### **Intro to Music Theory / Keyboard Playing**

Course Level: 012 (with AP Music Theory test option)

Prerequisite: None

Credit: 1 Term: Semester

This course is designed for all levels of musicians. For the musically inclined but less experienced, students will learn the fundamentals of music through the keys of the piano and an introduction to music theory. For those more experienced musicians, students will learn keyboard technique, music reading, expression, and more in-depth music theory. Classes are designed to allow for

practice time, lessons, recitals, and bookwork. Music Theory is most appropriate for students who sing or play instruments who wonder, "how things work" in the musical language. Students will be exposed to the inner workings of both rhythm and melody through dictation, composition, chord progression identification, inversions, intervals, etc. Students will read music.

### **Introduction to Guitar**

Prerequisite: None

Course Level: 123

Credit: 1 Term: Semester

Open to all students grades 9-12 who are interested in learning guitar. Students will practice picking melodies, strumming chords, and contrasting guitar styles. Notation will include traditional, tab, and shorthand. Lesson plans will include basic Music Theory. Students will have the opportunity to practice and rehearse as a group.

### **Music and Media**

Prerequisite: None

Course Level: 123

Credit: 1 Term: Semester

This course follows the development of music and sound in all formats of media and video game platforms, film, television, streaming and social channels. From the silent movie era, the development of radio and television, first gaming systems and social media channels to the great films, television, gaming, and social media composers of today. Students will explore the role and expression of music across all types of media, learn about the elements of music in media and composers, as well as develop a criteria for describing and assessing music in media. Students will take on the role of composer and create original music for selected scenes and characters from various films, television series, video games and social media platforms.



# Wellness Department

The ConVal physical Education and Health graduation requirements will be achieved through a two-part program that consists of Health and Wellness 1 and Health and Wellness 2.

Students will be expected to complete both semester-long courses to meet the requirements of one (1) credit PE and one (1) credit of health.



Course	9	10	11	12	Prerequisite
Health & Wellness 1	x	x			None
Health & Wellness 2			x	x	Health & Wellness 1
Personal Fitness			x	x	Health & Wellness 1

## Health and Wellness 1

Course Level: 123

Prerequisite: None

Credit: 1 Term: Semester

Health and Wellness 1 is a combined physical education and health class. It seeks to develop the understanding, knowledge, and skills needed to maintain an appropriate level of health and fitness, to engage in health-enhancing activities and to develop an understanding of how personal fitness and overall wellness provide benefits that lead to a healthy lifestyle. Students will be required to change into athletically appropriate clothing everyday.

## Health and Wellness 2

Course Level: 123

Prerequisite: Health and Wellness 1

Credit: 1 Term: Semester

Health and Wellness 2 is a combined physical education and health class that builds on Health and Wellness 1. The course seeks to develop a greater understanding of the lifelong benefits of health and fitness through the skills of self-management and advocacy. The PE portion enhances physical fitness through lifelong healthy lifestyle activities. Students will be expected to change into athletically appropriate clothing for PE. In health, the emphasis will be on the knowledge needed to implement lifelong, health enhancing activities and to become health literate adults.

## Personal Fitness

Course Level: 123

Prerequisite: Health and Wellness 1

Credit: 1 Term: Semester

This course is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students benefit from comprehensive weight training and cardiorespiratory endurance activities. They learn the fundamentals of strength training, aerobic training, and overall fitness training and conditioning. The course includes both lecture and activity sessions. Students are empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. Students are required to complete weekly written assignments and participate in daily workout sessions (appropriate clothing is required). This is an elective that may be taken in the junior or senior year.

# World Languages Department

Learning world languages provides students with opportunities to become global citizens. Communication, collaboration, and culture are all crucial in educating 21st century learners. Students will develop skills in presentational, interpretive, and interpersonal modes, by reading, writing, speaking, viewing, and listening in the target language.



Course	9	10	11	12	Prerequisite
German 1	x	x	x	x	None
German 2	x	x	x	x	C grade average in German 1
German 3		x	x	x	C grade average in German 2 and Teacher Recommendation
German 4		x	x	x	C grade average in German 3 and Teacher Recommendation
AP German			x	x	C grade average in German 4 and Teacher Recommendation
Spanish 1	x	x	x	x	None
Spanish 2	x	x	x	x	C grade average in Spanish 1
Spanish 3		x	x	x	C grade average in Spanish 2 and Teacher Recommendation
Spanish 4		x	x	x	C grade average in Spanish 3 and Teacher Recommendation
AP Spanish			x	x	C grade average in Spanish 4 and Teacher Recommendation

## German 1

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Students can interpret, communicate and present basic information in familiar and everyday contexts by recognizing and using practiced or memorized words, phrases, and simple sentences in spoken or written texts.

## German 2

Prerequisite: C grade average in German 1

Course Level: 012

Credit: 1 Term: Semester

Students will further develop communicative skills related to everyday and familiar topics. Students continue to expand their understandings of German-speaking countries by identifying and comparing cultural aspects. The emphasis is on vocabulary development and grammatical structures to develop the students' skills in listening, speaking, reading and writing.

### German 3

Course Level: 012

Prerequisite: C grade average in German 2 and Teacher Recommendation

Credit: 1 Term: Semester

This course is designed to introduce more complex grammatical structures and thematic vocabulary to further develop the four language skills of speaking, listening, reading and writing. Students will deepen their knowledge of German-speaking cultures and their own by comparing and contrasting products, practices, and perspectives with the goal of fostering effective and appropriate interactions with people from other cultural backgrounds.

### German 4

Course Level: 012

Prerequisite: C grade average in German 3 and Teacher Recommendation

Credit: 1 Term: Semester

This course offers students the opportunity to refine their communication skills in speaking, listening, reading and writing, while improving self-expression and flexibility in the target language. Students will demonstrate increased control of more sophisticated grammatical concepts and additional thematic vocabulary. Students continue to study the culture and customs of German-speaking people through comparing and contrasting products, practices, and perspectives. Students will develop a knowledge and appreciation of German history, literature, art, and music.

