Program of Studies

Timberlane Regional High School

'15 '16

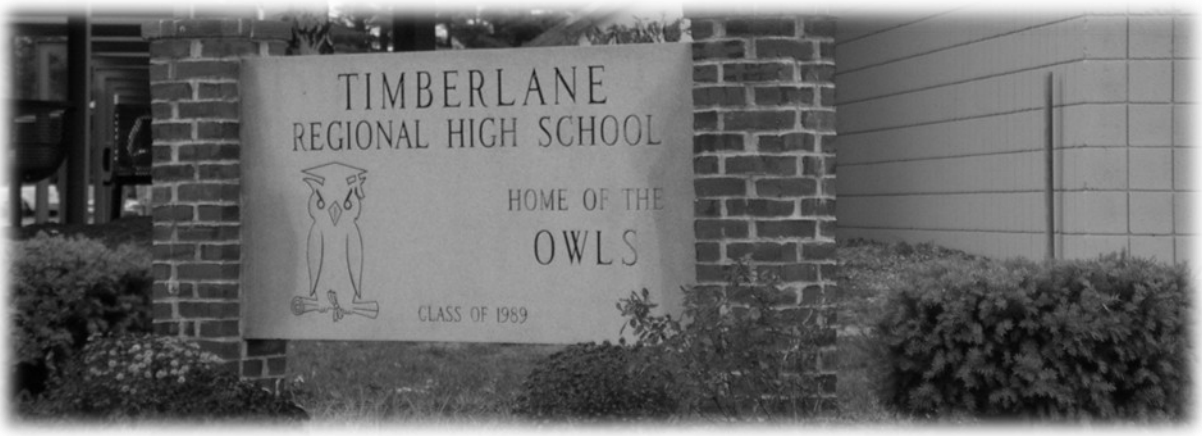
A Message for Students

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

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Timberlane Regional High School

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Maura Maher	Counselor
Robyn Mahoney	Counselor
Lisa Petry	Counselor
Sharon Skinner	Registrar
Kerri Fitzpatrick	Admin. Assistant: Guidance

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Mission Statements

Timberlane Regional School District Mission

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.

Timberlane Regional High School Mission and Expectations

Mission Statement:

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.

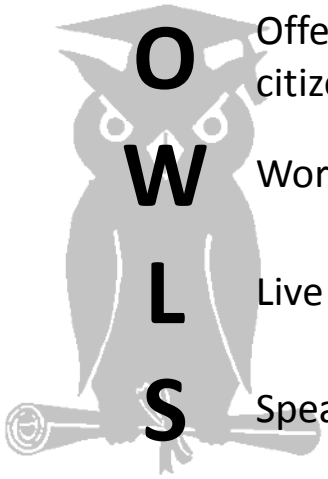
Academic Expectations:

Timberlane students will:

- Write effectively.
- Use problem-solving strategies effectively.
- Research and gather information effectively.

Social and Civic Expectations:

Timberlane students will:



O Offer their best effort and be involved, contributing citizens at school and in the wider community.

W Work cooperatively and resolve conflicts peacefully.

L Live responsibly and lend a helping hand to those in need.

S Speak and act respectfully toward 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 Registration which occurs during the Second Semester of each school year. There may be changes made to the Program of Studies after the distribution of the Program of Studies due to a variety of reasons. *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 Cassius Ferguson, Class of 2015. Congratulations Cassius 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 Program of Studies is accompanied by a designation according to the ability level that is required of a student to successfully complete the course. Courses are designed to meet the student's needs on four ability levels: Advanced Placement, Accelerated, College & Career Prep, and Non-Level.

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, equivalent to a college-level class. Students enrolled in AP courses are required to take the equivalent AP Exam administered in May.

Accelerated (ACC)

Courses at this 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
- Are recommended to have earned a final grade of 90% or higher in previous CCP course
- Must be in compliance with any additional selection criteria established

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

Students may choose to take a course at the CCP or ACC 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.

College and Career Preparatory (CCP)

Courses at this 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.

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 level designation given to courses is important as it 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.

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.

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

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

There have been some changes in the Program of Studies for the 2015-2016 school year. To keep the curriculum current and responsive to students' needs and suggestions, the following courses have been added pending school board approval:

AP Physics I
AP Physics II
AP French Language and Culture
AP Spanish Language and Culture

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 *Program of Studies* at this time.
2. Students review the *Program of Studies* with their parents/guardians.
3. Course Selection Day is held closely after class meetings. Students receive course selection sheets. Teachers will mini-conference with students regarding recommended courses/levels for the following year. Teachers sign their recommendations on students' course selection sheets, which are collected at the end of the day.
4. Students have individual conferences with their guidance counselor to review course selections and graduation requirements.
5. Student course requests are posted on PowerSchool for parents to review.
6. In early 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 early May.
8. Student schedules are posted on PowerSchool or mailed home in August.

