

A Message for Students

Each year the Program of Studies is updated to reflect the academic opportunities that are available for all students. The changes in this publication have been made to provide flexibility in meeting graduation requirements. Our course offerings are designed to prepare every student with the background and knowledge to successfully transition from high school to an appropriate college and career path.

Students, please use the Program of Studies to map out your academic journey. Check with your teachers, guidance counselors and parents for help with this process, and make informed decisions. I am confident that working together, we can ensure a successful learning experience for you.

Donald H. Woodworth
Principal



It is the policy of the Timberlane Regional School District that there will be no discrimination on the basis of age, gender, race, creed, color, religion, marital status, sexual orientation, national ethnic origin, economic status or disability for employment in, participation in, admission/access to, or operation and administration of any educational program or activity in the School District. See School District Policies AC Nondiscrimination/Equal Opportunity and ACA Nondiscrimination Title IX Grievances.



Timberlane Regional School District

School Board

Peter Bealo, Chair	Plaistow
Kelly Ward, Vice Chair	Sandown
Robert Collins	Danville
Stefanie Dube	Danville
Donna Green	Sandown
Daniel Guide	Plaistow
Jack Sapia	Atkinson
Susan Sherman	Plaistow
Gregory Spero	Atkinson

Administration

Dr. Earl Metzler	Superintendent of Schools
Dr. Roxanne Wilson	Assistant Superintendent
Debra Armfield	Executive Director CAPL K-12
Anthony DiBartolomeo	Director of Music
Angelo Fantasia	Director of Athletics
Christi Michaud	Director of Data, Assessment, and Accountability
Susan Rasicot	Director of Student Services
Beth Rincon	Director of Special Education
Kenneth Henderson	Director of Technology

Timberlane Regional High School

Administration

Donald Woodworth	Principal
Brian O'Connell	A.P. of Operations
Heather Roy	A.P. of Student Services
Mary Widman	A.P. of Academics
Scott Strainge	Senior Acad. Dean of Art and S.S. and Dir. of Alt./Cont. Educ.
Nash Reddy	Sp. Ed. Dept. Chairperson
Sandra Allaire	Acad. Dean of World Language
Rebecca Carlson	Acad. Dean of Mathematics
Mitchell Mencis	Acad. Dean of Business, FACS, ICT, and Health and PE
Jennifer Michitson	Acad. Dean of Enrichment, F.A., Reading, and RTI
Mark Pedersen	Acad. Dean of Science
Jennifer Puchlopek	Acad. Dean of English and L.A.

Guidance

Barry Chooljian	Director of Guidance
A. James Fish	Counselor
Maura Maher	Counselor
Robyn Mahoney	Counselor
Lisa Petry	Counselor
Daniel Woodworth	Counselor

Table of Contents

<i>A Message for Students from Principal Donald Woodworth</i>	1
<i>Mission Statements</i>	4
<i>General Information</i>	5
<i>Alternative Credit Options</i>	12
<i>New Hampshire Scholars Program</i>	15
<i>NCAA</i>	16
<i>Diploma Planning Worksheet</i>	17
<i>Post-Secondary Education Pathways</i>	18
<i>Mathematics Intensive Credits Options</i>	19
<i>Technology Credit Options</i>	20
<i>Courses Offered at a Glance</i>	21
<i>Art Department</i>	31
<i>Business and Technology Department</i>	33
<i>Computer Science Department</i>	35
<i>Engineering Department</i>	37
<i>English Department</i>	39
<i>Entertainment Technology Department</i>	44
<i>Family and Consumer Science Department</i>	45
<i>Health & Physical Education Department</i>	46
<i>Industrial Technology Department</i>	47
<i>Mathematics Department</i>	48
<i>Music Department</i>	52
<i>Science Department</i>	54
<i>Social Studies Department</i>	59
<i>Special Education Department</i>	64
<i>Theatre Department</i>	67
<i>World Language Department</i>	68
<i>Career and Technical Education (CTE)</i>	74
<i>Evening Division</i>	84

Mission Statements

Timberlane Regional School District Mission Statement

The Mission of the Timberlane Regional School District is to engage all students in challenging and relevant learning opportunities, emphasizing high aspirations and personal growth.

TRHS Statement of Core Values, Beliefs, and 21st Century Learning Expectations

The Timberlane Regional High School community values and nurtures the academic, personal, creative, and social growth of all students. We uphold rigorous academic standards and promote continuous improvement through curriculum and experiences that foster excellence, cooperation, and responsibility.

Core Values

Creativity • Responsibility • Respect • Communication • Critical Thinking • Community • Academic Rigor

Beliefs

- All students have the ability to learn.
- Social interactions, interpersonal relations, and communication with others influence learning.
- Motivation determines, directs, and sustains what students do to learn.
- Personalized instruction and educational opportunities honor students' interests, curiosity, strengths, and contributions.
- Open communication and collaboration among staff, students, parents, and community stakeholders ensure a supportive educational environment.
- Students must learn and apply 21st century skills, such as critical thinking, problem solving, communication, and collaboration.
- Exposure to relevant and challenging curricula fosters lifelong learning through real-life application of knowledge and skills.
- Technology is a tool to support and enhance learning and skill development.

21st Century Learning Expectations — Academics

Timberlane students will:

- Read and apply information from a variety of texts.
- Research and gather information effectively.
- Use critical thinking and problem-solving strategies effectively.
- Write effectively for a variety of purposes and audiences.

21st Century Learning Expectations — Social and Civics

Timberlane students will:

- Offer their best effort and be involved, contributing citizens at school and in the wider community.
- Work cooperatively and resolve conflicts peacefully.
- Live responsibly and lend a helping hand to those in need.
- Speak and act respectfully to all.

General Information

About the TRHS Program of Studies

The TRHS Program of Studies is reviewed and approved each year by the TRHS Administration, the TRSD Administration and the TRSD School Board. The TRHS Program of Studies is printed for distribution to TRHS students in preparation for course selections which occur during the second semester of each school year. Due to a variety of reasons, the TRHS Program of Studies may undergo revisions after the initial distribution date. ***Therefore the online version of the TRHS Program of Studies will be considered the official TRHS Program of Studies.***

The TRHS Program of Studies can be found on the TRHS website at www.timberlanehs.com.

Cover of the TRHS Program of Studies

A special thank you goes to Mrs. Dessa Landry and her Graphic Design students for submitting designs for the cover of the TRHS Program of Studies. Submissions were voted on by the TRHS faculty. This year's winning design was created by **TBA**. Congratulations to **TBA** on a wonderful design!

Hours of Operation

High School Student Hours	7:20 am — 2:10 pm
High School Office Hours	7:00 am — 3:00 pm
Superintendent's Office Hours	8:30 am — 4:00 pm

Phone Numbers

High School Main Phone Number	603-382-6541
High School Principal	603-382-6541 ext. 3900
High School Guidance Department	603-382-6541 ext. 3922
Superintendent's Office	603-382-6119

Course Levels

Each course in the TRHS Program of Studies is accompanied by a level designation according to the depth and rigor of the curriculum for that course. Courses are designed to meet the student's needs and will have one of four designations: Advanced Placement, Accelerated, College & Career Prep, and Non-Leveled.

Please Note: *There may be prerequisites and/or recommendations associated with courses.*

Prerequisites: Conditions a student must meet in order to enroll in a course.

Recommendations: Conditions a student is encouraged to meet in order to enroll and have success in a course.

Advanced Placement (AP)

Courses at the Advanced Placement level are approved by the College Board. These courses are very rigorous with curriculum specifically designed to prepare students for the equivalent AP Exam. Students enrolled in AP courses are required to take the equivalent AP Exam administered in May.

Accelerated (ACC)

Courses at the Accelerated level develop skills at an accelerated pace for students who want experiences that will prepare them for advanced work in a college situation.

For inclusion in accelerated classes all students:

- Must be recommended by current teacher or Department Coordinator,
- Must be recommended by guidance counselor,
- Are recommended to have earned a final grade of 80% or higher in previous ACC course, or
- Are recommended to have earned a final grade of 90% or higher in previous CCP course, and
- Must be in compliance with any additional selection criteria established.

College and Career Preparatory (CCP)

Courses at the College and Career Preparatory level are to prepare students for college and/or career placement. Students taking CCP courses will be qualified for furthering their education in 1, 2, or 4-year institutions, certificate programs or immediately entering the workforce.

Accelerated (ACC)/College and Career Preparatory (CCP)

In specific courses, designated by ACC/CCP in the course description, students may choose to take a course at the ACC or CCP level. Students who contract to the ACC level must adhere to the predetermined contract. Students must declare at which level they are taking the class by the 5th day of the course.

Non-Leveled (NL)

Non-leveled courses are designed to provide enrichment of a student's program but not affect their cumulative grade point average (GPA). Non-leveled courses will be computed in quarterly grade point averages which are used to determine honor roll status.

Course Weightings/Honor Roll

The course level designation for each course is used to determine quality points, which determines a student's Grade Point Average (GPA). Students receive both a quarterly GPA and a cumulative GPA. Quarterly GPAs are calculated at the close of each quarter, and are used to determine students' honor roll status.

Students receiving a grade of "D" or "F" in any subject will not be eligible for Honor Roll, regardless of their GPA.

Honor Roll Designations:

Honors: GPA = 3.00 to 3.666

Honors w/Distinction: GPA = 3.667 and above

Cumulative GPAs are used to determine students' class ranks and are based on completed courses. Cumulative GPAs and class ranks are calculated at the close of Quarter 2 (completion of Semester 1 courses) and the close of Quarter 4 (completion of Semester 2 courses and Year-Long courses). If any students or parents/guardians have questions about GPA and/or Class Rank, they should contact Guidance.

Grade	CCP	ACC	AP
A +	4.333	4.667	5.000
A	4.000	4.333	4.667
A -	3.667	4.000	4.333
B +	3.333	3.667	4.000
B	3.000	3.333	3.667
B -	2.667	3.000	3.333
C +	2.333	2.667	3.000
C	2.000	2.333	2.667
C -	1.667	2.000	2.333
D +	1.333	1.667	2.000
D	1.000	1.333	1.667
D -	0.667	1.000	1.333
F	0.000	0.000	0.00

Grade Designation

Students achieve grade designation by virtue of credit accumulation. Students must earn five (5) credits as a freshman to be considered a sophomore, earn ten (10) credits by the end of sophomore year to be considered a junior, and fifteen (15) credits by the end of junior year to be considered a senior. In addition, junior status is achieved upon completion of two years of English, Math, and Science. Homeroom, class meetings, privileges, and parking are examples of programs or groupings that are impacted by grade designation.

New Courses and Revised Offerings

There have been some changes in the TRHS Program of Studies for the 2017-2018 school year. To keep the curriculum current and responsive to students' needs and suggestions, the following courses have been added or revised pending TRSB approval:

Revised Offerings

Algebra II Part 1 (Formerly Foundations of Algebra 2)

Integrated Physical Science/Biology

German 1 ACC

New Courses

Algebra II Part 2

Information Technology

Latin II

Latin III

Math Fundamentals

Topics in Mathematics

Course Selection Process

The course selection process for Freshmen, Sophomores, and Juniors is an eight step process:

1. Class meetings are held in late January or early February with students to discuss the course selection process and new course offerings. Students receive their copy of the TRHS Program of Studies at this time.
2. Students review the TRHS Program of Studies with their parents/guardians.
3. Course Selection Day is held soon after class meetings. Students will receive Online Course Selection Instructions and a Course Selection Worksheet. Teachers will conference with students regarding recommended courses/levels for the following year. Teachers will recommend courses through PowerSchool.
4. Students will have a one week window to register for courses online through PowerSchool. Each student's course requests will be posted on PowerSchool for the student's parents/guardians to review.
5. Students will have individual conferences with their guidance counselor to review their course selections and graduation requirements. Changes can be made at that time if necessary.
6. In April the master schedule is created based on the courses selected by students, teacher availability, and room usage requirements.
7. Individual student schedules are generated and reviewed by guidance staff in May.
8. Student schedules are posted on PowerSchool or mailed home in August.

IMPORTANT: It is standard operating procedure that students consult with their teachers and guidance counselors to review appropriate course placement for the following year.

Change of Course Requests

Counselors are available on designated days in August for schedule change requests prior to the opening of school. A student asking permission to drop a course should initiate discussions with parent/guardian, the teacher, and their guidance counselor. Students are expected to meet with their counselor to explore the pros and cons of the decision. After this meeting, the guidance counselor may arrange a meeting with the student, parent, guidance counselor, teacher, department coordinator, and/or an administrator to discuss potential changes.

There will be no changes to student schedules after the opening of school except under the following conditions:

- The student has been misplaced in a course,
- The student has failed a prerequisite for a course now scheduled,
- The student has a study period and wishes to add a class, or
- There is a major change in the student's plans after graduation.

Withdrawing from a Course

While not encouraged, students do have the opportunity to withdraw from a course with no academic penalty; however, the timeframe is limited. It is recommended that students wishing to withdraw from a course do so during the first five days of the course. Students must meet with their guidance counselor and receive approval to drop/withdraw from any course.

Students who withdraw from a full year course after the first thirty school days or from a semester course after the first twenty days, will receive a Withdraw-Failure (WF) for the final grade and no credit will be awarded. A Withdraw-Failure is the equivalent of an F for GPA calculations.

Transfer of Credits

Students who are transferring academic credit from institutions outside of Timberlane Regional High School will need to provide an official record of all completed course work. Upon receiving an official record, a review of the course work will be conducted and credit and GPA weight will be awarded.

Auditing Courses

Students who desire to enrich their academic program may request to audit courses. Auditing of required courses, after successful completion of these courses, is acceptable.

To audit a course, a student will adhere to the following requirements:

- Obtain initial approval from the teacher,
- Register through the Guidance Office,
- Be accountable for all regular classroom attendance, and
- Be accountable for all in-school/out-of-school assignments deemed appropriate by the teacher.

In cases of conflict, the principal will make the final decision.

The classroom teacher will permit the student to take an active part in all classroom activities. Although no formal credit will be given for class audits, the course will be listed on the student's report card and permanent record with the letter "N", and will be recorded each marking period.

An audited course will not be considered to be meeting the minimum standards established for students (required number of courses per year).

Advanced Placement Program

Advanced Placement (AP) examinations are offered by the College Entrance Examination Board (a non-profit membership organization that provides tests and other educational services for students, schools, and colleges). The AP Program helps schools establish one-year, college level courses for high-achieving students and provides examinations to help colleges judge a candidate's qualifications for advanced placement and college credit. These are rigorous courses that require extra diligence and responsibility by students.

To be eligible for college credit, students must take the AP examination given in mid-May. All students enrolled in an AP class are required to take the AP exam. Students should review the advanced placement policies of the colleges in which they are interested in attending to determine how those schools apply the AP test results.

Dual Enrollment

Students at Timberlane Regional High School have the opportunity to take dual enrollment courses in conjunction with local colleges and universities. Students who successfully complete dual enrollment courses may have the opportunity to earn high school and college credit. To earn college credit, students must complete all requirements set forth by the partnered college or university which may include an application and course fee. A course's dual enrollment status may be dependent on teacher availability, enrollment numbers, and fees.

Southern New Hampshire University at TRHS

Southern New Hampshire University's (SNHU) dual enrollment program allows high school students the opportunity to earn early college credits while in high school. At Timberlane Regional High School, designated courses have been aligned to meet the same content, rigor and learning outcomes as that of SNHU. The high school teachers instructing these courses meet the SNHU adjunct faculty requirements and have been approved by SNHU. **Students will have the opportunity to take advantage of the dual credit opportunities at the beginning of the courses by completing an application and submitting the course registration fee for each class.** Once the registration period closes, students will not be allowed to register for college credit. Since these courses are college courses, grades earned while enrolled in the course are recorded on a SNHU transcript. Portability and transferability of credits rests solely with individual colleges and universities as they have varying policies on accepting transfer credits; thus, it is the student's responsibility to consult with higher educational institutions to determine whether the SNHU course(s) can be transferred.

Credit Recovery Options

Credit recovery is available for students who fail a quarter of a course at TRHS, but **credit recovery is not available for all courses**. Using Edgenuity, an online educational program, students may recover credit for the prior quarter by completing all outlined modules that connect to the competencies that students previously failed to master. Ideally, students will have access to the Edgenuity system one period per day; however, students may work on modules at home or at other outside locations.

In general, a passing grade is determined by passing the “Mastery Assessment” at the end of a particular module. These “Mastery Assessment” tools are post-tests, and **MAY** be re-taken; Pre-tests (“Inventory Assessments”) **MAY NOT** be re-taken. The passing grade for each module will be determined by the standards set by the Edgenuity program. Passing grades typically are 80%. Students who successfully use Edgenuity to recover a failing quarter will have that quarter’s *percentage* grade changed to 60%. The *quarter* grade will appear as a “D-” on the student’s report card and transcript. The final grade for *the course* will be calculated using the 60% grade. All recovery **MUST** be completed by the close of the following marking period.

Excel Study Program

The Excel Study Program addresses the needs of those students who, for various reasons, need a more structured study environment. The program has a tutorial advisor who monitors the student’s study time in a smaller class environment. Students may receive additional assistance in the areas of organizational skills development and study skills relevant to their success as a high school student. Additional monitoring will take place with weekly progress reports and monthly conferences with the guidance counselor. Placement in the Excel Study Program is done through the high school guidance counselors only.

Academic Support Center

The Academic Support Center is a place that students can utilize as a quiet workspace, work collaboratively with each other, have access to computers, and receive extra help from staff and/or peer tutors. The Academic Support Center is open to all students periods 2 through 8 and after school. The Academic Support Center instructor is available to assist all students with their academic needs, as well as help facilitate peer tutoring for students through the honor societies at TRHS.

Alternative Credit Options

Credit may be earned through alternative methods outside of regular classroom-based instruction offered by the district schools. Awarding of credits to be applied toward high school graduation will be determined by the building principal or designee, and will be granted only if the request fulfills the following:

- The request is submitted with a plan to achieve competency that meets or exceeds the rigorous academic standards required by the school for students enrolled in a credit course offered by the school.
- The plan includes clear expectations for performance.
- The plan includes clearly defined methods and expectations for assessment.
- Verification of the plan's merit can be evaluated in a timely fashion and does not cause unnecessary burden of the resources of the administration.
- The student demonstrates mastery of the competencies per board policy.

All students who wish to pursue an alternative credit option must receive prior approval through the Guidance Department before beginning the alternative credit option.

Extended Learning Opportunities

The purpose of extended learning opportunities (ELO) is to provide educational experiences that are meaningful and relevant, and that provide students with opportunities to explore and achieve at high levels. Extended learning opportunities may include, but are not limited to, independent study, private instruction, performing groups, internships, community service, apprenticeships, online education, or other opportunities approved by the Superintendent or his/her designee, in conjunction with Board policies.

All programs of study must meet or exceed the proficiencies and skills identified by the New Hampshire State Board of Education, applicable rules and regulations of the Department of Education, and all applicable Board policies. All programs of study proposed through this program shall have specific instructional objectives aligned with the State minimum standards and District curriculum standards. All extended learning opportunities will comply with applicable laws and regulations, including child labor laws and regulations governing occupational safety.

Students wishing to pursue programs of study under these guidelines must first present their proposal to the school's ELO coordinator(s) for approval. The name and contact information for the school's ELO coordinator(s) will be found in the Student/Parent Handbook or by contacting the Principal's office or the Guidance Department. The designated ELO coordinator will assist students in preparing the application form and other necessary paperwork.

Independent Study

Students who desire to pursue individual interests that are not offered in the Timberlane Regional High School curriculum may opt to contract for an independent study program. Circumstances may also warrant that a student pursue regular school subjects on an independent basis. The Independent Study Program fulfills such needs. Students must use the following procedure in order to be accepted into the program:

- The student enlists a faculty sponsor that will assist in developing the independent study proposal.
- The student presents the proposal to the department chairperson/coordinator for approval and/or adjustments.
- The student presents the proposal to their Guidance Counselor and the Director of Guidance for approval and/or adjustments.
- The student will present the proposal to the student's parent/guardian for approval.
- The student meets with the assigned administrator for final approval.
- The student completes and submits the necessary paperwork provided by the guidance department.

Internships

The Internship Program is an opportunity for students to gain first-hand knowledge about one or more career paths that they may be planning to pursue. It allows them to learn what skills are used in a particular profession, what other preparation (college and/or training) may be needed, and how what they are learning in the classroom relates to an actual workplace. Participating in an internship may help students gain full-time employment after graduation, or improve their chances for college admission. In some college programs, an internship is in fact required for admission. Internships may be paid or unpaid, and are available to juniors and seniors.

Internships are open to students who:

- Submit an application giving the reasons for seeking the internship, identifying the proposed internship site, and outlining the process for initiating and completing the internship.
- Are enrolled in at least five full-time classes for the current quarter—the internship may count as one of the five courses.
- Have no suspensions or other disciplinary adjustments in the previous quarter.
- Have the application approved by the student's parent, his/her guidance counselor, and the Internship Coordinator.
- Communicate with the Internship Coordinator a minimum of once every two weeks to review the student's progress in the internship.
- Agree to notify the Internship Coordinator and their guidance counselor when the internship has been completed, or if it has been terminated for any reason.

The student will be awarded one-half credit (based on a total of at least 75 hours on the internship site), or one full credit (based on a minimum 150 hours on-site). In order for credit to be awarded for an Independent Study Internship, the student must fulfill all of these requirements:

- Maintain regular attendance at his/her internship site for a minimum of one semester.
- Attend required meetings with the coordinator.
- Keep a log of internship activities and hours to be reviewed periodically by the coordinator.
- Submit a portfolio which summarizes and demonstrates the learning, career information, and value the student has acquired from the internship.
- Present the portfolio in a scheduled meeting.

Online Coursework

Timberlane Regional High School students who wish to enroll and transfer online coursework credit are required to meet with their guidance counselor for pre-approval. Students must be granted authorization prior to their enrollment. Students must complete an approval form and receive prior authorization from their guidance counselor. Credit and GPA weight for online courses will be determined during the pre-approval process.

Credit for an online course will not be granted until an official record of the final grade has been received by the TRHS registrar. It is the responsibility of the student to request the grade be sent to the registrar. The student's official school transcript will document that the course was taken online. The numerical grade earned will be transferred and converted to the equivalent letter grade in the TRHS grading system.

New Hampshire Scholars Program

New Hampshire Scholars is part of the State Scholars Initiative, a national program that uses business leaders to motivate students, beginning in Grade 8, to complete a rigorous course of study in high school – one that will give them a boost in college and careers.

New Hampshire Scholars encourages and motivates all high school students to complete a rigorous course study that prepares them for successful transition to college coursework or technical training necessary to enter today’s competitive job market.

New Hampshire Scholars gives students an edge – one that’s of real value to them, the schools they attend, the companies they work for, and the communities where they live.

Parents and students who would like more information about the New Hampshire Scholars are encouraged to visit the New Hampshire Scholars website, www.nhscholars.org.

NH Scholars Core Curriculum	NH Scholars w/STEM Emphasis	NH Scholars w/Arts Emphasis
<ul style="list-style-type: none"> • 4 Credits of English (English I, World Literature/World Studies, American Literature/American Studies/AP Language, and 1 additional credit) • 4 Credits of Mathematics (Algebra I, Geometry, Algebra II, and 1 additional credit) • 3 Credits of Lab-Science (Biology, Chemistry, and Physics recommended) • 3.5 Credits of Social Studies (Studies in Civics and Economics, World History/World Studies/AP World History, US History/American Studies/ AP US History, and an additional .5 credit) • 2 Credits of World Language (French, German, or Spanish) 	<ul style="list-style-type: none"> • 4 Credits of English (English I, World Literature/World Studies, American Literature/American Studies/AP Language, and 1 additional credit) • 4 Credits of Mathematics (Algebra I, Geometry, Algebra II, and 1 additional credit) • 4 Credits of Science/Engineering (Biology, Chemistry, and Physics required with 1 additional credit) • 3.5 Credits of Social Studies (Studies in Civics and Economics, World History/World Studies/AP World History, US History/American Studies/ AP US History, and an additional .5 credit) • 2 Credits of World Language (French, German, or Spanish) • 1 credit of STEM (Computer Science, Engineering, or Technology course) • 3.2/4.0 minimum GPA 	<ul style="list-style-type: none"> • 4 Credits of English (English I, World Literature/World Studies, American Literature/American Studies/AP Language, and 1 additional credit) • 4 Credits of Mathematics (Algebra I, Geometry, Algebra II, and 1 additional credit) • 3 Credits of Lab-Science (Biology, Chemistry, and Physics recommended) • 3.5 Credits of Social Studies (Studies in Civics and Economics, World History/World Studies/AP World History, US History/American Studies/ AP US History, and an additional .5 credit) • 2 Credits of World Language (French, German, or Spanish) • 2 Credits of Arts (Art, Music, and/or Theatre courses) • 3.2/4.0 minimum GPA

Are College Athletics in your future?

Athletes considering participating in intercollegiate athletics in any Division I or Division II College program must register with the National Collegiate Athletic Association (NCAA) and meet certain requirements regarding the scope and rigor of their academic program (among other requirements). Courses approved by the NCAA at the time of the publication of the TRHS Program of Studies are noted with the NCAA's circular logo. Students should see their guidance counselor or the Athletic Director for more information.

Students and parents/guardians can read and download a guide for Student Athletes at www.ncaa.org/student-athletes, or visit the eligibility center website at http://web1.ncaa.org/ECWR2/NCAA_EMS/NCAA_EMS.html#



Diploma Planning Worksheet

Program Area	Standard	Technical	Scholastic
Fine Arts (<i>art, music, or theatre</i>)			
.5 Credit Elective			
.5 Credit Elective			
Technology (<i>see page 19 for approved courses</i>)			
.5 Credit Elective			
English			
English I			
World Literature / World Studies			
American Literature / American Studies			
1 Credit Senior Electives			
Mathematics (<i>students need a math intensive course each year, see page 18 for approved courses</i>)			
Algebra I			
Geometry	Applied or Geometry	Applied or Geometry	Geometry Required
Algebra II	Part I or Algebra II	Part I or Algebra II	Algebra II Required
Mathematics or Science (one additional credit in either)			
Science			
Physical Science			
Biology			
1 Credit Elective			Chemistry Physics
Social Studies			
Studies in Civics and Economics			
World History / World Studies			
American History / American Studies			
World Languages (<i>must all be the same</i>)			
World Language I			
World Language II			
World Language III			
Health and Physical Education			
Health Education I			
.5 Credit Elective			
.5 Credit Elective			
.5 Credit Elective			
Technical Courses			
Year One Technical Course			
Year Two Technical Course			
Open Electives	6	1.5 - 3.5	4.5
Total Credits	22	23	25

Post-Secondary Education Pathways

Listed below are suggested pathways for students and parents to consider in the Course Selection Process. Students should choose an academic program that is manageable, yet challenges them to reach their highest academic potential. Students should also communicate regularly with their teachers and their guidance counselors to ensure they are placed appropriately within each academic discipline. While colleges value a demanding academic program, they also consider test scores, GPAs, extra-curricular commitments, and recommendations when evaluating students for admission.