### Advanced Placement German

Course Level: 010

Prerequisite: C grade average in German 4 and Teacher Recommendation

Credit: 1 Term: Semester

This course follows the guidelines of the College Board® AP German Language and Culture course and provides opportunities for students to demonstrate their proficiency in speaking, listening, reading and writing. When communicating, students in the AP German Language and Culture course demonstrate an understanding of the culture(s), incorporate interdisciplinary topics (connections), make comparisons between the native language and the target language and between cultures (comparisons), and use the target language in real life settings (communities).



### Spanish 1

Course Level: 012

Prerequisite: None

Credit: 1 Term: Semester

Students can interpret, communicate and present basic information in familiar and everyday contexts by recognizing and using practiced or memorized words, phrases, and simple sentences in spoken or written texts.

## Spanish 2

Prerequisite: C grade average in Spanish 1

Course Level: 012

Credit: 1 Term: Semester

Students will further develop communicative skills related to everyday and familiar topics. Students continue to expand their understandings of Spanish-speaking countries by identifying and comparing cultural aspects. The emphasis is on vocabulary development and grammatical structures to develop the students' skills in listening, speaking, reading and writing.

## Spanish 3

Prerequisite: C grade average in Spanish 2 and Teacher Recommendation

Course Level: 012

Credit: 1 Term: Semester

This course is designed to introduce more complex grammatical structures and thematic vocabulary to further develop the four language skills of speaking, listening, reading and writing. Students will deepen their knowledge of Spanish-speaking cultures and their own by comparing and contrasting products, practices, and perspectives with the goal of fostering effective and appropriate interactions with people from other cultural backgrounds.

## Spanish 4

Prerequisite: C grade average in Spanish 3 and Teacher Recommendation

Course Level: 012

Credit: 1 Term: Semester

This course offers students the opportunity to refine their communication skills in speaking, listening, reading and writing, while improving self-expression and flexibility in the target language. Students demonstrate increased control of more sophisticated grammatical concepts and additional thematic vocabulary. Students continue to study the culture and customs of Spanish-speaking people through comparing and contrasting products, practices, and perspectives. Students develop a knowledge and appreciation of Hispanic history, literature, art, and music.

## Advanced Placement Spanish

Prerequisite: C grade average in Spanish 4 and Teacher Recommendation

Course Level: 010

Credit: 1 Term: Semester

This course follows the guidelines of the College Board® AP Spanish Language and Culture course and provides opportunities for students to demonstrate their proficiency in speaking, listening, reading and writing. When communicating, students in the AP Spanish Language and Culture course demonstrate an understanding of the culture(s), incorporate interdisciplinary topics (connections), make comparisons between the native language and the target language and between cultures (comparisons), and use the target language in real life settings (communities).



## Region 14 Applied Technology Center (ATC)

Career and Technical Education (CTE) programs offer students the opportunity to explore different career pathways, to earn industry certifications that make them career ready, and to be better prepared for life after high school. CTE programs are project based, hands-on learning that allow students to use industry standard technology in exciting ways. Students interact with professionals in the field and problem-solve their way to new solutions.



**ATC Career and Technical Education (CTE) Programs require an application, while elective courses offered are open enrollment.**

Course	9	10	11	12	Prerequisite
<b>Career and Technical Education Programs</b>					
Automotive Service Technology I		x	x		Application and Interview & Drivers License
Automotive Service Technology II			x	x	Automotive Service Technology I & Drivers License
Business & Personal Law		x	x	x	None
Business Management		x	x	x	None
Entrepreneurship/Small Business Own		x	x	x	None
Principles of Marketing		x	x	x	None
Careers in Education I		x	x		None
Careers in Education II			x	x	Careers in Education I
Computer Networking I		x	x	x	None
Computer Networking II		x	x	x	Computer Networking I
Computer Programming & Software Development I		x	x	x	None
Computer Programming & Software Development II		x	x	x	Computer Programming & Software Development I
Fundamentals of Construction Trades		x	x	x	Health insurance
Construction Trades: Carpentry		x	x	x	Fundamentals of Construction Trades & health insurance
Construction Trades: Electrical		x	x	x	Fundamentals of Construction Trades & health insurance
Construction Trades: Masonry		x	x	x	Fundamentals of Construction Trades & health insurance
Digital Photography & Video Arts I		x	x	x	None

Digital Photography II		x	x	x	Digital Photography & Video Arts I
Video Arts II		x	x	x	Digital Photography & Video Arts I
Engineering Design I		x	x	x	C or better in Algebra 1 and/or Physical Science
Engineering Design II		x	x	x	Engineering Design I
Engineering Design III		x	x	x	Engineering Design II
Engineering Design IV		x	x	x	Engineering Design III and a C or better in Geometry and Algebra II
Introduction to Firefighting		x	x	x	Interview with Program Instructor & Medical Release
Emergency Medical Technician		x	x	x	Interview with Program Instructor
Graphic Design I		x	x		None
Graphic Design II		x	x	x	Graphic Design I
Graphic Design III		x	x	x	Graphic Design II
Manufacturing through Woodworking I		x	x	x	None
Manufacturing through Woodworking II		x	x	x	Manufacturing through Woodworking I
Manufacturing Systems III or Internship		x	x	x	Manufacturing through Woodworking II
<b>Electives</b>					
Human Growth and Development		x	x	x	None
Internship			x	x	None
Introduction to Business	x	x	x	x	None
Introduction to Technology	x	x			None
Licensed Nursing Assistant			x	x	LNA Health Careers Assessment, 16 years old
Personal Finance	x	x	x	x	None
Robotics	x	x	x	x	None
Website Design	x	x	x	x	None
Woodworking I	x	x	x	x	None

\*Students need to be 18 within two years of completing the EMTcourse in order to take the certification test.