NOTE: The course selection process could change as TRHS transitions to online course selections. Updated course selection procedures will be published on the TRHS website, www.timberlanehs.com, once they have been determined and approved.

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 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. The following protocol is recommended:

- Meet with a 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 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.
- 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.

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
- 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, but will not require the writing of examinations or term papers. 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 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. A course's dual enrollment status may be dependent on teacher availability, enrollment numbers, and fees.

Project Running Start

Students who participate in Running Start are able to earn high school credit and college credit simultaneously. The courses taught through the Running Start program are college courses delivered at the high school by credentialed high school faculty as part of the daily class schedule.

Taking a college course while still in high school helps students learn about college expectations and sharpen academic skills while offering them a chance to discover what college classes are like before they arrive on a college campus. That means students will have a "Running Start" on other first-year students who have no prior college experience. Accepting the challenge of taking college coursework shows that a student is serious and wants to make the most of his/her educational career.

SNHU in the High School

Southern New Hampshire University (SNHU) in the high school's 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 the University. The high school teachers instructing these courses meet the University's adjunct faculty requirement and have been approved by the University. 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 GradPoint, 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 GradPoint 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 GradPoint program. Passing grades typically are 80%. Students who successfully use GradPoint 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 overall grade for *the course* will be calculated using the 60% grade. All recovery ***MUST*** be completed by the close of the following marking period.

Currently available curricula

Algebra I	Physical Science	Economics
Geometry	Biology	Government
Algebra II	Chemistry	US History
Foundations Alg. II	Physics	World History

English Credit Recovery Options

In order to successfully recover a passing grade for a prior quarter, students must complete all of the outlined assignments. Students will meet with the Credit Recovery Instructor once a week to receive and review the assigned work.

In general, a passing grade is determined by receiving passing scores on all of the assigned work in a unit. The work may be revised for a passing score. The passing grade for all work will be determined by the Credit Recovery Instructor. Passing grades normally are 80%. Students who are successful will recover from a failing quarter and 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 overall grade for *the course* will be calculated using the 60% grade.

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.

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.

NEW HAMPSHIRE STATE SCHOLARS CORE CURRICULUM COURSES	**YEARS**
English – English 1, World Literature, American Literature, Senior Electives	4
Mathematics – Algebra I, Geometry, Algebra 2 or higher	3
Science – Biology, Chemistry, and Physics (preferred)	3
Social Studies - Required: Economics, Government, World History, US History, and an additional 0.5 credit elective	3.5
Languages – 2 consecutive years of the same language other than English	2

Graduation Requirement	Subject	Grade 9 Courses	Grade 10 Courses	Grade 11 Courses	Grade 12 Courses
4 credits	**English**	English I	World Lit., World Studies	American Lit., American Studies	2 Semester Senior English Electives, Journalism, AP English
3 credits	**Mathematics**	Algebra I	Geometry	Algebra II	Pre-Calculus, Trigonometry, AP Math Courses
3 credits	**Science**	Physical Science	Biology	Chemistry, Physics, AP Science Courses	Chemistry, Physics, AP Science Courses
3.5 credits	**Social Studies**	Govt./Econ	World History, World Studies, AP World	US History, American Studies, AP US History, Social Studies Electives	Social Studies Electives
2 credits	**World Language**	French, German, Spanish	French, German, Spanish	French, German, Spanish	French, German, Spanish

