



ConVal 2016-2017
Regional High School Program of Studies

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Revised

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Non-Discrimination Policy

The School Board, in accordance with requirements of the federal and state laws, and the regulations that implement those laws, hereby formally declares that it is the policy of the Board, in its actions and those of its employees and students, that there shall be no discrimination on the basis of age, sex, race, creed, color, marital status, physical or mental disability, national origin, or sexual orientation for employment in, participation in, admission/access to, or operation and administration of any educational programs or activities in the School District.

Inquiries, complaints, and other communications relative to this policy and to the applicable laws and regulations concerned with non-discrimination shall be received by the Superintendent or his/her designee. This policy of non-discrimination is applicable to all persons employed or served by the district. Any complaints or alleged infractions of the policy, law or applicable regulations will be processed through the grievance procedure. This policy implements PL 94-142, Section 504 of the Rehabilitation Act of 1973, Title II of the American with Disabilities Act, Title VI or VII of the Civil Rights act of 1964, Title IX of the Education Amendments of 1972, and the laws of New Hampshire pertaining to non-discrimination.

Message from the Principal, Brian Pickering

Welcome to the 2016-17 version of the Program of Studies. ConVal Regional High School seeks to inspire students to reach their full potential, to ignite in them a passion for learning, and to make them self-motivated participants in their own education by:

- fostering a safe environment through positive culture
- relentlessly pursuing learning, thinking and growing
- demonstrating respect for self, peers, adults, and the facility
- ensuring collaboration between students, staff, parents, and community

Over the past four years we have added new course options, adjusted curriculum and built in opportunities to learn outside of the traditional classroom time and setting, to meet the ever-changing needs of our young adults

Please take the time to look at the various options for your student and continue to help us promote both a rigorous and balanced path of study. This path should match the individual learning style and interest of each student, which our teachers, counselors and administrators will commit to helping you find. We will be flexible, but direct when needed, to help students meet their academic goals and needs for long-term success. Thank you to our School Counseling Department and teachers for continuing to pursue learning for all students in preparing this Program of Studies!

Academic Competencies

In 2005, ConVal Regional High School identified core competencies as part of a detailed review process of our curriculum. These core competencies identified critical skills that will best prepare students for success in the 21st century. ConVal is now involved in a detailed curriculum mapping process to review, reflect and revise these competencies as needed, as well as to build connected assessments to assure proficiency of skills. These competencies are directly connected to the academic grade in each course and graduation requirements as identified by the New Hampshire State Board of Education and the ConVal School District.

Scheduling Policies and Procedures

Course Load

- Students in grades 9-11 are expected to carry eight (8) credits.
- Seniors may apply for early release or late arrival, pending approval from their school counselor and dean of students.

Course Numbers/Weighting

- Class rank is determined with weighted grades.
- ConVal weights grades based on course level as follows:
 - 010 / Honors / Advanced Placement: 1.50
 - 012 / College Prep: 1.25
 - 123 / Basic level: 1.00
- 010 courses require independence, strong self-management skills, higher order thinking skills, frequent, in-depth reading and writing assignments and consistent homework and home study. Students will be required to synthesize and analyze information.

- 012 courses are academically challenging and come with high expectations. 012 courses prepare students for the rigor of college level work.
- 123 courses meet the credit requirements for graduation and New Hampshire State standards, and include students of all abilities and interests.
- 012/123 courses are courses that are heterogeneously grouped. Teachers may individualize course weight based on a student's current skill level.

Scheduling Changes and Add/Drop Deadlines

- For initial corrections/changes to schedules after the master schedule has been built, students must submit a request in writing to the school counseling office by August 1, 2016.
- Student/ parent request for specific teachers cannot be considered unless a student previously failed the same course with the same teacher.
- Students will not be allowed to change courses after 5 school days from the start of the course unless such a change is recommended by the teacher or there are extenuating circumstances approved by the school counseling director.
- Students who drop a class after this time will receive a WF on their transcript and a grade value of "0" will be averaged into their grade point average.
- Students may move into/out of weighted courses until the week after the first progress report with written request by the parent and support of the teacher as space and scheduling permits.
- Course offerings in this publication are subject to enrollment and staffing decisions. Any course can be cancelled at any time by administrative decision.
- 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 remain on the transcript; however, the point value will not be figured. Only one credit per course can be earned.

Athletic and Co-Curricular Eligibility

- In order to be eligible to participate in a ConVal High School co-curricular program a student must have passed a minimum of three (3) units of work in the quarter previous to participation and be currently enrolled in three (3) units of work in the quarter of participation.
- Eligibility status is determined on the day that official report cards are distributed to students.
- An incomplete is not considered a passing grade for purposes of eligibility.

Special Programs and Support Services

Online Credit Recovery

- Students may recover credit through the following means:
 - Extended Day Academy
 - Online Learning Lab
 - Independently
 - Summer Academy
 - Adult Diploma Program
 - Alternative Learning Plan
- Students must meet with their school counselor to review their transcript and discuss appropriateness of credit recovery coursework prior to registering for a course.

- Student must complete Credit Recovery Approval Form.
- 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 into the calculation.

Teams in Academic Service Centers (TASC)

- ConVal High School has designed TASC (Teams in Academic Service Centers) as a daily response to intervention block (RTI). This block was developed over a two-year period to reflect the need for more academic support and enrichment within the school day.
- This daily, forty-three minute period provides the opportunity for students to schedule themselves to work with their teachers to either make up work or receive additional, targeted instruction.
- Teachers may also schedule students to address academic needs or make-up work during TASC.
- Students who do not need additional support are expected to schedule this time for enrichment or to engage in an extended learning opportunity (ELO).
- Students develop a weekly TASC schedule with their TASC homeroom teachers on Mondays and then spend the remainder of the week with their academic teachers or other learning environments such as computer labs or library.

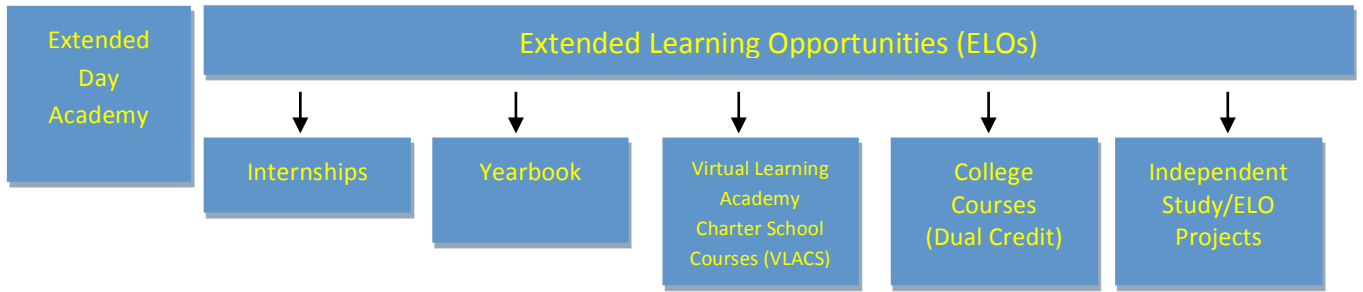
Advanced Placement (AP) Courses

- AP courses are college level courses that culminate in an end of course AP exam. AP exam scores are reviewed by colleges and may be accepted as college credit under certain conditions as set by individual colleges.
- AP exams are optional for students and do not affect final course grades. The exams are proctored at ConVal and students are responsible for the cost of the exam as determined by College Board.
- AP courses are weighted on the grading scale.
- ConVal offers AP courses in the following subjects: Biology, Calculus AB, Calculus BC/Physics, Chemistry, English Language, English Literature, German Language, Spanish Language, Studio Art, United States History, and World History. *Please refer to the specific department for a course description.*

Project Running Start/Dual Enrollment Courses

- Dual enrollment courses are available at ConVal through an articulation agreement with the New Hampshire Community College System (NHCCS).
- For a small fee, students may earn college credits for Project Running Start courses.

Alternative Coursework



ELO Projects and Independent Study

- Students may engage in educational experiences that reach beyond the walls of the school, the regular school day and 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 Day Academy

- Students may have the option of taking required courses after school two days per week based on Academy offerings.
- Students may have the option of participating in credit recovery, enrichment, and/or skill building activities after school two days per week.

Virtual Learning Academy Charter School (VLACS)

- Students have the opportunity to enroll in free, on-line courses through the NH state Virtual Learning Academy Charter School. Courses cover a wide variety of subject areas and topics that change from year to year. Current lists of available courses can be viewed at www.vlacs.org. VLACS also has available, through partnerships with local colleges, E-start classes where students can earn dual high school and college credit. There is a separate registration process and fees for these classes. More information can be found on the VLACS website.

VLACS Enrollment Procedures:

- Students must meet with their school counselor to review their transcript and discuss appropriateness of VLACS coursework prior to registering for a course.
- Students must complete the VLACS Approval Form prior to registration.
- Students and parent/guardians are responsible for the registration process and must complete the registration process directly through VLACS. Due to VLACS guidelines, school counselors cannot register students for these courses. Students must list ConVal as their school of record when registering.
- **NOTE:** It can take up to two weeks for enrollment to be activated. Please plan ahead.
- Following completion of the VLACS course, student must request an official VLACS transcript to be sent to the school counselor to ensure the credit is transferred to the CVHS transcript.
- Students are allowed to transfer up to two VLACS credits per semester.
- Students who enroll in a VLACS class without following this procedure may not have the credit transferred to their CVHS transcript.

- Students who have a class period in the school day to work on VLACS will have the support of a paraprofessional during that time. Students are expected to attend this class block and attendance will be taken.
- Students wishing to continue in a sequence of courses at CVHS will have to complete the corresponding CVHS course final exam for the VLACS course. The score results of this final exam will be used for placement recommendations.

Alternative Credit Courses

Yearbook

0.5 – 2.0 Credit

Level: 123

Open to All

Yearbook

A special ELO opportunity will be available to students who are willing to invest the time and talent necessary to produce the school yearbook. Through a combination of after school, TASC time, and personal time, participating students will develop a set of goals and competencies with the Yearbook Advisor upon which they will be assessed at the end of their period of participation.