## Automotive Service Technology

### Automotive Service Technology I

Course Level: 012

Prerequisite: Application, interview, and successful completion of Algebra I

Credits: 2 Term: Full Year

In the first year of this two-year program, students learn to inspect, diagnose, adjust, and repair the systems of the modern automobile, including environmental and safety practices. Students will develop their skills by working on customer and donated vehicles in a state-of-the-art facility featuring 5 bays, a parts room, lifts and computers for diagnostics, as well as a classroom computer lab for further study and research. An industry standard competency-based curriculum, certified by the National Automotive Technician Educational Foundation (NATEF) will be followed to provide first year students with the training to succeed in steering and suspension, electronics, brakes, state inspection and engine performance. Students need good reading, math, computer, mechanical and analytical skills to study technical manuals and solve automotive problems. This program is held at Mascenic High School. Drivers license is required.

### Automotive Service Technology II **Running Start**

Course Level: 010

Prerequisite: Automotive Service Technology I

Credits: 4 Term: Full Year

In year two, students work on more complex repairs and tasks including training in engine repair, drivetrain, air bag systems and charging/starting systems. Students follow an industry-standard competency-based curriculum, certified by the National Automotive Technician Educational Foundation (NATEF), and develop the skills and practices in the essential service technician competencies expected in the automotive service industry. Students need good reading, math, computer, mechanical, and analytical skills to study technical manuals and solve automotive problems. This program is held at Mascenic High School. Drivers license is required. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

## Business and Commerce, General

### Business and Personal Law

Course Level: 012

Prerequisite: None

Credit: 1 Term: Semester

Students learn the rights and responsibilities in everyday business and personal transactions. Includes ethics and law, criminal law, problems in society, torts, the court system, trial procedures, contracts, consumer protection, employment contracts, and renting a place to live. The students will create and participate in a mock trial.

### Entrepreneurship/Small Business Ownership

Course Level: 012

Prerequisite: None

Credit: 1 Term: Semester

This course is intended for any student interested in starting his or her own business. Students will be introduced to the fundamental processes of creating a new business. Students will assess the nature of entrepreneurship and each individual's opportunity to become an entrepreneur. Students will then develop a business plan, including a feasibility study, market analysis, business forms, site selection and layout, and examine issues pertinent to business management, including marketing, purchasing/inventory, production/distribution, operations/staffing, financing, and human resources. The students will participate in an industry trade show.

## Business Management

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Learn what it takes to manage a business in today's world. This course will focus on an introduction to management; ethics and social responsibility; businesses, workers, and the law; international business; decision-making skills; communication skills; motivation and leadership; managing conflict and stress; and managing change, culture, and diversity. Students in this class are responsible for inventory, sales, financial records, and promotion of the school store. This course is highly recommended for all students entering the field of business after high school.

## Principles of Marketing

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

This course explores marketing skills, including product/service management, pricing, promotion, distribution, market research, and the interpersonal skills necessary to work successfully in the real world. Students have the opportunity to develop leadership skills, career goals, and occupational skills through a real life opportunity working with Cougar Apparel. Students in this class are responsible for inventory, sales, financial records, and promotion of the school store. This course is highly recommended for any student interested in studying marketing at the college level.

## Careers in Education

### Careers in Education I **Running Start**

Prerequisite: None

Course Level: 010

Credits: 2 Term: Full Year

Students divide their time between the high school classroom and practicum teaching in an early childhood center and/or elementary school. This course gives students an overview of the history of early childhood education, developmentally appropriate practices, philosophy, and current issues. Students will be introduced to strategies for creating a classroom environment that is child focused and supports learning. Topics include lesson planning, reflection, use of early learning standards, grade level expectations, small and whole group instruction, assessment tools, and observation. The course provides an overview of all developmental stages and explores the impact of the multiple and diverse influences of family, culture, and society on the child and the early childhood professional. Students may join our career and technical student organization, Educators Rising. *Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.*

### Careers in Education II **Running Start**

Prerequisite: Careers in Education I

Course Level: 010

Credits: 2 Term: Full Year

Students divide their time between the high school classroom and practicum teaching in an elementary and/or middle school classroom. Students are introduced to classroom structures that support differentiated instruction and other research-based approaches for effective teaching. Tiered Support Systems will be discussed as a general educational initiative to serve the needs of all students. The roles of the family and school as partners will be developed as a critical technique to serve student needs. Philosophical, historical, legal, and social/cultural aspects of education in the United States and New Hampshire will be explored. Students develop a beginning philosophy of education and participate in a service learning experience. Students may join our career and technical student organization, Educators Rising. *Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.*

## Computer Systems Networking & Telecommunications

### Computer Networking I **Running Start**

Prerequisite: None

Course Level: 010

Credit: 1 Term: Semester

Students will successfully disassemble and reassemble personal computers. Students will also be able to articulate the functions and operation of individual components of the personal computer such as disk drives, video controllers, power supplies, and motherboards. Students will successfully install and configure several operating systems. They will also be introduced to the basics of networking, including network addressing, network configuration, domain name services, and dynamic host configuration protocol. Students will experience the process of analyzing problems/bugs embedded in their computer by following problem solving techniques. This course will help prepare the student to take the A+ certification exam. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

### Computer Networking II **Running Start**

Prerequisite: Computer Networking I

Course Level: 010

Credit: 1 Term: Semester

Students will be introduced to the skills required to setup and maintain a home or small business network including such topics as connecting to the network; connecting through an Internet Service Provider; network addressing, including subnetting; implementing wireless technologies; network security; and network troubleshooting. Students will also experience network cable construction and testing using cable testers and tracers. Students will construct simple networks in a simulated environment as well as a real environment. Network troubleshooting issues will also be covered. Students continue the process of analyzing problems/bugs embedded in their network by following problem solving techniques learned in the previous class. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

## Computer Programming, General

### Computer Programming & Software Development I **Running Start**

Prerequisite: None

Course Level: 010

Credit: 1 Term: Semester

Using a programming language, students will analyze a problem and will design, code, test, and document a programming solution. Students will experience various opportunities in logic development through the solving of problems. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