Highly Competitive Four Year Colleges

- 4 Credits: English (AP English Language & AP English Literature)
- 4-5 Credits: Math (Algebra I & II, Geometry, Pre-Calculus, and AP Statistics or AP Calculus)
- 4 Credits: Science (Physical Science, Biology, Chemistry, and Physics)
- 4 Credits: World Language
- 3-4 Credits: Social Studies
- Advanced Placement courses are recommended for multiple subject areas

Very Selective Four Year Colleges

- 4 Credits: English
- 3-4 Credits: Math (Algebra I & II, Geometry, and Trigonometry/Probability and Statistics or Discrete or Finite or Pre-Calculus or Calculus)
- 3-4 Credits: Science (Physical Science, Biology, Chemistry, and/or Physics)
- 3-4 Credits: World Language
- 3 .5 Credits: Social Studies
- Advanced Placement courses are recommended for 1-2 subject areas

Selective Four Year Colleges

- 4 Credits: English
- 3-4 Credits: Math (Algebra I & II, Geometry, and Trigonometry/Probability and Statistics or Discrete or Finite or Pre-Calculus or Calculus)
- 3 Credits: Science (Physical Science, Biology, Chemistry or Physics)
- 2-3 Credits: World Language
- 3 Credits: Social Studies

Two Year Career & Technical Programs

- 4 Credits: English
- 3 Credits: Math (Algebra I & II, and Geometry)
- 3 Credits: Science (Physical Science, Biology, and 3rd year science elective)
- 3 Credits: Social Studies
- Career and Technical Education Courses through Salem High School or Pinkerton Academy

Two Year Community Colleges

- 4 Credits: English
- 3 Credits: Math (Algebra I & II, and Geometry)
- 3 Credits: Science (Physical Science, Biology, and 3rd year science elective)
- 3 Credits: Social Studies

Recommendations for Specific Majors and Programs

Four Year Business Programs

- 4 Credits: Math (Algebra I & II, Geometry, and Trigonometry/Probability and Statistics or Pre-Calculus or Calculus or AP courses)
- Related Business courses (Introduction to Business Principles, Accounting, Entrepreneurship, Marketing)

Four Year Engineering and Science Programs

- 4 Credits: Math (Algebra I & II, Geometry, and Trigonometry/Probability and Statistics or Discrete or Finite or Pre-Calculus or Calculus, or AP courses)
- 4-5 Credits : Science (Physical Science, Biology, Chemistry, and Physics or AP courses)
- Related Engineering courses (Intro to Engineering Design, Principles of Engineering, Engineering elective options)
- Consider Computer Science courses

Four Year Nursing and Professional Health Programs

- 4 Credits: Math (Algebra I & II, Geometry, and Trigonometry/Probability and Statistics or Pre-Calculus or AP Courses)
- 4-5 credits: Science (Physical Science, Biology, Chemistry, Physics, and Human Anatomy & Physiology or AP courses)

NOTE: Since standards and admission policies vary from school to school, students and parents are advised to review college admissions websites and college planners provided by the Princeton Review and/or other college admission support publications for guidance and specific recommendations. Students should see their guidance counselor about specific questions.

Mathematics Intensive Credit Options

Beginning with the Class of 2018, students must complete a full mathematics intensive credit every school year. In addition to all mathematics courses, the successful completion of any of the following courses may be used to satisfy the graduation requirement of a mathematics intensive course:

- | | |
|---------------------------------------|------------------------------------|
| 3D Modeling | Introduction to Engineering Design |
| Visual Basics Programming I | Principles of Engineering |
| Visual Basics Programming II | Aerospace Engineering |
| Intro to C++ Programming | Civil Engineering and Architecture |
| Intro to Java | Digital Electronics |
| Game Programming I / Animation | Computer Integrated Manufacturing |
| Game Programming II / Web Game Design | Engineering Design and Development |
| AP [®] Computer Science | Chemistry |
| Engineering Drawing (.5 credit) | AP Chemistry |
| Architectural Drawing (.5 credit) | Physics |
| AutoCAD I (.5 credit) | AP Physics I |
| AutoCAD II (.5 credit) | AP Physics II |

Technology Credit Options

Successful completion of any of the following courses will satisfy the graduation requirement of .5 credit in Technology:

Microsoft Office Essentials	Graphic Design
Desktop Publishing & Presentation	Engineering Drawing
Web Design	Architectural Drawing
Emerging Technologies	AutoCAD I
Creating Mobile Applications	AutoCAD II
Visual Basics Programming I	Introduction to Engineering Design
Visual Basics Programming II	Principles of Engineering
Intro to C++ Programming	Digital Electronics
Intro to Java	Computer Integrated Manufacturing
Game Programming I / Animation	Engineering Design and Development
Game Programming II / Web Game Design	3D Modeling
AP® Computer Science	Computer Maintenance & Repair (Salem CTE)
Digital Arts	Microcomputer Applications 1 (Salem CTE)

Courses Offered at a Glance

Explanation of Codes:

AP	Advanced Placement (as authorized by the College Board)
ACC	Accelerated
CCP	College and Career Prep
ACC/CCP	Offered as ACC or CCP—Students may choose to contract for ACC credit
NL	Non-Levelled

Art Department

Course		Level	Grades				Credits	Page No.
Foundations of Art	001	NL	9	10	11	12	.5	31
2-D Art	002	NL	9	10	11	12	.5	31
3-D / Sculpture	003	NL	9	10	11	12	.5	31
Graphic Design	016	NL	9	10	11	12	.5	31
Painting Exploration	019	NL	9	10	11	12	.5	31
Pottery I	010	NL	9	10	11	12	.5	32
Pottery II	011	ACC		10	11	12	.5	32
Drawing	005	ACC		10	11	12	.5	32
Illustration and Cartooning	008	ACC		10	11	12	.5	32
Painting	007	ACC		10	11	12	.5	32
Photography I	012	ACC		10	11	12	.5	32
Photography II	017	ACC		10	11	12	.5	32
Digital Arts	018	ACC			11	12	.5	32
AP® Art: General Portfolio	013	AP			11	12	1	32

Business and Technology Department

Courses		Level	Grades				Credits	Page No.
Desktop Publishing and Presentations	103	ACC	9	10	11	12	.5	33
Emerging Technologies	120	ACC	9	10	11	12	.5	33
Microsoft Office Essentials	108	CCP	9	10	11	12	.5	33
Web Design	141	ACC	9	10	11	12	.5	33
Information Technology		ACC		10	11	12	.5	33
Introduction to Business Principles	116	CCP		10	11	12	.5	33
Human Relations in Organizations	149	ACC		10	11	12	.5	33
Personal Money Management	118	CCP		10	11	12	.5	34
College Accounting I	119	ACC			11	12	.5	33
College Accounting II	122	ACC			11	12	.5	33
Entrepreneurship	117	ACC			11	12	.5	33
Exploring Teaching	140	ACC			11	12	.5	33
Marketing	125	CCP			11	12	.5	33
Practicing Teaching	142	ACC			11	12	.5	33
Sports and Entertainment Management	121	CCP			11	12	.5	33

Computer Science Department

Course		Level	Grades				Credits	Page No.
Creating Mobile Applications	160A	ACC	9	10	11	12	.5	35
Visual Basic Programming I	155	ACC	9	10	11	12	.5	35
Visual Basic Programming I	153	CCP	9	10	11	12	.5	35
Visual Basic Programming II	136	ACC	9	10	11	12	.5	35
Intro to C++ Programming	156	ACC		10	11	12	.5	35
Intro to Java	166	ACC			11	12	.5	35
Game Programming I / Animation	164	ACC			11	12	.5	36
Game Programming II / Web Game Design	165	ACC			11	12	.5	36
AP [®] Computer Science	167	AP			11	12	1	36

Engineering Department

Course		Level	Grades				Credits	Page No.
Introduction to Engineering Design	180	ACC	9	10	11	12	1	37
Principles of Engineering	181	ACC		10	11	12	1	37
Aerospace Engineering	186	ACC		10	11	12	1	37
Civil Engineering and Architecture	188	ACC		10	11	12	1	37
Computer Integrated Manufacturing	183	ACC		10	11	12	1	38
Digital Electronics	182	ACC			11	12	1	38
Engineering Design and Development	184	ACC			11	12	1	38
AutoCAD I	551	NL		10	11	12	.5	38
AutoCAD II	552	NL		10	11	12	.5	38
Architectural Drawing	559	NL		10	11	12	.5	38
Engineering Drawing	557	NL		10	11	12	.5	38

English Department

Course		Level	Grades				Credits	Page No.
English I	201	ACC	9				1	40
English I	203	CCP	9				1	40
World Literature	222	ACC		10			1	40
World Literature	221	CCP		10			1	40
World Studies	808	ACC/CCP		10			2	40
American Literature	216	ACC			11		1	40
American Literature	218	CCP			11		1	40
American Studies	816	ACC/CCP			11		2	41
AP® English Language and Composition	270	AP			11		1	41
Analysis of Literary Movements	271	ACC				12	1	41
Creative Book Transformation	230	ACC/CCP		10	11	12	.5	41
Creative Writing I	229	ACC/CCP			11	12	.5	41
Creative Writing II	231	ACC			11	12	.5	41
Expository Writing	209	ACC				12	.5	41
Expository Writing	217	CCP				12	.5	42
Gender Issues in Literature	262	ACC				12	.5	42
Graphic Novel as Literature	268	ACC/CCP			11	12	.5	42
Introduction to Critical Analysis	224	ACC				12	.5	42
Introduction to Critical Analysis	223	CCP				12	.5	42
Journalism	263	ACC/CCP			11	12	1	42
Modern World Literature	260	ACC				12	.5	42
Portfolio Writing	172	ACC/CCP		10	11	12	.5	42
Shakespeare	235	ACC				12	.5	42
The Short Story and Its Writer	255	CCP				12	.5	43
AP® English Literature and Composition	227	AP				12	1	43
Film Studies (Elective Credit Only)	264	ACC/CCP		10	11	12	.5	43
Public Speaking (Elective Credit Only)	266	ACC/CCP		10	11	12	.5	43

Entertainment Technologies Department

Course		Level	Grades				Credits	Page No.
Evolution of Games	150	CCP	9	10	11	12	.5	44
3D Modeling	151	CCP	9	10	11	12	.5	44
Screenwriting		CCP	9	10	11	12	.5	44

Family and Consumer Science Department

Course		Level	Grades			Credits	Page No.
Child Development: Ages and Stages	501	NL	10	11	12	1	45
Child Care	503	NL		11	12	1	45
Creative Sewing	505	NL		11	12	.5	45
Designing Homes	525	NL		11	12	.5	45
Contemporary Culinary Arts	515	NL	10	11	12	.5	45
Gourmet Foods	513	NL	10	11	12	.5	45
Baking and Pastries	512	NL	10	11	12	.5	45

Health and Physical Education Department

Course		Level	Grades			Credits	Page No.	
Health I	402	CCP	9	10	11	12	.5	46
Health II	412	CCP		10	11	12	.5	46
Introduction to Physical Education	403	CCP	9				.5	46
Introduction to Physical Education	405	CCP		10	11	12	.5	46
Introduction to Fitness	414	CCP	9				.5	46
Introduction to Fitness	415	CCP		10	11	12	.5	46
Advanced Strength Training and Conditioning	416	CCP	9	10	11	12	.5	46
Competitive Physical Education	417	CCP	9	10	11	12	.5	46
Unified and Adaptive Physical Education	418	CCP	9	10	11	12	.5	46

Industrial Technology Department

Course		Level	Grades			Credits	Page No.	
Introduction to Industrial Trades	550	NL	9	10	11	12	.5	47
Materials and Manufacturing / Wood Tech. I	577	NL	9	10	11	12	.5	47
Materials and Manufacturing / Wood Tech. II	579	NL		10	11	12	.5	47
Materials and Manufacturing / Wood Tech. III	580A	ACC			11	12	.5	47

Mathematics Department

Course		Level	Grades				Credits	Page No.
Math Fundamentals	603	CCP	9				1	48
Algebra I	607	ACC	9				1	48
Algebra I	609	CCP	9	10			1	49
Algebra Lab	610	NL	9				1	49
Geometry	613	ACC	9	10			1	49
Geometry	615	CCP		10	11	12	1	49
Applied Geometry	616	CCP		10	11	12	1	49
Algebra II	619	ACC		10	11	12	1	49
Algebra II	621	CCP		10	11	12	1	49
Algebra II Part 1		CCP			11	12	1	49
Algebra II Part 2		CCP			11	12	1	50
Discrete Mathematics	635	ACC			11	12	1	50
Finite Mathematics	639	CCP			11	12	1	50
Introduction to Probability and Statistics	632	CCP			11	12	.5	50
Topics in Mathematics		CCP			11	12	1	50
Trigonometry	631	CCP			11	12	.5	50
Pre-Calculus	629	ACC			11	12	1	50
Calculus	640	ACC			11	12	1	50
AP® Calculus	633	AP				12	1	51
AP® Statistics	636	AP				12	1	51

Music Department

Course		Level	Grades				Credits	Page No.
Band	057	NL	9	10	11	12	1	52
Orchestra	058	NL	9	10	11	12	1	52
Concert Choir	055	NL	9	10	11	12	1	52
Jazz Band	061	ACC	9	10	11	12	.5	52
Jazz Band	062	CCP	9	10	11	12	.5	53
Survey of Music	051	CCP	9	10	11	12	.5	53
Theory I	063	ACC	9	10	11	12	.5	53
Theory II	065	ACC	9	10	11	12	.5	53
Introduction to Basic Guitar	067	CCP	9	10	11	12	.5	53
Guitar II	069	CCP	9	10	11	12	.5	53
Guitar Orchestra	070	NL	9	10	11	12	1	53
Select Ensemble	056	ACC		10	11	12	1	53

Science Department

Course		Level	Grades				Credits	Page No.
Physical Science	705	ACC	9				1	54
Physical Science	707	CCP	9				1	54
Physical Science/ Biology Integrated		ACC	9				2	54
Biology	709	ACC	9	10	11	12	1	55
Biology	711	CCP		10	11	12	1	55
Applied Biology	713	CCP		10	11	12	1	55
Chemistry	727	ACC		10	11	12	1	55
Chemistry	729	CCP		10	11	12	1	55
Physics / Chemistry Integrated		ACC		10	11	12	2	55
Physics	731	ACC		10	11	12	1	55
Physics	733	CCP		10	11	12	1	55
Applied Physical Science	708	CCP			11	12	1	55
Botany	743A	ACC		10	11	12	.5	56
Botany	743	CCP		10	11	12	.5	56
Environmental Science	722	ACC		10	11	12	.5	56
Environmental Science	721	CCP		10	11	12	.5	56
Human Anatomy and Physiology	715	ACC		10	11	12	1	56
Human Anatomy and Physiology	717	CCP		10	11	12	.5	56
Introduction to Meteorology	723	CCP		10	11	12	.5	56
Investigations in Space Science	745	ACC			11	12	.5	56
Marine Biology	739	ACC		10	11	12	.5	57
Oceanography	741	ACC		10	11	12	.5	57
Zoology	744A	ACC		10	11	12	.5	57
Zoology	744	CCP		10	11	12	.5	57
AP® Biology	737	AP			11	12	1	57
AP® Chemistry	735	AP			11	12	1	57
AP® Environmental Science	742	AP			11	12	1	57
AP® Physics I	734	AP			11	12	1	58
AP® Physics II	734A	AP			11	12	1	58

Social Studies Department

Course		Level	Grades				Credits	Page No.
Studies in Civics and Economics	803A	ACC	9				1	59
Studies in Civics and Economics	804C	CCP	9				1	59
World History	806	ACC		10			1	60
World History	811	CCP		10			1	60
World Studies	808	ACC/CCP		10			2	60
AP® World History	821	AP		10	11	12	1	60
United States History	807	ACC			11		1	60
United States History	809	CCP			11		1	60
American Studies	816	ACC/CCP			11		2	60
AP® United States History	819	AP			11	12	1	60
American Values in Film and Music	841	ACC/CCP			11	12	.5	61
Behavioral Psychology	840	ACC		10	11	12	.5	61
Constitutional Law	832	ACC			11	12	.5	61
Cultural Geography	823	CCP		10	11	12	.5	61
Current Issues	843	CCP		10	11	12	.5	61
Geography of Life	824	CCP			11	12	.5	61
History of Sports	833	ACC/CCP		10	11	12	.5	61
Law	831	CCP		10	11	12	.5	61
Popular Culture	834	ACC/CCP		10	11	12	.5	62
Psychology	839	CCP		10	11	12	.5	62
Social Science of Well-Being	845	ACC			11	12	.5	62
Sociology	835	CCP		10	11	12	.5	62
AP® European History	844	AP				12	1	62
AP® Government	820	AP				12	1	62
AP® Human Geography	822	AP				12	1	63

Special Education Department

Course		Level	Grades				Credits	Page No.
Assisted Study	999	NL	9	10	11	12	NC	64
Learning Center	900	NL	9	10	11	12	.5	64
Life Skills	980	CCP	9	10	11	12	.5	64
Reading	960	NL	9	10	11	12	1	64
TEP English I	964	CCP	9				1	64
TEP English II	965	CCP		10			1	65
TEP English III	966	CCP			11		1	65
TEP Portfolio Writing	967D	CCP				12	.5	65
TEP Short Story	967C	CCP				12	.5	65
TEP Algebra I	969	CCP	9	10			1	65
TEP Geometry	985	CCP		10	11		1	65
TEP Foundations of College Math	969B	CCP			11	12	1	65
TEP Government	968G	CCP	9	10			.5	65
TEP Economics	968	CCP	9	10			.5	65
TEP World History	971	CCP		10	11		1	66
TEP US History	970	CCP		10	11	12	1	66

Theater Department

Course		Level	Grades				Credits	Page No.
Introduction to Theater	252	NL	9	10	11	12	.5	67
Improvisation	267	NL	9	10	11	12	.5	67
Advanced Acting	265	ACC		10	11	12	.5	67
Playwriting	253	ACC			11	12	.5	67

World Language Department

Course		Level	Grades				Credits	Page No.
French I	307	CCP	9	10	11	12	1	68
French II	314	ACC	9	10	11	12	1	68
French II	313	CCP	9	10	11	12	1	68
French III	320	ACC		10	11	12	1	68
French III	319	CCP		10	11	12	1	69
French IV	331	ACC			11	12	1	69
French IV	327	CCP			11	12	1	69
French V	338	ACC				12	1	69
AP® French Language and Culture	342	AP				12	1	69

German I		ACC	9	10	11	12	1	69
German I	309	CCP	9	10	11	12	1	70
German II	316	ACC		10	11	12	1	70
German II	315	CCP		10	11	12	1	70
German III	323	ACC			11	12	1	70
German IV	333	ACC				12	1	70

Latin I	341	ACC	9	10	11	12	1	70
Latin I		CCP	9	10	11	12	1	71
Latin II		ACC		10	11	12	1	71
Latin II		CCP		10	11	12	1	71
Latin III		ACC			11	12	1	71

Spanish I	311	CCP	9	10	11	12	1	71
Spanish II	318	ACC	9	10	11	12	1	71
Spanish II	317	CCP	9	10	11	12	1	72
Spanish III	322	ACC		10	11	12	1	72
Spanish III	321	CCP		10	11	12	1	72
Spanish IV	335	ACC			11	12	1	72
Spanish IV	324	CCP			11	12	1	72
Spanish V	340	ACC				12	1	72
AP® Spanish Language and Culture	343	AP				12	1	73

Introduction to the Classical World (Elective Only)	344	ACC	9	10	11	12	.5	73
---	-----	-----	---	----	----	----	----	----

Career and Technical Education—Salem High School

Course		Level	Grades			Credits	Page No.
Automotive Technology:							
Automotive Technology 1	861	CCP		11		2	74
Automotive Technology 2	863	CCP			12	2	74
Biomedical Science:							
Microbiology	870	CCP		11		1	75
Biomedical Science 1	870A	CCP		11		1	75
Biomedical Science 2	872B	CCP			12	1	75
Business Pathways							
Business Principles	TBA	CCP		11		1	75
College Accounting	TBA	CCP		11		1	75
Business Management	TBA	CCP			12	1	75
Business Law	TBA	CCP			12	1	75
Computer Networking & Repair:							
Computer Maintenance & Repair I	873A	CCP		11		1	76
Computer Networking	873B	CCP		11		1	76
Adv. Computer Maintenance & Repair	875	CCP			12	2	76
Computer Software & Media Applications:							
Advanced Microsoft Office	897B	CCP		11		1	76
Adobe Creative Suite 1	898A	CCP			12	1	76
Adobe Creative Suite 2	898B	CCP			12	1	76
Construction Technology:							
Construction Technology 1	865	CCP		11		2	77
Construction Technology 2	867	CCP			12	2	77
Culinary Arts:							
Culinary Arts 1	881	CCP		11		2	77
Culinary Arts 2	883	CCP			12	2	77
Health Science Technology:							
Health Science Technology 1	889	CCP		11		2	78
Health Science Technology 2	891	CCP			12	2	78
Marketing and Sales:							
Marketing 1	893	CCP		11		2	79
Marketing 2	895	CCP			12	2	79
Teacher Preparation:							
Teacher Preparation 1	857A	CCP		11		2	79
Teacher Preparation 2	857B	CCP			12	2	79
Television and Media Production:							
Television and Media Production 1	864	CCP		11		2	80
Television and Media Production 2	858	CCP			12	2	80

Career and Technical Education—Pinkerton Academy

Course		Level	Grades			Credits	Page No.
Introduction to Animal Science	859A	CCP		11		.5	81
Animal Business Management	859	CCP		11		1	81
Animal Health & Veterinary Technology	859B	CCP			12	2	81
Cosmetology I	888	CCP		11		2	81
Cosmetology II	888A	CCP			12	2	81
Electrical Technology I	872	CCP		11		2	82
Electrical Technology II	872A	CCP			12	2	82
Environmental Studies / Outdoor Skills	884A	CCP		11	12	2	82
Forestry Technology I	884	CCP		11	12	2	82
Welding Technology I	874	CCP		11		2	83
Welding Technology II	874A	CCP			12	2	83

EVENING DIVISION

Art

Course		Level	Grades				Credits	Page No.
Foundations of Art	ED57	CCP	9	10	11	12	.5	84

Business

Course		Level	Grades				Credits	Page No.
Microsoft Office Essentials	ED33	CCP	9	10	11	12	.5	84

English

Course		Level	Grades				Credits	Page No.
World Literature	ED36	CCP		10	11	12	1	84
American Literature	ED34	CCP			11	12	1	84
Expository Writing	ED142	CCP			11	12	.5	85
Introduction to Critical Analysis	ED143	CCP			11	12	.5	85
Shakespeare	ED45	CCP			11	12	.5	85
The Short Story and Its Writer	ED46	CCP			11	12	.5	85

Health and Physical Education

Course		Level	Grades				Credits	Page No.
Fitness Education	ED55	CCP		10	11	12	.5	85
Health I (Blended*)	ED17	CCP	9	10	11	12	.5	85
Health II (Blended*)	ED17B	CCP		10	11	12	.5	85

Math

Course		Level	Grades				Credits	Page No.
Algebra I	ED26	CCP		10	11	12	1	86
Applied Geometry	ED24	CCP		10	11	12	1	86
Foundations of Algebra II	ED30	CCP			11	12	1	86

Science

Course		Level	Grades				Credits	Page No.
Physical Science	ED19	CCP		10	11	12	1	86
Applied Biology	ED54	CCP		10	11	12	1	86
Environmental Science	ED42	CCP			11	12	.5	86
Introduction to Meteorology	ED145	CCP			11	12	.5	86

Social Studies

Course		Level	Grades				Credits	Page No.
World History	ED35	CCP		10	11	12	1	86
United States History	ED16	CCP			11	12	1	87
American Values in Film and Music	ED52	CCP			11	12	.5	87
Cultural Geography	ED58	CCP			11	12	.5	87
Current Issues	ED48	CCP			11	12	.5	87
Geography of Life	ED824	CCP			11	12	.5	87

Art Department

The Art program is dedicated to developing fundamental visual skills and knowledge about artists and art movements. This is done by requiring students to take Foundations of Art as a prerequisite for any of the art electives. Those who choose to continue with art electives will then begin to develop new skills and gain greater appreciation for art as a means of communication and understanding in society.