Internship

0.5 Credit/1 Quarter

Level: 123 (P/F)

Juniors & Seniors

Internship

An Internship combines academic-based career exploration with a “real world” work-based experience. Interns have the opportunity to test-drive a career option of their choice over a 9-week period and/or during the summer. Find out what a particular career is like and the skills and training you will need to be successful in it. Interns are required to attend a series of job skills workshops designed to help students explore what occupations match their interest, abilities and job values. A personal “Career Portfolio” will be maintained as interns learn more about themselves and the world of work. Successful interns receive 0.5 credit per quarter and are graded as Pass/Fail. Students who exceed expectations are eligible for an “A” grade. Offsite transportation is the student’s/parent’s responsibility. Juniors and seniors should see the internship coordinator at least two weeks before the quarter begins to select and arrange an internship site. Some medical sites require more advance planning due to additional requirements.

Teacher’s Aide

0.25 Credits/1 Quarter

Level: 123


Juniors & Seniors;

Sophomores w/permission

Teacher’s Aide

Aides work with school staff helping to carry out various school functions as defined by the supervisor. Students who choose to be a school aide will receive 0.25 credits per quarter. (Note: Aides, who would like to earn 0.5 credits, may choose the internship option with requirements as listed above.

Graduation Requirements

Program Area 	ConVal Diploma	NH State Scholars
English English 9; English 10; English 11 and 1 Total Credit from English Electives	4 <input type="checkbox"/>	4 <input type="checkbox"/>
Global Studies Required: Eastern World Heritage.	1 <input type="checkbox"/>	2 <input type="checkbox"/>
Economics/Government 0.5 Credit of Economics and 0.5 Credit of Government	1 <input type="checkbox"/>	1 <input type="checkbox"/>
US History US History Survey, US History Inquiry, or AP US History (Full Year)	1 <input type="checkbox"/>	1 <input type="checkbox"/>
Science Earth Science, Biology and 1 credit of Chemistry, Physics or EILI (to Class of 2018) Physical Science, Biology, Earth & Space Science (with class of 2019 and beyond)	3 <input type="checkbox"/>	3 <input type="checkbox"/> <i>012 level Science</i>
Mathematics Recommended minimum: Algebra 1 (Full Year), Geometry, Algebra 2	3 <input type="checkbox"/>	3 <input type="checkbox"/> <i>minimum Alg 2</i>
World Languages Spanish, German (two years of the same language during high school)	Optional <i>May be an elective</i>	2 <input type="checkbox"/>
Health & Wellness (For Class of 2017 and beyond) Health & Wellness 1 and Health & Wellness 2	2 <input type="checkbox"/>	2 <input type="checkbox"/>
Information & Communication Technology Intro to Business, Intro to Photography; Robotics, Web Design, Graphic Design	.5 <input type="checkbox"/>	.5 <input type="checkbox"/>
Art Education 2D Studio, 3D Studio, Ceramics, History of Rock, Theatre, Keyboard Playing, Band, Chorus, Graphic Design, Photography	.5 <input type="checkbox"/>	.5 <input type="checkbox"/>
Personal Finance (ending with Class of 2019)	.5 <input type="checkbox"/>	.5 <input type="checkbox"/>
Career Exploration	.5 <input type="checkbox"/>	.5 <input type="checkbox"/>
Elective Offerings	9 <input type="checkbox"/>	6 <input type="checkbox"/>

Applied Technology Center

The Region 14 Applied Technology Center provides meaningful educational experiences through quality program content and instruction for all learners. It is our hope that learners will discover, develop and apply individual skills, interpersonal skills, knowledge skills and technical skills and that our programs will provide expanding opportunities for ALL learners by raising expectations and encouraging their pursuit of advanced education or study toward employment in a specific career.

Accounting

Accounting 1

1 Credit/1 Semester

Level: 012

Priority for Juniors and Seniors

Meets graduation

requirement in

Information & Communication

Technology

Accounting 1

All students planning on majoring in business or accounting in college should plan to take this course. Students will learn the general principles that are used in accounting systems of both service and merchandising business. Students will complete daily transactions, work with checking accounts, record payroll, analyze and prepare financial statements. Critical thinking activities, applications to real world accounting situations and making informed business decisions prepare students for success in the 21st century. Online computerized accounting software is used throughout the course.

Accounting 2

1 Credit/1 Semester

Level: 012

Prerequisite:

Satisfactory completion of Accounting 1 (C or higher) or teacher recommendation

Accounting 2

Advanced Accounting expands on topics introduced in the first-year course while adding new topics such as departmentalized accounting, corporation accounting, management accounting and financial analysis. Students will continue to use electronic software and will be introduced to QuickBooks. Guest speakers and job shadowing with local businesses will reinforce employment expectations in this field.

Automotive Service Technology

Automotive Service Technology 1

2 Credits/Full Year

Level: 012

Juniors only

Prerequisite:

Application and interview required

Offered at Mascenic HS

Automotive Service Technology 1

In the first year of this two-year program, students will have the opportunity to learn skills needed to follow automotive environmental and safety practices as well as inspect, diagnosis, adjust and repair the systems of the modern automobile. 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 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. Automotive Technology is offered at the Mascenic Career Development Center and is a full year course.

Automotive Service Technology 2

2 Credits/Full Year

Level: 012

Seniors only

Prerequisite:

Application and interview required. Valid driver license required. Successful completion of Auto I and teacher recommendation.

Automotive Service Technology 2

In year two, students work on more complex repairs and tasks including training in engine repair, drivetrain, air bag systems and charging/starting systems. An industry standard competency-based curriculum certified by the National Automotive Technician Educational Foundation will continue to be followed Providing Automotive 2 students with skill development and practice 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.

Offered at Mascenic HS. No transportation is offered; students must drive themselves.

Building/Construction Trades

Building Trades

2 Credits/ Full Year

Level: 012

Juniors only.

Prerequisite:

Application and interview required. Students must provide proof of health insurance and must be 16 years old.

Offered at Conant HS

Advanced

Building Trades

2 Credits/ Full Year

Level: 012

Prerequisite:

Satisfactory completion of Building Trades and teacher recommendation. Students must provide proof of health insurance.

Offered at Conant HS

Building Trades

Students in Building Trades gain experience in carpentry, house framing, siding, and roofing through small building projects. They will learn woodworking skills, safe use of power and hand tools, blueprint reading, and the importance of math principles necessary for the accuracy of construction projects. Students will be educated about the many diverse career opportunities in the construction industry.

Advanced Building Trades

Advanced Building Trades expands on the student's construction skills and knowledge with work in site preparation, cabinet installation, and interior finish carpentry. Students continue to gain valuable, hands-on experience in woodworking, safe use of power and hand tools, framing, siding, and roofing.

Business Management/Marketing

Intro to Business

1 Credit/1 Semester

Level: 123/012

Open to all

Meets graduation requirement in Information & Communication Technology

Business &

Personal Law

1 Credit/1 Semester

Level: 123/012

Priority for Juniors

Introduction to Business

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.

Business and Personal Law

Learn 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, renting a place to live, and borrowing money and buying on credit. The students will create and participate in a mock trial.

Entrepreneurship/Small Business Ownership

1 Credit/1 Semester

Level: 123/012

Priority for Juniors

Meets graduation requirement in Information & Communication Technology

Entrepreneurship/Small Business Ownership

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 will then examine issues pertinent to business management including marketing, purchasing/inventory, production/distribution, operations/staffing, financing, and human resources. The students will participate in a trade industry show.

Business Management

1 Credits/1 Semester

Level: 012

Juniors & Seniors

Meets graduation requirement in Information & Communication Technology

Business Management

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. This course is highly recommended for all students entering the field of business after high school.

Principles of Marketing

1 Credits/1 Semester

Level: 012

Juniors & Seniors

Meets graduation requirement in Information & Communication Technology

Principles of Marketing

This course emphasizes basic marketing skills including product/service management, pricing, promotion, distribution, market research, and the interpersonal skills necessary to work successfully in the real world. Students will have the opportunity to develop leadership skills, career goals, and occupational skills through a real-life opportunity working with Cougar Apparel. This course is highly recommended for any student interested in studying marketing at the college level.

Personal Finance

1 Credit/1 Semester

Level: 123

Juniors & Seniors

Personal Finance

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, comparing financial institutions, income benefits, tax preparation, how to compare different types of loans, understanding the responsibility of how to use credit cards without incurring deep debt and maintaining a healthy lifestyle on a limited budget. Students will explore careers and complete a resume and cover letter.

Computer Networking

Robotics

1 Credit/1 Semester

Level: 123/012

Open to All

Meets graduation requirement
in Information &
Communication Technology

Robotics

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.

Computer Networking I

1 Credit/1 Semester

Level: 012

Priority for Juniors and Seniors

Prerequisite:

C or better in Pre-Algebra

Meets graduation requirement
in Information &
Communication Technology

Computer Networking 1

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 operation 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 imbedded 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 college credit option for this course available for Juniors and Seniors for additional fee.

Computer Engineering Technology 2

1 Credits/1 semester

Level: 012

Prerequisite:

Satisfactory completion of
Computer Networking I

Computer Networking 2

Students will be introduced to the skills required to setup and maintain a home or small business networks. 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 and will troubleshoot issues. Students continue the process of analyzing problems/bugs imbedded in their network by following problem solving techniques learned in the previous class.

Running Start Course: Dual college credit option for this course available for Juniors and Seniors for additional fee.

Computer Programming & Software Development

Computer Programming & Software Development I

1 Credit/1 Semester

Level: 012

Priority Juniors and Seniors

Prerequisite:

C or better in Pre-Algebra

Meets graduation requirement in Information & Communication Technology

Computer Programming & Software Development I

Using a programming language, students will analyze a problem and design, code, test and document a programming solution. Students will experience various opportunities at logic development in the solving of problems. Logic understanding and development is key to generating algorithms for network filtering and routing.

Running Start Course: Dual college credit option for this course available for Juniors and Seniors for additional fee.

Computer Programming & Software Development II

1 Credit/1 Semester

Level: 012

Priority Juniors and Seniors

Prerequisite:

Satisfactory completion of Computer Programming & Software Development I

Computer Programming & Software Development II

This course 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 the object oriented C++ programming language. Additionally the student will be introduced to pointers and structures, and selected preprocessor directives as well as bit manipulations.