### Computer Programming & Software Development II **Running Start**

Prerequisite: Computer Programming & Software Development I

Course Level: 010

Credit: 1 Term: Semester

This class is the second course in the Computer Programming/Software Development sequence. It continues the idea of using programming and its constructs to solve problems. The student's understanding of variables, arrays, "if, if else, loops," and functions will be reinforced, while introducing the student to object oriented language such as C++ or Java. Additionally, the student will be introduced to pointers and structures and selected preprocessor directives as well as bit manipulations. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

## Construction Trades

*Construction Trades is an exciting new, multi-year program for Region 14 Applied Technology Center. Courses in this program include fundamental instruction in industry safety, skills and professionalism for a career in the construction industry. Instruction will focus on gaining skills in masonry, plumbing, electricity, carpentry, heating, ventilation & air conditioning, reading blueprints, site management, inspection, and other construction-related applications. All students will begin with the Fundamentals of Construction Trades course. Following this, students will focus on specific trades during each half year course. Students may enroll in trades modules in any sequence. Successful completion of Foundations of Construction Trades and four trade modules, as well as an internship/apprenticeship in the final year, will lead to program certification.*

### **Fundamentals of Construction Trades**

Course Level: 012

Prerequisite: Proof of health insurance

Credit: 1 Term: Semester

This hands-on course will serve as the foundation of the Construction Trades Certification Program. Participants will also gain expertise in using hand tools and shop machines, applying math, science and literacy skills, practicing industry professional techniques and implementing OSHA safety measures as they gain and apply technical knowledge and professional skills in the building, inspecting, and maintaining of structures. In addition, learners will experience the foundation for a variety of trades. *This program is held at Conant High School.*

### **Construction Trades: Carpentry**

Course Level: 012

Prerequisite: Completion of Fundamentals of Construction Trades and proof of health insurance.

Credit: 1 Term: Semester

This hands-on course will serve as the foundation of the Construction Trades Certification Program. Participants will also gain expertise in using hand tools and shop machines, applying math, science and literacy skills, practicing industry professional techniques and implementing OSHA safety measures as they gain and apply technical knowledge and professional skills in the building, inspecting, and maintaining of structures. In addition, learners will experience the foundation for a variety of trades. *This program is held at Conant High School.*

### **Construction Trades: Electrical**

Course Level: 012

Prerequisite: Completion of Fundamentals of Construction Trades and proof of health insurance.

Credit: 1 Term: Semester

Students will increase their carpentry knowledge and skills as they work with various types of hardwoods, softwoods, fasteners, anchors, and adhesives. Students will be taught proper methods of handling, use, maintenance, and storage of a variety of tools and materials. Lessons will focus on how to interpret structural and architectural drawings and specifications, and how to adhere to building codes. Instruction and hands-on practice will focus on laying out and framing flooring, walls, ceilings, roofs, stairs, and building envelope. Math skills will be used to measure and calculate quantities, volume and cost. Safety is paramount in the carpentry trade and safe habits and practices will be emphasized. Students will be required to wear proper PPE and follow all safety practices and procedures.

**Construction Trades: Masonry**

Prerequisite: Completion of Fundamentals of Construction Trades and proof of health insurance.

Course Level: 012  
Credit: 1 Term: Semester

Students build upon masonry basics introduced in the Fundamentals of Construction Trades course and expand their skills and understanding of the role of a professional mason. Instruction will focus on masonry materials, methods, tools, equipment, installation techniques and safe practices on the jobsite. Students learn how to mix mortar by hand, lay masonry units, install concrete masonry units and reinforcement. Safety when working with masonry materials is essential. Students will be required to wear proper PPE and follow all safety practices and procedures.

## Engineering

**Engineering Design I** Running Start

Prerequisite: C or better in Algebra I and/or Physical Science

Course Level: 010  
Credit: 1 Term: Semester

Engineering I is the first of four courses to complete the engineering program. This course provides the basic concepts and practices of blueprint reading and technical drawing. Topics covered are: aeronautical, architectural, mechanical, electrical and civil engineering. Applications include SolidWorks, 3D printing, computer numerical control (CNC) machines, electrical trainers, rockets and other materials needed for simulations and models. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

**Engineering Design II** Running Start

Prerequisite: Engineering I

Course Level: 010  
Credit: 1 Term: Semester

This course is the second of four classes that can be taken in the engineering discipline. Students focus on the design, development and production of useful products. The use of computer software from Engineering Design I will be re-emphasized as well as computer numerical control (CNC), 3D printing, Arduino electronic circuits, laser engraving technology and Festo Mechatronics trainer. Student's work may entail the following; collaboration with local businesses, presentations beyond the classroom, and submitting work for local or national competitions. Engineering content includes aerodynamics, architectural, mechanical, electrical, and civil engineering. Skills and knowledge learned will provide the basic essentials for studies in mechatronics. Course completers will have the knowledge of design basics, be able to implement solutions for problems in an engineering environment, and have experience in engineering teams. Electronic fundamentals and circuit design are emphasized in this course. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

**Engineering Design III** Running Start

Prerequisite: Engineering Design II

Course Level: 010  
Credit: 1 Term: Semester

This course is the third of four courses in the program and is focused on the application of process to an outcome; Computer Integrated Manufacturing will be used throughout as will be applications in 3D printing; computer numerical control (CNC) machine setup; laser cutting and engraving for the purpose of prototyping; and machine set up. Students will be provided the opportunity to enter the American Institute of Architecture Competition a New Hampshire state design contest. Projects are chosen based on individual preferences that show skill and competency attainment. Projects

are aligned with real-world problems and are produced to examine feasibility. When possible, clients will be integrated into the classroom and will work with students. This course builds on the concepts learned in Engineering Design and Manufacturing I & II. Students will be preparing for a SolidWorks Associate level exam during this course. Heavy emphasis is placed on engineering teams. Students will prepare an interactive web page representing the area of engineering competency based on projects, which will be maintained and updated to represent a visual catalog of competency and skill attainment for the use of college credit or employment opportunities. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