NCAA

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#

Graduation Requirements Worksheet

Program Area √		Standard	Technical	Scholastic
		Credits Required		
Fine Arts • *Art, Music, or Theater*		.5 ☐	.5 ☐	1 ☐
Technology • *For a full listing of eligible courses please see page 16*		.5 ☐	.5 ☐	.5 ☐
English • *Freshman English, World Lit. or World Studies, American Lit. or American Studies, and 2 Semester English Elective Courses, Journalism, or AP*		4 ☐	4 ☐	4 ☐
Mathematics • *Algebra I, Geometry, and one additional Mathematics credit*		3 ☐	3 ☐	3 ☐ Algebra II Required
Mathematics or Science (one additional credit in either)				1 ☐
Science • *Life Science, Physical Science, and one additional Science credit.*		3 ☐	3 ☐	3 ☐ Chemistry or Physics Required
Social Studies • *Government Today, Economics, World History or World Studies, American History or American Studies.*		3 ☐	3 ☐	3 ☐
World Languages • *French, German, or Spanish (three years of the same language during high school).*		optional *may be an elective*	optional *may be an elective*	3 ☐
Health and Physical Education All students are required to take Health I and choose three of the five Health/PE Electives in order to meet graduation requirements.	Health Education I	.5 ☐	.5 ☐	.5 ☐
	Health Education II	.5 ☐	.5 ☐	.5 ☐
	Fitness Education	.5 ☐	.5 ☐	.5 ☐
	Personal Activities & Life Skills	.5 ☐	.5 ☐	.5 ☐
	Intro to Team Sports	.5 ☐	.5 ☐	.5 ☐
	Competitive Fitness & Activities	.5 ☐	.5 ☐	.5 ☐
Courses in Area of Concentration • *2 years successful completion at a regional career and technical center or concentrated credit clusters at TRHS.*		N/A	3.5 - 5.5	N/A
Open Electives		6 ☐	1.5 - 3.5 ☐	4.5 ☐
Total Credits				
Total Credits Needed		**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)
- 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 Mathematics or Pre-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 Mathematics or Pre-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

Additional 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 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 Mathematics or Pre-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.

Technology Requirement Options

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

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

Courses Offered at a Glance

Explanation of Codes:

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

Art Department

Course		Level	Grades				Credits	Page No.
Foundations of Art	001	CCP	9	10	11	12	.5	25
2-D Art	002	CCP	9	10	11	12	.5	25
3-D / Sculpture	003	CCP	9	10	11	12	.5	25
Graphic Design	016	CCP	9	10	11	12	.5	25
Foundations of Painting	019	CCP	9	10	11	12	.5	25
Pottery I	010	CCP	9	10	11	12	.5	25
Pottery II	011	ACC		10	11	12	.5	26
Drawing	005	CCP		10	11	12	.5	26
Illustration and Cartooning	008	CCP		10	11	12	.5	26
Painting	007	CCP		10	11	12	.5	26
Photography I	012	CCP		10	11	12	.5	26
Photography II	017	ACC		10	11	12	.5	26
Digital Arts	018	CCP			11	12	.5	26
AP® Art: General Portfolio	013	AP			11	12	1	26

Business Department

Business & Technology Courses		Level	Grades				Credits	Page No.
Microsoft Office Essentials	108	CCP	9	10	11	12	.5	27
Desktop Publishing and Presentations	103	ACC	9	10	11	12	.5	27
Web Design	141	ACC	9	10	11	12	.5	27
Emerging Technologies	120	ACC	9	10	11	12	.5	27
Introduction to Business Principles	116	CCP		10	11	12	.5	27
Personal Money Management	118	CCP		10	11	12	.5	27
College Accounting I	119	ACC			11	12	.5	28
College Accounting II	122	ACC			11	12	.5	28
Entrepreneurship	117	ACC			11	12	.5	28
Exploring Teaching	140	ACC			11	12	.5	28
Practicing Teaching	142	ACC			11	12	.5	28
Marketing	125	CCP			11	12	.5	28
Sports and Entertainment Management	121	CCP			11	12	.5	28
Industrial Technology Courses		**Level**	**Grades**				**Credits**	**Page No.**
Introduction to Industrial Trades	550	NL	9	10	11	12	.5	29
Engineering Drawing	557	NL		10	11	12	.5	29
Architectural Drawing	559	NL		10	11	12	.5	29
Materials and Manufacturing / Wood Tech. I	577	NL	9	10	11	12	.5	29
Materials and Manufacturing / Wood Tech. II	579	NL		10	11	12	.5	29
Materials and Manufacturing / Wood Tech. III	580	NL			11	12	.5	29
AutoCad I	551	NL		10	11	12	.5	29
AutoCad II	552	NL		10	11	12	.5	29
AutoCad III	553	NL			11	12	.5	29