Running Start Course: Dual college credit option for this course available for Juniors and Seniors for additional fee.

Digital Photography and Video Arts

Introduction to Photography

1 Credits/1 Semester

Level: 123/012

Open to All

Meets graduation requirement in Art OR Information & Communication Technology

Introduction to Photography

Do you like taking photos? Are you a creative and artistic person who enjoys working with digital media? Do you like going outside and working independently? Then Intro to Photography is the course for you! In this course we will explore the basic technical and artistic aspects of digital photography. This class is hands-on and project-based. In Intro to Photography students will work individually and in groups, develop public speaking skills through group presentations, learn about famous photographers, and more. Students in Intro to Photography will have access to classroom digital cameras, or can bring in their own (iPhone and smart phones are allowed). Students will be introduced to the professional Adobe editing software (Light room).

Digital Photography & Video Arts I

1 Credit/1 Semester

Level: 012

Sophomores, Juniors & Seniors

Meets graduation requirement in Art OR Information & Communication Technology

Digital Photography & Video Arts I

This course is fast paced and is best suited for motivated engaged students. In Photo/Video I students will be introduced to the skills necessary to succeed in today's visual world. Instruction will include studio and field techniques, photojournalism, portrait and candid photography, commercial photography, still life and food photography, as well creation of a personal photo blog and artist's statement, study of the history of photography, and during the second half of the course darkroom work. Student work will be shown in public venues throughout the region.

Running Start Course: Dual college credit option for this course available for Juniors and Seniors for additional fee.

Digital Photography & Video Arts II

1 Credit/1 Semester

Level: 012

Prerequisite:

Satisfactory completion of Photography & Video Arts 1 and teacher recommendation

Digital Photography & Video Arts II

Photo/Video II is designed as the final piece to the Photo/Video program at ConVal. In this course students will select a path that interests them most: video, fine art photography, photojournalism or commercial photography. During the semester they will apply skills they have learned thus far in the photography program to "real world" scenarios. Students will create business cards, work with community clients, develop a professional brand, and market their work. Students in this course need to be highly self-motivated and willing to take on new challenges.

Running Start Course: Dual college credit option for this course available for Juniors and Seniors for additional fee.

Engineering/Mechanical Design

Introduction to Engineering Design

1 Credit/1 Semester

Level: 123/012

Open to All

Prerequisite:

C or better in Pre-Algebra

Meets graduation requirement in Information & Communication Technology

Introduction to Engineering Design (formerly Computer Assisted Drafting and Design)

In this class students will explore the Engineering Design program. Students will use Autodesk computer software to communicate graphic information. Sketching and drawing will be regular visual exercises. This course is equal parts hands on activities and computer use. Projects include bridge building, newspaper towers, 3D printed part, model cabin, and circuit building. Computer software used is the industry standard for Engineering careers. Knowledge and skills gained in this course will be valuable for students pursuing the Engineering Design program.

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Engineering Design and Manufacturing I

1 Credit/1 Semester

Level: 012

Juniors and Seniors

Prerequisite:

Successful completion of Geometry

Meets graduation requirement in Information & Communication Technology

Engineering Design & Manufacturing I (formerly Pre-engineering I)

This course is the first of three classes that can be taken in the engineering discipline. Students engage in open-ended problems; using science, technology, engineering and math to provide a logical outcome. Projects and assignments are those designed by professionals in the field. Students investigate, test and complete projects that support such areas as aerodynamics, biological, sustainability, mechanical and circuit engineering; some use of engineering teams are required. Classroom structure is project based learning outcomes. Students will learn and use; Solidworks, and the AutoCAD suite software in both 2D and 3D environments, also used in the PLTW program. Student will learn how to use scales, micrometers and calipers, multi-meters, oscilloscope. They create projects using both the 3D printer and CNC machines as well as produce simple logic circuits. OSHA fundamentals are introduced to laboratory environment.

Running Start Course: Dual college credit option for this course available for Juniors and Seniors for additional fee.

Engineering Design and Manufacturing II

1 Credit/1 Semester

Level: 012

Prerequisite:

Successful completion of Engineering Design & Manufacturing I or a C or better in Algebra

Engineering Design & Manufacturing II (Formerly Pre-engineering II)

This course is the second of three 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 CNC and 3D printing. Students will be working with clients, preparing presentations, and submitting work in competition format. Focus engineering areas are aerodynamics, biological, sustainability, mechanical and circuit engineering. Skills and knowledge learned will provide the core essentials for studies in mechatronics. Course completers will have the required knowledge of design basics, and be able to implement solutions for problems in an engineering environment, some use of engineering teams are required. OSHA standards emphasized.

Running Start Course: Dual college credit option for this course available for Juniors and Seniors for additional fee.

Engineering Design and Manufacturing III

1 Credit/1 Semester

Level: 012

Prerequisite:

Successful completion of Engineering Design & Manufacturing II

Engineering Design & Manufacturing III

This course is focused on the application of process to an outcome, computer Integrated Manufacturing will be used throughout. Students interested in the field of Architecture will be working on the state design contest. Students will chose an area of engineering focus and build learning outcomes to meet those goals. Student participation in competition is highly recommended. Projects are aligned with real-world problems, and produced to examine feasibility. When possible clients will be integrated into the classroom and work with students. This course uses the concepts learned in both Engineering Design I and II. The use of engineering teams can be applied. Students will create an interactive web page representing the area of engineering interest for the use of college credit or employment opportunity.

Running Start Course: Dual college credit option for this course available for Juniors and Seniors for additional fee.

Fire Science/Emergency Technician (EMT)

Pending State and Local Approval, this course may be offered at CVHS for the 2016/2017 school year.

Graphic Design

Website Design

1 Credit/1 Semester

Level: 012

Open to All

Meets graduation requirement in Art OR Information & Communication Technology

Website Design

Explore the Internet and connect to a global community. Students enrolled in Website Design will develop, produce and publish their own website using state-of-the-industry technologies. Students will develop a digital portfolio using basic HTML, web authoring software, content management software and web-based animations. Presentation of the portfolio will take the place of a final exam. Good writing skills are essential in Website Design.

Graphic Design 1

1 Credit/1 Semester

Level: 123/012

Priority for Juniors

Meets graduation requirement in Art OR Information & Communication Technology

Graphic Design 1

Be creative and have FUN! Students enrolled in Graphic Design 1 will explore many new technologies in creating a broad variety of visual designs. Student projects include logos, posters, brochures, CD covers, t-shirts, ads and other print media. Exposure to website development, software gaming, technology and advertising/marketing are also included in this first level class. Student progress from design and conceptualization to basic drawing techniques and then advance to graphic editing (Adobe Illustrator) and photo editing (Adobe Photoshop). Community based projects allow the students to work in real world situations. Presentation of the final project in the Graphic Design I course takes the place of a final exam.

Graphic Design 2

1 Credit/1 Semester

Level: 012

Prerequisite:
Satisfactory completion of Graphic Design 1 and teacher recommendation

Graphic Design 2

Build upon your knowledge and skill from Graphic Design 1 in this second level course. Students enrolled in Graphic Design 2 will expand on the basic principles and apply them to more comprehensive designs. Students will be exposed to new styles of art and design. More complex forms of print and electronic media will be utilized to develop 4-color ads, multi-page brochures, posters and websites. At this level the students will utilize much of the Adobe Creative Suite including Illustrator, Photoshop, and InDesign. The student-developed portfolio is used as an end of course assessment in place of a final exam.

Running Start Course: Dual college credit option for this course available for Juniors and Seniors for additional fee.

Graphic Design 3

1 Credits/1 Semester

Level: 012

Prerequisite:

Satisfactory completion of Graphic Design 2 and teacher recommendation

Graphic Design 3

The Graphic Design 3 course will serve as the capstone experience in this program. Focus in this course will be on the completion of a graphic design portfolio which will be showcased from a website that the students design for themselves. Website design and development as well as web-based animation will be covered. At this level the students will utilize the entire Adobe Creative Suite including Illustrator, Photoshop, InDesign, Dreamweaver, and Flash. The students will also be involved with community based projects and take time to explore special areas of interest within the Graphic Design industry. Presentation of the student-developed portfolio is used as the summative assessment tool in lieu of a final exam.

Running Start Course: Dual college credit option for this course available for Juniors and Seniors for additional fee.

Manufacturing

Manufacturing Principles and Processes

1 Credit/1 Semester

Level: 012

Seniors and Juniors

Manufacturing Principles and Processes

In today's global economy, modern manufacturing encompasses a wide variety of skills. This course has been developed in co-operation with a local manufacturing company to offer students an opportunity to learn skills and techniques used daily in manufacturing businesses. Classroom sessions will include hands-on learning with an emphasis on measurement techniques, development of efficient assembly processes, and experience with state-of-the-art lean manufacturing practice. Throughout the course, students will use skills learned during frequent class visits to a local, world-class manufacturer. The course goal is to provide students with experience in applying science problem solving while gaining manufacturing background skills that are attractive to many employers.

Nursing

Licensed Nurse Assisting

1 Credit/1 Quarter

Level: 012

Juniors & Seniors

Prerequisite:

Pass Red Cross screening assessment, application and interview required.

Recommended courses:

Anatomy & Physiology

Licensed Nurse Assisting

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 for employment as a Licensed Nursing Assistant.

This 9 week training program is taught by personnel from the American Red Cross and includes off-campus clinical experience. Certificate awarded after completion of NH State Certification Exam. The first six weeks of the class run from 1:00 p.m. - 5:00 p.m. 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/from class and to the clinical sites. Students must plan on working from 4:00 p.m. - 9:30 p.m. during their clinical rotations. There is a 60-hour clinical requirement to satisfactorily complete the LNA class.

Students must be 16 years of age to participate in the LNA program.