### **Engineering Design IV** Running Start

Course Level: 010

Prerequisite: Engineering Design III and a C or better in Geometry and Algebra II Credit: 1 Term: Semester

This problem-based learning course covers the knowledge and skills needed to explore the engineering design process. Individual projects, team projects, and laboratory exercises will be used to continually hone the student's interpersonal skills, creative abilities, and understanding of the design process. Everyday products will be examined from historical, societal, design, safety, and manufacturing perspectives. Topics include ideation, sketching, design constraints, solid modeling, decision making, statistical quality control, manufacturing methods, and engineering analysis. Students will develop an appreciation for good design as well as the ability to communicate design ideas via 3D modeling and written and oral reports. There are lectures, demonstrations, and a series of lab exercises designed to reinforce what the student has learned. An opportunity for students to take the Solidworks exam (CSWA) is built in as well as student participation in the AIANH architectural contest. This course uses the latest version of the Solidworks design software, as well as leading architectural software. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

## **Film/Video and Photographic Arts, Other**

### **Digital Photography & Video Arts I**

Course Level: 012

Prerequisite: None

Credit: 1 Term: Semester

During this course, students will investigate the basic technical and artistic aspects of both photography and video art. They will work individually and in collaboration with their peers to develop public speaking skills, learn about famous photographers and critique work. Students will analyze lighting techniques for still photography and formulate scripts and storyboards for films. They will create a blog and website while taking part in both local and national competitions for both photography and film. Through this course, students will learn to shoot manually and be introduced to professional Adobe editing software including Lightroom and Premiere. This course is designed to be hands-on and project based. All equipment is provided for the student, including a camera, tripod, and laptop. The ATC laptop will have Adobe Software installed that includes Lightroom, Photoshop, Premiere, and Illustrator.

### **Digital Photography II**

Course Level: 012

Prerequisite: Digital Photography & Video Arts I

Credit: 1 Term: Semester

For this course, students will utilize what they have learned in Digital Photography & Video Arts I to comprehensively investigate the field of photography. Students will be responsible for generating and critiquing images each week, as well as learning about photography techniques such as photojournalism, commercial photography, fine art photography, and food photography. Students

will participate in a photography based service learning project. In addition to planning photo shoots and learning to direct models, students will connect their own work with that of professionals in the photography field through a research based presentation project. This course will give students a clear understanding of the professional field of photography. All equipment is provided for the student, including a camera, tripod, and laptop. The ATC laptop will have Adobe Software installed that includes Lightroom, Photoshop, Premiere, and Illustrator.

## **Video Arts II**

Course Level: 012

Prerequisite: Digital Photography & Video Arts I

Credit: 1 Term: Semester

For this course, students will apply concepts learned in Digital Photography & Video Arts I to comprehensively investigate the field of Video Arts. Students will analyze films, explore aesthetic trends in cinema, write screenplays, understand the nature and process of film production, and work collaboratively with their peers to produce a variety of short films. Ultimately, each student in Video Arts II will be responsible for creating a film to submit to the New Hampshire High School Short Film Festival, a state-wide film competition for students. The purpose of this course is to provide a project-based visual arts program which will provide students the technical instruction, artistic background, and practical experience necessary for aspiring filmmakers. All equipment is provided for the student, including a camera, tripod, and laptop. The ATC laptop will have Adobe Software installed that includes Lightroom, Photoshop, Premiere, and Illustrator.

## **Fire Science/Fire Fighting**

### **Introduction to Firefighting** **Articulation Agreement**

Course Level: 010

Prerequisite: Interview with program instructor and medical release required

Credits: 2 Term: Semester

This course is offered in collaboration with the NH Fire Academy and is taught by representatives from local fire departments. The course provides students with experience and knowledge in basic firefighting skills and responsibilities. Educational objectives include knowledge of personal protective equipment, use of hose and nozzles, carrying and throwing ground ladders, and many other skills required to be a volunteer or full-time firefighter. Students who have completed the course and reached their eighteenth birthday may take the Firefighter 1: Hazardous Materials and Wildland exam. This is a blended class with online work as well as in class work and runs from 1:00 pm - 4:00 pm at ConVal High School and other off-campus locations. Mount Wachusett Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

#### **Note:**

Participation in this course requires the student to be engaged in coursework beyond the traditional school day. Students enrolled in this course should plan to take the late bus or arrange other transportation home. Additionally, participation requires that students have the stamina and physical ability to work in difficult conditions for several consecutive 30-minute durations while wearing up to 75 pounds of protective gear.

### **Emergency Medical Technician (EMT)** **Articulation Agreement**

Course Level: 010

Prerequisite: Interview with program instructor

Credits: 2 Term: Semester

This course is offered in collaboration with the New Hampshire Bureau of EMS and follows a national curriculum that provides students with the experience and knowledge of the skills and responsibilities of an EMT. The primary focus of an EMT is to provide basic emergency medical

care and transportation for critical and emergent patients who access the emergency medical system. Technicians perform interventions with the basic equipment typically found on an ambulance. Upon completion of the course, students who are 18 years of age are eligible to take the EMT exam through the National Registry of EMTs. This class runs from 1:00p.m.- 4:00 p.m. at ConVal High School and other off-campus locations. Mount Wachusett Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

Note:

Participation in this course requires the student to be engaged in coursework beyond the traditional school day. Ride-a-long time is required on an actual working ambulance service. Students enrolled in this course should plan to take the late bus or arrange other transportation home. A student Medical Release is required by the New Hampshire Department of Safety, Division of Fire Standards and Training and Emergency Medical Services. Students should be prepared to wear Personal Protective Equipment (PPE) for extended periods of time.