Course Descriptions:

Foundations of Art 001

NL
Half Year
.5 Credit
Gr. 9-12

Two-dimensional and three-dimensional art and design will be explored and applied. Elements of art, drawing and painting skills, expressive ideas and imaginative thinking will be reinforced. Introduction to artists and techniques both contemporary and historic are included to enhance understanding. **Foundations of Art is a prerequisite to all other Art Department courses. Students wishing to be waived through this course must apply through the TRHS Guidance Department. The waiver process requires an 85% grade or better on the Foundations of Art Final Exam and a subsequent portfolio presentation.**

2-D Art 002

NL
Half Year
.5 Credit
Gr. 9-12

Principles of design are explored in a variety of media and techniques including pencil, acrylic paint, collage, and printmaking. Students will utilize the elements of art to demonstrate understanding of the principles of design within their own work and that of famous artists. **Prerequisite: Foundations of Art or Departmental approval.**

3-D / Sculpture 003

NL
Half Year
.5 Credit
Gr. 9-12

The three-dimensional world of visual art is creatively investigated in this course. Media such as clay, wire, and found objects are used to explore creative ways that forms can occupy space. The art of sculptors, architects and designers may be used as examples of how artists apply the elements of art and the principles of design in their work. **Prerequisite: Foundations of Art or Departmental approval.**

Level One

Foundations of Art

Level Two

2-D Art	Painting Exploration
3-D Art / Sculpture	Pottery I
Graphic Design	

Level Three

Pottery II	Painting
Drawing	Photography I
Illustration and Cartooning	Digital Arts

Level Four

Photography II	AP Art: General Portfolio
----------------	---------------------------

Graphic Design 016

NL
Half Year
.5 Credit
Gr. 9-12

Students will use design software to develop an understanding of how visual images affect all aspects of our lives. The principles of design and elements of art will be used as visual problem-solving exercises. The tools, language, techniques, and typography of the graphic design industry will be applied to develop a body of work that demonstrates effective communication. The contribution of significant designers and the history of design will be studied. **Prerequisite: Foundations of Art or Departmental approval.**

Painting Exploration 019

NL
Half Year
.5 Credit
Gr. 9-12

This course is an entry level painting course. Students will develop an understanding for creating an effective composition through utilizing the principles of design and the elements of art. Basic color theory and how it relates to various media will also be explored. Students will explore a variety of topics including various painting techniques, simple nature studies, imaginative illustrations, still life, abstraction, and landscapes. This course is an opportunity for students to explore their expressive potential through water media painting. **Prerequisite: Foundations of Art or Departmental approval.**

Pottery I 010

NL
Half Year
.5 Credit
Gr. 9-12
Hand building and wheel throwing techniques will provide students with skills to create pottery that is functional, non-functional and personally expressive. Various clay bodies, glazes, and kiln firing techniques used by potters will be introduced in order to expand students' subject area knowledge. Demonstrations and critiques will accompany assignments. **Prerequisite: Foundations of Art or Departmental approval.**

Pottery II 011

ACC
Half Year
.5 Credit
Gr. 10-12
This course is an extension of Pottery I, exploring more advanced techniques of surface decoration, hand building and wheel-throwing. Anatomy of the human skull will be explored through the creation of a portrait sculpture. Student's final project will be self-designed based on individual interests. **Prerequisite: Pottery I or Departmental approval.**

Drawing 005

ACC
Half Year
.5 Credit
Gr. 10-12
Advanced methods of drawing, self-expression and conceptual imagery, as well as further development in areas of composition, perspective, and observation skills will be explored. The ability to use visual images as non-verbal communication tools will be emphasized. Application of the elements of art and principles of design in one's own artwork as well as those of master artists are included. **Prerequisite: 2-D Art, Painting Exploration, or Departmental approval.**

Illustration and Cartooning 008

ACC
Half Year
.5 Credit
Gr. 10-12
Advanced methods in illustration and cartooning will be explored as well as the history of cartooning from super heroes to development of comics in other countries. Students will learn how to develop their own cartoon characters, illustrate and design their own comic strip, write text/dialog, explore caricatures and create single frame studies that reflect current events. **Prerequisite: 2-D Art, Painting Exploration, or Graphic Design, or Departmental approval.**

Painting 007

ACC
Half Year
.5 Credit
Gr. 10-12
Advanced techniques in acrylic and watercolor paint will be explored with an emphasis on creating more personal and powerful compositions. Assignments that inspire and challenge will require innovative thinking and creative problem solving. Traditional and non-traditional artists' techniques will be studied. Painting critiques will focus on the application and understanding of the elements of art and principles of design. **Prerequisite: 2-D Art, Painting Exploration, or Departmental approval.**

Photography I 012

ACC
Half Year
.5 Credit
Gr. 10-12
Exploration of photography using a variety of cameras as artistic tools. Students will gain an understanding of the photographic process for developing film, printing black and white photography, and basic darkroom techniques. Using the camera as their eye, students will apply knowledge of good composition. Adobe Photoshop will be used to colorize and enhance prints. Photographers and cultural influences will be investigated to gain a better appreciation for the aesthetics of photography. **Prerequisite: 2-D Art or 3-D/Sculpture, Graphic Design, Painting Exploration, Pottery I, or Departmental approval.**

Photography II 017

ACC
Half Year
.5 Credit
Gr. 10-12
The objective of Photography II is to achieve a higher level of technical skill developing and printing black and white film. Digital cameras and advanced use of Adobe Photoshop will be used as a tool to enhance students' photography. A photography portfolio that demonstrates a body of work representing skill, personal expression and artistic vision using a wide variety of compositions will be an important aspect of this course. **Prerequisite: Photography I or Departmental approval.**

Digital Arts 018

ACC
Half Year
.5 Credit
Gr. 11-12
The objective of the digital arts course is to achieve a high level of technical skills when using the digital SLR camera. Students will create digital paintings of their photography utilizing Adobe Photoshop. Stop motion animation will also be explored. Artists from different genres will be included in an effort to better understand and appreciate the application of the elements of art and the principles of design in one's own artwork and that of others. **Prerequisite: 2-D Art, 3-D/Sculpture, Graphic Design, Painting Exploration, Pottery I, or Departmental approval.**

AP® Art: General Portfolio 013

AP
Full Year
1 Credit
Gr. 11-12
The Advanced Placement program in Studio Art is intended for the highly motivated student interested in the serious study of art. Students should be aware that Advanced Placement curriculum involves significantly more time than the typical high school course and is not for the casually interested art student. Each student will need to work outside the classroom beyond scheduled class time. Students will focus on creating a Drawing or 2D Portfolio consisting of 24 total pieces. Students will then submit the portfolio to the AP Board with the possibility of earning college credit. **Prerequisite: A Level 2 and Level 3 art class, and Departmental approval.**

Business and Technology Department

The Business Department of Timberlane High School is committed to preparing students for a rapidly changing world by expanding each student's knowledge, experience, and skills in business and computer technology. We believe the knowledge, skills, and ethics taught are essential for dynamic, life-long participation in a global and information society – promoting success in one's personal, college, and career decisions. The emphasis of our program is active learning of practical business knowledge through collaboration, class discussion, hands-on learning, and innovative problem solving.

Course Descriptions:

Desktop Publishing and Presentations 103

ACC
Half Year
.5 Credit
Gr. 9-12

Use your creativity to produce real world publications and presentations. The course is designed to integrate computer technology and develop communication skills by creating effective and informative products. Areas of instruction will include multimedia desktop publishing, layout and design techniques, and other advanced applications. Instructional strategies will include computer/technology application, interdisciplinary and/or culminating projects, decision-making, problem-solving, and critical thinking activities.

Emerging Technologies 120

ACC
Half Year
.5 Credit
Gr. 9-12

This course allows users to collaborate with others, communicate through online communities, and be creative by generating various types of Web content. Students will learn about current trends in technology and new web applications. The interactive sharing of information will be experienced through different web-based programs. Students will learn Web 2.0 concepts and skills to integrate into their personal and professional lives.

Microsoft Office Essentials 108

CCP
Half Year
.5 Credit
Gr. 9-12

This hands-on course is designed to develop proficiency in Microsoft Office and enhance decision making, productivity communication and problem solving skills. Instructional strategies include computer/technology applications, interdisciplinary and/or culminating projects, problem solving and critical thinking activities. Integral to the course will be student creation and design of original documents.

Web Design 141

ACC
Half Year
.5 Credit
Gr. 9-12

Want to create your own website? This course is designed to learn about the essential elements of effective web page design. Try a little coding by creating web pages using HTML code. Create professional website using CCS styles and designs. Students will build all-inclusive web sites with various formatting techniques, graphics, and links. Professional products will be created through the use of creativity, smart design choices, and problem solving.

Information Technology (SNHU Dual Enrollment opportunity)

ACC
Half Year
.5 Credit
Gr. 10-12

This course is designed to promote a working knowledge and understanding of computer information technology concepts, skills and capabilities that support academic and professionally related goals and requirements. This is accomplished, in part, by using word processing, spreadsheet, presentation, and database software. Students also learn about the application and science of information technology and the fundamentals of computer information technologies along with issues that affect people today. **Note: Students enrolled in this course will be eligible to apply for college credit through Southern New Hampshire University.**

Introduction to Business Principles 116

CCP
Half Year
.5 Credit
Gr. 10-12

This course is designed to teach students business skills that can be used in daily life and in preparation for further business studies. This class provides an exciting overview of the world of business. We will emphasize the importance of the economy, owning and operating a business, small business influences, and buying goods and services. Individual and group assignments will be assigned. This course is intended for students who wish to learn more about business industries and what they have to offer.

Human Relations in Organizations 149

ACC
Half Year
.5 Credit
Gr. 10-12

The objective of this course is to make students aware of and prepared for the business world with respect to the importance of human relations management in organizations. This hands-on, performance-based course develops students' understandings and the skills needed to build interpersonal relationships that will foster the development of business etiquette, behavior management, conflict resolution, work place ethics, networking, and team building. **Prerequisite: Successful completion of Introduction to Business Principles.**

For more information about dual enrollment opportunities, please see pg. 10.

Personal Money Management 118

CCP
Half Year
.5 Credit
Gr. 10-12

The growing emphasis on financial literacy has highlighted the need for students to learn how to navigate the financial decisions they must make and how to make informed decisions related to managing finances and budgeting, saving and investing, living independently, earning and reporting income, buying goods and services, using credit, banking and protecting against risk. Knowing, understanding and applying these concepts offers the necessary tools for addressing economic issues, both personal and societal.

College Accounting I 119

ACC
Half Year
.5 Credit
Gr. 11-12

How do businesses prosper in tough economic times? Explore the language of business and find out! Learn the accounting cycle using manual and computerized accounting systems for sole proprietorships, partnerships and corporations. This semester course is open to any student who wants to understand the flow of money in business. If you are planning a career in business, finance, management, marketing, banking, accounting or plan on going into business on your own, this course is a must!

College Accounting II (SNHU Dual Enrollment opportunity) 122

ACC
Half Year
.5 Credit
Gr. 11-12

Get ahead of the competition and begin your college career with three credits! If you plan on taking accounting, finance, business management, business administration, and/or marketing in college, this course, taught at the first-year college level, is strongly recommended. A continuation of Accounting I, you'll use manual and computerized accounting systems to expand your knowledge of accounting systems. **Note: Students will be eligible to apply for college credit through Southern New Hampshire University. Prerequisite: Successful completion of College Accounting I.**

Entrepreneurship 117

ACC
Half Year
.5 Credit
Gr. 11-12

This course is designed for those who wish to own and operate their own business and/or who wish to continue their business studies at a post-secondary institute. It focuses on recognizing a business opportunity, starting a business based on that opportunity, and operating and maintaining that business. Students will be working in groups, where they will develop a business plan and run a business. This will be a fast paced course where students will learn to practice their time management skills and ability to work with others.

Exploring Teaching (SNHU Dual Enrollment opportunity) 140

ACC
Half Year
.5 Credit
Gr. 11-12

Have you ever considered being a teacher? Imagine yourself in front of a classroom, teaching what you love. This activity-based course is the first step towards a career in education. Through classroom observations, discussion with experienced educators, and classroom activities, you will learn the "behind the scenes" of being a teacher including how to become a certified teacher, classroom management skills, and creating engaging lessons. **Note: Students successfully completing Exploring Teaching and Practicing Teaching with a grade of "B" or better will be eligible to apply for college credit through Southern New Hampshire University.**

Marketing 125

CCP
Half Year
.5 Credit
Gr. 11-12

Would you like to write a Super Bowl commercial, design a logo for a new product, or create a social media campaign for your favorite company? Marketing is an introductory course designed for students who are interested in learning and applying the marketing strategies and tactics used in the world's most successful companies. In addition, communication, interpersonal, and technology skills will be developed. Creative, hands-on projects and collaborative activities are an integral part of this course.

Practicing Teaching (SNHU Dual Enrollment opportunity) 142

ACC
Half Year
.5 Credit
Gr. 11-12

Do you have what it takes to be a teacher? Find out in this follow up course to Exploring Teaching! While completing a 30-hour internship, you will develop your teaching skills under the supervision of an experienced educator at the elementary, middle school, or high school class of your choice. **Note: Students successfully completing Exploring Teaching and Practicing Teaching with a grade of "B" or better will be eligible to apply for college credit through Southern New Hampshire University.**

Sports and Entertainment Management 121

CCP
Half Year
.5 Credit
Gr. 11-12

This course is designed for students who wish to take their first step into the world of sports and entertainment, by either entering the workforce in an entry level position or continuing onto a post-secondary institution. Management topics discussed include leadership, finance, product management, people management, information management, legal and ethical issues, customer relations, sales management, managing change and career development. Students will work on various projects independently in group settings. **Prerequisite: Introduction to Business or Departmental approval.**

For more information on dual enrollment opportunities, please see pg. 10.

Computer Science Department

The Computer Science Department acknowledges its responsibility to prepare students not just for today's world, but also for their future. Since computers are a significant part of our lives and are designed to play an even greater role; the following courses are designed to prepare students.

NOTE: Successful completion of any of these courses will satisfy the graduation requirement of .5 credit in Technology.

Course Descriptions:

Creating Mobile Applications 160A

ACC
Half Year
.5 Credit
Gr. 9-12

Want to use your imagination to create Android apps? Mobile apps can help make our world a better place! This semester course is recommended for students interested in an introduction to developing mobile applications. Students will expand problem-solving skills, design graphical user interfaces, and create mobile applications. Students will use an emulator or mobile device to test and run their Android programs. Expectations of the student include the ability to: successfully multiply fractions, move objects on an x and y coordinate plane, read course material carefully, and follow very specific directions.

Visual Basic Programming I - ACC 155

ACC
Half Year
.5 Credit
Gr. 9-12

What makes an app easy to use? This semester course is an introduction to computer programming using a graphical user interface (GUI). Students will learn to design and create simple interactive applications using buttons, checkboxes, labels, pictures, and textboxes. This course is an in-depth, fast-paced study of introductory topics in Visual Basic and program design. Students will read word problems and use their math skills to solve these problems in the Visual Basic language. Designing the programs is an important part of this course. **Prerequisite: Successful completion of Algebra 1.**

Visual Basic Programming I - CCP 153

CCP
Half Year
.5 Credit
Gr. 9-12

What makes an app easy to use? This semester course is an introduction to computer programming using a graphical user interface (GUI). Students will learn to design and create simple interactive applications using buttons, checkboxes, labels, pictures, and textboxes. This course is a study of introductory topics in Visual Basic and the design of programs. Students will read word problems and use their math skills to solve these problems in the Visual Basic language. Designing the programs is an important part of this course. **Prerequisite: Successful completion of Algebra 1.**

Visual Basic Programming II - ACC 136

ACC
Half Year
.5 Credit
Gr. 9-12

How can we create useful and powerful solutions to some of our existing problems? This semester course is a continuation of Visual Basic Programming I. Students create GUI (graphical user interface) apps using Visual Basic. Students will work on more complex programs to improve their problem solving skills. Students may attempt to create programs to solve real world problems. **Prerequisite: Successful completion of Visual Basic Programming I or Departmental approval.**

Intro to C++ Programming 156

ACC
Half Year
.5 Credit
Gr. 10-12

Which is more limited, the human brain or a computer processor? Students will be introduced to Microsoft Visual C++, an object-oriented programming language. Students taking this course will design algorithms then translate them into C++ programs using various data types, control structure, strings, loops, inputs/outputs and functions. You are not expected to know these concepts before the first class starts; you will learn them in the course. This course provides the student with excellent preparation for most technical fields such as engineering, IT, medical, and science careers. C++ skills can help you make a difference in the world. **Prerequisite: Departmental approval.**

Intro to Java 166

ACC
Half Year
.5 Credit
Gr. 11-12

Want to learn one of the most popular computer languages? This semester course gives an introduction to Java, an object oriented programming language that runs on almost all computers. Using console apps and graphical user interfaces students will learn key concepts of Java: classes, data types, inheritance, and encapsulation. Good programming design and style is emphasized. Object oriented programming will be introduced and used in this course. Java skills help you succeed in quickly writing powerful programs that run on any platform. **Prerequisite: Departmental approval.**

ACC
Half Year
.5 Credit
Gr. 11-12

Would you like to work on art and music computer projects? This semester course is an interactive, project-based course that offers students an opportunity for self-expression through animation and sound. Students learn to manipulate shapes or characters on the computer screen in this introductory course. Expectations of the student include: independent learner, complex thinker, and producer of quality solutions. If you like art or music, this is the computer class for you. We will work to create computer generated music and manipulate shapes using tools such as Sonic Pi and Processing. This course is the place where creativity and programming can “make” magic together. **Prerequisite: Departmental approval.**

Game Programming II / Web Game Design 165

ACC
Half Year
.5 Credit
Gr. 11-12

What makes a game engaging and reliable? This semester course is an interactive, project-based course that uses advanced animation programming. Students will program using game software, apply the design process, demonstrate programming concepts, and create a storyline. Students may learn scripting, string manipulation, looping, decision structures, and event handlers. Expectations of the student include: independent learning, complex thinking, and producing quality solutions. If you think you’re a serious gamer or you want to speak C++ more fluently, this is where you will find out what’s behind the “screen”. Your ability to create games may help you change the way knowledge is shared globally. **Prerequisite: Successful completion of Intro to C++ Programming.**

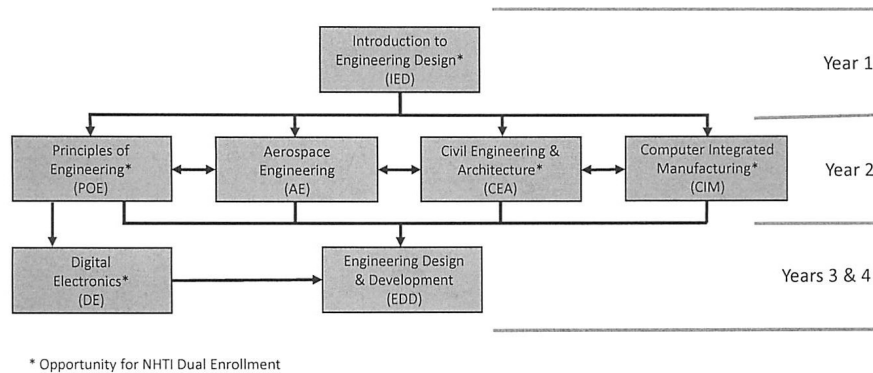
AP
Full Year
1 Credit
Gr. 11-12

How is computer science taught in college? This course follows the curriculum guidelines put forth by the College Board. This is an intense study of computer science. Students use the Java programming language to learn and apply object-orientated concepts. Object-oriented design will be stressed throughout the course. Students will learn the essentials of the language as well as inheritance, classes, arrays, interfaces, and recursion. Case studies will be used. Expectations of the student include: independent learner, complex thinker, and producer of quality solutions. If you haven’t taken a computer science class before but are a good student, you can succeed in this course! Or you can build on previous computer experience to better respond to real life problems. Students are required to take the AP exam in May. **Prerequisite: Algebra II strongly suggested or Departmental approval.**



Engineering Department

The engineering courses at Timberlane Regional High School offer students a four year sequence of courses which, when combined with college preparatory mathematics and science courses at TRHS, introduces students to the scope, rigor, and discipline of engineering and engineering technology prior to entering college. Introduction at the high school level will prepare more students for a potential future in engineering, while allowing students to determine if engineering is the career they may desire. Students participating in the engineering courses at TRHS will be better prepared for success in college engineering programs.



Course Descriptions:

Introduction to Engineering Design (NHTI Dual Enrollment opportunity) 180

ACC
Full Year
1 Credit
Gr. 9-12

This course emphasizes the development of design. Students use computer software to produce, analyze, and evaluate models for project solutions. They study the design concepts of form and function, and then use state-of-the-art technology to translate conceptual design into reproducible products. This course teaches students to understand and apply design process to solve problems in teams, apply adaptive design concepts, explore careers and develop portfolios of their designs.

Principals of Engineering (NHTI Dual Enrollment opportunity) 181

ACC
Full Year
1 Credit
Gr. 10-12

This course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world problems. Through theory and practical hands-on experience, students address the emerging social and political consequences of technological change. The course of study includes an overview and perspective of engineering, design process, communication and documentation, engineering systems, statics, robotics, materials and materials testing, thermodynamics, engineering for quality and reliability and dynamics. **Prerequisite: Successful completion of Introduction to Engineering Design or Departmental approval.**

Aerospace Engineering 186

ACC
Full Year
1 Credit
Gr. 10-12

This course is the study of the engineering discipline which develops new technologies for use in aviation, defense systems, and space exploration. The course explores the evolution of flight, flight fundamentals, navigation and control, aerospace materials, propulsion, space travel, orbital mechanics, ergonomics, remotely operated systems and related careers. In addition the course presents alternative applications for aerospace engineering concepts. **Prerequisite: Successful completion of Introduction to Engineering and Design and current enrollment in Physics and Algebra 2 or Departmental approval.**

Civil Engineering and Architecture (NHTI Dual Enrollment opportunity) 188

ACC
Full Year
1 Credit
Gr. 10-12

This course is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. **Prerequisite: Successful completion of Introduction to Engineering Design or Departmental approval.**

For more information on dual enrollment opportunities, please see pg. 10.

Computer Integrated Manufacturing 183
(NHTI Dual Enrollment opportunity)

ACC
Full Year
1 Credit
Gr. 10-12

This course teaches the fundamentals of computerized manufacturing technology. It builds on the solid-modeling skills developed through the Introduction to Engineering Design course. Students use 3-D computer software to solve design problems. They assess their solutions through mass proprietary analysis (the relationship of design, function and materials), modify their designs, and use prototyping equipment to produce 3-D models. This course includes these integrated concepts: computer modeling, computer numerical control (CNC) equipment, computer-aided manufacturing (CAM), robotics and flexible manufacturing systems. Course may be taken concurrently with Digital Electronics. **Prerequisite:** *Successful completion of Introduction of Engineering Design or Departmental approval.*

Digital Electronics 182
(NHTI Dual Enrollment opportunity)

ACC
Full Year
1 Credit
Gr. 11-12

This course introduces students to applied digital logic, a key element of careers in engineering technology. This course explores the smart circuits found in watches, calculators, video games and computers. Students use industry-standard computer software in testing and analyzing digital circuitry. They design circuits to solve problems, export their designs to a printed circuit auto-routing program that generates printed circuit boards, and use appropriate components to build their designs. Students use mathematics and science in solving real-world engineering problems. **Prerequisite:** *Successful completion of Introduction of Engineering Design and Principles of Engineering or Departmental approval.*

For more information on dual enrollment opportunities, please see pg. 10.

Engineering Design and Development 184

ACC
Full Year
1 Credit
Gr. 11-12

This course lets students apply what they have learned in academic and pre-engineering courses as they complete challenging, self-directed projects. Students work in teams to design and build solutions to authentic engineering problems. An engineer from the school's partnership team mentors each student team. Examples of projects include a robotic mascot for the school, a remote controlled hovercraft, or a solar-powered device. Student teams make progress reports to their peers, mentor and instructor and exchange constructive criticism and consultation. Teams present their research paper and defend their projects to a panel of engineers, business leaders, and engineering college educators for professional review and feedback. This course equips students with the independent study of skills they will need in postsecondary education and careers in engineering and engineering technology. **Prerequisite:** *Successful completion of Introduction of Engineering Design and Principles of Engineering, and Aerospace Engineering, Civil Engineering, or Computer Integrated Manufacturing or Departmental approval.*

AutoCAD I 551
AutoCAD II 552
(NHTI Dual Enrollment opportunity)

NL
Half Year
.5 Credit
Gr. 10-12

Through step-by step instruction, these courses take the student from beginning to advanced levels of competency in using the AutoCAD electronic drawing system. Classes must be taken in sequence.

Architectural Drawing 559

NL
Half Year
.5 Credit
Gr. 10-12

This course is designed for students who have an interest in pursuing a career in a construction or architecture-related field of study. Students will be introduced to Revit software to create a 3D computer model of a residential structure and to produce a set of architectural plans to industry standards.

Engineering Drawing 557

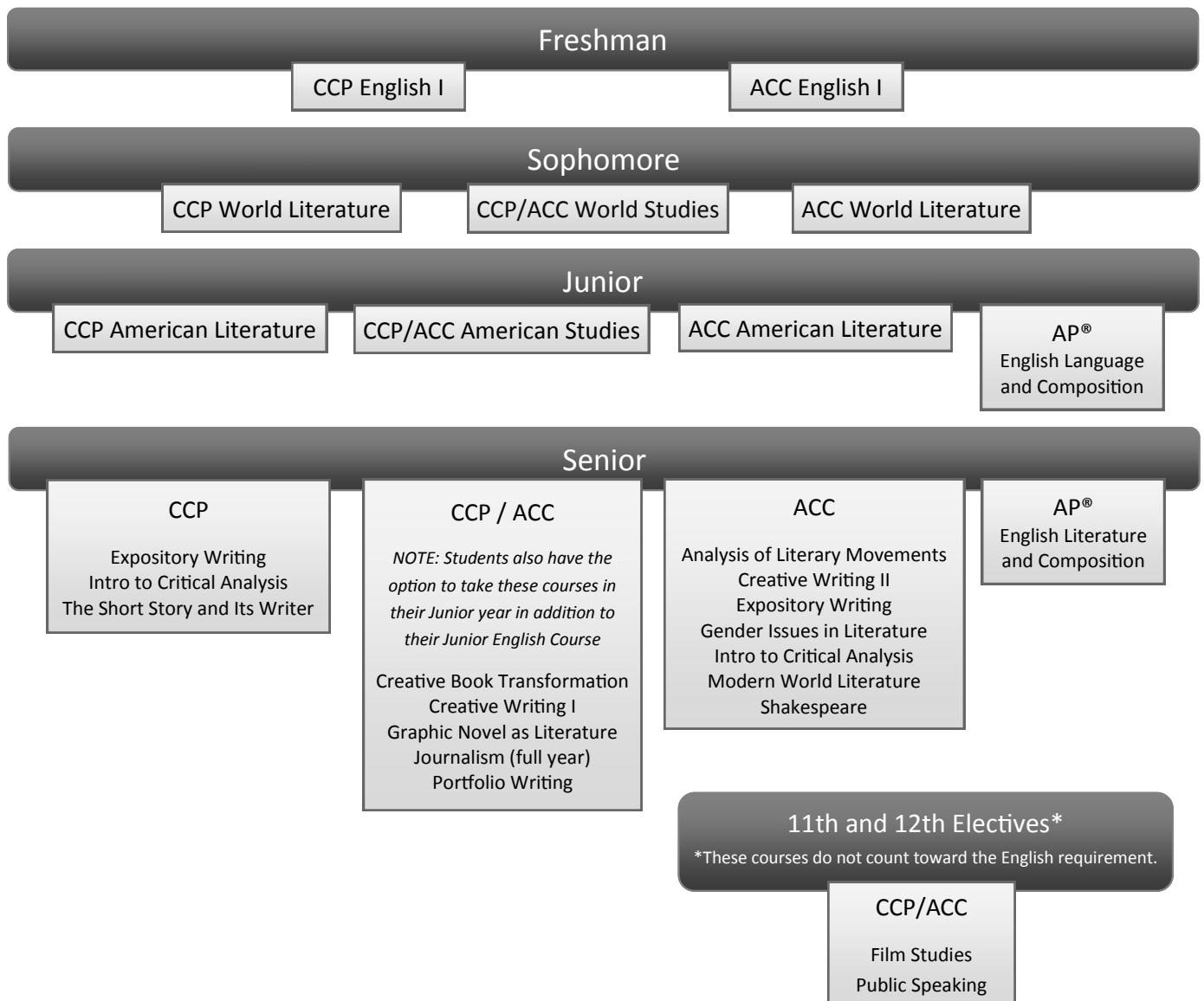
NL
Half Year
.5 Credit
Gr. 10-12

This course is designed for students who have an interest in pursuing a career in an engineering related field. Students will be introduced to Inventor software to create 3D computer models of parts and assemblies and to produce a set of technical plans to engineering standards.

English Department

Every word wants to be taken literally; else, it decays into a lie. But one mustn't take any word literally; else the world becomes a madhouse. —Robert Musil

The Timberlane English Department is about words. For all four years at Timberlane Regional High School, students will be experiencing the best examples of how words can be shaped into shouts of joy, cries of anguish, cautious warnings, hopeful pleas, and invitations into the limitless possibilities of how words can indeed change the world. Students will also spend the next four years learning how to shape their own words, to learn how to listen to their inner voices, and translate those voices onto paper. They will learn how to listen to other students' words thoughtfully, with respect and with interest. They will learn that words can be communicated non-verbally; presentation, oral reports, and speeches are not just about what one's message is, but about how one says it. Each student in English class will be a word reader, a word shaper, and a word listener. The goal of the Timberlane English Department's dedicated staff is to help each student help him/herself to become one who understands the incredible responsibility and power that comes with the mastery of words.



Course Descriptions:

English I - ACC 201

ACC
Full Year
1 Credit
Gr. 9



This course provides a solid foundation in English through an integrated approach to student growth in reading, writing, speaking, and listening. Students will develop their writing skills through the drafting process. The study of literature emphasizes the understanding of selected fiction, poetry, and drama. In addition, students are introduced to the research process and will build on their research skills throughout the year. While investigating literary genres, students will study grammar and vocabulary. This course develops skills at an accelerated pace for students who want experiences that will prepare them for advanced work in a college situation.