Teacher Education

Child Growth and Development

1 Credit/1 Semester

Level: 012

Priority to Sophomores and Juniors

Child Growth and Development

In this course, students will gain a deeper understanding of the developmental progression of prenatal development and parenting techniques. Students will study the stages of pregnancy, birth defects, childbirth and the responsibilities of becoming a parent. Students will also explore the foundations of the first few years of early childhood and gain an overview of the family life cycle. Studies include, lecture, project-based activities, essay/journal writing, case studies, and having the REALCARE baby experience. It is highly recommended that students considering the Teacher Education Program take this course.

Teacher Education I

2 Credits/Full Year

Level: 012

Juniors

Teacher Education I

This course is designed for students interested in pursuing a career in education. Teacher Education I introduces students to basic teaching skills, such as classroom management, lesson planning, and guidance and discipline techniques. Students divide their time between classroom instruction and student teaching preschool, elementary, middle and high school lessons. Classroom instruction includes lecture, lesson planning, essay writing, research projects, video clips, and classroom discussions and will focus on all levels of education. Students will also participate in a civic/service learning project through a non-profit organization.

Teacher Education II

2 Credits/Full Year

Level: 012

Seniors Only

Teacher Education II

Students entering Teacher Education II are expected to have mastered or be proficient in the basic teaching skills learned in Teacher Education I. Students divide their time between classroom instruction and student teaching preschool, elementary, middle and high school lessons. Classroom instruction includes lecture, lesson planning, essay writing, research projects, video clips, and classroom discussions and will focus on all levels of education. Students will participate in a civic/service learning project through a non-profit organization as well as completing a final senior project and digital portfolio.

Prerequisite:

Successful completion of Teacher Education I

Meets graduation requirement in Information & Communication Technology

Woodworking

Woodworking I

1 Credit/1 Semester

Level: 123

Open to All

Woodworking I

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. Serves as an excellent introduction to the Building / Construction Trades Program.

Woodworking II

1 Credit/1 Semester

Level: 123

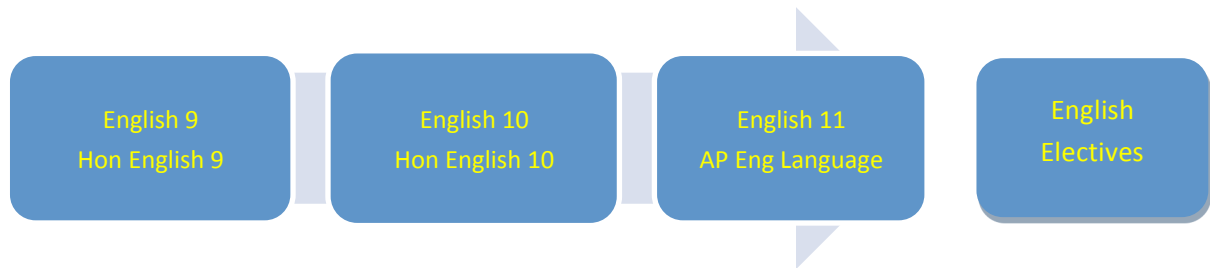
Satisfactory completion of
Woodworking 1

Woodworking II

Students will explore the areas of furniture and cabinet design, form and function, manufactured wood products, advanced joinery, millwork, lathe operation, hardware and finishing processes. Individual projects will be produced and finished.

English/Language Arts

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.** Seniors fulfill their English requirement through electives; additional special interest electives are open to students in grades 9-11.



English 9

1 Credit/1 Semester

Level: 123/012

Freshmen

Meets Freshman English Requirement

English 9

The freshman program provides a foundation for secondary school English. Study of a wide range of literary genres and non-fiction, focus on a variety of writing modes, as well as practice in speaking, listening and viewing, introduce 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, supplemented with four additional texts (*Of Mice and Men*, *Tuesdays with Morrie*, *The Odyssey*, and *Romeo & Juliet*). Students will work toward proficiency in reading by using several comprehension strategies, including summarizing, predicting, chunking, and two-column note taking. Students will work toward proficiency in writing by composing informational and expository multi-paragraph essays. All freshmen will be required to participate in the Symposium - a group or individual multimedia presentation that focuses on research-based questions/themes.

Honors English 9

1 Credit/1 Semester

Level: 010

Freshmen

Grade 8 LA teacher recommendation; writing sample; NWEA spring reading scores in 85%+; successful completion of fall semester assignment.

Honors English 9

This course, designed for students who demonstrate advanced skills in reading and writing, supplements the core English program for grade 9 with additional literary works, writing assignments, and projects.

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

English 10

1 Credit/1 Semester
Level: 123/012
Sophomores

Meets Sophomore English Requirement

Honors English 10

1 Credit/1 Semester
Level: 010
Sophomores

Meets Sophomore English Requirement

Prerequisite:

Minimum B in English 9 and teacher recommendation.

English 11 – American Cultural Studies

1 Credit/1 Semester
Level: 123/012
Juniors

Meets Junior English Requirement

AP English Language & Composition

1 Credit/1 Semester
Level: 010

Meets Junior English Requirement

Prerequisite:

Teacher recommendation; writing sample; weighted GPA 4.3+; successful completion of summer assignment.

English 10

The sophomore program extends the areas of emphasis in English 9, with study of a variety of literary genres and non-fiction, 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 four supplementary texts (*To Kill a Mockingbird*, *Night*, *Antigone*, 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.

Honors English 10

For students who have demonstrated advanced skills in reading and writing, this course supplements the tenth grade core curriculum with additional reading, writing, and projects. The 010 level is designated as an honors class with longer and additional reading assignments, and more complex writing and research assignments.

Teacher recommendation, prior grades and work samples will be considered for placement.

Students in English 10 010 must complete a summer reading and writing assignment to take the course.

English 11 – American Cultural Studies

This core course for eleventh graders will introduce students to the major ideas and concepts of American culture. Students will reflect on the American experience in literature, media, film, and their own writing. Along with a focus on speaking and listening, students will continue to build their proficiency in the Common Core State Standards of reading and writing.

Advanced Placement English Language & Composition

For students who have achieved or are motivated to achieve at a high level in reading and writing, this course offers engaging and challenging opportunities to build skills in the analysis and writing of text across the disciplines. Essential skills developed in this class specifically focus on effective argument and effective use of language. Students primarily read non-fiction; however, they also study fiction and poetry. Writing assignments focus on the informative, explanatory and argument essays, though other types of narrative and creative writing are considered. Students practice and prepare for the Advanced Placement Language and Composition Examination.

There is a fee for the AP exam that will take place in May 2017.

AP English Literature

2 Credit/Full Year

Level: 010

Seniors Only

Prerequisite:

Teacher recommendation;
writing sample; weighted GPA
4.3+; successful completion of
summer assignment.

Advanced Placement English Literature

For seniors only, this intensive course in literature and critical writing is equivalent to a first-year college course. Students electing this course should expect longer daily reading assignments as well as frequent, challenging writing assignments. Through the close reading of selected texts, students develop their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Students consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of diction, figurative language, imagery, symbolism, and tone. Writing is an integral part of this course: assignments will focus on critical analysis of literature and include expository and persuasive essays. Units include practice in timed-essay writing and the application of various forms of literary criticism. Writing-to-learn is also a central goal in regular extensive journal assignments. Students practice and prepare for the Advanced Placement Literature and Composition Examination in May.

There is a fee for the AP exam that will take place in May 2017.

Young Adult Fiction

1 Credit/1 Semester

Level: 123/012

Open to All

Young Adult Fiction

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

1 Credit/1 Semester

Level: 012

Juniors & Seniors

Philosophy

Students in this survey 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 compiles a portfolio of reactions to different philosophies and develops philosophies of their own. The emphasis of the course is on self-knowledge and community building through reading, writing, viewing, listening, collaboration, and discussion.

Journalism

0.5 Credit/1 Quarter

Level: 123/012

Sophomores, Juniors &
Seniors

Journalism

This hands-on course will allow students to work on real news stories and features for the school newspaper as well as class publications. Additionally, they will participate in formal and informal discussions about journalistic ethics and problems.

Aesthetics & Ideas

1 Credit/1 Semester

Level: 012

Sophomores, Juniors & Seniors

Prerequisite:

Teacher recommendation and interview required.

Meets 0.5 credit of art and 0.5 credit of English

Film Studies

0.5 Credit/1 Quarter

Level: 123/012

Juniors & Seniors

Intro to Ethics & Philosophy

0.5 Credit/1 Quarter

Level: 123/012

Juniors & Seniors

Writing the Essay

0.5 Credit/1 Quarter

Level: 012

Juniors & Seniors

Aesthetics & Ideas

Asking the essential question, “how do 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.

Film Studies

Introducing its history and development, this elective is designed to help students develop a greater appreciation for the unique characteristics of film as a storytelling and artistic form. Students explore and analyze elements of classical and contemporary films in a wide range of genres in order to increase awareness of film language and to become more sophisticated viewers. In addition, students examine basic film theory and criticism from an historical and cultural perspective. Large and small group discussions are important part of the learning process. Evaluation is based on oral and written expression, independent analysis, and assigned readings.

Intro to Ethics & Philosophy

After an overview of major schools of philosophical thought, students will explore ethical perspectives in relation to their lives. Through a variety of readings and media, students will identify types of thinkers in real-life situations, as well as attempt to define their current ethical priorities. Real-world examples will provide the background for students to break down their decision-making process.

Writing the Essay

Recommended for serious, college-bound juniors and seniors, this course will provide an intensive exposure to essay writing. Focusing on helping students to improve their writing, classes will align with the steps of the writing process, including pre-writing, drafting, revising, conferencing, work shopping and editing; commitment to and active participation in this process, therefore, are essential. Along with sharing some of their written work with peers, students will also read and discuss model essays. Students will produce a portfolio of several essays by the conclusion of the course.

Theatre Arts

0.5 Credit/1 Quarter

Level: 123/012

Open to All

Meets either an art or English requirement.

Theatre Arts

Theatre Arts is a production-based introductory class in which students learn and practice acting, directing and technical theatre skills. 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, student 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 works to present to an invited audience.

Advanced Writers' Workshop

1 Credit/1 Semester

Level: 012

Juniors & Seniors

Advanced Writers' Workshop

This semester course will give students more advanced instruction and practice in three different kinds of writing: essays, journalism and creative writing (incl. fiction and poetry). At least one of the essays will be for a college application. Students will report and write stories for the school newspaper. Students will write every day, revise each piece at least twice, and complete at least one assignment per week, resulting in a portfolio that will be assessed for a final grade. Peer workshop revision and editing will be part the daily writing process.