## Graphic Design

### Graphic Design I

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

You will learn Adobe Photoshop, Illustrator and InDesign. Projects include website design, logos, phone apps, and more. You'll progress from basic drawing techniques to completed designs.. Presentations of final projects take the place of a final exam. *This course meets the graduation requirement in Information and Computer Technology or in Art.*

### Graphic Design II **Running Start**

Prerequisite: Graphic Design I

Course Level: 010

Credit: 1 Term: Semester

We will expand on what you learned in Graphic Design I to create more comprehensive designs. Projects include magazine design, posters, websites and a bit of animation. Community based projects allow the students to work in real world situations. A student-developed portfolio is used as an end of course assessment in place of a final exam. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee. *This course meets the graduation requirement in Information and Computer Technology or in Art.*

### Graphic Design III

Prerequisite: Graphic Design II

Course Level: 012

Credit: 1 Term: Semester

This course serves as the capstone experience for the graphic design program. We'll focus on the completion of a graphic design portfolio, which will be showcased from a website you design. You'll also be involved with community-based projects and take time to explore special areas of interest within the graphic design industry. A student-developed portfolio is used as an end of course assessment in place of a final exam. *This course meets the graduation requirement in Information and Computer Technology or in Art.*

## Manufacturing Technology/Technician

### Manufacturing Through Wood I

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

This hands-on, project-based course is designed for students who are interested in exploring the many opportunities knowledge of basic manufacturing principles will make available to them. While students will primarily be practicing manufacturing techniques through using wood as a medium, they will also have the opportunity to 3D print using a variety of plastics. In addition, students will be given the option of taking the OSHA 10 exam; students who earn this industry certification will find it helpful in getting both part and full time employment.

### Manufacturing Through Wood II

Prerequisite: Manufacturing Systems I or Advanced Manufacturing Systems I

Course Level: 012

Credit: 1 Term: Semester

Students in this course will continue to explore the manufacturing principles they learned in Manufacturing Through Wood I while also learning how to use a variety of milling and computer numerical control (CNC) machines. Focus will be placed on LEAN manufacturing, which emphasizes streamlining processes and reducing waste. Students will work with local industry leads in coming up with solutions to real-world problems.

### Advanced Manufacturing Systems III or Internship **Running Start**

Prerequisite: Manufacturing Through Wood II  
or Advanced Manufacturing Systems II

Course Level: 010

Credit: 1 Term: Semester

Students in the third course of this sequence can choose between an internship or welding instruction. Students will further enhance their skills through a work-based learning internship with a local manufacturer. Under supervision of ConVal's teacher, students may combine classroom learning with work experience. Students may extend the internship for additional credit. Students who elect the welding option will study at Phaze Welding Technology Center to learn the basics of stick, tig, and mig welding with the opportunity to test and earn welding certification. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

## ATC Electives

### Introduction to Business

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Introduction to Business will introduce you to the world of business and help prepare you for the roles of consumer, worker, and citizen. This course will also serve as a background for other business courses you may take in high school, prepare you for future employment, and help you effectively perform your responsibilities as a citizen. The students will participate in a simulation where each student owns/operates his or her own business and handles all the management tasks for the business.

## **Introduction to Technology**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Students will explore engineering concepts through VEX robotics and platforms sponsored by VEX. Skills will be reinforced through hands-on applications as well as computer based practice. Emphasis will be placed on soft skill attainment and practice; applications in software and computer management systems; and use of the Google Suite. Areas of content will include units offered in the engineering, software development and programming, and computer networking programs as well as robotics.

## **Human Growth and Development** **Running Start**

Prerequisite: None

Course Level: 010

Credit: 1 Term: Semester

This course provides a study of human growth and development from prenatal development through adolescence. The characteristics, patterns, and theories of development in the areas of physical/motor, emotional, social, language, and cognitive development are covered. The complex and diverse influences of culture, environment, and individual needs are considered as the young child is studied in relationship to family, school, and community. This course is appropriate for anyone who is considering any occupation dealing with children and adolescents but is particularly recommended for students considering Careers in Education I and Careers in Education II. Running Start Course: Dual credit option for this course is available for Sophomores, Juniors, and Seniors for an additional fee.

## **Personal Finance**

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

This course will provide students with knowledge that is necessary for them to make decisions that affect their daily lives at present or in the very near future. Topics will include decision-making in terms of purchasing, developing a budget, understanding how to compare different types of loans, understanding the responsibility of how to use credit cards without incurring deep debt, managing an apartment or other living arrangements, maintaining a healthy lifestyle on a limited budget, and an introduction to making wise investment decisions.

## **Licensed Nursing Assistant**

Prerequisite: LNA Health Careers screening assessment; see Mrs. Noonan for admission information. Students must be 16 years of age or older.

Course Level: 012

Credit: 1 Term: Quarter

Students learn about caring for patients of all ages, how to check vital signs, maintain a clean and safe working environment, correctly use medical terminology and demonstrate good health care skills. The LNA program involves both classroom instruction and live work in local clinical settings. Students will have the opportunity to take the state-licensing exam that if passed qualifies the individual or employment as a Licensed Nursing Assistant. This 9-week training program is taught by personnel from LNA Health Careers and includes off-campus clinical experience. The first six weeks of the class run from 1:00 pm- 5:00 pm. at ConVal High School. During the last three weeks of the class students will be engaged in clinical experiences at off-site locations. Students are required to provide their own transportation to and from class and to and from the clinical sites. During the clinical rotations, students must plan on working from 3:00 pm-8:30 pm. There is a 60-hour clinical requirement to satisfactorily complete the Licensed Nursing Assistant class. The LNA certificate is awarded after completion of the NH State Certification Exam.

## Robotics **Running Start**

Prerequisite: None

Course Level: 010

Credit: 1 Term: Semester

This class will introduce the students to the basics of designing, building and testing their own robot to accomplish specific challenges. Students will learn about and implement various types of sensors during this process. Students will also develop specific software to control each robot they construct. This class will provide the student with the experience of integrating hardware and software to accomplish specific tasks. Running Start Course: Dual credit option for this course is available for Juniors and Seniors for an additional fee.