English I - CCP 203

CCP
Full Year
1 Credit
Gr. 9



This course provides a solid foundation in English through an integrated approach to student growth in reading, writing, speaking, and listening. Students will develop their writing skills through the drafting process. The study of literature emphasizes the understanding of selected fiction, poetry, and drama. In addition, students are introduced to the research process and will build on their research skills throughout the year. While investigating literary genres, students will study grammar and vocabulary.

World Literature - ACC 222

ACC
Full Year
1 Credit
Gr. 10



In this course, students will explore world literature that is chosen for its relevance as an expression of human thought and its relationship to students' own experiences. Students will learn to analyze texts and research, understand the societies from which they emerged, and recognize the roles those societies played in shaping today's world. Literature will represent a variety of genres and cultures. Students will continue to develop skills through vocabulary development, informational writing, argumentative writing, research, and oral presentations. This course develops skills at an accelerated pace for students who want experiences that will prepare them for advanced work in a college situation.

World Literature - CCP 221

CCP
Full Year
1 Credit
Gr. 10



In this course, students will explore world literature that is chosen for its relevance as an expression of human thought and its relationship to students' own experiences. Students will learn to analyze texts and research, understand the societies from which they emerged, and recognize the roles those societies played in shaping today's world. Literature will represent a variety of genres and cultures. Students will continue to develop skills through vocabulary development, informational writing, argumentative writing, research, and oral presentations.

World Studies 808

ACC/CCP
Full Year
2 Credits
Gr. 10



World Studies is an interdisciplinary course that combines history and literature. This course emphasizes the intricate thematic connections between history and literature. Analysis of historical sources and documents coupled with analysis of literature will be the main focus through reading, writing, and collaborative projects. This course examines problems in the world today and seeks to understand the root historical causes of these issues. This is a team-taught, double period course. It fulfills the graduation requirements for World History and World Literature. Students may contract for accelerated credit.

American Literature - ACC 216

ACC
Full Year
1 Credit
Gr. 11



This course focuses on the major movements of American Literature including: Puritanism, Romanticism, Realism, Modernism, and Post-Modernism. A variety of texts will be read including: poetry, drama, fiction, and non-fiction that also correspond to the major movements in US history. Students will continue to develop skills through vocabulary study, literary analysis, and composition. A major research paper is an expectation of all students in this course. This course develops skills at an accelerated pace for students who want experiences that will prepare them for advanced work in a college situation.

American Literature - CCP 218

CCP
Full Year
1 Credit
Gr. 11



This course focuses on the major movements of American Literature including: Puritanism, Romanticism, Realism, Modernism, and Post-Modernism. A variety of texts will be read including: poetry, drama, fiction, and non-fiction that also correspond to the major movements in US history. Students will continue to develop skills through vocabulary study, literary analysis, and composition. A major research paper is an expectation of all students in this course.

American Studies

816

ACC/CCP
Full Year
2 Credits
Gr. 11



American Studies is an interdisciplinary course that combines historical evidence with an analysis of literature to answer essential questions concerning American culture. Through a variety of activities such as group projects, discussion, oral presentations, simulations, and analysis, students will be given an opportunity to connect the studies of history, literature, art, philosophy, and music. This two-period course meets the requirements for both United States History and American Literature courses. Students may contract for accelerated credit.

AP® English Language and Composition 270

AP
Full Year
1 Credit
Gr. 11



The AP English Language and Composition course focuses on the rhetorical analysis of American fiction, poetry, drama, and nonfiction prose. The course cultivates the reading and writing skills that students need for college success and for intellectually responsible civic engagement. The course guides students in becoming curious, critical, and responsive readers of diverse texts, and in becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes. Students will expand their understanding of how written language functions rhetorically, especially in terms of argumentation and persuasion to communicate writers' intentions and elicit readers' responses in particular situations. Reading and writing activities in the course also deepen students' knowledge and control of formal conventions of written language. ***A strong background in English is required. This course satisfies the American Literature graduation requirement. Students are strongly encouraged to take this course in Grade 11 but will be permitted to do so in Grade 12.***

Analysis of Literary Movements 271

ACC
Full Year
1 Credit
Gr. 12



This year long accelerated course will take students through prominent literary movements in Western Civilization. Beginning with the Renaissance, students will examine the cause and the impact of significant literary movements from the 14th century through the 20th century. The course will center on literature from each period. Students will study not only the movement itself, but also the response to movement. Students will make connections between cultures and traditions and the art they influence, as literature and philosophy change from one period to the next. Selected poetry, non-fiction, drama, informational text, and fiction will serve as prompts for discussion and writing.

Creative Book Transformation

230

ACC/CCP
Half Year
.5 Credit
Gr. 10-12



This course will focus on student-selected literature that influences creative writing. Students will choose their own books to analyze and transform into interpretative, creative pieces. Over the course of the semester, students will have an opportunity to create the following forms of writing: literary analyses, perspective/voice pieces, character letters and diary entries, found and original poetry, research based writing, personal narratives, two-voice and pantoum poetry, news articles and broadcasts, compare and contrast analyses, and more. Creative artistic pieces will also be an integral part of the course. The completed pieces of writing and art will be compiled into two long term book transformation projects. Book transformation is a form of altered art that displays personal writings and art interpreting a text. Students may contract for accelerated credit in this course.

Creative Writing I 229

ACC/CCP
Half Year
.5 Credit
Gr. 11-12



This course is designed for juniors and seniors who want to explore different genres of creative writing at a more intense level than in Freshman English, World Literature and American Literature. Students will read and write poetry, short fiction, and creative nonfiction. Revision and both peer and teacher writing conferences will be important aspects of the course. Students will write and have an option to share original pieces. Students may contract for accelerated credit.

Creative Writing II 231

ACC
Half Year
.5 Credit
Gr. 11-12



This course is designed for students who have already explored creative writing in a semester of CWW I. In CWW II, students will focus their writing by completing more intense author/genre studies, peer and teacher conferences, workshops with outside writers and attendance at outside readings; all geared towards the goal of creating individual collections.

Expository Writing - ACC 209

ACC
Half Year
.5 Credit
Gr. 12



Expository Writing is a course in nonfiction writing designed to foster critical and complex thinking. Students will compose a variety of analytical essays in the following genres: personal, definition, compare and contrast, persuasive, and research. Throughout the course, emphasis will be placed on prewriting, revision, and frequent peer and teacher conferences. In addition, the class will read informational texts as a means of exploring writing strategies and of understanding the links between reading and writing. Vocabulary development and grammar and usage will be regular features of this course. This course develops skills at an accelerated pace for students who want experiences that will prepare them for advanced work in a college situation.

Expository Writing - CCP**217**

CCP
Half Year
.5 Credit
Gr. 12

Expository Writing is a course in nonfiction writing designed to foster critical and complex thinking. Students will compose a variety of analytical essays in the following genres: personal, definition, compare and contrast, persuasive, and research. Throughout the course, emphasis will be placed on prewriting, revision, and frequent peer and teacher conferences. In addition, the class will read informational texts as a means of exploring writing strategies and of understanding the links between reading and writing. Vocabulary development and grammar and usage will be regular features of this course.

**Gender Issues in Literature****262**

ACC
Half Year
.5 Credit
Gr. 12

In Gender Issues in Literature, students explore the roles, attitudes, and behaviors of men and women throughout the ages as portrayed in literature. Students will make connections between the cultures and traditions of various societies and the impact they have on the relationships of men and women. Selected poetry, non-fiction, informational text, and fiction will serve as prompts for discussion and writing.

**Graphic Novel as Literature****268**

ACC/CCP
Half Year
.5 Credit
Gr. 12

The graphic novel is quickly becoming a popular and fascinating medium of literature and is winning critical acclaim in the literary and academic world. This course will prepare students with the skills to read, interpret, and enjoy this mode of literature. Specifically, students will learn and write about visual literacy and art interpretation through the lens of literature. Understanding the interplay between images and words will arm students with cutting edge skills such as critical analysis, creative thinking, and attention to fine detail. The course will explore fiction and nonfiction and culminate in a student created mini graphic novel that exhibits the characteristics of the genre and highlights the students' critical analysis and creative skills. Students may contract for accelerated credit.

**Introduction to Critical Analysis - ACC****224**

ACC
Half Year
.5 Credit
Gr. 12

This course prepares students to read, write, speak, and listen in order to critically analyze a variety of genres of text. Emphasis will be placed on analysis strategies for developing effective critiques on literary and informational topics. Additional focus will be placed on evaluating opinions and collaborating through discussion as a means to critique literary and informational texts. This course develops skills at an accelerated pace for students who want experiences that will prepared them for advanced work in a college situation.

**Introduction to Critical Analysis - CCP****223**

CCP
Half Year
.5 Credit
Gr. 12

This course prepares students to read, write, speak, and listen in order to critically analyze a variety of genres of text. Emphasis will be placed on analysis strategies for developing effective critiques on literary and informational topics. Additional focus will be placed on evaluating opinions and collaborating through discussion as a means to critique literary and informational texts.

**Journalism****263**

ACC/CCP
Full Year
1 Credits
Gr. 11-12

This course provides students with an opportunity to explore the various types of journalism. There will be a focus on print and radio/broadcast journalism with culminating projects in each field. In addition, students will learn about the legal and ethical demands of a reporter. Students will learn to write a variety of newspaper articles, conduct interviews, and learn editing techniques. This course emphasizes the acquisition and application of 21st century skills, as well as media literacy. Students may contract for accelerated credit.

**Modern World Literature****260**

ACC
Half Year
.5 Credit
Gr. 12

In this course, students will explore current human rights issues through the lens of philosophy and contemporary literature. They will build a foundation of various modern philosophical movements, examine current human rights infractions in literature and in world events, and explore how modern cultures affect one another. Students will also work on developing college-level analytical reading and writing skills.

**Portfolio Writing****172**

ACC/CCP
Half Year
.5 Credit
Gr. 10-12

Portfolio Writing is a writers' workshop that focuses on drafting, editing and revising. Students will analyze a variety of short fiction and nonfiction reading selections and create a variety of writing pieces. Peer and teacher conferences and oral presentations are requirements of the course. The course will be a heterogeneous mix of students in which students may choose to contract for accelerated credit.

**Shakespeare****235**

ACC
Half Year
.5 Credit
Gr. 12

Students in Shakespeare engage in analysis of Shakespeare's works. Representative plays and poetry will be read and critiqued through discussion and writing. In addition, the literature will be studied within the historical and cultural context of Elizabethan/Jacobean England. Each student will be required to complete a research project on one aspect of Shakespeare's work. Students will read scholarly works on Shakespeare.



The Short Story and Its Writer

255

CCP
Half Year
.5 Credit
Gr. 12

Students in this course will trace the development of the art of short story writing from the nineteenth century and twentieth century. Students will study a number of authors and literary movements. Writing skills such as character development, construction of plot, point of view, setting, and figurative language, will be developed through analysis and practice. Students will complete analytical, argumentative and research based essay writing. In addition to the texts that are read and the writing that is completed, class discussions, grammar study, and vocabulary study will be integral components of the course.



AP® English Literature and Composition 227

AP
Full Year
1 Credit
Gr. 12

AP Literature and Composition is a humanities course in which we will be examining the literature, art, music and philosophies of our world. In this course, students will read and examine literature from a range of time periods and a range of genres including novels, poetry, drama and short stories. We will be going far beyond plot to identifying the techniques writers use to effectively communicate their complex ideas including examining figurative language, point of view, style, structure of the text and major themes integrated within the text. Students will also complete and revise informal responses and formal critical analysis/argumentative and evaluative essays. The primary goal of this course is to develop students into readers and writers capable of experiencing, interpreting and evaluating great works of literature and of thinking critically about the historical, cultural, psychological and sociological impact of these works. The literature, writing, and projects used in this course are meant to be intellectually stimulating and are often demanding. In order to have an enriching experience, a strong background in English is required.



Film Studies - Elective

264

ACC/CCP
Half Year
.5 Credit
Gr. 10-12

This course will introduce filmmakers and their works which have had significant influence on the medium and the society to which they were presented. Students will watch and critique films, learn about the process of creating a film, and become familiar with the terminology that goes into a production. Students may contract for accelerated credit. ***This course does not fulfill graduation requirements for students in English.***

Public Speaking - Elective

266

ACC/CCP
Half Year
.5 Credit
Gr. 10-12

Through a focus on strategies and the best practices for public speaking, this course will prepare students to speak and make presentations in front of an audience. The class will provide students opportunities to practice and gain confidence while speaking in a variety of venues. Students will learn how to integrate a speech with visual effects, such as PowerPoint. Students may contract for accelerated credit. ***This course does not fulfill graduation requirements for students in English.***

Entertainment Technology Department

The Entertainment Technology Department introduces students to the world of computer design. Utilizing Zulama curriculum, students will have the opportunity to explore course work that prepares them for the real world of computer design. Students will learn and use the same techniques and programs that professionals use in designing the visuals for state of the art video games and Pixar movies. Students will be able to utilize their creativity and learn valuable technology skills.

Course Descriptions:

Evolution of Games 150

CCP
Half Year
.5 Credit
Gr. 9-12

Today's professional game designers understand and implement dynamics from many different types of games in their blockbuster hits. In this course, students will explore ancient cultures, their games, and how they designed games using the available technology and resources. Find out more about the benefits game playing has within a society. Students will prototype and play games as well as get hands-on experience by creating their own games.

Screenwriting

CCP
Full Year
.5 Credit
Gr. 9-12

Why do we cry at movies? Or cheer? Why do thrillers put us on the edge of our seats? With this course you'll learn the nuts and bolts of dramatic story writing. You'll then create your own journey using the Hero's Journey as your guide as you apply your skills to writing your own video game narrative and script! You'll improve your skills in creative writing, character development, collaborative storytelling, and creative self-confidence to develop the storyline for what could become a video game sensation!

3D Modeling 151

CCP
Half Year
.5 Credit
Gr. 9-12

Students will learn the 3D modeling techniques used in the world today. Using 3DS Max, students will work in this highly skill-based art form to manipulate and sculpt pure imagination into substantial forms. By the end of the course, students will have developed a portfolio of original projects that students can use when applying for an internship, higher education, or a job. **Prerequisite: Successful completion of Evolution of Games.**

Family and Consumer Science Department

The Family and Consumer Science Department at Timberlane Regional High School provides students the opportunity to explore areas of foods and nutrition, textiles, and home and family living. Through these areas, students are able to develop their cognitive and creative abilities while also understanding themselves, family and society, and career opportunities available. The Home Technology program helps students grow to become more responsible adults in a rapidly changing society.

Course Descriptions:

Child Development: Ages and Stages 501

NL
Full Year
1 Credit
Gr. 10-12

This course offers students a practical understanding of child development from conception through the school-age. Content areas include birth, infants, toddlers, pre-school age children, physical, social, and emotional development, the importance of play, teaching with toys, and language development. Emphasis will be placed on the central role parents play during these formative years.

Child Care 503

NL
Full Year
1 Credit
Gr. 11-12

This in-depth course takes child development one step further in understanding how to teach young children through lesson planning into how an early child care center is successfully operated. Students will be in charge of planning two "Bring a Child to School Days" where they will create an educational environment to go along with a meaningful and developmentally appropriate schedule and activities for young children that are visiting for the day. **Prerequisite: Successful completion of Child Development or Departmental approval.**

Creative Sewing 505

NL
Half Year
.5 Credit
Gr. 11-12

Students will put their creativity to work while learning fundamental techniques in sewing and equipment use. Beginners will be steered through projects of their choice such as constructing pillows, togas, sweatpants, and curtains. Machine appliqué, fabric painting, and creative machine stitches will be used to add flair to student projects.

Designing Homes 525

NL
Half Year
.5 Credit
Gr. 11-12

Decorating a living space is shown to be one of the most basic, universal and oldest human activities traceable back to cave painting. Students will design a home using the computer programs available to configure unique furniture arrangements, lighting, and window décor based on their personalities and lifestyles.

Contemporary Culinary Arts 515

NL
Half Year
.5 Credit
Gr. 10-12

After taking this introductory foods course, you will be able to answer the question, "What's cooking?" Topics include buying and storing fresh ingredients, planning delicious meals, understanding the origins of various foods and their composition, plus an understanding of what happens when food is cooked. This course combines practical experience with the basic skills and culinary techniques to teach the fundamentals of food preparation from "soup to nuts."

Gourmet Foods 513

NL
Half Year
.5 Credit
Gr. 10-12

This course challenges students' creativity while exploring advanced food preparation. A "cook's tour" will find the students learning the art of Chinese and Mexican cooking, discovering how to cook Italian style, and much more. Students will also learn to cook for catered events. **Prerequisites: Successful completion of Contemporary Culinary Arts or Departmental approval.**

Baking and Pastries 512

NL
Half Year
.5 Credit
Gr. 10-12

This course offers an insight into the world of baking. Students will decorate cakes, knead dough, frost cupcakes, and much more. Students will be introduced to the art of candy making and learn to bake for catered events. **Prerequisite: Successful completion of Contemporary Culinary Arts or Departmental approval.**

Health and Physical Education Department

The Health and Physical Education programs at Timberlane Regional High School are designed to develop an awareness of the need for improving and maintaining one's total health. Emphasis is placed on the development of healthy attitudes, which will serve the individual throughout his or her life. All students are required to take Health I along with three of the Health and/or Physical Education electives.

Course Descriptions:

Health I 402

CCP
Half Year
.5 Credit
Gr. 9-12

The Health I course is designed for students to develop the essential health skills necessary to adopt, practice, and maintain health-enhancing behaviors. Students will be taught functional health information related to: Personal Health and Skills, Mental and Emotional Health, First Aid, CPR and AED, Alcohol, Tobacco, and Other Drugs, Nutrition, and Human Sexuality. The goal of this course is to shape personal values and beliefs that support healthy behaviors and lifestyles.

Health II 412

CCP
Half Year
.5 Credit
Gr. 10-12

The Health 2 course will expand upon skills and knowledge developed in Health I. Students will be required to apply functional knowledge in the classroom and community setting. The skills based units will include topics of: Eating Disorders, Addiction and Recovery, Healthy Relationships, Dating Violence, Environmental Health, and basic fitness concepts. The goal of this course is to help support students develop healthy behavior changes to live a healthier life.
Prerequisite: Successful completion of Health I.

Introduction to Physical Education

Grade 9 403
Grade 10-12 405

CCP
Half Year
.5 Credit

This is an introductory level course that will allow students to engage in a variety of physical activities including team sports, racket and net games, project adventure, as well as, recreational and leisure activities

Introduction to Fitness

Grade 9 414
Grade 10-12 415

CCP
Half Year
.5 Credit

This course will allow each student to develop the knowledge and skills needed to live an active, healthy lifestyle. This is an introductory course that will focus on the five components of physical fitness; cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition. The course will include, but will not be limited to, basic weight training techniques, walking/jogging programs, yoga, and more.

Advanced Strength Training and Conditioning 416

CCP
Half Year
.5 Credit
Gr. 9-12

This course is geared towards motivated individuals, who want to take their fitness training to the next level. The focus of this course will be advanced weight training techniques using Olympic style lifts; power clean, dead lift, split jerk, back squat, as well as other functional strength training exercises. This course will include speed and agility training utilizing bodyweight exercises, cone drills, and agility ladders. This course will also cover fitness based yoga to help improve flexibility. **Prerequisite: Successful completion of Introduction to Fitness and/or Departmental approval.**

Competitive Physical Education 417

CCP
Half Year
.5 Credit
Gr. 9-12

Students in this course will participate in a variety of team sports and leisure time activities. Emphasis will be on competitive game play rather than specific skill development. **Prerequisite: Successful completion of Introduction to Physical Education and/or Departmental approval.**

Unified/Adaptive Physical Education 418

CCP
Half Year
.5 Credit
Gr. 9-12

This course is designed for students who are interested in sharing their knowledge with students who need one-on-one assistance to succeed in a physical education setting. The course will allow the student the opportunity to work with special needs students to help them participate in a range of physical education activities. The course is an excellent choice for students considering careers in education or in working with the special needs population. **Prerequisite: Successful completion of Introduction to Physical Education and Departmental approval.**

Industrial Technology Department

The Industrial Technology Education Department provides problem-solving instruction and activities of experimenting, designing, constructing, and evaluating through the use of tools, computers, machines, materials, and processes. The applied knowledge and skills acquired through our courses will assist the student in making informed and meaningful school-to-career choices.

Course Descriptions:

Introduction to Industrial Trades 550

NL
Half Year
.5 Credit
Gr. 9-12

This course is designed to provide students with introductory learning in all fields of industrial arts. Woodworking, Welding/metal working, Automotive, Plumbing, Electrical, Power and Energy, HVAC, Masonry, Construction, CNC/CAD/CAM Hands on experiences as well as industry professionals demonstrating specific activities that are the staple to their industry will be explored by students. Students will have the foundations to enter a vocational program and be able to succeed in that selected trade.

Materials and Manufacturing / Wood Tech I 577

NL
Half Year
.5 Credit
Gr. 9-12

This course is designed to give students interested in this area a sample of various forms of woodworking. Students will cover basic skills and proper safety in the areas of hand tools, power tools, machines, CNC, woodturning and cabinetry.

Materials and Manufacturing / Wood Tech II 579

NL
Half Year
.5 Credit
Gr. 10-12

Students will participate in the problem-solving process to construct various advanced projects using CNC technology, and a variety of manufacturing processes. **Prerequisite: Materials & Manufacturing / Wood Technology I or Departmental approval.**

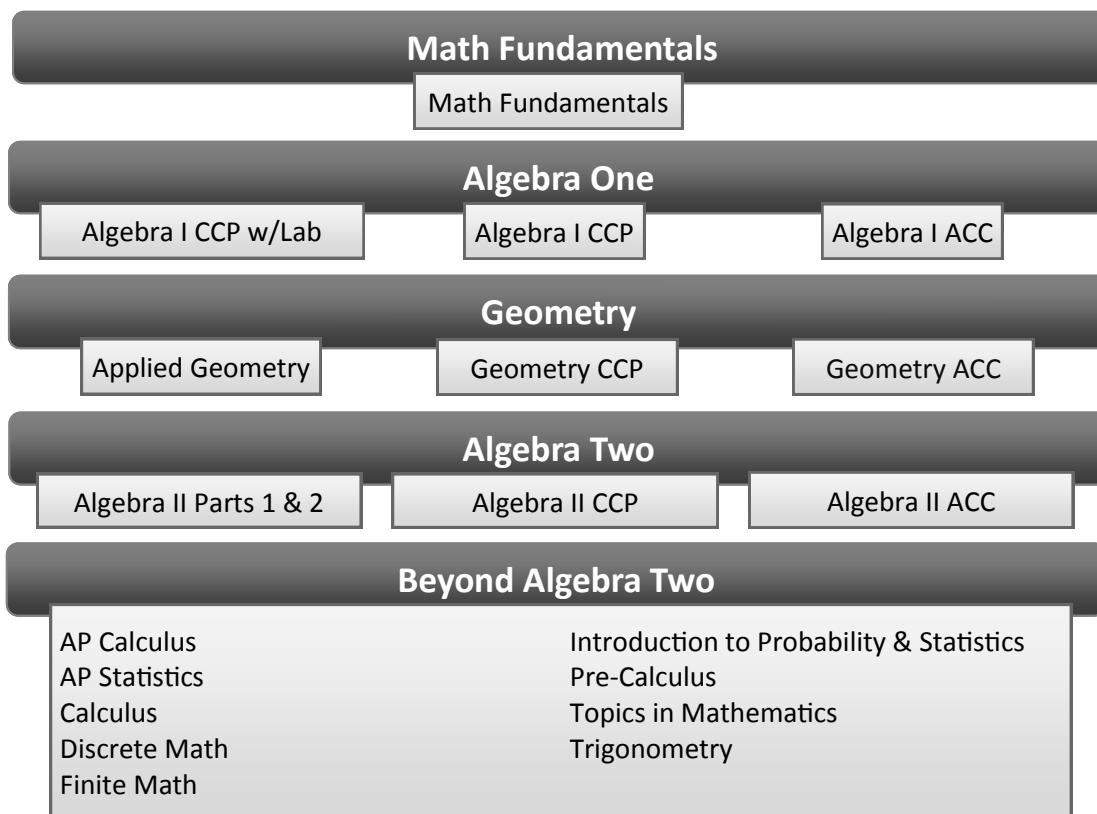
Materials and Manufacturing / Wood Tech III 580A

ACC
Half Year
.5 Credit
Gr. 11-12

Advanced students will challenge themselves to create masterful woodworking projects. Students will use their knowledge to benefit the entry level student with one on one interaction. Higher expectation to learn must be used by all advanced students to better improve themselves as craftsman. **Prerequisite: Materials & Manufacturing / Wood Technology II or Departmental approval.**

Mathematics Department

In *Math Matters: The Links Between High School Curriculum, College Graduation, and Earnings*, Heather Rose and Julian R. Betts find a strong relationship between taking advanced math courses in high school and earnings ten years after graduation. By its very nature, mathematics lends itself to applications in many different disciplines. A working knowledge of mathematics is a necessity for life. The process of acquiring and utilizing math skills and concepts increase the potential for each student to be successful in any career. All students should consult their mathematics teachers for assistance in determining the sequence of their math courses. The math curriculum is written under the guidance of the Common Core State Standards, which are embedded in the New Hampshire College and Career Ready Standards.




Course Descriptions:

Math Fundamentals		603	Algebra I - ACC		607
CCP	Math Fundamentals is designed to provide students a solid foundation to students before they pursue the study of Algebra I. In this highly differentiated program, students will review a variety of fundamental, pre-algebraic, and algebraic concepts and skills. Students will also develop their organizational, study, and test-taking skills, as well as the habits of mind and math practices that support success in future math classes. Notes: This course is open only to students by recommendation. This course does not fulfill the Algebra I Requirement.		ACC	Algebra I - ACC will move at a fast pace and is designed for students who have strong mathematical skills and excellent study habits. Students will develop problem-solving skills through the use of algebra, functions, relations, and analysis. They will become fluent in algebraic simplification, solving equations, inequalities, and systems, and analyzing and transforming both linear and non-linear functions. Models, tables, equations, and graphs will form a basis for interpreting and analyzing data. Students will be expected to effectively communicate their processes both orally and in writing, to critique the reasoning of others, and to solve open-ended and non-routine problems. This course solidifies the foundation for all future math courses.	
Full Year			Full Year		
1 Credit			1 Credit		
Gr. 9			Gr. 9		



Algebra I - CCP 609

CCP
Full Year
1 Credit
Gr. 9



Students in Algebra I - CCP will develop problem-solving skills through the use of algebra, functions, relations, and analysis. Students will become fluent in algebraic simplification, solving equations, inequalities, and systems, and analyzing and transforming both linear and non-linear functions. Models, tables, equations, and graphs will form a basis for interpreting and analyzing data. Students will be expected to effectively communicate their processes both orally and in writing and to critique the reasoning of others. This course solidifies the foundation for all future math courses.