Public Speaking

.5 Credit/1 Quarter

Level: 012

Open to All

Public Speaking

Public speaking aims to develop students' skills and confidence in the areas of public speaking, presentation, and creative performance. The course will cover both logic and argumentation as well as the fundamentals of effective public speaking: preparation, pace, tone, facial and vocal expressiveness, and anxiety management. Students in this class will be prepared for presentations, persuasive speeches, and the interpretation of prose and poetry. This course will blend creativity with oral and written skills.

Family and Consumer Sciences

Family and Consumer Sciences Education prepares students for careers working with individuals and families as well as being productive members of their own family, community and workplace. In New Hampshire, F&CSE is centered on six areas as identified in the New Hampshire Guidelines for Family and Consumer Sciences Education: Developmentally appropriate coursework integrating academic and career/workplace skills to prepare students to successfully manage individual, family and work roles in the following six areas: 1.) Career, Community and Family Relations, 2.) Foods, Nutrition and Wellness, 3.) Human Development, Early Childhood and Parenting, 4.) Consumer and Resource Management, 5.) Housing and Textiles, and 6.) Hospitality, Tourism and Facilities Management. The following ConVal and Conant courses fall within the scope of Family and Consumer Science Education.

Foods

0.5 Credit/1 Quarter

Level: 123

Juniors & Seniors

Offered at Conant

Foods

This is an introductory course to foods and food preparation. The course includes reading, written homework, projects and tests. Lab work reinforces the preparation skills, cooking and nutrition concepts taught in class. Units will include the following: kitchen safety; food safety, measuring, recipe reading; nutrition labeling; quick breads, yeast breads, preparing fruits and vegetables, meat preparation, milk and egg cookery. Making pasta or raviolis. Basic caking decorating project(s). Foreign foods include Chinese, Mexican, and Italian. Iron Chef Lab is the final lab for this class.

Transportation will be provided for this course offering.

Clothing 1/Clothing 2

0.5 Credit/1 Quarter

Level: 123

Sophomores, Juniors & Seniors

Offered at Conant

Clothing 1 and Clothing 2

This course is designed for the beginner in sewing and clothing concepts. Units include: history of fashion, choosing your clothing, fibers and fabrics, machine operation, measuring, pattern selection, and basic garment construction techniques. Fabrics of cotton and cotton blends are used to make a basic garment. Projects are done at student cost.

Transportation will be provided for this course offering.

Health and Wellness

Beginning with the **class of 2017**, the Physical Education and Health requirements will be achieved exclusively through a two (2) part Health & Wellness program. 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.

Health & Wellness 1

1 Credit/1 Semester

Level: 123

Freshmen & Sophomores

REQUIRED for Class of 2017
and beyond

Health & Wellness 1

This course will combine focus on physical education and health. In the PE portion of the course there will be a focus on activities that develop basic skills and knowledge for physical fitness and sports. Students will be required to change into athletically appropriate clothing every day. Grading in this portion of the class is based on participation and demonstration of the skills and knowledge covered in the quarter. In the health portion of the course, state required health topics of nutrition, physical fitness, mental health, human sexuality and relationships, drugs, alcohol and tobacco are integrated into this very active, discussion-based curriculum. The focus of this portion of the class is how to live a healthy lifestyle and students will be instructed on how to keep themselves safe by making good choices in these areas. This portion of the course is classroom-based and grading is based on topic appropriate assignments and activities.

Health & Wellness 2

1 Credit/1 Semester

Level: 123

Juniors & Seniors

Prerequisite:

Health & Wellness 1

REQUIRED for Class of 2017
and beyond

Health & Wellness 2

This course will continue the focus on physical education and health. In the PE portion of this course there will be a focus on activities that develop more in depth skills and knowledge for physical fitness, individual and team sports that promote a lifelong appreciation for the benefits of physical activity as part of a healthy lifestyle. Students will be required to change into athletically appropriate clothing every day. Grading in this portion of the class is based on participation and demonstration of the skills and knowledge covered in the quarter. In the health portion of this course topics will focus on healthy choices regarding nutrition (especially how food affects health status both positively and negatively), the prevention of disease, ways to maintain mental health and the development of adult level skills such as parenting. Students will be instructed on where to find resources in the community and the consequences of poor decision making for self and others will be strongly emphasized. This portion of the course is classroom-based and grading is based on topic appropriate assignment and activities.

Physical Education

0.5 Credit/1 Quarter

Level: 123

Juniors & Seniors

Physical Education

This class focuses on activities that develop an appreciation and a knowledge/skill base for physical fitness and sports. Students will be required to change into athletically appropriate clothing every day. Grading in this class is based on participation and demonstration of the skills and knowledge covered in the quarter. This class is an elective and may be taken Junior or Senior year.

Personal Fitness

0.5 Credit/1 Quarter

Level: 123

Juniors & Seniors

Prerequisite:

PE 1 or Health & Wellness 1

Health Topics

0.5 Credit/1 Quarter

Level: 123

Juniors & Seniors

Family & Independent Living

0.5 Credit/1 Quarter

Level: 123

Juniors & Seniors

Prerequisite:

Health Topics

Nutrition for Life

1 Credit/1 Semester

Level: 012

Juniors & Seniors

Prerequisite:

One credit of health

Intro to Exercise Science

1 Credit/Semester

Level: 012

Juniors & Seniors

Prerequisite:

One credit of PE and minimum of 73 in Biology 010 or 83 in Biology 123 or 012

Personal Fitness

Students will engage in a combination of instruction and personal fitness activities designed to assist them in developing a personal fitness plan that will involve a variety of aerobic and anaerobic activities. Students will be required to change into athletically appropriate clothing every day. Grading in this class is based on participation and the development and use of a personal fitness plan. This class can be taken to meet the second 0.5 required credit in PE but may also be taken prior to the end of grade 12 as an elective. This class is an elective and may be taken Junior or Senior year.

Health Topics

State required health topics of nutrition, physical fitness, mental health, human sexuality and relationships, drugs, alcohol and tobacco are integrated into this very active, discussion-based curriculum. The focus of the class is how to live a healthy lifestyle and students will be instructed on how to keep themselves safe by making good choices in these areas. This is a classroom-based course and grading is based on topic appropriate assignments and activities.

Family and Independent Living

This course is designed to meet the second half of the ConVal Health requirement for students in grade 11 or 12. Topics will focus on healthy choices regarding nutrition (especially how food affects health status both positively and negatively), the prevention of disease, ways to maintain mental health and the development of adult level skills such as parenting. Students will be instructed on where to find resources in the community and the consequences of poor decision making on self and others will be strongly emphasized. This is a classroom-based class and grading is based on topic appropriate assignment and activities.

Nutrition for Life

This course is designed for students who plan to pursue a career in health or fitness related fields or any student who is interested in exploring the world of nutrition. The class will include the study of the essential nutrients and the role diet plays in the development of chronic disease. Students will gain knowledge of digestion, absorption, metabolic processes, and nutrition for different populations such as babies, the elderly, athletes and people with chronic conditions.

Introduction to Exercise Science

This course is designed for students who would like to gain an understanding of developing safe and effective exercise programs. The principles of the anatomy, physiology and mechanics of body movement, sports nutrition, sports physiology and exercise physiology will be studied. This will be a classroom based class with some physical activities included to support the material being learned. Grading in this class will be based on assignments and activities.

Mathematics

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. A sequence of courses through Algebra 2 is typically required for college admission; Algebra 3 and/or Trigonometry are recommended for more competitive schools.

Math Foundation/Pre-Algebra

1 Credit/1 Semester
Level: 123

Math Foundations/Pre-Algebra

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 Concepts

1 Credit/1 Semester
Level: 123

Algebra Concepts

This course is designed to allow students to explore basic algebraic skills. Students will develop fundamental algebraic skills in applying formulas, solving equations, reading and interpreting graphs, and analyzing data.

Algebra 1

2 Credits/2 Semesters
Level: 012

Algebra 1 Part 1 and Part 2

This is a yearlong course in Algebra I designed to give freshman a solid foundation in mathematics. Emphasis will be placed on developing strong algebraic skills through a combination of direct instruction and hands-on activities. Students will have opportunities to review and practice basic skills as well as develop new skills through guided practice. Emphasis will be placed on solving multi-step, complex problems. Topics expected to be mastered in Algebra include: probability and statistics; solving equations; inequalities and systems; solving word problems algebraically; graphing on the coordinate system; simplifying expressions; factoring polynomials; rationalizing expressions; analyzing functions and relations (linear, quadratic, absolute value, cubic, exponential, radical and rational).

Prerequisite:

Minimum 73 in Algebra 1 Part 1 to move on to Part 2

Geometry Concepts

1 Credit/1 Semester
Level: 123

Geometry Concepts

This course is designed to allow students to experience geometric properties. Students will learn properties of angles and fundamental geometric shapes and develop skills in measurement (perimeter and area) and unit conversions. Topics will also include an exploration of the theorems related to right triangles and circles. Working in groups will allow students to analyze applications of geometry in their lives and in the work place.

Prerequisite:

Minimum 73 in Algebra Concepts

Geometry

1 Credit/1 Semester

Level: 012

Prerequisite:

Minimum 73 in Algebra 1 Part 2

Geometry

Geometry provides students with experiences that deepen the understanding of two and three-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; and (4) polyhedral and other solids. Use of graphing calculators and computer drawing programs is encouraged.

Honors Geometry

1 Credit/1 Semester

Level: 010

Minimum 83 in Honors Algebra 1 (8th Grade)**Honors Geometry**

Honors Geometry provides students with the same foundations they develop in Geometry - 012. 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

1 Credit/1 Semester

Level: 012

Prerequisite:

Minimum 73 in Algebra 1 Part 2

Algebra 2

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, rational, logarithmic, and exponential). Students will solve equations for the roots of these functions, as well as graph transformations.

Honors Algebra 2

1 Credit/1 Semester

Level: 010

Prerequisite:Minimum 83 in Honors Algebra 1 (8th Grade)**Honors Algebra 2**

Honors Algebra 2 is a continuation of the Honors 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.