## Website Design

Prerequisite: None

Course Level: 012

Credit: 1 Term: Semester

Website Design will introduce you to planning and designing effective web pages; implementing web pages by writing HTML and CSS code; enhancing web pages with the use of page layout techniques, text formatting, graphics, images, and multimedia; and creating responsive (resizes for screen size) websites. *This course meets the graduation requirement in Information and Computer Technology or in Art.*

## Woodworking I

Prerequisite: None

Course Level: 123

Credit: 1 Term: Semester

In this beginning woodworking class students will be introduced to the proper and safe use of hand tools, portable and stationary power equipment. Safety, material processing, project layout, design and fabrication will be emphasized. Individual projects will be produced and finished after required projects are completed. This course serves as an excellent introduction to the Building and Construction Trades or Manufacturing programs.

## Internship

Prerequisite: Junior or Senior status

Course Level: 012

Credit: .5 quarter or 1 Term: Semester

Students may also wish to experience the world of work first-hand by becoming an intern at a local business. While internships can be used in a variety of ways, they work best when they are the capstone or culminating event in a student's high school course of study. For example, a student who is interested in pursuing a career as a dental hygienist should take all appropriate science and health occupations classes before becoming an intern at a local dental office. This way, the student is able to have the best possible experience as an intern while the local business gains the benefit of working with a student truly interested in the profession. Internship is graded Pass/Fail.



<b>Post-Secondary Credits</b> available through the Region 14 Applied Technology Center (ATC)				
ATC Course	College Class	Post-Secondary Affiliation	College Credits	Type of Credit
Engineering Design I	<b>ADMT115</b> - Engineering Print Reading	MCC ( <i>*Mechatronics Pathway</i> )	3	Running Start
Engineering Design II	<b>ADMT118</b> - Electrical Fundamentals for Manufacturing	MCC ( <i>*Mechatronics Pathway</i> )	4	Running Start
Engineering Design III	<b>ADMT110</b> - Manufacturing Processes	MCC ( <i>*Mechatronics Pathway</i> )	4	Running Start
Engineering Design IV	<b>ADMT112M</b> - Intro to Engineering Design & Solid Modeling	MCC ( <i>*Mechatronics Pathway</i> )	4	Running Start
Robotics - <a href="#">5th Block</a>	<b>ROBO211M</b> - Robotic Design	MCC ( <i>*Robotics Pathway</i> )	4	Running Start
Human Growth & Development	<b>ECE102N</b> - Growth & Development of the Young Child	NCC	3	Running Start
Careers in Education I	<b>ECE101N</b> - Foundations of Early Childhood Education	NCC	3	Running Start
Careers in Education II	<b>EDU130N</b> - Foundations of Education	NCC	3	Running Start
Computer Networking I	<b>CSCN101N</b> - Computer Architecture & Operating Systems	NCC	3	Running Start
Computer Networking II	<b>CSCN116N</b> - Networking Basics	NCC	3	Running Start
Computer Programming & Software Development I	<b>CSCI161N</b> - Introduction to Programming	NCC	3	Running Start
Computer Programming & Software Development II	<b>CSCI175N</b> - Programming using C++	NCC	3	Running Start
Graphic Design II	<b>ARTS120N</b> - Graphic Design Theory	NCC	3	Running Start
Automotive Technology II	<b>AUTO121N</b> - Automotive Service and Maintenance	NCC	4	Running Start
Firefighter Academy I & EMT	<b>FST115</b> - Principles of Emergency Service	MWCC	3	Articulation Agreement
	<b>FST159</b> - Fire Behavior & Combustion	MWCC	3	Articulation Agreement

	<b>HHC 111</b> - Emergency Medical Tech I	MWCC	4	Articulation Agreement
	<b>HHC 112</b> - Emergency Medical Tech II	MWCC	4	Articulation Agreement
Adv Manufacturing Systems Internship	<b>MTTN101N</b> - Manufacturing Processes	NCC	3	Running Start
College Composition	<b>ENGL101N</b> - College Composition	NCC	4	Running Start
AP Chemistry	<b>CHEM130N</b> - General Chemistry	NCC	4	Running Start
AP Calculus	<b>MATH210N</b> - Calculus I <b>MATH211N</b> - Calculus II	NCC	8	Running Start
<p style="text-align: center;"> <b>MCC</b> = Manchester Community College  <b>NCC</b> = Nashua Community College  <b>MWCC</b> = Mount Wachusett Community College </p> <p> **Running Start - Agreements with the NH Community College System. Students take college-level courses in high school that generate a college transcript.  **Articulation - Qualifying high school classes fulfill requirements through individual agreements between high school and college. No transcript generated.  CTE students are also eligible for 8 articulated credits at Keene State College if they complete any CTE program. </p>				



**REGION 14 APPLIED TECHNOLOGY CENTER**  
**182 Hancock Road**  
**Peterborough, NH 03458**

**2020-2021 STUDENT APPLICATION**

*Applications are due by Friday, March 12 to the CTE director.*

Region 14 Applied Technology Center programs are open to students in grades 10-12.

Name (Last, First, MI) \_\_\_\_\_

Street Address \_\_\_\_\_

Town, State, Zip \_\_\_\_\_

Student Cell Phone \_\_\_\_\_ Date of Birth \_\_\_\_\_ Gender \_\_\_\_\_

Email \_\_\_\_\_ Year of Graduation \_\_\_\_\_

Parent/Guardian (Last, First) \_\_\_\_\_

Relationship \_\_\_\_\_ Telephone \_\_\_\_\_

Race/Ethnic Origin # \_\_\_\_\_

1=African American    2=Asian American    3=Black    4=Hispanic    5=White    6=Hawaiian/Pacific Islander

Have you ever taken an ATC course before? YES / NO    If YES, which course? \_\_\_\_\_

Please mark your first choice program with a "1" and your second choice with a "2."