Algebra Lab 610

NL
Full Year
1 Credit
Gr. 9

This course will run concurrent with Algebra I - CCP classes. Students are assigned to the Algebra Lab based upon teacher recommendations. This Lab course is aligned conceptually and chronologically to the Algebra I - CCP course and provides students with the extra instruction and practice needed to be successful in Algebra I. **Note: This course does not fulfill graduation requirements for students in mathematics.**

Geometry - ACC 613


ACC
Full Year
1 Credit
Gr. 9-10



Geometry - ACC is a rigorous course that involves students in a comprehensive study of geometric figures and relationships. Many aspects of geometry are included: theory and application; informal and formal reasoning; symbolic and visual thinking; synthetic, coordinate and transformational methods. Students will form conjectures, which are justified by logical reasoning (proof), with students gradually learning the necessary skills to produce convincing arguments. **Prerequisite: Eighth grade team placement for students entering ninth grade.**

Geometry - CCP 615

CCP
Full Year
1 Credit
Gr. 10-12



Geometry - CCP engages students in the study of geometric figures and relationships. It integrates algebraic skills with the study of shape, size, congruence, similarity, ratio, and proportion and deals primarily with plane figures. Students will use theory and application, informal and formal reasoning, symbolic and visual thinking, as well as synthetic, coordinate and transformational methods. Inductive and deductive reasoning will be incorporated for students to experience the logical reasoning process and presentation of sound arguments. **Prerequisite: Successful completion of Algebra I.**


Applied Geometry 616

CCP
Full Year
1 Credit
Gr. 10-12

This course is designed to support students who have had difficulty with the Algebra I concepts. Applied Geometry will engage and challenge students with all the topics presented in a traditional geometry program. These topics include angle and segment measurement, triangles, quadrilaterals, congruency, parallelism, similarity, circles, and an introduction to trigonometry. The program is designed to appeal to all learners with topics introduced by using hands-on activities that reflect real-life applications. Technological tools and Internet-based resources will be an integral part of classroom activities. **Prerequisite: Successful completion of Algebra I.**

Algebra II - ACC 619


ACC
Full Year
1 Credit
Gr. 10-12



Algebra II - ACC is a rigorous, in depth course in the study of functions and applications that model real life situations. Students will refine skills from Algebra I to develop a deeper understanding of the axiomatic system with emphasis on the concepts of sets, functions, graphical representations, and problem solving. **Prerequisites: Successful completion of Algebra I and Geometry.**

Algebra II - CCP 621


CCP
Full Year
1 Credit
Gr. 10-12



Algebra II - CCP is the study of functions and applications that model real life situations. Students will review and refine skills from Algebra I to develop and improve their understanding of sets, functions, graphical representations, and problem solving. **Prerequisites: Successful completion of Algebra I and Geometry.**

Algebra II—Part 1 637

CCP
Full Year
1 Credit
Gr. 11-12



The course provides the student with the basic algebra manipulation skills needed to compute solutions. The algebra topics offered are signed numbers, polynomial operations, solutions of linear equations and inequalities involving numerical and literal terms, factoring polynomials, word problems, formula manipulation, graphing linear equations, systems of linear equations and equations by factoring or the quadratic formula as well as quadratic equations and exponential functions. **Prerequisites: Successful completion of Algebra I and Geometry.**

Algebra II—Part 2

CCP
Full Year
1 Credit
Gr. 11-12

This full-year course is designed to follow Algebra II Part 1. Students complete their study of Algebra II, including exponential, logarithmic, power, and periodic functions. Students will improve their understanding of sets, functions, graphical representations, and problem-solving.

Prerequisite: Successful completion of Algebra II Part 1.



Discrete Mathematics (SNHU Dual Enrollment opportunity) 635

ACC
Full Year
1 Credit
Gr. 11-12

Discrete Mathematics is the study of objects and ideas that can be divided into discontinuous parts and is needed for the investigation of settings where functions are defined on finite sets of numbers. Problems in discrete mathematics can be categorized as existence, counting, or optimization problems. In this challenging course, students will study a broad range of concepts, including operations on sets, logic, truth tables, proofs, counting, relations and digraphs, functions, trees and graph theory. A significant goal of this course is to improve students' critical-thinking and problem-solving skills. **Prerequisite: Successful completion of Algebra II or Departmental approval.**



Finite Mathematics 639

CCP
Full Year
1 Credit
Gr. 11-12

Finite Mathematics provides a survey of mathematical analysis techniques used in the working world. Students will gain valuable experience organizing and analyzing information, with an emphasis on using math to solve real-world problems. Areas of study include matrices, linear programming, combinatorics, probability, statistics, logic, and finance. This course will include significant use of the graphing calculator, which is required for this course (TI-84 calculator is recommended). **Prerequisite: Successful completion of Algebra II or Departmental approval.**



Introduction to Probability and Statistics 632

CCP
Half Year
.5 Credit
Gr. 11-12

This course is designed to provide students with the fundamental concepts in statistical analysis. Topics will include descriptive statistical concepts and methods, inferential statistical concepts and methods, probability, simulation, binomial and normal distributions and their application, hypothesis testing and confidence. Applications are emphasized throughout the course. **Prerequisites: Successful completion of Algebra II or Departmental approval.**



Topics in Mathematics

CCP
Full Year
1 Credit
Gr. 11-12

In today's society, individuals need both knowledge and mathematical skills in order to make informed decisions. In this course, students will study topics regarding financial literacy, such as personal finance, purchasing, and investment; statistics, such as professional athletics and voting; and workplace, such as construction and budgeting. Students will develop and apply the math skills needed to successfully navigate these topics in the real world. **Prerequisite: Successful completion of Algebra II or Departmental approval.**

Trigonometry 631

CCP
Half Year
.5 Credit
Gr. 11-12

Trigonometry is a rigorous, in depth semester course in the study of triangle measurements, comparisons of these, and relating a right triangle and circle to study the unit circle. Students will utilize many skills developed in Algebra 2 and refine those not yet fully developed with emphasis on the concepts of estimating trig answers, precise answers, graphs of the trig functions, writing equations of trig graphs, and real life applications of trig to include both right and oblique triangle trig. **Prerequisite: Successful completion of Algebra II or Departmental approval.**



Pre-Calculus 629

ACC
Full Year
1 Credit
Gr. 11-12

Pre-Calculus is a course that extends and integrates the learning from both Geometry and Algebra 2 courses. It provides an in-depth, rigorous study of functions and their properties. Functions to investigate include Linear, Quadratic, Polynomial, Rational, Radical, Piece-wise, Exponential, Logarithmic, and Trigonometric. Representations and analysis of these topics will occur numerically, algebraically, and/or graphically (both with & without technology). Additional topics to be covered as time permits include Vectors, Law of Sines & Cosines, Polar Coordinate System, Parametric Equations, Analytic Geometry, and Sequences & Series. **Prerequisite: Successful completion of Algebra II or Departmental approval.**



Calculus 640

ACC
Full Year
1 Credit
Gr. 12

Topics to be studied include limits of functions, the derivative, and definite and indefinite integrals. Applications of the derivative and integral will be emphasized. This course will include frequent use of the graphing calculator, which is required for this course (TI-84 calculator is recommended). **Prerequisite: Successful completion of Pre-Calculus or Departmental approval.**



For more information on dual enrollment opportunities, please see pg. 10

AP
Full Year
1 Credit
Gr. 12

Topics discussed will include limits and continuity, the derivative and definite integral with applications of both concepts, transcendental functions, techniques of integration and factors. A packet of summer review work will be required. The course will include significant use of the graphing calculator as aligned with the expectations of the College Board for the Advanced Placement Exam. Students may receive college credit for this course by successfully passing the AP Exam in May (a course expectation). Summer work is required.

Prerequisite: Successful completion of Pre-Calculus or Departmental approval.



AP
Full Year
1 Credit
Gr. 12

AP Statistics immerses students with the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will frequently work on projects involving the hands-on gathering and analysis of real world data. Ideas and computations presented in this course have immediate links and connections with actual events, experiments and research. Computers and calculators will assist students in their deepened work on the concepts involved in statistics. Students may receive college credit for this course by successfully passing the AP Exam in May (a course expectation). Summer work is required. **Prerequisite: Successful completion of Pre-Calculus or Probability & Statistics or Departmental approval.**



Music Department

The curriculum of the Timberlane Regional High School Music Department is built on the philosophy of providing a comprehensive program for the involvement of persons of all ages in learning music. Our goal is to build a vital musical culture and an enlightened musical public. The curriculum is designed to provide a program of study that correlates performing, creating, and listening to music, and encompasses a diversity of musical behaviors. It is designed to advance the teaching of music of all periods, styles, forms, and cultures. The curriculum offered provides the opportunity for every student at Timberlane, no matter what his/her musical background, to select an offering at his/her particular level of musical knowledge.

Course Descriptions:

Band 057

NL
Full Year
1 Credit
Gr. 9-12

Instrumental Performing Arts Band consists of three families of instruments: woodwinds, brass, and percussion. The ensemble is divided into numerous groups throughout the year such as: marching band, concert band, small ensembles, and soloists. The band performs at all football games, two major concerts, competitions, major trips, and parades. Students in all groups are expected to be at all rehearsals and performances and be willing to give additional independent practice at home. **Prerequisite: Director's approval.**

Orchestra 058

NL
Full Year
1 Credit
Gr. 9-12

Instrumental Performing Arts Orchestra prepares string orchestra as well as full orchestra repertoire. The string orchestra instrumentation consists of students performing violin, viola, cello or bass violin and piano only. Winds, brass, and percussion are drawn from the I.P.A. Band when full orchestra works are prepared. The orchestra participates in all school concerts, large group competition, and all major trips. Students are expected to be at all rehearsals and performances and be willing to give additional independent practice at home. **Prerequisite: Director's approval.**

Concert Choir 055

NL
Full Year
1 Credit
Gr. 9-12

The Concert Choir is offered to all students. Students enrolled in Concert Choir must accept the responsibility that comes with participation in a large musical ensemble. Through the performance of all types of literature, students will come to appreciate the enjoyment of singing choral music from the classics to contemporary music. The Concert Choir will perform three major concerts, competitions, and school and community functions. **Prerequisite: Director's approval.**

Jazz Band - ACC 061

ACC
Half Year
.5 Credit
Gr. 9-12

Jazz Band students are selected by the Band Director in April. Every student wishing to be in Jazz Band should express this to the Band Director by March 1 of the year previous in which the course will be taken. Students chosen for Jazz band are selected on their musical abilities in band, with the exception of those wishing to play electric guitar, piano, and electric bass. Students who play the latter instruments mentioned should see the Band Director immediately to arrange for an audition. Jazz Band will perform jazz concerts, assemblies, competitions, trips when applicable, and other activities where Jazz Band would be suitable. **Prerequisite: Director's approval.**

Jazz Band—CCP 062

CCP
Half Year
.5 Credit
Gr. 9-12
Jazz Band students are selected by the Band Director in April. Every student wishing to be in Jazz Band should express this to the Band Director by March 1 of the year previous in which the course will be taken. Students chosen for Jazz band are selected on their musical abilities in band, with the exception of those wishing to play electric guitar, piano, and electric bass. Students who play the latter instruments mentioned should see the Band Director immediately to arrange for an audition. Jazz Band will perform jazz concerts, assemblies, competitions, trips when applicable, and other activities where Jazz Band would be suitable. **Prerequisite: Director's approval.**

Survey of Music 051

CCP
Half Year
.5 Credit
Gr. 9-12
Music is all around us. There are not many moments in any given day when we are not influenced by music, yet the understanding of music is a mystery that only a select few seem to understand. This should not be true. Music is enjoyable and meant for all. This course will consist of the study of electronic music, listening, theory, history, hands-on experiences with instruments, the human voice, and acoustics of music. Through this course, all will gain a greater understanding of music and be more discriminating listeners in the future.

Theory I 063

ACC
Half Year
.5 Credit
Gr. 9-12
Students will study the fundamental elements of music; melodic, rhythmic, and harmonic, through hearing, playing, and the writing of material. Development of sight singing, and aural training in scales, intervals, and rhythmic patterns will be taught. **Prerequisite: Instructor's approval.**

Theory II 065

ACC
Half Year
.5 Credit
Gr. 9-12
In addition to the materials discussed in Theory I, the students will have individual projects in the areas of arranging and orchestration. Theory II is a continuation of Theory I, which is a prerequisite for this course. **Prerequisite: Successful completion of Theory I.**

Introduction to Basic Guitar 067

CCP
Half Year
.5 Credit
Gr. 9-12
In this course, the student will learn how to play guitar. Involved will be class instruction in the basic elements of music theory, which will include: scale and chord construction; basic harmony and rhythm; and strumming with pick and finger picking. Due to the nature of this offering, class size will be limited to 15 and students will use ONLY ACOUSTIC GUITARS. **Prerequisite: Students must provide their own acoustic or folk guitar and have no formal guitar experience.**

Guitar II 069

CCP
Half Year
.5 Credit
Gr. 9-12
This course will be a continuation of Intro to Basic Guitar. Guitar II will involve more intermediate and advanced theory including scale and chord construction as well as intermediate harmony and rhythm studies. Guitar II will emphasize classical guitar performance techniques. Due to the nature of this offering, class size will be limited to 15 and students will use ONLY ACOUSTIC GUITARS. Students may contract for accelerated credit. **Prerequisite: Successful completion of Intro to Basic Guitar or Director's approval. Each student must provide his/her own acoustic or folk guitar.**

Guitar Orchestra 070

NL
Full Year
1 Credit
Gr. 9-12
Guitar Orchestra prepares guitar students in popular and classical music literature. Guitar Orchestra will consist of acoustic guitars only and will be supplemented bass and baritone guitars supplied by the district. Guitar Orchestra will participate in three annual school concerts. **Prerequisite: Successful completion of Guitar II or Director's approval. Each student must provide his/her own acoustic or folk guitar.**

Select Ensemble 056

ACC
Full Year
1 Credit
Gr. 10-12
Select Ensemble students will be selected by the Chorus Director in September. Every student wishing to be in the Select Ensemble should express this to the Chorus Director by March 1, of the previous year. Students chosen for the Select Ensemble will perform in all concerts, assemblies, competitions and trips where applicable and other activities where the Select Ensemble would be suitable. **Prerequisite: Director's approval.**

Science Department

In planning a course of study in science, each student should consider graduation requirements, educational and career goals, and individual interests. The Timberlane Science Department offers core courses in physical and life sciences and half-year electives in life and earth sciences to support the needs, goals, and interests of Timberlane students. Using laboratory and fieldwork to support classroom instruction and discussion each course develops an appreciation for the nature of science and critical skills for scientific thought, conceptual understanding, experimentation, data acquisition, analysis skills, and facility in communicating experimental results. Courses are offered at College & Career Prep., Accelerated, and Advanced Placement levels to accommodate individual differences in learning style and goals. Students contemplating Accelerated level courses should ensure that they elect a mathematics program of equal rigor. Students and their parents are encouraged to discuss their programs with faculty members early in their careers. The Science Curriculum is written in adherence with the New Hampshire Department of Education Curriculum Frameworks for Science.

Course Descriptions:

Physical Science - ACC 705

ACC
Full Year
1 Credit
Gr. 9

Physical Science –ACC provides a comprehensive introduction to the foundational concepts of physics and chemistry and serves as a prerequisite for other science courses. Students are expected to work independently on rigorous problem-solving challenges that apply physical science concepts.



Physical Science - CCP 707

CCP
Full Year
1 Credit
Gr. 9

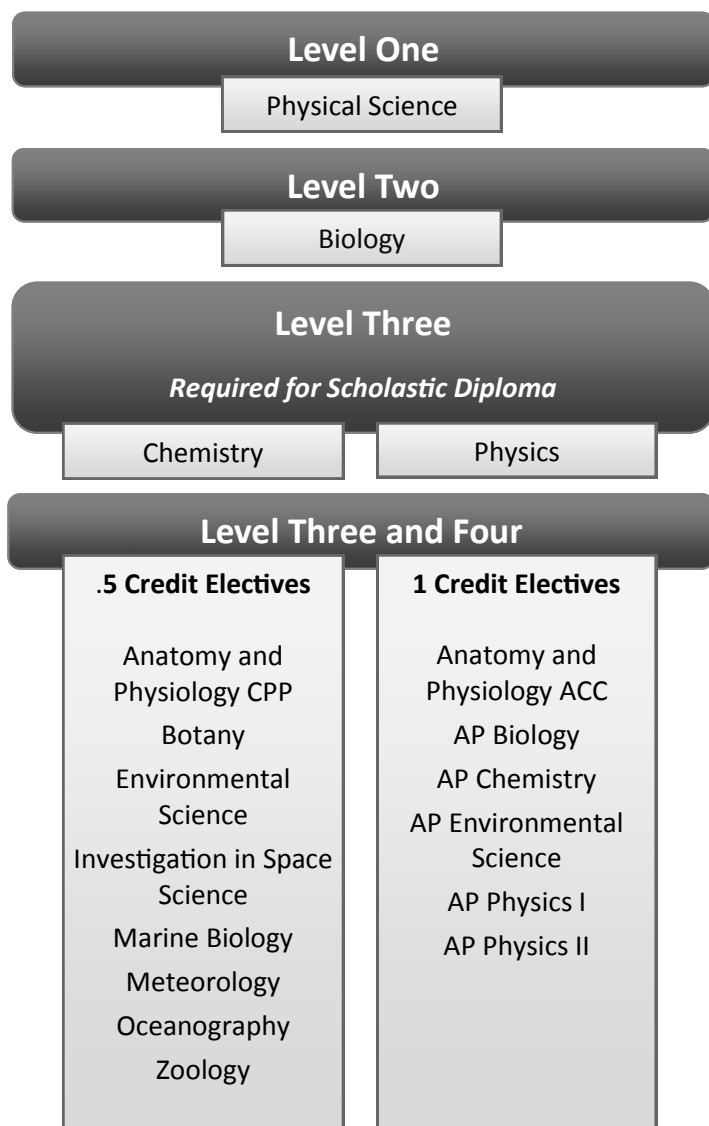
The purpose of this course is to provide a comprehensive introduction to the foundational concepts of physics and chemistry. This course is designed to serve as a prerequisite for other science courses.



Physical Science/Biology (Integrated) - ACC

ACC
Full Year
2 Credits
Gr. 9

This is a year-long set of integrated course that specifically sequences physical science (fundamentals of physics and chemistry) and biology to maximize the learning concepts within both course. Physical science is examined in detail in the fall and biology in the spring, with strategic overlap between the two sciences as the year progresses. The nature of science, inquiry based lab techniques, modeling, lab notebook writing, and formal lab report writing skills are emphasized. This course is recommended for students with strong science and mathematics skills that plan to pursue science at the upper levels and want to take biology in their freshman year. **Prerequisites: Science and Algebra I grades of a B or better with a recommendation from the Middle School or Departmental approval for students who are concurrently enrolled in Algebra I—ACC.**



Biology - ACC**709**

ACC
Full Year
1 Credit
Gr. 9-12



Biology - ACC is an intensive laboratory-based course studying characteristics of life, cell structure and function, cell reproduction, DNA as the hereditary material, principles of genetics, evolution, a survey of the kingdoms of life, the classification of life diversity and ecology. Students will be expected to partake in independent projects, written work, class work, class discussions and independent student centered laboratory activities. Students taking this course are expected to carry out more independent work both in and out of the classroom.

Biology - CCP**711**

CCP
Full Year
1 Credit
Gr. 10-12



Biology is a laboratory-based course studying characteristics of life, cell structure and function, cell reproduction, DNA as the hereditary material, principles of genetics, evolution, a survey of the kingdoms of life, the classification of life's diversity and ecology. Students will be expected to partake in projects, class work and laboratory activities.

Applied Biology - CCP**713**

CCP
Full Year
1 Credit
Gr. 10-12

Applied Biology is a laboratory-based course studying characteristics of life, cell structure and function, cell reproduction, DNA as the hereditary material, principles of genetics, evolution, a survey of the kingdoms of life, the classification of life's diversity and ecology. Students will be expected to partake in projects, classwork, and laboratory activities. This course is designed to support students through hands-on activities, and explicit differentiation for their needs. **Prerequisite: Departmental and Guidance approval required.**

Chemistry - ACC**727**

ACC
Full Year
1 Credit
Gr. 10-12



Accelerated Chemistry includes the study of the nature of matter, energy, chemical change, stoichiometry, periodicity, atomic structure, behavior of gases, liquids and solids, chemical bonding, acids and bases, thermo dynamics, kinetics, electrochemistry, and equilibrium. Data acquisition and analysis skills are emphasized through laboratory work. Algebra is extensively used for Problem solving. Completion of/or concurrent registration in Algebra II is recommended.

Chemistry - CCP**729**

CCP
Full Year
1 Credit
Gr. 10-12



Chemistry is a laboratory-based course dealing with the study of matter, atomic structure, formula and equation writing, chemical reactions, states of matter, gas laws, chemical bonding, acids, bases and pH, equilibrium and environmental chemistry. Algebra is extensively used for problem-solving.

Physics/Chemistry (Integrated) - ACC

ACC
Full Year
2 Credits
Gr. 10-12



This is a year-long set of integrated courses that sequences physics and chemistry to maximize learning concepts within both courses. Physics is examined in detail in the fall and chemistry in the spring with strategic overlap between the two courses as we progress through the year. This course is recommended for students with strong science and mathematical skills. Algebra is extensively used for problem-solving. **Prerequisite: Successful completion of/or concurrent registration in Algebra II or Departmental approval.**

Physics - ACC**731**

ACC
Full Year
1 Credit
Gr. 10-12



This intensive course is designed for students preparing for a mathematical, scientific or engineering profession. This course incorporates both theory and laboratory work in the following topics: mechanics, electricity, wave motion, atomic physics, and modern physical theories. Data acquisition and analysis skills are emphasized through laboratory work. Algebra is extensively used for problem-solving. Completion of/or concurrent registration in Algebra II is recommended.

Physics - CCP**733**

CCP
Full Year
1 Credit
Gr. 10-12



Physics CCP is intended to provide students with a comprehensive study involving theory and laboratory work in the following topics: mechanics, dynamics, circular motion, electricity and modern physical theories. Algebra is extensively used for problem-solving.

Applied Physical Science—CCP**708**

CCP
Full Year
1 Credit
Gr. 11-12

This course meets the graduation requirements for junior or senior year students who do not have a credit in Physical Science. It is not open to a student who has passed Physical Science or the equivalent.

Botany - ACC

743A

ACC
Half Year
.5 Credit
Gr. 10-12



This half-year, laboratory based course will cover the basic structure and function of plants; including plant cell, tissue, and organ systems. The course will explore topics such as plant diversity, plant anatomy, evolutions of plants, plant pest and disease relationships, ecology, and fruit and flower formation. This in-depth course is designed for students who are considering future endeavors in biological sciences. Students will gain experience in plant classification, field studying, and lab-based research. **Prerequisite: Grade of 'B' or better in Biology—ACC or Departmental approval.**

Botany - CCP

743

CCP
Half Year
.5 Credit
Gr. 10-12

This half-year, laboratory based course will cover the basic structure and function of plants; including plant cell, tissue, and organ systems. The course will explore topics such as plant diversity, plant anatomy, ecology, and fruit and flower formation. This course is designed for students interested in gaining hands on experience in handling, collecting, and growing plants. **Prerequisites: Successful completion of Physical Science and Biology.**

Environmental Science - ACC

722

ACC
Half Year
.5 Credit
Gr. 10-12



This course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Students will take part in ecological field work, perform laboratory investigations, and undertake independent research. **Prerequisite: Student will have completed Physical Science and Biology or Departmental approval.**

Environmental Science - CCP

721

CCP
Half Year
.5 Credit
Gr. 10-12



This course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Students will take part in outdoor laboratory experiences and gain hands-on experience in environmentally related topics. **Prerequisite: Student will have completed Physical Science and Biology or Departmental approval.**

Human Anatomy and Physiology - ACC

715

ACC
Full Year
1 Credit
Gr. 10-12



This course offers a systematic exploration of the major systems of the human body, including structure (anatomy) and function (physiology). Using microscopes to view cells and tissues and anatomical models to study organs and organ systems, students collaborate in small groups as well as work independently to better comprehend human structure and function. A combination of teacher presentations, lab activities and online resources are used to learn about the integumentary, skeletal, muscular, digestive, respiratory, cardiovascular, excretory, reproductive and other body systems. There is an expectation that students will demonstrate a high level of individual preparation and independent study. **Prerequisite: Successful completion of Biology ACC.**

Human Anatomy and Physiology - CCP

717

CCP
Half Year
.5 Credit
Gr. 10-12



This course offers a systematic exploration of the major systems of the human body, including structure (anatomy) and function (physiology). Using microscopes to view cells and tissues and anatomical models to study organs and organ systems, students collaborate in small groups as well as work independently to better comprehend human structure and function. A combination of teacher presentations, lab activities and online resources are used to learn about the integumentary, skeletal, muscular, digestive, respiratory, cardiovascular, excretory, reproductive and other body systems. Discussion related to concepts and key understanding of topics will be initiated and reviewed in class. **Prerequisite: Successful completion of Biology or Departmental approval.**

Introduction to Meteorology

723

CCP
Half Year
.5 Credit
Gr. 10-12



This course provides a survey of weather study including topics such as history of weather observations, atmospheric structure and composition, earth-sun relationships, air pressure and winds, cloud formation, air masses and resulting precipitation. Weather phenomena, such as hurricanes and tornadoes are investigated and the study of climates is introduced. **Prerequisite: Successful completion of two years of science.**

Investigations in Space Science

745

ACC
Half Year
.5 Credit
Gr. 11-12



This half year elective will focus on student interests in many aspects of space science. Students will be investigating current research, laws, and theories about the Universe and beyond. Topics also may include specific aspects of our solar system and man's travel and research within. Students will be expected to participate in class discussions, projects, presentations and traditional labs, quizzes, tests and research assignments. **Prerequisites: Successful completion of Physical Science, Biology and Physics.**

Marine Biology**739**

ACC
Half Year
.5 Credit
Gr. 10-12

This course will introduce the major marine biomes and the inhabitants of each. Emphasis will be on wildlife and fisheries management issues designed to sustain the viability of these biomes through the 21st Century. A variety of audio-visual materials will supplement lectures, discussions, and required papers or projects.

Prerequisite: Grade of 'B' or better in Biology—ACC or Departmental approval.

**Oceanography****741**

ACC
Half Year
.5 Credit
Gr. 10-12

The purpose of this course is to examine the oceans and the processes that influence them. Topics will include the history of oceanography, the influence of oceans on human culture, the chemistry of seawater, currents, waves, tides, and shore- lines. The geology of the sea floor is examined. Resources from the ocean and problems of sustainability will be emphasized. The course is multi-disciplinary with links to other discipline areas; independent study and projects are required.

Prerequisites: Successful completion of Biology; completion of or concurrent registration in Chemistry or Physics; or Departmental approval.

**Zoology - ACC****744A**

ACC
Half Year
.5 Credit
Gr. 10-12

The in-depth classification, anatomy and physiology of vertebrates is presented in a comparative phylogenetic manner. Topics include vertebrate evolution, cladistics, vertebrate development, evolutionary pressures, and various body systems and their evolutionary significance. This course is an in-depth study designed for students considering a career in science. Student dissection of various examples of vertebrates is required.

Prerequisite: Grade of 'B' or better in Biology—ACC or Departmental approval.

**Zoology - CCP****744**

CCP
Half Year
.5 Credit
Gr. 10-12

The classification, anatomy and physiology of vertebrates is presented in a comparative manner. Topics include vertebrate evolution, vertebrate development, and various body systems and their organs. Student dissection may be required.

Prerequisites: Successful completion of Physical Science and Biology.