Senior Math

1 Credit/ 1 Semester

Level: 012

Seniors, Juniors w/permission

Prerequisite:

Minimum 73 in Geometry Concepts or passing grade Algebra 1 Part 2

Senior Math

This is a survey course, focusing primarily on the algebra skills needed to enter the work force or community colleges. Students will develop facility 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.

Topics in Applied College Math

1 Credit/1 Semester

Level: 012

Seniors

Prerequisite:

Minimum 73 in Senior Math and teachers recommendation or passing grade in Algebra 2 or above

Honors Pre-Calculus

1 Credit/1 Semester

Level: 010

Prerequisite:

Minimum 83 in Honors Geometry

Algebra 3

1 Credit/1 Semester

Level: 012

Prerequisite:

Minimum 73 in Algebra 2 and Geometry

Trigonometry

1 Credit/1 Semester

Level: 012

Prerequisite:

Minimum 73 in Algebra 3

Statistics

1 Credit/1 Semester

Level: 012

Prerequisite:

Minimum 73 in Algebra 2

Topics in Applied College Math (TAC)

This course is designed as a follow-up to Senior Math. It is designed as a college math program that will meet the entrance requirements of the Community College System of New Hampshire. Students who achieve a passing grade in this course will not need to take the Accuplacer Exam nor will they need to take a non-credit bearing remedial math course as part of two-year programs that they are accepted into.

Running Start Course: Dual college credit option for this course available for an additional fee.

Honors Pre-Calculus

This course is designed to prepare advanced students for Calculus. The course will cover the topics listed in Algebra 3 and Trigonometry at a rapid pace. Emphasis will be placed on applications and solving challenging, real world problems.

Algebra 3

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 major topics will include: Conic Sections, Limits, Sequences and Series, and Vectors.

Trigonometry

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

Statistics-012 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 Statistics

1 Credit/1 Semester

Level: 010

Prerequisite:

Minimum 83 in Honors Pre-Calculus

Honors Statistics

Statistics-010 is a college-level, non-calculus based course that will study introductory statistics. This course is designed to present strategies for collecting, organizing, and drawing conclusions from data. Students will work on projects involving the hands-on gathering and analysis of real world data. They 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 will cover multiple distributions other than normal as well as multiple regressions and parameter comparisons that 012 will not. The honors probability and statistics will be more in depth and cover material at a much faster pace than the 012 level.

Calculus

1 Credit/1 Semester

Level: 012

Prerequisite:

Minimum 73 in Trigonometry

Calculus

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.

AP Calculus

2 Credits/Full Year

Level: 010

Prerequisite:

Minimum 83 in Honors PreCal or 93 in Trigonometry or 83 in Calculus 012

Advanced Placement Calculus

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.

There is a fee for the AP exam that will take place in May 2017.

AP Calculus/Physics

2 Credits/Full Year

Level: 010

Prerequisite:

Minimum 73 in AP Calculus or 93 in Calculus 012

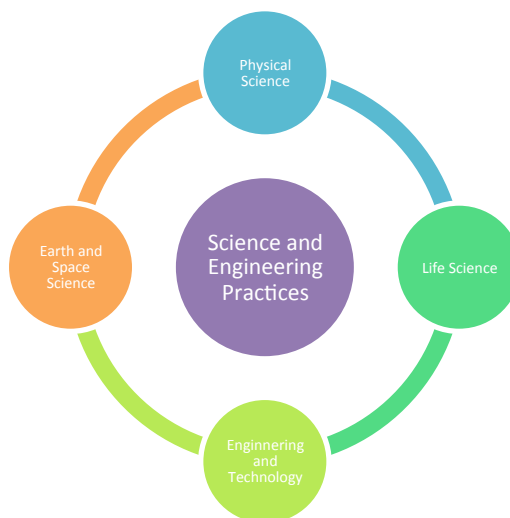
Advanced Placement Calculus and Physics

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.

There is a fee for the AP exam that will take place in May 2017.

Science

The ConVal Science Department has realigned its curriculum in response to changes in science standards at the national level. The Next Generation Science Standards (NGSS) incorporate the Common Core into science instruction. Additionally, they emphasize that teaching students the practices scientists and engineers use on a daily basis is equally important to teaching them concepts related to the content area. This is represented in the diagram below.



In order to meet the requirements of the Next Generation Science Standards as well as to better meet the needs of all learners, earning the required three science credits will change as follows.

Require all students to take Physical Science in the freshman year. There is no prerequisite. *(Effective beginning with the class of 2019.)*

Require all students to take Biology by end of the junior year. The prerequisite is Physical Science.

Require all students to take Earth and Space Science by end of the junior year. There is no prerequisite. *(Effective beginning with the class of 2019; members of the classes of 2017 and 2018 may choose to take Earth and Space Science instead of Chemistry or Lab Investigations for their third required credit.)*

Required Science Courses

Physical Science

1 Credit/1 Semester

Level: 012/123

Required for Freshmen

Physical Science

A lab-based course covering the basics of scientific and engineering practices, chemistry topics of matter and energy, physics topics of motion, forces and waves, and STEM principals in alignment with the Next Generation Science Standards (NGSS). Emphasis is on learning concepts and skills through hands-on applications. Students will be exposed to scientific thinking and writing skills, experimental design, data collection, and analysis.

Earth and Space Science

1 Credit/1 Semester

Level: 012/123

Prerequisite:

None

Required beginning with the Class of 2019

Earth and Space Science

Earth and Space Science is designed to take students on a journey from the beginning of our universe, to the formation of the stars and our planet. Students will explore Earth's geological, hydrological, meteorological and biological systems and how they function as part of The Earth System. Earth topics will include geologic time, plate tectonics, the transfer of energy in Earth's system and the impact of human activity on that system. Students will also explore Earth's place in the Universe and examine the influences that celestial bodies, both near and far, have on The Earth and each other. Space topics will include planetary evolution, stellar evolution, astrobiology, and humanity's evolving relationship with the universe through advancing technologies. Students will explore Earth and Space Science through individual and group lab work, graphical interpretation, close reading, argumentative writing, science and engineering practices and research-based STEM projects.

Lab Investigations

1 Credit/1 Semester

Level: 123/012

Prerequisite:

Physical Science

Lab Investigations (formerly ELI)

Lab Investigations is an elective open to students wishing to more deeply explore chemistry applications. Students will investigate concepts in three areas of concentration: energy, the environment, and human health. Topics will include water as a resource, chemical energy in food, protein analysis, toxicity and pollution, our atmosphere, acid rain, and fossil and alternative fuels. ***The prerequisite will be Physical Science or Earth Physical Science for the Classes of 2017 and 2018. This course will count as one of the three science credits required for graduation ONLY for the classes of 2017 and 2018. For the classes of 2019 and beyond, Lab Investigations will not count for one of the three required science credits.***

Biology

1 Credit/1 Semester

Level: 012/123

Prerequisite:

Physical Science

Biology

Biology, the study of living organisms, increases students' understanding of themselves as living organisms. This course examines structures and processes, unity and diversity among life forms, and heredity. Students successfully completing this course will better understand the how living organisms function and interact as well as medical and ecological issues of our society, and will be able to make informed decisions as citizens.

Honors Biology

1 Credit/1 Semester

Level: 010

Prerequisite:

Minimum 90 in Earth/Physical Science; NWEA math and reading scores 80th + percentile and teacher recommendation.

Honors Biology

This course covers 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.

Science Electives

Chemistry

1 Credit/1 Semester

Level: 012

Juniors & Seniors

Meets Lab Science

Requirement for Classes of
2017, 2018

Prerequisite:

Physical Science and teacher
recommendation with review
of NWEA scores

Honors Chemistry

1 Credit/1 Semester

Level: 010

Sophomores/Juniors

Meets Lab Science

Requirement for Classes of
2017, 2018

Prerequisite:

Physical Science, teacher
recommendation and NWEA
math and reading scores 80th+
percentile.

AP Chemistry

2 Credits/Full Year

Level: 010

Juniors & Seniors

Prerequisite:

Minimum 87 in Hon Chemistry
and teacher recommendation

Physics

1 Credit/1 Semester

Level: 012

Meets Lab Science

Requirement for Classes of
2017, 2018

Prerequisite:

Minimum 82 in Algebra 1 and
Geometry

Chemistry

This science course, which prepares students for college entry, is a laboratory science with an emphasis on experimental chemistry techniques and problem solving skills. Topics covered include the elements, formulas of compounds, writing and balancing of chemical equations, chemical reaction types, acids and bases, and calculations involving chemical quantities. Students must have good organization skills, an excellent work ethic, and a motivation to master the mathematical concepts of chemistry.

Honors Chemistry

This Honors course is designed to meet the needs of the highly capable student who demonstrates excellent writing, reading and thinking skills, with a genuine interest in the sciences. Laboratory experiment stress inquiry skills and mathematical analysis of the data and preparation for Advanced Placement Chemistry.

Advanced Placement Chemistry

This science course is designed to be the equivalent of the general chemistry course taken during the first year of college. Students will prepare for the required AP exam, which provides for the possibility of college credit. Laboratory work and demonstrations supplement the lecture portion of the course. This course typically is offered alternate years with AP Biology. ***A previous or concurrent course in Physics is strongly suggested. There is a fee for the AP exam that will take place in May 2017.***

Physics 012

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 are covered.

Honors Physics

1 Credit/1 Semester

Level: 010

Meets Lab Science

Requirement for Classes of
2017, 2018

Prerequisite:

Algebra 2 and Geometry

AP Biology

2 Credits/Full Year

Level: 010

Juniors & Seniors

Prerequisite:

Minimum 87 in Honors
Chemistry and Honors Biology
and teacher recommendation

AP Calculus/Physics

2 Credits/Full Year

Level: 010

Juniors & Seniors

Prerequisite:

Calculus /AP Calculus or math
teacher recommendation

Honors Physics 010

This honors level physics course is intended for college bound students planning to major in science or technology fields. This course will provide an in depth treatment of motion, force, work, energy, and momentum. Wave mechanics, sound, light, electrostatics, electricity and electronics are also addressed.