- \_\_\_ Automotive Technician (offered at Mascenic High School; please see [separate application](#))
- \_\_\_ Construction Trades (offered at Conant High School)
- \_\_\_ Business
- \_\_\_ Careers in Education
- \_\_\_ Computer Networking and Telecommunication
- \_\_\_ Computer Programming
- \_\_\_ Digital Photography and Video
- \_\_\_ Engineering
- \_\_\_ Emergency Medical Technician
- \_\_\_ Introduction to Firefighting
- \_\_\_ Graphic Design
- \_\_\_ Manufacturing w/ welding component



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**Please briefly explain what your career plans are, how your chosen program will help you with your career plans, and why you think you would be a good candidate for the program. (Attach an additional sheet if more space is needed.)**

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**SAFETY AGREEMENT**

My son/daughter will have the opportunity to use various tools and equipment during his/her program. Appropriate instruction in the operation of these tools and equipment is given, and close supervision is maintained at all times. Although every precaution is taken to prevent accidents, I understand that a certain risk is involved due to the nature of the experience, the age of the student, and the learning environment.

My son/daughter has permission to apply to the Region 14 Applied Technology Center. I understand that:

- This application must be completed in its entirety, including all relevant signatures. Incomplete applications will not be considered.
- Region 14 Applied Technology Center staff will request/review all school records, including discipline and attendance.

\_\_\_\_\_  
Signature of Parent/Guardian

\_\_\_\_\_  
Date

\_\_\_\_\_

\_\_\_\_\_



**REGION 14 APPLIED TECHNOLOGY CENTER**  
**182 Hancock Road**  
**Peterborough, NH 03458**

Signature of Student \_\_\_\_\_

Date \_\_\_\_\_

**PARTICIPANT PHYSICAL EXAMINATION**

Date of Exam \_\_\_\_\_

Name (Last, First, MI) \_\_\_\_\_

Address \_\_\_\_\_

Town, State, Zip \_\_\_\_\_

Telephone \_\_\_\_\_ Date of Birth \_\_\_\_\_ Male \_\_\_\_ Female \_\_\_\_

Height \_\_\_\_\_ Weight \_\_\_\_\_ Blood Pressure \_\_\_\_\_ / \_\_\_\_\_ Pulse \_\_\_\_\_

Vision R 20 / \_\_\_\_ Vision L 20 / \_\_\_\_ Corrected Y \_\_\_\_ N \_\_\_\_ Last TD/Tdap \_\_\_\_\_ (circle one)

	Normal	Abnormal Findings					Initials
Cardiopulmonary							
Pulses							
Heart							
Lungs							
Tanner stage		1	2	3	4	5	
Skin							
Abnormal							
Genitalia							
Musculoskeletal							
Neck							
Shoulder							
Elbow							
Wrist							
Hand							
Back							
Knee							
Ankle							
Foot							
Other							

The student is considered physically fit and has the stamina and physical ability to work in untenable conditions for several consecutive, 30-minute durations, and has been evaluated regarding height phobia and claustrophobia.

Name of Physician \_\_\_\_\_



**REGION 14 APPLIED TECHNOLOGY CENTER**  
**182 Hancock Road**  
**Peterborough, NH 03458**



**New Hampshire Department of Safety**  
**Division of Fire Standards and Training & Emergency Medical Services**

Mailing: 33 Hazen Drive, Concord, NH 03305

Physical: 98 Smokey Bear Boulevard, Concord, NH

Phones: (Toll free) 800-371-4503

(Local) 603-223-4200

(Fax) 603-271-1091

## General Admission Application

**Section 1: PERSONAL INFORMATION** (Please complete Section 1B if taking a DHS, FEMA, or NFA course.)

First name	M.I.	Last name	M	F	Social Security# : (last 4 digits)	Date of Birth:
					US Citizen? <input type="radio"/> Y <input type="radio"/> N	If NO, country of birth:
HOME mailing address: (Use the next two lines below.)					Home phone:	Work phone:
PO Box/Street:					Cell phone:	Cell phone provider **:
Town/City:		State:	Zip:			

**Section 1A: DEPARTMENT INFORMATION:**

Dept./Agency name:					** Please provide cell provider information if you want to receive text message course confirmations. (Standard text messaging rates may apply.)	
Address:						
Dept./Agency phone:		Dept./Agency fax:			Email address:	
Applicant Rank/Title in Dept./Agency:	Career <input type="checkbox"/>	Volunteer <input type="checkbox"/>	Call <input type="checkbox"/>	N/A <input type="checkbox"/>	Preferred method of contact: Email/Text : <input type="text"/> Mail: <input type="text"/>	

**Section 1B: SID NUMBER: (Required for ALL DHS, FEMA, AND NFA classes!)**

Click on or copy and paste the link for information: **SID NUMBER:**

<https://cdp.dhs.gov/femasid/>

**Section 2: COURSE INFORMATION** (See Section 1B if you are taking a DHS, FEMA, or NFA course!)

Course requested:	Course date: (mm/dd/yyyy)
Course Reference # (CREF) or Course Number:	Course location:

**Section 3: AGENCY / DEPARTMENT PAYMENT**

The signature below, provided by a dept./agency representative, verifies that the dept./agency agrees to be billed for this applicant from the division and is also aware of the division's refund policy on the website:

<http://www.nh.gov/safety/divisions/fstems/documents/fstemsrefundpolicy.pdf>

Signature of  
Agency Representative:

Date:  
(mm/ dd/ yyyy)

⇒ **NOTE: For personal payment, please fill out the "General Payment Form".**

**Section 4: STUDENT SIGN-OFF**

I certify that the information on this application is correct and understand that falsification of information may result in denial of a course certificate. I understand and agree to abide by the rules, policies, and refund policy of the NH Division of Fire Standards and Training & Emergency Medical Services (NHFSTEMS). I hereby authorize release of any and all information concerning my enrollment in this course to the chief officer in charge or designee of my organization. Unless I am employed by the State of NH, I understand and accept the fact that I am not covered by any insurance provided by the State of NH, the Fire Standards and Training Commission, or any other instructor nor will insurance from any of these agencies be available in the event of my injury or death.

Signature of Applicant:

Date:  
(mm/ dd/ yyyy)

⇒ **NOTE: Submitting an application without signing in Section 4 or having met prerequisites will prohibit enrollment.**