AP® Biology**737**

AP
Full Year
1 Credit
Gr. 11-12

Advanced Placement Biology meets the objectives of a general biology course at the college level. Students are challenged in the areas of biochemistry, cell structure and function, genetics, evolution, basic botany and zoology, vertebrate physiology, and ecology presented in detail. Since classroom time is limited, independent study and supplemental reading are required. Students who select the course are required to take the AP exam in May.

Prerequisite: Successful completion of Biology and Chemistry, or Departmental approval.

**AP® Chemistry****(SNHU Dual Enrollment opportunity)****735**

AP
Full Year
1 Credit
Gr. 11-12

The purpose of this course is to offer ambitious students the challenge of a college level Chemistry program. The course follows the recommendations of the College Board and includes selected enrichment topics. The content is advanced and strong mathematical skills are needed. Since classroom time is limited, independent study and supplemental reading are required. Students who select the course are required to take the AP exam in May.

Prerequisites: Successful completion of Physical Science, Biology, Chemistry and Algebra II, or Departmental approval.

**AP® Environmental Science****(SNHU Dual Enrollment opportunity)****742**

AP
Full Year
1 Credit
Gr. 11-12

The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human- made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Yet there are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. Students who select the course are required to take the AP exam in May.

Prerequisites: Grade of 'B' or better in Biology—ACC and Chemistry—ACC or Departmental approval.



For more information on dual enrollment opportunities, please see pg. 10.

AP® Physics I
(SNHU Dual Enrollment opportunity) 734

AP
Full Year
1 Credit
Gr. 11-12



The course offers ambitious students the opportunity to do college level work in physics without the prior knowledge of calculus. The course follows the recommendations of the College Board, and includes selected enrichment topics in classical physics. The objectives of the course are to understand the basic principles and apply these principles in solving problems. General areas to be covered include: Newtonian mechanics, rotational motion, work, energy, power, mechanical waves, sound, electrostatics, and introductory DC circuits. Since classroom time is limited, independent study and supplemental reading are required. Students who select the course are required to take the AP exam in May. **Prerequisite: Algebra II and Departmental approval.**

AP® Physics II
(SNHU Dual Enrollment opportunity) 734A

AP
Full Year
1 Credit
Gr. 11-12

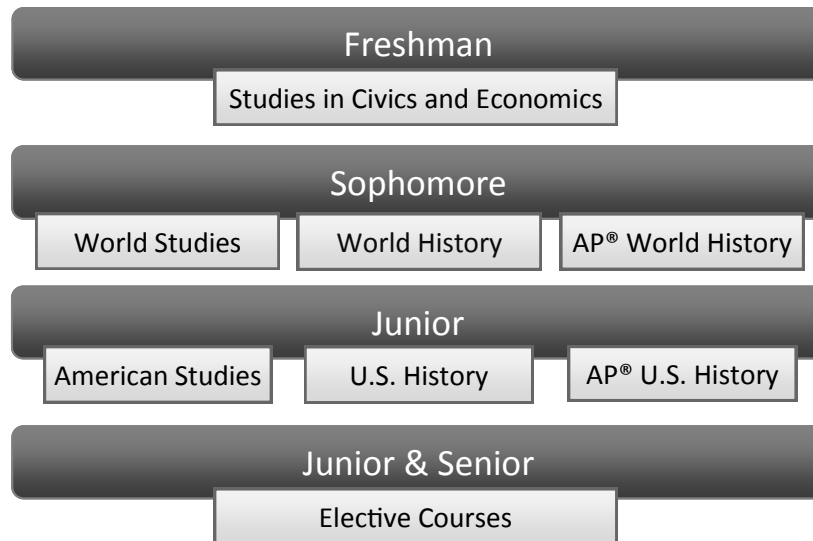


The course offers ambitious students the opportunity to do college level work in physics without the prior knowledge of calculus. The course follows the recommendations of the College Board, and includes selected enrichment topics in classical and modern physics. The objectives of the course are to understand the basic principles and apply these principles in solving problems. General areas to be covered include: Thermodynamics, heat, kinetic theory, fluids, electrostatics, DC circuits, steady-state RC circuits, magnetism, induction, optics, quantum physics, and nuclear physics. Since classroom time is limited, independent study and supplemental reading are required. Students who select the course are required to take the AP exam in May. **Prerequisite: Successful completion of AP Physics I, Pre-Calculus, and Departmental approval.**

For more information on dual enrollment opportunities, please see pg. 10.

Social Studies Department

The mission of the Social Studies curriculum is to provide opportunities for students to develop a global perspective, foster democratic ideals, and understand economic theories. These opportunities will help students understand and appreciate their physical, multi-cultural world so that they may become enlightened and active citizens. The Timberlane graduate will be able to connect the knowledge obtained to personal experience and will apply these to issues in the ever-changing world. The Social Studies Curriculum is written in adherence to the New Hampshire Department of Education Curriculum Frameworks for Social Studies.



Course Descriptions:

Studies in Civics and Economics - ACC 803A

ACC
Full Year
1 Credit
Gr. 9



This is a full year integrated course that focuses on the connections between civics and economics at the local, state, national, and international levels. Students will study the reach and limits of power between state and federal governments. In addition, they will analyze the effectiveness and impact of economic and governmental decision making on citizens and markets. The course provides opportunities for students to examine how laws are used or challenged to address issues. Topic studied will include the relationship between federal and state governments with respect to citizens' rights, distribution of taxes, national defense, ensuring states' rights, and government sponsored programs. The course will examine the role that United States government plays in the national economy, international trade and global affairs. This course develops skills at an accelerated pace for students who want experiences that will prepare them for advanced work.

Studies in Civics and Economics - CCP 804C

CCP
Full Year
1 Credit
Gr. 9



This is a full year integrated course that focuses on the connections between civics and economics at the local, state, national, and international levels. Students will study the reach and limits of power between state and federal governments. In addition, they will analyze the effectiveness and impact of economic and governmental decision making on citizens and markets. The course provides opportunities for students to examine how laws are used or challenged to address issues. Topic studied will include the relationship between federal and state governments with respect to citizens' rights, distribution of taxes, national defense, ensuring states' rights, and government sponsored programs. The course will examine the role that United States government plays in the national economy, international trade and global affairs.

World History - ACC 806

ACC
Full Year
1 Credit
Gr. 10
World History - ACC builds upon the learning from the middle school curriculum and begins with a study of the Renaissance, moving into the Enlightenment, Age of Exploration and eventually into the 21st Century. This course includes units relating to events in Europe, Asia, Africa and the Americas. Students are asked to write extensively, using classroom learning, to interpret historical events. Analysis of primary sources, Internet and library-based research, field trips, readings from the text and other sources, film analysis, and classroom discussions are all possible learning techniques. Research-based presentations will be employed.



World History - CCP 811

CCP
Full Year
1 Credit
Gr. 10
World History - CCP builds upon the learning from the middle school curriculum and begins with a study of the Renaissance, moving into the Enlightenment, Age of Exploration and eventually into the 21st Century. This course includes units relating to events in Europe, Asia, Africa and the Americas. Students will be asked to use their classroom learning to interpret historical events. Analysis of primary sources, Internet and library-based research, field trips, reading from the text and other sources, film analysis and classroom discussions are all possible learning techniques.



World Studies 808

CCP
Full Year
2 Credits
Gr. 10
World Studies is an interdisciplinary course that combines history and literature. This course emphasizes the intricate thematic connections between history and the literature of historical periods. Analysis of historical sources and documents coupled with analysis of literature will be the main focus through writing and team-based projects. In addition to the study of history and literature, students will examine art, music, and philosophy related to the central themes studied in this course. This is a team-taught, double period course. It fulfills the graduation requirements for World History and World Literature. Students may contract for accelerated credit.



AP[®] World History 821

AP
Full Year
1 Credit
Gr. 10-12
All AP courses are college-level courses and students should be prepared for that level of rigor. Building upon the learning from the standard World History courses, the AP World History course develops greater understanding of the evolution of the global process and intercultural contact. This is achieved through a combination of selected factual knowledge and development of appropriate analytical skills. It emphasizes relevant factual knowledge used in conjunction with leading interpretive issues and types of historical evidence. Students may receive college credit for this course by taking the World History Advanced Placement Exam, which is an expectation. **Summer preparatory work is a required part of the course.**



United States History - ACC 807

ACC
Full Year
1 Credit
Gr. 11
United States History - ACC builds upon the learning from the middle school curriculum and begins with a study of the end of the Civil War. This course takes an in-depth look at the events of the last part of the 19th Century, all of the 20th Century, and uses that learning to analyze the events of the first decade of the 21st Century. Students will be asked to join in classroom discussions, read texts and other materials outside of class, think creatively, present learning to the class, and write extensively. The process of researching and writing a college-style term paper will be included in the course.



United States History - CCP 809

CCP
Full Year
1 Credit
Gr. 11
United States History - CCP builds upon the learning from the middle school curriculum and begins with a study of the end of the Civil War. This course takes an in-depth look at the events of the last part of the 19th Century, all of the 20th Century, and uses that learning to analyze the events of the first decade of the 21st Century. Students will be asked to join in classroom discussion, read outside of class, think creatively and write about their learning. A particular emphasis will be placed on the process of researching and writing a long-form paper.



American Studies 816

ACC/CCP
Full Year
2 Credits
Gr. 11
American Studies is an interdisciplinary course that combines historical evidence with an analysis of literature to answer essential questions concerning American culture. Through a variety of activities such as group projects, discussion, oral presentations, simulations, and analysis, students will be given an opportunity to connect the studies of history, literature, art, philosophy, and music. This two-period course meets the requirements for both United States History and American Literature courses. Students may contract for accelerated credit.



AP[®] United States History 819

AP
Full Year
1 Credit
Gr. 11-12
All AP courses have a level of rigor commensurate with a college-level course. Advanced Placement United States History is a chronological study of American History from Columbus to Clinton. The course emphasizes critical thinking, independent reading, research and extensive writing in the style of the AP exam. Should students achieve a score of 3, 4 or 5 on the Advance Placement exam (taking the exam is an expectation) they may receive a college credit. **Summer preparatory work is an additional requirement of the course.**



American Values in Film and Music 841

ACC/CCP
Half Year
.5 Credit
Gr. 11-12

This course used film and music to examine traditional and contemporary American values and ethical issues. Students will be able to explain how American values are represented in mass media and how they are perceived by outside sources. Personal traits of courage, love, family and integrity, in addition to social issues of racism, morality, freedom of religion, altruism and social justice will be explored. Because movies and television are filled with historical inaccuracies, the purpose of the course will not be to teach history but to use film and popular music as a vehicle for the students to examine and analyze society and themselves. Students may contract for accelerated credit.

Behavioral Psychology 840

ACC
Half Year
.5 Credit
Gr. 10-12

Behavioral Psychology is an accelerated semester long course designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields with psychology. Students also learn about the ethics and methods psychologists use in their science and practice. The course will include extensive reading, weekly writing assignments, lab work, and in-depth classroom discussions.

Constitutional Law 832

ACC
Half Year
.5 Credit
Gr. 11-12

Constitutional Law is a study of the courts in the American political system. The focus of the course is on one of the most vital aspects of politics; interpreting and applying the nation's fundamental rules. The case method is used to analyze constitutional topics including: governmental power, race and gender discrimination, equal protection of the law, rights of the accused, modern constitutional theories, the right to privacy, as well as the First Amendment rights of freedom of speech, press, expression and religion.

Cultural Geography 823

CCP
Half Year
.5 Credit
Gr. 10-12

This course deals with the interconnectivity of culture, politics, economics, religion, and human perception and regionalization. Students will recognize that places and regions serve as symbols for individuals and societies. Students will distinguish how cultural traits shape the characteristics of a region, analyze the increasing interdependence of the world's countries, and demonstrate how cooperation and conflict are involved in shaping the distribution of social, political, and economic spaces on Earth. Students will also explain the results of globalization and how changes in the physical environment can diminish its capacity to support human activity.

Current Issues 843

CCP
Half Year
.5 Credit
Gr. 10-12

This course will provide the students with a perspective of events and trends in the world as well as a contemporary view of history in the making. The development of communication, critical-thinking, decision-making, research and geography skills will center around strong student interaction. General topics include political, economic, and social trends, the environment, crime and international relations, and current world events.

Geography of Life 824

CCP
Half Year
.5 Credit
Gr. 11-12

This course concentrates on geographic systems, migrations, choices of people to adapt to the environment around them in order to survive and vice versa. Students will use geographic tools to depict geographic issues, explain the interaction of the Earth's physical systems, and be able to recognize the importance of ecosystems in understanding environmental issues. Students will identify modern world population trends in both, numbers and patterns characterized by regionalization. Students will explore how the use and development of natural resources use change over time.

History of Sports 833

ACC/CCP
Half Year
.5 Credit
Gr. 10-12

In this class students will gain knowledge about the historical origins and development of various sports in America as well as worldwide major political, social, cultural, economic, and intellectual concepts throughout the chronological history of sports. Students will understand why and how sports have become a popular cultural phenomenon. They will examine the historical context as well as the significance of gender, race, ethnicity and social class. Students will begin to recognize the influence that commercialization has within the sports world. This historical investigation will be done through readings, primary sources, audio and visual materials, research based individual and collaborative based projects, as well as class discussion.

Law 831

CCP
Half Year
.5 Credit
Gr. 10-12

This course studies the law from a practical, everyday viewpoint. Students will gain an understanding of their legal rights and responsibilities, knowledge of real life legal problems and the ability to analyze, evaluate, and in some cases, resolve legal disputes. The course will address general problems in the area of criminal, consumer, family, housing and individual rights law. Law will emphasize the application of New Hampshire State Law as well as law practiced throughout the United States.

Popular Culture

834

ACC/CCP
Half Year
.5 Credit
Gr. 10-12

This course provides an upper-level introduction to critical issues and approaches in the study of American popular culture. This includes defining popular culture and high culture using the student's own expertise as consumers of popular culture as a take-off point for exploring the various roles played by mass-mediated popular culture in our lives. Part of the task of this course will be to refine further the student's ability to read, research, evaluate, and synthesize materials from different disciplines into the student's own interdisciplinary analyses. The course will look primarily at television, film, advertising, stereotypes, popular music, and computer cyberculture, with occasional forays into other types of pop culture.

Psychology

839

CCP
Half Year
.5 Credit
Gr. 10-12

Psychology is the study of human behavior and the mental processes. The course emphasizes participation as a key component to understanding student's behavior and individual thought. The primary method of analysis will be explained by utilizing personal examples. Students will be expected to communicate the principles of each major psychology concept to their own emotions, motivations, and learning experiences. Lastly, students will be synthesizing unit information by both paraphrasing through outlining and presentation formats. Key topics of study include memory, personality, adolescence, social psychology (cognition and behavior), and abnormal psychology.

Social Science of Well-Being

845

ACC
Half Year
.5 Credit
Gr. 11-12

Simulated by ground-breaking research in the fields of Philosophy and Positive Psychology, both academia and popular media have seen an upsurge of interest in the "Social Science of Well-Being". What influences well-being? Can we measure happiness or peace of mind? What does the latest research and data tell us about the causes of happiness? How can we use the science of well-being to effect positive change in our lives? This course will explore these questions and more while examining the work of philosophers, sociologists, and psychologists from both the East and West who have pioneered the exploration of happiness. Students will examine recent discoveries in the field of the social sciences, reflect in their concrete implications, and consider strategies to integrate these new insights into their personal and professional lives.

Sociology

835

CCP
Half Year
.5 Credit
Gr. 10-12

Sociology is the study of societies, social groups, and the relationships between people. The field encompasses both the formation of particular societies and social groups, including their continuation, dissolution, and demise as well as the origins, structure and functioning of social groups. Students will learn the basic tools they need to develop a sociological imagination. The sociological imagination is the ability to see the connection between the larger social world and our personal lives. The development of the sociological imagination enables students to examine how society shapes human behavior and beliefs and how such actions and beliefs in turn shape society.

AP® European History

844

AP
Full Year
1 Credit
Gr. 12

The study of European history since 1450 introduces students to cultural, economic, political and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic impression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation and (c) an ability to express historical understanding in writing. Students are required to take the AP exam in May.


AP® Government

820

AP
Full Year
1 Credit
Gr. 12

All AP courses are college-level courses, and students should be prepared for that level of rigor. The Government course is a study of the American governmental system, including both the nuts and bolts of governing a nation and the influence of politics on decision-making. The course will include extensive reading, weekly writing assignments in the style of the AP exam, outside reading, and classroom discussions. Students may receive college credit for this course by taking the Government and politics US Advanced Placement Exam, which is an expectation. **Summer preparatory work is a required part of this course.**

AP
Full Year
1 Credit
Gr. 12



This course focuses student learning and study on the how and why of global human movement and interaction, its impact on our planet, and our understanding of it. Students will be introduced to the study of geography as a social science through emphasizing the relevance of geographic concepts to human problems. This course seeks to explore various geographic concepts related to human movement and interaction with the environment through the study of the five themes of Human Geography: Location, Human Environmental Interaction, Regions, Place and Movement. Students will critically explore the following topics in relation to human geography: Population, Migration, Cultural landscapes, identity, language, religion, political geography, urban geography, urban geography, development, agriculture, industry, human environment, and globalization. Students are required to take an AP exam in May.

Special Education Department

The purpose of Special Education is to provide services and supports to enable students with disabilities access to the high school curriculum as specified by their Individual Educational Program (IEP).

The Special Education Department consists of several different areas of support and instruction. These include specialized instruction toward IEP goals, assisted study hall, specialized reading classes, modified academic classes, Transitional Services, a Transitional Educational Program (TEP), a program for students with multiple physical and cognitive challenges (Intensive Needs), a program to support students with emotional disabilities, and a program to support students on the Autism Spectrum (ASD). Referral and placement into any of these programs/classes is through the Special Education Team process. Parents wishing more information concerning special education services should contact the Department of Special Education. (603) 382-6541 ext. 3930.

Course Descriptions:

Assisted Study		999	Reading		960
NL	This course is delivered in a special education setting. The student is provided with support for organizational skills, academic support, study skills, and specific skill development. Prerequisite: Special Education Team approval.	Half Year	NL	This special education course is designed for students with intensive special needs in grades 9-12. This course addresses individual student needs within the area of English following IEP goals/objectives, modifications, and accommodations. This modified course provides students with differentiated instruction within the area of daily living English skills. Students learn to apply their basic reading skills so they can better function in society and as a student. Instruction will rely heavily on the student's existing knowledge of language and will stress the integration of reading, writing, listening and speaking skills. Instruction and materials are individualized to maximize student success. The class does not fulfill an English requirement . Prerequisite: Special Education Team approval.	Full Year
NC Credit		1 Credit			
Gr. 9-12		Gr. 9-12			
Learning Center		900	TEP English I		964
NL	This course is delivered in a special education setting. It is designed to focus on the goals outlined in the student's individual educational program. Prerequisite: Special Education Team approval.	Half Year	CCP	This course is delivered in a special education setting while mirroring the regular education 9 th grade English curriculum with differentiated instruction and modifications for student needs. The course provides a solid foundation in English through an integrated approach to student growth in reading, writing, speaking and listening. The research process, composition, access to school library resources, investigation of a variety of literary genres, grammar and vocabulary will all be addressed throughout the course via four major topics: Self-Discovery, Role in Society, Human Nature, and Injustice vs. Justice. Prerequisite: Special Education Team approval.	Full Year
.5 Credit		1 Credit			
Gr. 9-12		Gr. 9			
Life Skills		980			
CCP	This special education course offers a structured, comprehensive curriculum that allows students with intensive special needs in grades 9-12 to work toward independence by learning functional life skills and academic skills. It provides a format for students to build their own life skills portfolios which they can pass down through the grades and can be used for their post-secondary experiences. The class may be taken as many times as needed. Prerequisite: Special Education Team approval.	Half Year			
.5 Credit					
Gr. 9-12					

TEP English II 965

CCP
Full Year
1 Credit
Gr. 10
This course is delivered in a special education setting while mirroring the regular education 10th grade World Literature curriculum with differentiated instruction and modifications for student needs. Students will confront literature that is chosen for its relevance as an expression of human thought and its relations to students' own experiences. Students will learn to research and analyze the texts, understand the societies from which they emerged, and recognize today's world. Literature will represent a variety of genres and cultural heritage. Vocabulary development, expository writing, analytical writing, research, class participation, and oral presentations will constitute the assessment of student performance. **Prerequisite: Special Education Team approval.**

TEP English III 966

CCP
Full Year
1 Credit
Gr. 11
This course is delivered in a special education setting while mirroring the regular education 11th grade American Literature curriculum with differentiated instruction and modifications for student needs. American Literature is a challenging course in which students will continue to develop their vocabulary, writing, research, and reading skills. A major research project and paper is an expectation of all students in this course. **Prerequisite: Special Education Team approval.**

TEP Portfolio Writing 967D

CCP
Half Year
.5 Credit
Gr. 12
This course is delivered in a special education setting while mirroring the regular education Portfolio Writing curriculum with differentiated instruction and modifications for student needs. Portfolio Writing is a writers' workshop that focuses on drafting, editing and revision skills, creation of a variety of writing forms, peer and teacher conferencing, oral presentations and analysis of a variety of short fiction and nonfiction reading selections. **Prerequisite: Special Education Team approval.**

TEP Short Story 967C

CCP
Half Year
.5 Credit
Gr. 12
This course is delivered in a special education setting while mirroring the regular education The Short Story and Its Writer curriculum with differentiated instruction and modifications for student needs. Students in this course will trace the development of the art of short story writing from the nineteenth century and twentieth century. Writing skills such as character development, construction of plot, point of view, setting, and figurative language, will be developed through analysis and practice. Creative writing, vocabulary study, and essay writing will be regular components of this course. **Prerequisite: Special Education Team approval.**

TEP Algebra I 969

CCP
Full Year
1 Credit
Gr. 9-10
This course is delivered in a special education setting while mirroring the regular Algebra 1 curriculum. It explores subjects ranging from the properties of real numbers through solving equations, linear systems, functions, graphing, and simplifying rational and radical expressions. **Prerequisite: Special Education Team approval.**

TEP Geometry 985

CCP
Full Year
1 Credit
Gr. 10-11
This course is delivered in a special education setting while mirroring the regular Geometry curriculum. It involves students in a comprehensive study of geometric figures and relationships including theory and application, reasoning, symbolic and visual thinking, synthetic, coordinate, and transformational methods. **Prerequisite: Special Education Team approval.**

TEP Foundations of College Math 969B

CCP
Full Year
1 Credit
Gr. 11-12
This course is delivered in a special education setting while mirroring the regular Foundations of College Math curriculum. Topics covered will include signed numbers, polynomials, inequalities, factoring, word problems, graphing, and quadratic equations. **Prerequisite: Special Education Team approval.**

TEP Government 968G

CCP
Half Year
.5 Credit
Gr. 9-10
This course is delivered in a special education setting while mirroring the regular education Government curriculum which explores the structure and dynamics of the American political system. The student will gain the knowledge to be an informed, contributing citizen covering the foundations of our government as well as the three branches that make it up and explore the role of the United States in international politics. **Prerequisite: Special Education Team approval.**

TEP Economics 968

CCP
Half Year
.5 Credit
Gr. 9-10
This course is delivered in a special education setting while mirroring the regular education Economics curriculum which focuses on personal finance, basic economic concepts, business structures, intervention of the government in the economy, monetary policy, and global economic interactions. **Prerequisite: Special Education Team approval.**

CCP
Full Year
1 Credit
Gr. 10-11

This course is delivered in a special education setting while mirroring the regular education World History curriculum which begins with the study of the renaissance, moving through the Enlightenment, Age of Exploration, and into the 21st Century. **Prerequisite: Special Education Team approval.**

CCP
Full Year
1 Credit
Gr. 10-12

This course is delivered in a special education setting while mirroring the regular education US History curriculum. **Prerequisite: Special Education Team approval.**

Theater Department

One of the greatest playwrights of all time, Oscar Wilde, once said this about theater: “I regard the theater as the greatest of all art forms, the most immediate way in which a human being can share with another the sense of what it is to be a human being.” The best way to find out if what Mr. Wilde has said is true is by exploring the possibilities of theater. By enrolling in any one of the courses that the Theater Department has to offer, you will find yourself in a new learning environment. You will be in a place where a bare stage replaces a blank sheet of paper for assessment, where acting out in class is encouraged, and where you will have a chance to explore your own hidden talents.

By taking any one of the classes offered in Theater, you will have a unique opportunity to look at learning in a new way, where your creativity and talent will be celebrated beyond a test grade or a written assignment. You will be able to transform your class work into performance. You can have the chance to see one of your own scripts actually performed by trained actors. You may find a new direction in life and new ways to express the wonderful qualities that exist in each and every one of us.

We look forward to seeing you on stage soon. To end with another Wilde thought, “The stage is not merely the meeting place of all the arts, but is also the return of art to life.”

Course Descriptions:

Introduction to Theater	252	Advanced Acting	265
NL	This class will offer a general introduction to theater from both a literary and a performance approach. Students will be learning about theater from reading and performing plays. They will also learn about the technical aspects of theater: costuming, sound design, set and prop construction, lighting effects, and special effects. This course is designed to encourage students to recognize the connection between literature and performance. It will allow students to gain confidence both in a classroom setting and on a stage. Actual performance will be a major form of assessment for the class.	ACC	Advanced Acting will be a continuation of Introduction to Theater. In this class, students will study the craft of acting through a variety of acting techniques. They will learn about stage movement and acting styles demonstrated by masters in the field. This course is geared toward students who possess a serious interest in theater, and it would be beneficial to those who intend to study theater in college or as a career option. Prerequisite: Departmental approval.
Half Year		Half Year	
.5 Credit		.5 Credit	
Gr. 9-12		Gr. 10-12	
Improvisation	267	Playwriting	253
NL	The basic premise of improvisation is not based upon traditional instructional methods such as practice, memorization, review, and testing; it is actually based on failure more times than not. It is through failure that students learn to keep on trying, taking risks, and learning that how one handles failure is the true test of one’s character. This class is based on team building, knowing that we will all make mistakes and risk-taking in an environment that is supporting and nurturing. The class will work on both the well-known short form, as well as the more challenging long-form improvisational styles. Participation through daily performance is the major form of assessment in this class.	ACC	This class will focus on creative writing. Students taking this class will work on writing scripts for theatrical production. While the class is specifically a creative writing class, students will also be reading a variety of published plays. Students will see their creative efforts turn into actual performances, since they will be able to access the talents of the Timberlane Players who will be performing the scripts during an annual one-act play series. This class is designed to provide students with an outlet for their talents and to help all students realize that what they do in class can have a dramatic impact on themselves and others.
Half Year		Half Year	
.5 Credit		.5 Credit	
Gr. 9-12		Gr. 11-12	


World Language Department

The World Language Department offers courses in French, German, Latin, and Spanish to students at all levels of learning to support the requirement of most four-year colleges and universities. In our current globalized world, the study of a world language increases a student's connection to global cultures and perspectives, provides more opportunities for both national and international employment, and builds a foundation of linguistics that can apply to both English and their chosen language of study. Language courses seek to develop students' language proficiency around modes of communicative competence reflecting real life communication. The language you choose is a matter of personal choice. There is no "easier" or "more difficult" one to learn. Learning a language requires the desire and willingness to work. It takes time to become proficient in a new language. Regardless of the length of time that students study a language, all students will develop and enhance their language skills and deepen their cultural understanding.