It is recommended that students also complete Pre-Calculus.

Advanced Placement Biology

This course is equivalent to a two-semester college course in introductory biology and is designed to enhance student knowledge gained in Honors Biology 010. The Four Big Ideas of biology: evolution, use of energy and matter, response to stimuli, and interactions within biological systems are the unifying themes of the course. Students explore the Enduring Understandings that fall under each Big Idea through inquiry investigations. A minimum of 25% of the course is spent doing laboratory exercises. Lecture notes, projects, and assigned readings are used to reinforce student learning. Significant time will be spent developing writing skills. Students are expected to work on course material outside of class daily. This course prepares students for the AP Exam, which provides opportunity for college credit. This course is typically offered alternate years with AP Chemistry. *There is a fee for the AP exam that will take place in May 2017.*

Advanced Placement Calculus and Physics

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. *There is a fee for the AP exam that will take place in May 2017.*

Sustainable Agriculture

1 Credit/1 Semester

Level 123/012

Does NOT meet lab requirement

Prerequisite:

Physical Science

Sustainable Agriculture (Spring or Fall)

In this project based learning (PBL) class, students gain knowledge and skills by working on authentic projects to answer a complex problem relating to food production systems. Students explore the three over-arching components of sustainable agriculture; profit for farmers and small scale growers over the long term, stewardship of our land, water and air, and quality of life for farmers/growers and their communities. Their studies include fieldwork at a local farm that is starting up in the Brookstone field across from ConVal High School. Additionally, local agricultural professionals present each month, sharing with students how community members are making a living in agriculturally related careers. Students also have field experiences at orchards, micro farms, and small and large-scale farms. Throughout Sustainable Agriculture, students plan, propagate, plant, grow, maintain, harvest and distribute food.

Sustainable Agriculture Spring focuses on the early phases of the growing cycle, particularly planning and preparing fields, as well as propagating and planting seedlings.

Sustainable Agriculture Fall continues the work of Sustainable Agriculture Spring, focusing on the later phases of the growing cycle, particularly harvesting and distributing produce, as well as retiring fields for the winter.

This is a two-part course; students may take both parts, or opt for either the spring or fall part of this curriculum separately for one credit each.

Oceanography

1 Credits/1 Semester

Level: 123/012

Does NOT meet lab requirement

Prerequisite:

Biology

Oceanography

This course stresses the essential principles of Ocean Literacy. These include learning to communicate in a meaningful way about the ocean and making informed and responsible decisions regarding the ocean and its resources. Students will explore the physical, chemical, geological and biological aspects of the ocean. Some dissection should be expected.

Anatomy & Physiology 1

1 Credit/1 Semester

Level: 012

Juniors & Seniors

Prerequisite:

Minimum 83 in Biology ;
minimum 73 in Honors Biology

Meets Lab Science

Requirement for Classes of

2017, 2018

Anatomy & Physiology 1

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 covered in this section includes: introduction of anatomy and physiology, organization of the body, medical terminology, histology, integumentary system, skeletal system, muscular system, nervous system, the somatic and special senses, health occupations and history of medicine.

This is a two-part course; students may opt for the first or second part of this curriculum separately for one credit each.

Anatomy & Physiology 2

1 Credit/1 Semester

Level: 012

Juniors & Seniors

Prerequisite:

Minimum 83 in Biology ;

minimum 73 in Honors Biology

Meets Lab Science

Requirement for Classes of

2017, 2018

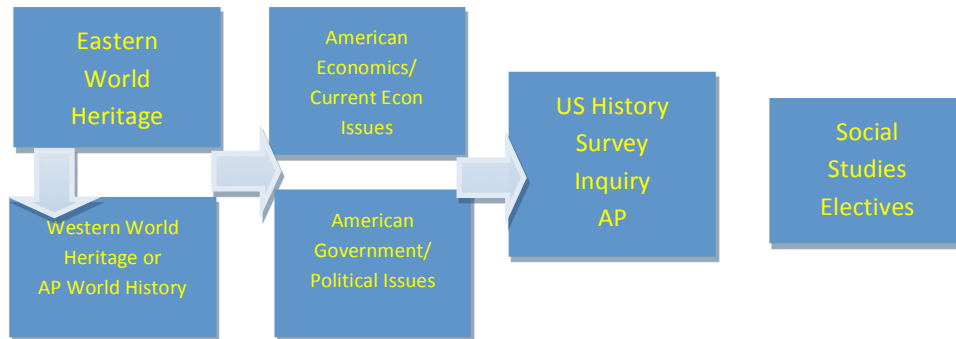
Anatomy & Physiology 2

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 covered 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 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

All students are required to complete three (3) credits in Social Studies for graduation, which are earned through one credit in Eastern World Heritage; one credit in the required US History program and half credit each of the required Government/Economics or Political Issues/Current Economic Issues. It is necessary for students to successfully pass Eastern World Heritage before being allowed to move on to subsequent social studies courses.



Eastern World Heritage

1 Credit/1 Semester

Level: 123/012

Freshmen

Meets graduation requirement for Global Studies

Eastern World Heritage

This course will examine both the historical and geographic trends that have led to the development and sustainability of Eastern civilizations. Beginning with a study of the cultural hearths of Mesopotamia, India and China, students will conduct a brief survey of how Eastern civilization developed and interacted with Western civilization from the first cultural exchanges to current globalization. Skills needed for the rest of high school social studies program will be introduced and practiced.

Western World Heritage

1 Credit/1 Semester

Level: 123/012

Prerequisite:

Eastern World Heritage

Western World Heritage

This course will examine 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 will conduct a brief survey of how Western civilization developed and interacted with Eastern civilization from the first globalization to the present. Skills needed for the rest of high school social studies program will be introduced and practiced.

AP World History

2 Credits/Full Year

Level: 010

Prerequisite:

Minimum 87 in Eastern World Heritage and teacher recommendation.

Advanced Placement World History

The purpose of the course is to develop 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.

There is a fee for the AP exam that will take place in May 2017.

American Economics

0.5 Credit/1 Quarter
Level: 123/012

American Economics

Introduction to Economics will study the basic economic questions of who gets what and how. Students will understand the relationship between prices, supply and demand and discuss the role of private enterprise and the role of government in the national economy.

Current Economic Issues

0.5 Credit/1 Quarter
Level: 012
Juniors & Seniors;
Sophomores w/permission

Current Economic Issues

Core topics covered include Environmental and Resource economics, America in the Global Marketplace, Domestic Economic Issues. Other issues might include: Education funding in NH, current macroeconomics policies, current events and topics based on student interests.

American Government

0.5 Credit/1 Quarter
Level: 123/012

American Government

This course is designed to apply the principles of American government and law to the student's everyday life. The course will give the student an understanding of the structure of American government on the national, state and local levels. The study of law will focus on constitutional law (with a greater adherence to the Bill of Rights), state law and local ordinances.

Political Issues

0.5 Credit/1 Quarter
Level: 012
Juniors & Seniors;
Sophomores w/permission

Political Issues

This course will explore the structure and concepts of American government through the recurring and current issues that frame debate in our society. The students will explore such issues as federalism, civil rights, conservatism vs. liberalism, balance of powers and interpretations of the constitution. The students will study a comparison of political systems in use throughout the world and around our nation.

US History Survey

1 Credit/1 Semester
Level: 123
Juniors

US History Survey

This course will cover selected topics and themes in American History beginning with the Civil War and ending with the end of the Cold War. This course is intended for students who are seeking a basic understanding of the events and forces that have shaped modern American life.

US History Inquiry

1 Credit/1 Semester
Level: 012
Juniors by Application

US History Inquiry

This course will cover selected topics and events in American History beginning with the Civil War and ending with the end of the Cold War. This course is intended for serious students of history who are interested in pursuing a rigorous academic environment which will prepare them for the SAT and ACT testing program in the spring.

Admission into US History inquiry is determined by (a) department recommendation, (b) writing sample completed at the end of sophomore year, and (c) weighted GPA (3.3)

AP US History
2 Credits/Full Year
Level: 010
Juniors by Application

Advanced Placement US History

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 1990s. This course will prepare students for the AP Examination in US History. *Admission into AP US History is determined by (a) department recommendation, (b) writing sample completed at the end of sophomore year, and (c) weighted GPA (4.3)*

There is a fee for the AP exam that will take place in May 2017.

World Religions
0.5 Credits/1 Quarter
Level: 012
Juniors & Seniors

World Religions

This course will explore the religions of the Judeo-Christian-Islamic tradition and eastern religions such as Hinduism and Buddhism. 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. *This course is offered every other year and will be offered in 2017-2018.*

Psychology
1 Credits/1 Semester
Level: 012
Juniors & Seniors

Psychology

This course is for students seeking a basic understanding of human behavior. Topics include the biological basis of behavior, human growth and development, personality development, learning and intelligence and mental health. *This course is offered every other year and will be offered in 2016-2017.*

Post-World War II
0.5 Credits/1 Quarter
Level: 012
Seniors

Post World War II

This course will be an in-depth analysis of US History, from 1945-2000. 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. *This course is offered every other year and will be offered in 2017-2018.*

Special Education

Please note that special education classes are not offered as a course listing. Special education classes (when appropriate) are individually determined by an IEP team and are considered special education services to meet individual student needs. Special education classes are not based on an individual class selection process.

Visual and Performing Arts

All students are required to complete one-half (0.5) credits in Art for graduation. The Art department at CVHS is committed to fostering uniquely individual creative thought in a physically safe environment that encourages intellectual risk-taking. It is our fundamental belief that students should have a strong, skill based foundation that gives opportunity to create, analyze and reflect on the role, value and impact the arts have on our society.

Visual Arts

2D Studio

1 Credit/1 Semester

Level: 123/012

Open to All

Meets Art Requirement

May be taken more than once
for credit

3D Studio

1 Credit/1 Semester

Level: 123/012

Open to All

Meets Art Requirement

May be taken more than once
for credit

Ceramics

1 Credit/1 Semester

Level: 012

Sophomores, Juniors & Seniors

May be taken more than once
for credit

Aesthetics & Ideas

1 Credit/1 Semester

Level: 012

Sophomores, Juniors & Seniors

Teacher recommendation and
interview required.