Course Descriptions:


French I—CCP 307

CCP
Full Year
1 Credit
Gr. 9-12

 French I—CCP is an introductory course for students with **no previous study** in the language. The course develops students' reading, writing, listening, and speaking skills through exposure to authentic texts and audio resources. Students will enhance their cultural competence and understanding through a focused study of the products and practices of francophone communities in Canada. Students will acquire vocabulary and basic linguistic structures related to the themes of personal identity, families, communities, and the environment. This proficiency-based course is conducted in the target language and requires the active participation of all students.


French II—ACC 314

ACC
Full Year
1 Credit
Gr. 9-12

 French II—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students continue to develop their reading, writing, listening and speaking skills by interacting with authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the products and practices of France. Students will acquire additional vocabulary and linguistic structures related to the themes of cultural celebrations, childhood, health and illness, and travelling around the town. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level I.**


French II—CCP

CCP
Full Year
1 Credit
Gr. 9-12

 In French II—CCP, students continue to develop their reading, writing, listening and speaking skills by interacting with authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the products and practices of France. Students will acquire additional vocabulary and linguistic structures related to the themes of cultural celebrations, childhood, health and illness, and travelling around the town. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level I.**

French III—ACC 965

ACC
Full Year
1 Credit
Gr. 10-12

 French III—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students will continue to develop their language skills by interacting with increasingly complex authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the cultural products and practices of francophone countries in Africa. Students will acquire more advanced vocabulary and linguistic structures related to the themes of adolescence, professions, leisure activities, cultural identities, arts and culture, and global citizenship. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level II.**

French III—CCP

319

CCP
Full Year
1 Credit
Gr. 10-12



In French III—CCP, students will continue to develop their language skills by interacting with increasingly complex authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the cultural products and practices of francophone countries in Africa. Students will acquire more advanced vocabulary and linguistic structures related to the themes of adolescence, professions, leisure activities, cultural identities, arts and culture, and global citizenship. This proficiency-based course is conducted in the target language and requires the active participation of all students.

Prerequisite: Successful completion of Level II.

French IV—ACC

331

ACC
Full Year
1 Credit
Gr. 11-12



French IV—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students will continue to develop their reading, writing, listening, and speaking skills by interacting with increasingly complex authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the cultural products and practices of francophone countries in the Caribbean and throughout the world. Students will acquire more advanced vocabulary and linguistic structures related to the themes of national identity, gender roles, values, artistic contributions from the target region, technology and the media, and global conflicts. This proficiency-based course is conducted in the target language and requires the active participation of all students.

Prerequisite: Successful completion of Level III.

French IV—CCP

327

CCP
Full Year
1 Credit
Gr. 11-12



In French IV—CCP, students will continue to develop their reading, writing, listening, and speaking skills by interacting with increasingly complex authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the cultural products and practices of francophone countries in the Caribbean and throughout the world. Students will acquire more advanced vocabulary and linguistic structures related to the themes of national identity, gender roles, values, artistic contributions from the target region, technology and the media, and global conflicts. This proficiency-based course is conducted in the target language and requires the active participation of all students.

Prerequisite: Successful completion of Level III.

French V—ACC

823

ACC
Full Year
1 Credit
Gr. 12



In this advanced course, students will develop their listening, speaking, reading, and writing skills to analyze, discuss and compare the perspectives and practices of France and francophone countries throughout the world. The following themes may be studied: immigration, multiculturalism, overcoming stereotypes, family roles and traditions, ethical and moral dilemmas, scientific progress, environmental issues, government, education, healthcare, human rights, and contemporary global challenges. This proficiency-based course is conducted completely in the target language and requires the active participation of all students.

Prerequisite: Successful completion of Level IV.

AP® French Language and Culture

342

AP
Full Year
1 Credit
Gr. 12



The AP French Language and Culture course provides students with opportunities to develop language proficiency across the three modes of communication: Interpretive, Interpersonal, and Presentational. The course focuses on the integration of authentic resources including online print, audio, and audiovisual resources, as well as traditional print resources that include literature, essays, and magazine and newspaper articles with the goal of providing a rich, diverse learning experience. AP French Language and Culture is a language acquisition course designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where French is spoken and as such, is an immersion experience requiring almost exclusive use of French. Students communicate using rich, advanced vocabulary and linguistic structures as they build proficiency in all modes of communication toward the pre-advanced level. Students are required to take the AP exam in May.

Prerequisite: Successful completion of Level IV.

German I—ACC

ACC
Full Year
1 Credit
Gr. 9-12



German I—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. The course develops students' reading, writing, listening, and speaking skills through exposure to authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the products and practices of Germany. Students will acquire vocabulary and basic linguistic structures related to the topics of personal identity, families, communities, and the environment. This proficiency-based course is conducted in the target language and requires the active participation of all students.

German I—CCP

309

CCP
Full Year
1 Credit
Gr. 9-12



German I—CCP is an introductory course for students with **no previous study** in the language. The course develops students' reading, writing, listening, and speaking skills through exposure to authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the products and practices of Germany. Students will acquire vocabulary and basic linguistic structures related to the topics of personal identity, families, communities, and the environment. This proficiency-based course is conducted in the target language and requires the active participation of all students.

German II—ACC

316

ACC
Full Year
1 Credit
Gr. 10-12



German II—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students will continue to develop their reading, writing, listening and speaking skills by interacting with authentic texts and audio resources. Students will enhance their cultural competence and understanding through a focused study of the products and practices of Germany. Students will acquire additional vocabulary and linguistic structures related to the themes of cultural celebrations, childhood, health and illness, and travelling around the town. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level I.**

German II—CCP

315

CCP
Full Year
1 Credit
Gr. 10-12



In this course, students will continue to develop their reading, writing, listening and speaking skills by interacting with authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the products and practices of Germany. Students will acquire additional vocabulary and linguistic structures related to the themes of cultural celebrations, childhood, health and illness, and travelling around the town. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level I.**

German III—ACC

323

ACC
Full Year
1 Credit
Gr. 11-12



German III—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students will continue to develop their language skills by interacting with increasingly complex authentic texts and audio resources. Students will enhance their cultural competence and understanding through a focused study of the cultural products and practices of Germany, Austria, and Switzerland. Students will acquire more advanced vocabulary and linguistic structures related to the themes of adolescence, professions, leisure activities, cultural identities, arts and culture, and global citizenship. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level II.**

German IV—ACC

333

ACC
Full Year
1 Credit
Gr. 12



German IV—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students will continue to develop their reading, writing, listening, and speaking skills by interacting with increasingly complex authentic texts and audio resources. Students will enhance their cultural competence and understanding through a focused study of the cultural products and practices of Germany, Austria, and Switzerland. Students will acquire more advanced vocabulary and linguistic structures related to the themes of national identity, gender roles, values, artistic contributions from the target region, technology and the media, and global conflicts. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level III.**

Latin I—ACC

341

ACC
Full Year
1 Credit
Gr. 9-12



Latin I—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. Students will be introduced to basic Latin grammatical concepts and vocabulary. Over the course of the year, students will recognize the relationship between Latin and other languages, especially English. Through four course units—Family Life and Values, Geography and Social Status, Institutions and Origins of Public Life, and Technology and the Legacy of Roman Civilization—students will be exposed to the complexities of Roman culture and history. In turn, students will consider the implications of studying ancient cultures in today's radically different world.

Latin I—CCP

CCP
Full Year
1 Credit
Gr. 9-12



Latin I—CCP is an introductory course designed to introduce students to basic Latin grammatical concepts and vocabulary. Over the course of the year, students will recognize the relationship between Latin and other languages, especially English. Through four course units—Family Life and Values, Geography and Social Status, Institutions and Origins of Public Life, and Technology and the Legacy of Roman Civilization—students will be exposed to the complexities of Roman culture and history. In turn, students will consider the implications of studying ancient cultures in today’s radically different world.

Latin II—ACC

ACC
Full Year
1 Credit
Gr. 10-12



Latin II—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students will further their knowledge of Latin grammar and vocabulary. Over the course of the year, students will take on more complex cultural and grammatical terrain with the goal of progressing toward reading short passages of adapted Latin literature and inscriptions. Through four course units—Mythology and Values, Daily Life in Rome, Science and Engineering in the Roman World, and History in the Republican Period—students will be exposed to the complexities of Roman culture and history. In turn, students will consider the implications of studying ancient cultures in today’s radically different world. **Prerequisite: Successful completion of Level I.**

Latin II—CCP

CCP
Full Year
1 Credit
Gr. 10-12



In Latin II—CCP, students will further their knowledge of Latin grammar and vocabulary. Over the course of the year, students will take on more complex cultural and grammatical terrain with the goal of progressing toward reading short passages of adapted Latin literature and inscriptions. Through four course units—Mythology and Values, Daily Life in Rome, Science and Engineering in the Roman World, and History in the Republican Period—students will be exposed to the complexities of Roman culture and history. In turn, students will consider the implications of studying ancient cultures in today’s radically different world. **Prerequisite: Successful completion of Level I.**

Latin III—ACC

ACC
Full Year
1 Credit
Gr. 11-12



Latin III—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students will expand upon their knowledge of Latin grammatical concepts and vocabulary. Over the course of the year, students will begin to read adapted passages of authentic Latin literature, including the poetry of imperial Rome. Since the course is focused on translating and interpreting Roman texts, students will discuss basic literary theory and principles of interpretation. Through four course units—Origins of the Roman Empire, Public Life in Rome, Mythology in Roman Literature, and Gender and Identity in Rome—students will be exposed to the challenges of understanding Roman culture and history. In turn, we will consider the implications of studying ancient cultures in today’s radically different world. **Prerequisite: Successful completion of Level II.**

Spanish I—CCP

311

CCP
Full Year
1 Credit
Gr. 9-12



Spanish I—CCP is an introductory course for students with **no previous study** in the language. The course develops students’ reading, writing, listening, and speaking skills through exposure to authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the products and practices of Spain. Students will acquire vocabulary and basic linguistic structures related to the topics of personal identity, families, communities, and the environment. This proficiency-based course is conducted in the target language and requires the active participation of all students.

Spanish II—ACC

318

ACC
Full Year
1 Credit
Gr. 9-12



Spanish II—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students will continue to develop their reading, writing, listening and speaking skills by interacting with authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the products and practices of Mexico. Students will acquire additional vocabulary and linguistic structures related to the themes of cultural celebrations, childhood, health and illness, and travelling around the town. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level I.**

Spanish II—CCP

317

CCP
Full Year
1 Credit
Gr. 9-12



In this course, students will continue to develop their reading, writing, listening and speaking skills by interacting with authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the products and practices of Mexico. Students will acquire additional vocabulary and linguistic structures related to the themes of cultural celebrations, childhood, health and illness, and travelling around the town. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level I.**

Spanish—III ACC

322

ACC
Full Year
1 Credit
Gr. 10-12



Spanish III—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students will continue to develop their language skills by interacting with increasingly complex authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the cultural products and practices of Latin America and the Caribbean. Students will acquire more advanced vocabulary and linguistic structures related to the themes of adolescence, professions, leisure activities, cultural identities, arts and culture, and global citizenship. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level II.**

Spanish—III CCP

311

CCP
Full Year
1 Credit
Gr. 10-12



In Spanish III—CCP, students will continue to develop their language skills by interacting with increasingly complex authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the cultural products and practices of Latin America and the Caribbean. Students will acquire more advanced vocabulary and linguistic structures related to the themes of adolescence, professions, leisure activities, cultural identities, arts and culture, and global citizenship. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level II.**

Spanish—IV ACC

335

ACC
Full Year
1 Credit
Gr. 11-12



Spanish IV—ACC is an intensive course designed for students who have excellent study habits and want experiences that will prepare them for advanced work in the language. In this course, students will continue to develop their reading, writing, listening, and speaking skills by interacting with increasingly complex authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the cultural products and practices of countries in South America. Students will acquire more advanced vocabulary and linguistic structures related to the themes of national identity, gender roles, values, artistic contributions from the target region, technology and the media, and global conflicts. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level III.**

Spanish—IV CCP

324

CCP
Full Year
1 Credit
Gr. 11-12



In Spanish IV—CCP students will continue to develop their reading, writing, listening, and speaking skills by interacting with increasingly complex authentic texts and audio resources. Students enhance their cultural competence and understanding through a focused study of the cultural products and practices of countries in South America. Students will acquire more advanced vocabulary and linguistic structures related to the themes of national identity, gender roles, values, artistic contributions from the target region, technology and the media, and global conflicts. This proficiency-based course is conducted in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level III.**

Spanish V—ACC


340

ACC
Full Year
1 Credit
Gr. 12




In this advanced course, students will develop listening, speaking, reading, and writing skills to analyze, discuss and compare the perspectives and practices of hispanic countries throughout the world. The following themes may be studied: immigration, multiculturalism, overcoming stereotypes, family roles and traditions, ethical and moral dilemmas, scientific progress, environmental issues, government, education, healthcare, human rights, and contemporary global challenges. This proficiency-based course is conducted completely in the target language and requires the active participation of all students. **Prerequisite: Successful completion of Level IV.**

AP
Full Year
1 Credit
Gr. 12



The AP Spanish Language and Culture course provides students with opportunities to develop language proficiency across the three modes of communication: Interpretive, Interpersonal, and Presentational. The course focuses on the integration of authentic resources including online print, audio, and audiovisual resources, as well as traditional print resources that include literature, essays, and magazine and newspaper articles with the goal of providing a rich, diverse learning experience. AP Spanish Language and Culture is a language acquisition course designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where Spanish is spoken and, as such, is an immersion experience requiring almost exclusive use of Spanish. Students communicate using rich, advanced vocabulary and linguistic structures as they build proficiency in all modes of communication toward the pre-advanced level. Students are required to take the AP exam in May. **Prerequisite: Successful completion of Level IV.**

ACC
Half Year
.5 Credit
Gr. 9-12



Introduction to the Classical World: Empires, Gods, and Etymologies aims to familiarize students with a selected range of cultural, historical, and linguistic aspects of Classical Rome and Ancient Greece. Extracts from a range of ancient sources (read in translation) provide a platform for the study of the literature, myths, religion, and politics of the Classical world. The art and architecture of Classical Athens and Rome are explored using the visual media. Students also undertake an introductory beginners' course in Latin vocabulary, accidence, and syntax and will memorize the Ancient Greek alphabet and key Ancient Greek terms. **Note: This course is an elective and does not count toward the World Language graduation requirement for the Scholastic Diploma.**

Career and Technical Education (CTE)

Courses available at Salem High School and Pinkerton Academy

Those students who wish to gain career and technical training and certification while still in high school should consider the opportunity of attending a regional CTE Center. Students who enroll in the program take their academic courses at Timberlane Regional High School and a two period vocational courses at the CTE Centers at Salem High School or Pinkerton Academy. Transportation to Salem High School is provided by Timberlane Regional High School. Students attending Pinkerton programs are required to provide their own transportation.

The following CTE programs are available through the CTE in Salem:

- | | |
|--|---------------------------------|
| Automotive Technology | Culinary Arts |
| Biomedical Science | Health Science Technology |
| Business Pathway | Marketing and Sales |
| Computer Networking and Repair | Teacher Preparation |
| Computer Software & Media Applications | Television and Media Production |
| Construction Technology | |

Program and Course Descriptions:

Automotive Technology	
Automotive Technology is a two year program aimed at preparing students for careers in the automotive industry such as: automotive technicians, service writers, engineers, parts distributor, and aviation and diesel technicians. Many students their education at community and technical colleges and gain employment. Students can earn industry credentials and college credit through Manchester Community College.	
Automotive Technology 1	861

CCP	In Automotive Technology 1, students will study many of the major automotive systems while learning how a quality automotive shop operates.
Full Year	Major topics of instruction include shop safety, shop operations, lubrication, engine components, steering and suspension, brake systems, and vehicle safety inspections. Students will also develop an understanding of service write-ups, customer service, and parts management.
2 Credits	Students will gain valuable hands-on experience performing live work in the Salem AutoTech shop. Appropriate safety instruction is provided and students are required to wear proper footwear, eyewear, and clothing for use in laboratory activities. The National Institute for Automotive Service Excellence (ASE) recognizes the Salem Automotive Technology program as a certified training program and it has achieved National Automotive Technicians Education Foundation (NATEF) certification. Students will be eligible to earn SP2 safety certification, Valvoline oil certification, as well as industry-driven training from various local companies.
Double Period	
Gr. 11	

Automotive Technology 2		863
CCP	In Automotive Technology 2, students will use the skills and competencies mastered in Automotive Technology 1, while mastering new competencies in front-end alignment, steering and suspension, emissions, engine principles, cooling and heating systems, electrical diagnosis and repair as well as scan tool use. A continued emphasis on safety, shop management, and proper workplace attitude are important components of this course. Students are required to provide proper footwear and clothing for use in laboratory activities. Automotive related colleges and post-secondary schools visit the program each fall to inform students of post-secondary options. Students will be eligible for student level ASE certification and have the opportunity to compete in Skills USA competition. Prerequisite: Grade of C or better in Automotive Technology 1 or teacher recommendation.	
Full Year		
2 Credits		
Double Period		
Gr. 12		

Biomedical Science

Biomedical Science is a laboratory-based, three semester program aimed at preparing students for a variety of careers and professions in the life science, biotechnology and medical fields. This program will prepare students for careers in medicine, genetics, biotechnology, pharmaceuticals, biochemistry, biomedical engineering, and research. Students will have access to state-of-the-art equipment and technology which rivals many post-secondary programs.

Microbiology

870

CCP
Half Year
1 Credits
Double
Period
Gr. 11

The primary focus of this course is on microbiology concepts and techniques. You will learn about aseptic technique, growing cultures, preparing media, microbial genetics, microbial diagnosis and virology. This course has a strong emphasis on hands-on laboratory experiences and you will become proficient in many aspects of microbiology. This is a required course in the CTE Biomedical Science program. **Prerequisite: Grade of C or better in Integrated Science.**

Biomedical Science 1

870A

CCP
Half Year
1 Credit
Double
Period
Gr. 11

Biomedical Science 1 is a course for students who are interested in learning hands-on laboratory skills related to life sciences, chemistry, biochemistry, and the health sciences. Students studying biomedical science go on to careers in research, medicine, pharmaceuticals, genetics, forensic science, and many other sciences. Experience working in a state-of-the-art biotechnology lab while gaining an appreciation of how biotechnology affects our everyday lives. Students will study techniques in DNA manipulation, cell culture, protein, purification, drug discovery, microbiology, bioinformatics, and much more. This course provides skills that are applicable to the medical, biotechnology, and life science industry. **Prerequisite: Grade of C or better in Integrated Science.**

Biomedical Science 2

870B

CCP
Full Year
2 Credits
Double
Period
Gr. 12

This is the third course in the biomedical science program with a focus on advanced topics and skills related to biomedical science, biochemistry and biotechnology. Students will further their skills in areas including recombinant DNA technology, protein production, purification, DNA 'barcoding', and plant and animal cell culture techniques. As experienced scientists, students are given the opportunity to gain experience working independently on a number of long term research projects. Microbiology is not a prerequisite for this course; however, all three courses must be successfully completed to become a biotechnology program completer. **Prerequisite: Grade of C or better in Biomedical Science 1.**

Business Pathway

The Business Pathway is a four course program that offers students the opportunity to earn 12 college credits through Manchester Community College which may be transferred to many 4 year colleges and universities. Suggested sequence is Business Principles, College Accounting, Business Management and Business Law.

Business Principles

CCP
Half Year
1 Credit
Double
Period
Gr. 11

This course will provide students with a basic understanding of the structure and operation of business. Students will gain an awareness of social and ethical responsibility as it relates to the environment, consumers, employees and investors. Business ownership, management, marketing, the global economy, money and investments will also be explored. **This is the first of four courses in the Business Pathway Program. Eligible for 3 college credits.**

College Accounting

CCP
Half Year
1 Credit
Double
Period
Gr. 11

College Accounting is a rigorous, comprehensive study of accounting principles. Students who are interested in a career in accounting, financial management, or who intend to major in business in college should consider this course. The course content is equivalent to a first semester college accounting course. **Prerequisite: B or better in Accounting I or a 3.2 GPA. Eligible for 3 college credits.**

Business Management

CCP
Half Year
1 Credit
Double
Period
Gr. 12

In Business Management students will be introduced to the principles and techniques underlying the successful management of business organizations. Topics students will learn include: supply and demand, market structure, entrepreneurship, leadership, motivational techniques, ethics and social responsibility, management styles, and the functions of management. Students will analyze basic management activities and apply knowledge to complete a business plan for a company of their own creation. **Prerequisite: Successful completion of Business Principles. Eligible for 3 college credits.**

Business Law

CCP
Half Year
1 Credit
Double
Period
Gr. 12

Business Law will increase students' understanding of business' responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions. Students will work with case studies to learn how business and personal law affect organizations and individuals. Topics discussed include: constitutional law for business and on-line commerce, torts and privacy, business and cyber-crimes, ethics and social responsibility, and contracts and warranties. **Prerequisite: Successful completion of Business Principles. Eligible for 3 college credits.**

Computer Networking and Repair

This program is a blend of classroom, on-line, and hands-on learning. Students will work on computer modules and simulations which prepare them for industry certification exams. Students will have opportunities to dissect and assemble computers, troubleshoot issues and configure servers and networks. Students can earn up to 9 college credits from Manchester Community College, as well as earn industry certifications.

Computer Maintenance and Repair 1 873A

CCP
Half Year
1 Credit
Double
Period
Gr. 11

Have you ever wondered how computers and networks really work or have you wanted to build a computer? In this course students will disassemble and assemble computers, learn to troubleshoot, diagnose and repair computer problems and configure, install, and optimize performance. Time will be spent using computer simulation software which allows students to gain experience repairing computer systems. The course prepares students for multiple industry recognized certifications.

Computer Networking 873B

CCP
Half Year
1 Credit
Double
Period
Gr. 11

Computer Networking provides students with the requisite skills for setting up and troubleshooting computer networks. Students will configure wired and wireless networks and servers for home or office environments. This course covers networking hardware and software along with the skills necessary to succeed in the dynamic field of computer networking. Fundamental networking concepts such as protocols, network design, implementation, and troubleshooting will be covered. Students will prepare for industry recognized certifications in networking.
Prerequisite: Grade of C+ or better in Computer Maintenance and Repair 1.

Advanced Computer Networking and Repair 875

CCP
Full Year
2 Credits
Double
Period
Gr. 12

Students returning for a second year of Computer Networking and Repair will complete computer networking and repair jobs in a simulated lab environment as well as perform live work on classroom networks. Tasks will include: assembly of new computer systems, installation and configuration of systems and peripherals, assisting staff with a variety of computer needs, repair and maintenance of a six-hundred node network. Class time will be dedicated to preparation for the A+ Technician certification exam and the MTA exam. Program completers are able to work as entry-level technicians and sales and support personnel in a wide variety of technical fields. Further study is recommended for those wishing to pursue this highly technical field. A majority of graduates do elect to pursue further study at 2 or 4-year colleges.
Prerequisite: Grade of C or better in Introduction to Computer Maintenance and Computer Networking.

Computer Software & Media Applications

Any student can seriously benefit from taking this program. It provides students with an outstanding skill set and knowledge of Microsoft Office and Adobe applications which can be used in virtually any career or college major. From business, to design, to graphic arts, this program will provide students with skills that will make them stand out among their peers as they advance their career.

Microsoft Office 897B

CCP
Half Year
1 Credit
Double
Period
Gr. 11

Students will learn the advanced features of the Microsoft Office suite in a project-based environment. Students have the opportunity to obtain the MOS (Microsoft Office Specialist) certifications which are currently required at many of the nation's leading MBA (Masters in Business Administration) programs. Students will be issued a laptop computer for use during the semester, both at school and at home. This class is part of a series of classes within the Computer Software & Media Applications program designed to provide the student with an impressive array of software applications skills useful in both college and careers.

Adobe Creative Suite 1 898A

CCP
Half Year
1 Credit
Double
Period
Gr. 11

In this course, students will learn the essential elements of desktop publishing, page layout & design, the editing of images & photographs, and the creation of vector illustrations as the class covers InDesign, PhotoShop, and Illustrator. Students will be issued a laptop computer for use during the semester loaded with Microsoft Office Professional and the Adobe Creative Cloud. The skills acquired in this course have proven to aid students in college since they are able to produce professional caliber printed and/or online type graphic materials for major college projects. These valuable skills will also help students advance in their professional career after college.

Adobe Creative Suite 2 898B

CCP
Half Year
1 Credit
Double
Period
Gr. 12

In this course, students have the exciting opportunity to learn more advanced applications and skills such as video editing, DVD authoring, and web-page design in a fun, hands-on environment. Adobe Premiere and Dreamweaver will be the primary applications learned; however, students will also apply many of the skills learned in other courses. The skills acquired in this course will provide students with the opportunity to create unique and powerful presentations and projects in college and will help students in their career by rounding out an impressive array of software applications skills. Like the other computer courses, this class is an ideal way to prepare students for success in college.
Prerequisite: Grade of C or better in Adobe Creative Suite 1.

Construction Technology

Construction technology is a program designed to prepare students for a career in the construction industry. Students interested in residential and commercial construction, construction management, architecture, and engineering will benefit from this program. The course is a blend of classroom theory and on-site, hands-on construction projects where students will learn basic building systems and techniques.

Construction Technology 1 865

CCP
Full Year
2 Credits
Double
Period
Gr. 11

In this course, students will learn basic residential carpentry techniques beginning with a comprehensive unit on workplace and tool safety and progressing through residential framing techniques. Units of study will include tool selection and usage, plan reading, layout, footings and foundations, and floor and wall systems. Students should be comfortable on ladders and with working outside in a variety of conditions. Students will complete projects such as sheds, decks and additions as part of this program. Students are required to have proper work boots and clothing.

Construction Technology 2 867

CCP
Full Year
2 Credits
Double
Period
Gr. 12

In Construction Technology 2, students will expand on their skills from the first year and learn more advanced skills in areas such as roof and stair framing, siding systems, insulating, window installation, roofing, and finish work. Students will complete more advanced projects in this course. Students are required to have proper work boots and clothing. **Prerequisite: Grade of C or better in Building Construction 1.**

Culinary Arts

Do you love to cook? Do you enjoy serving people and making them happy? The culinary and hospitality industry provides a wealth of opportunity to work and travel. Tourism is one of the largest industries in New Hampshire and demand for quality trained cooks and chefs is high. Students will gain excellent industry experience in this highly hands-on program learning their way around a commercial kitchen and restaurant. Students will work with a team of peers to successfully operate the on-site restaurant as well as catering a variety of functions.

Culinary Arts 1 881

CCP
Full Year
2 Credits
Double
Period
Gr. 11

In Culinary Arts I students will learn about kitchen safety and sanitation, culinary terminology, product identification, baking skills, knife skills and other culinary skills essential to the industry. Students will work as a team preparing food for the Three Seasons restaurant and other catering and culinary functions. If students enjoy cooking and working with a fun team in a fast-paced environment, then culinary arts is for them. Opportunity in the culinary and hospitality business is endless and is a profession that students can practice anywhere in the world.