Meets 0.5 Credit of Art and 0.5
Credits of English

2D Studio

The primary focus of this class will be exploring art and design concepts through two dimensional artworks such as, drawing, painting, printmaking, collage. The specific projects, media and concepts will be based on the number of times you've taken the class, your 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 writing assignments, homework and technology expectations.

3D Studio

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 you've taken the class, your 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 writing assignments, homework and technology expectations.

Ceramics

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 you've taken the class, your 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 writing assignments, homework and technology expectations.

Aesthetics & Ideas

Asking the essential question, "how do 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.

AP Studio Art

1 Credit/1 Semester

Level: 010

Juniors & Seniors

Prerequisite:

Two (2) credits in Art and teacher recommendation

Course may be taken up to 2 times for credit.

Advanced Placement Studio Art

The AP Studio Art Portfolio is designed for students who are seriously interested in the practical experience of art and wish to develop mastery in the concept, composition, and execution of their ideas. This is a college level course. This course is not geared toward a written exam; rather, students develop comprehensive portfolios for college applications and have the option of submitting their work for evaluation by The College Board in May. The process of building an artist's portfolio leads students to experience an array of concepts, creative processes, and approaches to art making. This is an opportunity for students to demonstrate their capacity for problem solving, conceptual exploration, and technical skill. Students have the option of focusing on Drawing, 2-dimensional, or 3-dimensional Design.

There is a fee for the AP exam that will take place in May 2017.

Performing Arts

Theatre Arts

0.5 Credit/1 Quarter

Level: 123/012

Open to All

Meets either an art or English requirement.

Theatre Arts

Theatre Arts is a production-based introductory class in which students learn and practice acting, directing and technical theatre skills. 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, student 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 works to present to an invited audience.

Advanced Drama

0.5 Credit/1 Quarter

Level: 123/012

Prerequisite:

Theatre Arts and/or teacher recommendation

Advanced Drama

Advanced Drama is a production-based class designed for students with interest in exploring the process and requirements of a director and producer in a production of their own. Students in this class will serve as director and producer by selecting their own plays, completing play analysis and dramaturgy, and by working through various aspects of the rehearsal and performance period. Students will build upon previously explored skills in various areas of technical theatre including set, lighting, costume, and make-up design to produce their own short plays in a culminating One-Act Showcase performance. 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 with their production. Students must have either previously taken Theatre Arts or have involvement in a theatre program with approval of the instructor.

Band

1 Credit/1 Semester
2 Credits/Full Year
Level: 123/012
Open to All

Concert Band

1.5 Credit/Semester
3 Credits/Full Year
Level: 012
Audition Only

Jazz Band

1.5 Credit/Semester
3 Credits/Full Year
Level: 012
Audition Only

Marching Band

1.5 Credit/Semester
3 Credits/Full Year
Level: 012
Audition Only

String Ensemble

1 Credit/1 Semester
2 Credits/Full Year
Level: 012
Open to All

Chorus

1 Credit/1 Semester
2 Credits/Full Year
Level: 012
Open to All

Concert Band/Jazz Band/Marching Band

Students who are interested in Concert Band, Jazz Band or Marching Band should sign up for the course "Band." Students will be placed in the appropriate section at the start of each semester.

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 at the 123 level. Repertoire includes all genres of music from marches to the pops and romantic to modern. Students in concert band will have some performances which include but are not limited to concerts, pep band and parades.

Jazz Band is offered by audition to dedicated students in grades 9-12 who play saxophone, trumpet, trombone, clarinet, piano, electric bass/guitar, drum set and vibraphone. This class rehearses outside the regular school schedule and students receive credit at the 012 level. Jazz Band covers a variety of styles, including swing, funk, rock and Latin. Students in Jazz Band will have several performances, such as concerts, parades and pep band. Students in Jazz Band also participate in Concert Band.

Marching Band is offered to dedicated students in grades 9-12 who plays a woodwind, brass, electric bass/guitar or percussion instrument. This class rehearses outside the school day and requires a week of band camp before the school year. 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.

String Ensemble

Offered to anyone in grades 9-12 who enjoys playing violin, viola, cello, double bass, piano and classical guitar. String Ensemble will have a wide variety of repertoire programmed uniquely for the participating students. Genres include romantic, classical, baroque and contemporary. The String Ensemble will have a number of required performances throughout the school year.

Concert Choir/ Chamber Choir/Select Choir

The ConVal choral program covers contrasting musical styles from Baroque to Modern musical literature. Each choir performs in 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.

Chamber Choir is a smaller group of unauditioned students open to anyone in grades 9 - 12 at varying levels of proficiency. This choir meets daily throughout the semester. As part of this ensemble, students are required to participate in after school performances. No previous experience is necessary.

Select Chorus is ConVal High School's premier vocal ensemble comprised 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 012 level as opposed to 123. Auditions are open to all students and while prior experience is suggested, is not required to audition.

Music in Film

0.5 Credit/1 Quarter

Level: 123

Open to All

Music in Film

This course follows the development of music and sound and film. From the beginning of the silent movie era to the great film composers of the 20th century and today. Students will explore the role and expression of music in film, learn about the fundamental elements of film music and composers, as well as, develop a criteria for describing and assessing film music.

History of Rock and Roll

0.5 Credits/1 Quarter

Level: 123

Open to All

History of Rock and Roll

This course examines the birth of rock n roll music in the 1950s and tracks its evolution through the 60s and 70s to modern day music making. Through this process we will highlight specific artists, identify historical contexts, consider social influences, and identify musical connections between present and past.

Keyboard Playing

0.5 Credits/1 Quarter

Level: 123

Open to All

Keyboard Playing

This course is designed for all levels of musicians. For the musically inclined but less experienced, in Keyboarding class you will learn the fundamentals of music through the keys of the piano. For those more experienced musicians, you will learn keyboard technique, music reading, and expression. Classes are designed to allow for practice time, mini-lessons, recitals, and bookwork.

Music Theory

0.5 Credits/1 Quarter

Level: 123/012

Open to All

Music Theory

This course is designed for students with a musical background with or without formal training. No previous experience is required however 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, identification of chord progressions, inversions, intervals, etc. Exceptionally talented students may be chosen for 012 level of this class.

World Language

The world language department strives to provide courses that meet college entrance prerequisites. Because the homework and class work commitment necessary to learn a world language requires a strong understanding of English grammatical structure, it is strongly recommended that only students with grades of C or better in English consider taking an introductory course in a world language. In order to be best prepared for world language classes while in college, students are encouraged to choose these as elective courses throughout their high school career. "Students who completed Level III or higher in German or Spanish are advised to register for the SATII Reading and Listening exam in the fall and/or the SATII Reading exam in the spring."



German

German 1

1 Credit/1 Semester
Level: 012
Open to All

German 1

This course is a communicative introduction to the German language and the German-speaking world. Small group and pairs work, using interviews, role-playing, and skits will be common. Additional listening practice will be provided in Language Lab. Both written and oral skills will be emphasized. Daily homework and study will be expected.

German 2

1 Credit/1 Semester
Level: 012
Open to All

German 2

This course is a continuation of the communicative approach to learning the German language. Using techniques similar to level 1, German 2 will continue to emphasize oral skills with increasing attention to written expression. An introduction to the German-speaking world is expanded. Language Lab supplements classroom listening and speaking.

Prerequisite:

Minimum 75 in German 1

German 3

1 Credit/1 Semester
Level: 012

German 3

Oral-aural skills, reading, and writing are refined in this third year of a communicative approach to German language study. A more sophisticated level of language skills affords the opportunity to further explore German culture and literature and engage in lively discussion.

Prerequisite:

Minimum 75 in German 2

German 4

1 Credit/1 Semester
Level: 012

Prerequisite:

Minimum 75 in German 3

German 5/AP German

1 Credit/1 Semester
Level: 012/010

Prerequisite:

Minimum 77 in German 4

German 4

A further refinement of reading and writing and oral-aural skills in an increasingly more sophisticated communicative context characterizes the fourth year of study of the German language. German, Swiss and Austrian cultures and their literature are discussed in a lively format.

German 5 or Advanced Placement German

Students in this challenging language adventure will prepare to take the AP German Language test in May. Listening and oral skills, reading and writing will be refined through selected readings, videos, and practice in the language laboratory. *There is a fee for the AP exam that will take place in May 2017.*

Spanish

Spanish 1

1 Credit/1 Semester
Level: 012
Open to All

Spanish 1

This course introduces the listening, speaking, reading, and writing skills of Spanish. Oral communication is emphasized and cultural differences are discussed. Language lab practice is included as part of the regular class time. Daily homework is expected.

Spanish 2

1 Credit/1 Semester
Level: 012

Prerequisite:

Minimum 75 in Spanish 1

Spanish 2

This course continues the development of basic communication skills in Spanish: listening, speaking, reading, and writing. The learning efforts are more equally divided among the skills as compared to the first course in Spanish. Cultural differences continue to play an important role in this advanced beginning course. Language lab practice is included as part of the regular class time

Spanish 3

1 Credit/1 Semester
Level: 012

Prerequisite:

Minimum 75 in Spanish 2

Spanish 3

This course continues the studies of the Spanish language with an emphasis on the refinement of the high level of oral-aural skills of comprehension, writing, and reading. Active participation in this course, which continues to promote communication, is essential to student success. Grammar skills are developed and refined.

Spanish 4

1 Credit/1 Semester
Level: 012

Prerequisite:

Minimum 75 in Spanish 3

Spanish 4

This course advances the listening, speaking, reading, and writing skills of Spanish. Communicative skills continue to be developed. Some literary works are introduced along with current events and cultural awareness activities; reading and writing play an increasing role.

Spanish 5/AP Spanish

1 Credit/1 Semester

Level: 012/010

Prerequisite:

Minimum 77 in Spanish 4

Spanish 5 or Advanced Placement Spanish

This course, open to Juniors and Seniors who have successfully completed the Level 4 course. Students who qualify on the proficiency exam may elect to take the AP exam. Many resources will be used to improve and increase knowledge of the Spanish language: films, videos, journals, plays, essays, etc.

There is a fee for the AP exam that will take place in May 2017.