Culinary Arts 2 883

CCP
Full Year
2 Credits
Double
Period
Gr. 12

In this course, students will build on their skills from year one and take on a leadership role in menu design, working brigade positions such as Sous Chef, dining room manager, expediting, and lead baker. Students assume all upper management positions within the kitchen, dining room, and bakery. Students will further refine their skills and knowledge by completing a culinary arts electronic portfolio. This project serves to document their cooking, baking pastry and employability skills, as well as their knowledge of safety and sanitation. Students may also participate in after school functions and banquets. College credit is available through Lakes Region Community College. **Prerequisite: Grade of a C or better in Culinary Arts 1 or teacher recommendation.**

Health Science Technology

The health care industry is one of the top 3 industries in New Hampshire and abroad. The employment opportunity is vast in this diverse field of study. This outstanding program will prepare students for a variety of healthcare jobs. The program completers are highly successful and typically go on to be nurses, EMT's, physicians, occupational and physical therapists, pharmacists and physicians assistants to name a few.

Health Science Technology 1

889

CCP
Full Year
2 Credits
Double
Period
Gr. 11

Health Science Technology is a two-year program for juniors and seniors who are interested in pursuing a career in the healthcare field. During the first year students will concentrate on establishing a strong foundation in anatomy and physiology, safety issues, infection control and career exploration. Students are eligible to receive 3 college credits in medical terminology from Manchester Community College. Classroom activities include: lecture, poster presentations, internet projects, competitive games, anatomy labs and audio-visual learning related to diagnosis, treatment and prevention of disease. Skills component include: vision and hearing testing, vital signs, (temperature, pulse, respiration and blood pressure), gown, glove and hand washing techniques as well as training in taking EKGs. The clinical experience for first year students includes vision and hearing testing at local elementary schools and Salem High School. Students also have the opportunity to assist in the annual "sport physicals" offered through the Athletic Department. Students interested in pursuing any career in healthcare would benefit greatly from this course. **Prerequisite: Grade of B- or better in Biology. Requirement: Immunization records, including a current PPD Test (within the last year) and name tag.**

Health Science Technology 2

891

CCP
Full Year
2 Credits
Double
Period
Gr. 12

Health Science Technology 2 continues with the completion of studies in anatomy and physiology, pathophysiology, infectious disease, and safety training. American Heart Association CPR certification is provided to all level two students. During second semester, students choose to participate in one of three clinical rotations: Emergency Medical Technician (EMT), Nursing Assistant (NA), or Allied Health Community Internship (MA). The EMT and NA program require both classroom and clinical rotations at the Salem Fire Department or the Northeast Rehabilitation Hospital. These rotations will require some weekend and evening clinical hours. Upon successful completion of the EMT or NA program, and the corresponding state licensing exam, licensing will occur. Students in the NA program are responsible for coordinating and assisting with an annual blood drive. Students enrolled in the Allied Health Community Internship program (MA) require both classroom hours and a four month clinical rotation in the community with a preceptor of their choice. A clinical interview with the clinical preceptor is required for all students. At the end of the semester, students will have approximately 60 clinical hours of experience. Available community sites include agencies specializing in radiology, pharmacology, internal medicine, dental health, physical or occupational therapy and veterinarian medicine. Health Science Technology promotes responsibility, leadership, maturity, communication skills and professional behavior. **Successful completion of HST 1 and HST 2 satisfies the graduation requirement for health. Prerequisite: Grade of B- or better in HST 1 and teacher recommendation. Requirements: EMT course: EMT book and uniform approximate cost \$150.00 – NA course: book and uniform approximate cost \$100.00 – financial aid is available. NA students are required to have a flu vaccine prior to clinical. Name tag and immunization records with updated PPD within the year are also required.**

Marketing and Sales

According to the Bureau of Labor Statistics, careers in sales and marketing are in high demand and can be quite lucrative. This program will provide students with the fundamental knowledge about the sales and marketing industry and provide students with school-based experiences to help them make informed decisions about their post-secondary pathway. If students enjoy working with teams of peers on competitive projects then marketing is for them.

Marketing 1

893

CCP
Full Year
2 Credits
Double
Period
Gr. 11

The sales and marketing field have great opportunity for employment. In this course, students will take an in-depth look into the marketing of goods and services within the diverse marketing industry. Topics include: sports and entertainment, fashion, retail, marketing communication, consumer behavior, product planning, visual merchandising, pricing, and advertising. Students will obtain their skills and knowledge through classroom instruction, group and individual projects, and will get hands-on experience working in a school-based enterprise.

Marketing 2

895

CCP
Full Year
2 Credits
Double
Period
Gr. 12

In this course, students will study how businesses promote their products and services. You will learn the core marketing and advertising tools and concepts needed to develop a successful marketing communications campaign. Topic coverage will include marketing research, promotion, advertising, integrated marketing communications, advertising media, print advertisements, media rate, planning, competition and project management. Students will work with a team to develop an advertising campaign for an actual business. Students will obtain their skills and knowledge in these functions through classroom instruction, group and individual projects, and the operation of a school-based enterprise. **Prerequisite: Grade of C or better in Marketing 1 or teacher recommendation.**

Teacher Preparation

Are you considering a career as a teacher or in the education field? This program will prepare students to work in a school, for any grade or subject. Students will spend time in the classroom learning education theory and teaching strategies, working in the on-site preschool, or observing classrooms at various grade levels. If students who are considering school counseling, speech or occupational therapy, special education or teaching, this program will give them an excellent preparation for work in college.

Teacher Preparation 1

857A

CCP
Full Year
2 Credits
Double
Period
Gr. 11

Students will alternate between studying education theory and working in the on-site preschool applying that theory. The competencies and curriculum focus on education topics similar to those taught in a college curriculum. The nature of this course requires mature, responsible, self-directed learners interested in pursuing a career in the education field. Students should have an excellent attendance record. Emphasis is placed on work-ready skills and academic skills and content. Professional attire is required when students are at the worksite. Students considering careers in early childhood, elementary, middle or high school teaching, special education, speech, physical or occupational therapy, psychology, school counseling, or day care benefit from this program and are well prepared for college. Students are eligible to earn college credit from Manchester Community College.

Teacher Preparation 2

857B

CCP
Full Year
2 Credits
Double
Period
Gr. 12

Teacher Preparation 2 focuses on advanced topics in the education field such as designing and implementing curriculum, developing critical thinking skills in learners, assessing learners, preparing for the teaching profession, and the foundations of American education. While working in the on-site preschool, emphasis is placed on the development and use of leadership skills. Students will gain experience planning and supervising the operation of the school routine. You will also complete classroom observations of varying levels. Excellent attendance and professionalism are essential for this program. **Prerequisite: Grade of B- or better in Teacher Education 1.**

Television and Media Production

Television and Video Production is a program designed for students who are interested in careers in the visual arts, broadcasting and production. This highly hands-on, project oriented program teaches students a multitude of skills and techniques which rivals many college programs. If students have an interest or passion for film, broadcasting, TV and production, this is where they belong. Many of graduates have gone on to lucrative jobs and careers in this profession.

Television and Media Production 1 864

CCP
Full Year
2 Credits
Double
Period
Gr. 11

Television and Media Production 1 is designed to introduce students to the use and practical application of TV production techniques. Through both formal classroom presentations and practical hands-on experience, students will learn camera operation, audio mixing, lighting, switching, set design, graphics, editing, storyboarding, script writing, and operation of field production equipment. Working as a member of a production crew, students will produce, write, direct and videotape their own productions, as well as school and district activities. Three (3) college credits are available through Great Bay Community College.

Television and Media Production 2 858

CCP
Full Year
2 Credits
Double
Period
Gr. 12

Television and Media Production 2 is an advanced course where students master basic TV production techniques and gain greater experience in TV production. Students work independently and in crews producing, writing, directing, and videotaping their own projects, as well as school district activities for Salem's Channel SLC 6. Students produce Public Service Announcements, a bi-weekly studio news program, client videos, and segments for the Video Yearbook. Students will refine their creative thinking and writing skills in this course. Students can also produce video entries for the New Hampshire Student Film Festival. Studio and field productions reinforce the concepts learned in TV Production 1. Some after school activities are required. **Prerequisite: Grade of C+ or better in Television and Media Productions 1 or teacher recommendation.**

**The following CTE programs are available through the regional center at
Pinkerton Academy:**

Animal Science
Cosmetology
Electrical Technology

Environmental Studies / Outdoor Skills
Forestry Technology
Welding Technology

Course Descriptions:

Introduction to Animal Science 859A

CCP
Half Year
.5 Credit
Gr. 11-12

This half-year (0.5 credits) course is designed for students who might be considering a career in some phase of animal science such as animal management/trainer, veterinary science, or agribusiness. Selected units of instruction will include zoonoses, reproduction, digestive systems, and nutrition of companion and livestock animals. **Note: This course is a prerequisite (with a grade of 85 or better) for students planning to continue on to Animal Business Management.**

Animal Business Management 859

CCP
Full Year
1 Credit
Gr. 11-12

In this full-year (1 credit) course, students will learn to manage a successful grooming business, Pinkerton Pet Palace, as well as learning software used in veterinarian offices and grooming businesses. Students will become proficient in learning how to properly operate a veterinarian or grooming office and keep proper records and accounts. [DOE CIP code is 010901 Animal Sciences, General.] **Prerequisite: Successful completion of Introduction to Animal Science with a minimum grade of 85. Note: Registration through the CTE Office is required.**

Animal Health & Veterinary Technology 859B

CCP
Full Year
2 Credits
Double
Period
Gr. 12

This full-year (2 credits) course is designed for students who are interested in a future career with animals in the health and veterinary technology field. Specific units of instruction will include but are not limited to; Introduction to veterinary technology, Veterinary terminology, veterinary technology skills, animal diseases, animal welfare ethics and treatment, animal first aid. Students will also learn how to properly groom canines and run a student CTE enterprise "The Pinkerton Pet Palace". **Prerequisite: Successful completion of Animal Business Management with a minimum grade of 80 and permission from the CTE director.**

Cosmetology I 888

CCP
Full Year
2 Credits
Double
Period
Gr. 11

In this full-year (2 credits) course, cosmetology students receive comprehensive training in all areas of hairdressing and related fields while earning hours on their cosmetology apprentice license. Cosmetology 1 students are exposed to a blend of classroom instruction and hands-on learning experiences using a human hair mannequin in a simulated salon environment. Students learn a variety of hairstyling techniques, nail design and proper sanitation. Students will need to register and pay for an apprentice license and purchase a personal tools/supply kit and wear a uniform when in the classroom/lab. Total costs \$100 plus \$25 State apprentice license with fundraising and payment plan options available. [DOE CIP code is 120401 Cosmetology.] **Note: All absences must be made up with physical hours per the requirement of the State Board of Cosmetology. Registration through the CTE Office is required.**

Cosmetology II 888A

CCP
Full Year
2 Credits
Double
Period
Gr. 12

In the second year of this full-year, two-credit class, students will continue learning and mastering their skills from the previous year as well as cultivating new skills in the areas of advanced hair cutting, facials, hair design, hair coloring and chemical texture. In addition, students will learn about the business side of the cosmetology industry and salon management. Students will have the opportunity to work directly with customers in the salon and to job shadow professional cosmetologists. Upon successful completion of this two-year program and state competency exam, students will be able to transfer hours to a post-secondary school. Second-year students will need to purchase additional tools/supplies (cost is approximately \$75, financial aid and/or payment plans are available.) **Prerequisite: Successful completion of Cosmetology I and with a grade of 75 or better and completion of state required lab hours, and permission from the CTE Director.**

Electrical Technology I**872**

CCP
Full Year
2 Credits
Double
Period
Gr. 11

This full-year (2 credits) course is the first half of a 2-year program designed to have the student gain the knowledge and skills necessary to successfully enter the field as an apprentice electrician. The student will acquire skills in all phases of residential wiring including basic electrical theory, safety, special tools, and test equipment, blueprint reading, and local requirement calculations, normal residential circuits, and special purpose wiring systems. Hands-on experience is accomplished in a realistic residential setting. Job searching skills as well as quality workmanship and professionalism will be an integral part of the classroom environment. Students will be required to obtain the NH Apprentice Electrical license-approximate cost is \$30. [DOE CIP code is 460302 Electrician.] **Note: Registration through the CTE Office is required.**

Electrical Technology II**872A**

CCP
Full Year
2 Credits
Double
Period
Gr. 12

This full-year (2 credits) course is the second half of a 2-year program and intensifies, follows through, and elaborates on material covered in Electrical Technology 1. It covers small appliance repair, industrial electricity and motors, basic CAT 5 and fiber terminations, and work with transformers and generators. Students will also participate in the actual wiring, planning, cost estimation, NEC code requirements, and material acquisition needed to complete various renovations and repairs on the Pinkerton campus. Successful completion of the Electrical Technology 1 and 2 programs will credit the student with a portion of classroom and work hours required to obtain a Journeyman Electrical License. *Eligible for Running Start credit.* **Prerequisite: Completion of Electrical Technology 1 and permission from the CTE Director.**

Environmental Studies / Outdoor Skills**884A**

CCP
Full Year
2 Credits
Double
Period
Gr. 11-12

This full-year (2 credits) program is designed for students interested in environmental sciences and natural resource management. Active learning and hands-on activities assist the student to better understand and work in outdoor environments. Topics include plant and wildlife studies, habitat types, weather patterns, outdoor recreation and ecotourism, conservation and protection of natural resources, ecology, open space preservation, environmental ethics and legal responsibilities, wetland studies, resource management organizations, invasive species. Outdoor skills include map, compass, and GPS use; knots; snowshoeing; first aid; survival training; low-impact hiking and camping techniques; outdoor equipment selection and use; and backcountry travel and safety. Special emphasis is placed upon dealing with weather-related dangers, insect pests, terrain hazards, poisonous plants, and recognizing unsafe situations. The student will participate in the New England tradition of making maple syrup by helping to operate the Academy's sugar house. Development of the Forsaith Forest Nature Trail in Chester is also an ongoing class activity. The student must enjoy outdoor activities and be willing to engage in safe, productive learning outside the classroom. [DOE CIP code is 030101 Natural Resources/Conservation.] **Note: Registration through the CTE Office is required.**

Forestry Technology I**884**

CCP
Full Year
2 Credits
Double
Period
Gr. 11-12

This full-year (2 credits) active-learning program is designed to develop the skills, knowledge, and attitude necessary for pursuing a successful career in forestry, environmental science and natural resource conservation. Topics include tree identification, protecting forests from diseases, insects and fire, surveying, wildlife management, ecology, timber harvesting and reforestation, urban forestry/arboriculture, measurement and marketing of forest products, NH timber harvesting laws, public relations, sustainable forestry, outdoor recreation, and responsible management practices. Students must enjoy outdoor activities and be willing to engage in safe, productive learning outside the classroom. Unique opportunities exist through use of the program's 66-acre Forsaith Forest Area in Chester, our own Christmas tree farm, a firewood business, and one of the few operating sugar houses in the area. [DOE CIP code is 030101 Natural Resources/Conservation.] **NOTE: Introduction to Natural Resources is NOT a prerequisite for this course. Note: Registration through the CTE Office is required.**

CCP
Full Year
2 Credits
Double
Period
Gr. 11

This full-year, 2 credit, course is the first half of a 2-year program and is designed for anyone who wishes to learn welding and metal fabrication. Students are instructed in the safe operation of all tools, material handling, and techniques used in welding. Areas of instruction include flame cutting, brazing, gas welding, arc welding, and metal-fabrication.

CCP
Full Year
2 Credits
Double
Period
Gr. 12

This full-year, 2 credit, course is the second half of a 2-year program and intensifies, follows through, and elaborates on material covered in Welding Technology I. Emphasis will be on entry level job proficiency with gas welding, soldering, cutting skills with ferrous and non ferrous materials, shielded electrode arc welding equipment, metal fabrication and power tools, metal inert gas (MIG) welding and tungsten inert gas (TIG) welding. Modern welding techniques developed for aluminum and steel alloys will be skill options available to students. Focus will be on production, fabrication, and repair skills rather than home type objectives.

Evening Division

The Evening Division program offers students a way to learn outside of the traditional school day. Most Evening Division students are taking classes during the daytime as well. Many students use Evening Division courses to supplement their educational program, while others are ‘catching up’ with their credit status. Students in these classes, which utilize the same curricula and many of the same teachers as the day school program, earn CCP credit towards a Timberlane Regional High School diploma. Students wishing to complete their education solely in the evening must complete the exact same requirements as students in the day program. Those interested should contact their guidance counselor for a schedule of the classes, requirements for entry, and restrictions on the number of absences. Most classes meet one evening a week, from 6:00—9:00 pm. Specific class offerings are finalized in August and December of each school year. For more information, please contact the guidance office at the high school.

Courses typically offered through Evening Division (subject to change):

Course Descriptions:

ART

Foundations of Art	ED57
CCP	Fundamental two-dimensional and three-dimensional art and design will be investigated.
Spring	Elements of art, drawing and painting skills, expressive ideas and imaginative thinking will be reinforced. Introduction to artists and techniques both contemporary and historic are included to enhance understanding. Foundations of Art is a prerequisite to all other Art Department courses.
.5 Credit	
Gr. 9-12	

BUSINESS

Microsoft Office Essentials	ED33
CCP	This hands-on course is designed to develop proficiency in Microsoft Office and enhance decision making, productivity communication and problem solving skills. Instructional strategies include computer/technology applications, interdisciplinary and/or culminating projects, problem solving and critical thinking activities. Integral to the course will be student creation and design of original documents. This course meets computer requirements for graduation.
Spring	
.5 Credit	
Gr. 9-12	

ENGLISH

World Literature	ED36
CCP	In this course, students will explore world literature that is chosen for its relevance as an expression of human thought and its relationship to students’ own experiences. Students will learn to analyze texts and research, understand the societies from which they emerged, and recognize the roles those societies played in shaping today’s world. Literature will represent a variety of genres and cultures. Students will continue to develop skills through vocabulary development, informational writing, argumentative writing, research, and oral presentations.
Fall	
1 Credit	
Gr. 10-12	




American Literature	ED34
CCP	This course focuses on the major movements of American Literature including: Puritanism, Romanticism, Realism, Modernism, and Post-Modernism. A variety of texts will be read including: poetry, drama, fiction, and non-fiction that also correspond to the major movements in US history. Students will continue to develop skills through vocabulary study, literary analysis, and composition. A major research paper is an expectation of all students in this course.
Spring	
1 Credit	
Gr. 11-12	



Expository Writing

ED142

CCP
Fall
.5 Credit
Gr. 11-12




Expository Writing is a course in nonfiction writing designed to foster critical and complex thinking. Students will compose a variety of analytical essays in the following genres: personal, definition, compare and contrast, persuasive, and research. Throughout the course, emphasis will be placed on prewriting, revision and frequent peer and teacher conferences. In addition, the class will read the work of the professional authors as a means of exploring writing strategies and of understanding the links between reading and writing. Regular and varied reading of informational texts and nonfiction is also required. Vocabulary development will be a regular feature of this course.

Introduction to Critical Analysis

ED143

CCP
Fall
.5 Credit
Gr. 11-12




This course prepares students to read, write, speak, and listen in order to critically analyze a variety of genres of text. Emphasis will be placed on analysis strategies for developing effective critiques on literary and informational topics. All formal writing assignments will be process-centered; that is, pre-writing, peer and teacher conferencing, and frequent revision. Additional focus will be placed on evaluating opinions and collaborating through discussion as a means to critique literary and informational texts. Vocabulary study is an expectation of each student.

Shakespeare

ED45

CCP
Spring
.5 Credit
Gr. 11-12



Students in Shakespeare engage in analysis of Shakespeare's works. Representative plays and poetry will be read and critiqued through discussion and writing. In addition, the literature will be studied within the historical and cultural context of Elizabethan/Jacobean England. Each student will be required to complete a research project on one aspect of Shakespeare's work.

The Short Story and Its Writer

ED46

CCP
Spring
.5 Credit
Gr. 11-12

Students in this course will trace the development of the art of short story writing from the nineteenth century and twentieth century. Students will study a number of authors and literary movements. Writing skills such as character development, construction of plot, point of view, setting, and figurative language, will be developed through analysis and practice. Students will complete analytical, argumentative and research based essay writing. In addition to the texts that are read and the writing that is completed, class discussions, grammar study, and vocabulary study will be integral components of the course.

HEALTH AND PHYSICAL EDUCATION

Fitness Education

ED55

CCP
Fall/Spring
.5 Credit
Gr. 10-12

This course will cover the 5 Components of Physical Fitness (Cardio-vascular endurance, muscular strength, muscular endurance, flexibility, and body composition). Students will engage in a variety of activities such as, but not limited to; strength training, yoga, interval training, plyometric workouts, and dance. Students will take responsibility for their own personal fitness levels. Individual fitness plans will be developed and monitored throughout the course.

Health I (Blended*)

ED17

CCP
Fall
.5 Credit
Gr. 9-12

The Health I course is designed to provide students with current information regarding the dimensions of health while giving them an opportunity to apply necessary skills for the future to be a healthy person. The topics students will be learning include, but are not limited to: Personal Health and Skills, Mental and Emotional Health, First Aid, CPR and AED, Alcohol, Tobacco, and Other Drugs, Nutrition, and Human Sexuality. The goal of this course is to explore major health topics and help students develop the necessary skills to achieve and maintain high-levels of health.

Health II (Blended*)

ED17B

CCP
Spring
.5 Credit
Gr. 10-12

Health II will take a deeper look at many of the course topics that were introduced in Health I. These topics may include but are not limited to: Eating Disorders, Addiction and Recovery, Healthy Relationships, and refresh skills in CPR and using an AED. Hands on activities, discussions, technology, and project based learning will be a large component of this class. Students will also be required to complete a service learning component. **Prerequisite: Successful completion of Health I.**

**A blended course is a course that integrates online with traditional face-to-face class activities. There will only be 8 meetings of the class with the majority of the work for the course being done in an online environment. Students need to be able to work independently and have good organizational and time management skills to be successful in this type of course.*

MATH

Algebra I

ED26

CCP
Fall
1 Credit
Gr. 10-12



Students in Algebra I—CCP will develop problem-solving skills through the use of algebra, functions, relations, and analysis. Students will become fluent in algebraic simplification, solving equations, inequalities, and systems, and analyzing and transforming both linear and non-linear functions. Models, tables, equations, and graphs will form a basis for interpreting and analyzing data. Students will be expected to effectively communicate their processes both orally and in writing and to critique the reasoning of others. This course solidifies the foundation for all future math courses.

Applied Geometry

ED24

CCP
Fall/Spring
1 Credit
Gr. 10-12

This course is designed to support students who have had difficulty with the Algebra I concepts. Applied Geometry will engage and challenge students with all the topics presented in a traditional geometry program. These topics include angle and segment measurement, triangles, quadrilaterals, congruency, parallelism, similarity, circles, and an introduction to trigonometry. The program is designed to appeal to all learners with topics introduced by using hands-on activities that reflect real-life applications. Technological tools and Internet-based resources will be an integral part of classroom activities. **Prerequisite: Successful completion of Algebra I.**

Foundations of Algebra II

ED30

CCP
Fall/Spring
1 Credit
Gr. 11-12

The course provides the student with the basic algebra manipulation skills needed to compute solutions within the NHCTC curriculum. The algebra topics offered are signed numbers, polynomial operations, solutions of linear equations and inequalities involving numerical and literal terms, factoring polynomials, word problems, formula manipulation, graphing linear equations, systems of linear equations and equations by factoring or the quadratic formula as well as quadratic equations and exponential functions. **Prerequisites: Successful completion of Algebra I and Geometry.**

SCIENCE

Physical Science

ED19

CCP
Fall
1 Credit
Gr. 10-12



The purpose of this course is to provide a comprehensive introduction to the foundational concepts of physics and chemistry. This course is designed to serve as a prerequisite for other science courses.

Applied Biology

ED54

CCP
Spring
1 Credit
Gr. 10-12

This course involves the practical application of biological concepts to everyday life. Students will learn to be global citizens by studying topics such as environmental issues, animal husbandry, horticulture, and new advances in genetic engineering.

Environmental Science

ED42

CCP
Fall
.5 Credit
Gr. 11-12



This course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Students will take part in outdoor laboratory experiences and gain hands-on experience in environmentally related topics. **Prerequisite: Successful completion of Physical Science and Biology or Departmental approval.**

Introduction to Meteorology

ED145

CCP
Half Year
.5 Credit
Gr. 11-12



This course provides a survey of weather study including topics such as history of weather observations, atmospheric structure and composition, earth-sun relationships, air pressure and winds, cloud formation, air masses and resulting precipitation. Weather phenomena, such as hurricanes and tornadoes are investigated and the study of climates is introduced. **Prerequisite: Successful completion of two years of science.**

SOCIAL STUDIES

World History

ED35

CCP
Fall
1 Credit
Gr. 10-12



World History builds upon the learning from the middle school curriculum and begins with a study of the Renaissance, moving into the Enlightenment, Age of Exploration and eventually into the 21st Century. This course includes units relating to events in Europe, Asia, Africa and the Americas. Students will be asked to use their classroom learning to interpret historical events. Analysis of primary sources, Internet and library-based research, field trips, reading from the text and other sources, film analysis and classroom discussions are all possible learning techniques.

United States History**ED16**

CCP
 Spring
 1 Credit
 Gr. 11-12



United States History builds upon the learning from the middle school curriculum and begins with a study of the end of the Civil War. This course takes an in-depth look at the events of the last part of the 19th Century, all of the 20th Century, and uses that learning to analyze the events of the first decade of the 21st Century. Students will be asked to join in classroom discussion, read outside of class, think creatively and write about their learning. A particular emphasis will be placed on the process of researching and writing a long-form paper.

American Values in Film and Music**ED52**

CCP
 Spring
 .5 Credit
 Gr. 11-12

This course used film and music to examine traditional and contemporary American values and ethical issues. Students will be able to explain how American values are represented in mass media and how they are perceived by outside sources. Personal traits of courage, love, family and integrity, in addition to social issues of racism, morality, freedom of religion, altruism and social justice will be explored. Because movies and television are filled with historical inaccuracies, the purpose of the course will not be to teach history but to use film and popular music as a vehicle for the students to examine and analyze society and themselves. Students may contract for accelerated credit.

Cultural Geography**ED58**

CCP
 Fall
 .5 Credit
 Gr. 11-12



This course deals with the interconnectivity of culture, politics, economics, religion, and human perception and regionalization. Students will recognize that places and regions serve as symbols for individuals and societies. Students will distinguish how cultural traits shape the characteristics of a region, analyze the increasing interdependence of the world's countries, and demonstrate how cooperation and conflict are involved in shaping the distribution of social, political, and economic spaces on Earth. Students will also explain the results of globalization and how changes in the physical environment can diminish its capacity to support human activity.

Current Issues**ED48**

CCP
 Spring
 .5 Credit
 Gr. 11-12



This course will provide the students with a perspective of events and trends in the world as well as a contemporary view of history in the making. The development of communication, critical-thinking, decision-making, research and geography skills will center around strong student interaction. General topics include political, economic, and social trends, the environment, crime and international relations, and current world events.

Geography of Life**ED824**

CCP
 Fall
 .5 Credit
 Gr. 11-12



This course concentrates on geographic systems, migrations, choices of people to adapt to the environment around them in order to survive and vice versa. Students will use geographic tools to depict geographic issues, explain the interaction of the Earth's physical systems, and be able to recognize the importance of ecosystems in understanding environmental issues. Students will identify modern world population trends in both, numbers and patterns characterized by regionalization. Students will explore how the use and development of natural resources use change over time.