Business Department

Family and Consumer Science Courses		Level	Grades				Credits	Page No.
Child Development: Ages and Stages	501	NL		10	11	12	1	30
Child Care	503	NL			11	12	1	30
Creative Sewing	505	NL			11	12	.5	30
Designing Homes	525	NL			11	12	.5	30
Contemporary Culinary Arts	515	NL		10	11	12	.5	30
Gourmet Foods	513	NL		10	11	12	.5	30
Baking and Pastries	512	NL		10	11	12	.5	30
Engineering Courses		**Level**	**Grades**				**Credits**	**Page No.**
Introduction to Engineering Design I	180	ACC	9	10	11	12	1	31
Principles of Engineering II	181	ACC		10	11	12	1	31
Aerospace Engineering	186	ACC			11	12	1	31
Biotechnical Engineering	187	ACC			11	12	1	31
Civil Engineering and Architecture	188	ACC			11	12	1	31
Digital Electronics	182	ACC			11	12	1	31
Computer Integrated Manufacturing	183	ACC			11	12	1	32
Engineering Design and Development	184	ACC			11	12	1	32

Computer Science Department

Course		Level	Grades				Credits	Page No.
Creating Mobile Applications	160	ACC	9	10	11	12	.5	33
Visual Basic Programming I	155	ACC	9	10	11	12	.5	33
Visual Basic Programming I	153	CCP	9	10	11	12	.5	33
Visual Basic Programming II	136	ACC	9	10	11	12	.5	33
Intro to C++ Programming	156	ACC		10	11	12	.5	33
C++ Programming II	159	ACC		10	11	12	.5	33
Intro to Java	166	ACC			11	12	.5	34
Game Programming I / Animation	164	ACC			11	12	.5	34
Game Programming II / Web Game Design	165	ACC			11	12	.5	34
AP® Computer Science	167	AP			11	12	1	34

English Department

Course		Level	Grades				Credits	Page No.
English I	201	ACC	9				1	36
English I	203	CCP	9				1	36
World Literature	222	ACC		10			1	36
World Literature	221	CCP		10			1	36
World Studies	808	ACC/CCP		10			2	36
American Literature	216	ACC			11		1	36
American Literature	218	CCP			11		1	36
American Studies	816	ACC/CCP			11		2	37
Creative Book Transformation	230	ACC/CCP			11	12	.5	37
Creative Writing Workshop	229	ACC/CCP			11	12	.5	37
Creative Writing Workshop II	231	ACC/CCP			11	12	.5	37

English Department (continued)

Course		Level	Grades				Credits	Page No.
Film Studies (Elective Credit Only)	264	ACC/CCP			11	12	.5	37
Graphic Novel as Literature	268	ACC/CCP			11	12	.5	37
Journalism	263	ACC/CCP			11	12	1	37
Public Speaking (Elective Credit Only)	266	ACC/CCP			11	12	.5	37
Portfolio Writing	172	ACC/CCP			11	12	.5	38
Gender Issues in Literature	262	ACC				12	.5	38
Expository Writing	209	ACC				12	.5	38
Expository Writing		CCP				12	.5	38
Introduction to Critical Analysis	223	ACC				12	.5	38
Introduction to Critical Analysis		CCP				12	.5	38
Modern World Literature	260	ACC				12	.5	38
Shakespeare	235	ACC				12	.5	38
The Short Story and Its Writer	255	CCP				12	.5	39
AP® English Literature and Composition	227	AP				12	1	39

Health and Physical Education Department

Course		Level	Grades				Credits	Page No.
PE/Introduction to Team Sports	403TS	CCP	9				.5	40
PE/Introduction to Team Sports	405TS	CCP		10	11	12	.5	40
PE/Personal Activities and Life Skills	403LS	CCP	9				.5	40
PE/Personal Activities and Life Skills	405LS	CCP		10	11	12	.5	40
Fitness Education	413	CCP		10	11	12	.5	40
Health I	402	CCP	9	10	11	12	.5	40
Health II	412	CCP		10	11	12	.5	40
PE/Competitive Fitness and Activities	407FA	CCP			11	12	.5	40

Mathematics Department

Course		Level	Grades				Credits	Page No.
Algebra I	607	ACC	9				1	41
Algebra I	609	CCP	9				1	41
Algebra Lab	610	NL	9				1	42
Geometry	613	ACC	9	10			1	42
Geometry	615	CCP		10	11	12	1	42
Applied Geometry	616	CCP		10	11	12	1	42
Algebra II	619	ACC		10	11		1	42
Algebra II	621	CCP		10	11	12	1	42
Foundations of Algebra II	637	CCP			11	12	1	42
Discrete Mathematics	635	ACC			11	12	1	42
Introduction to Probability & Statistics	632	CCP			11	12	.5	43
Pre-Calculus	629	ACC			11	12	1	43
Trigonometry	631	CCP			11	12	.5	43
College Mathematics—Running Start	638	CCP			11	12	1	43
AP® Calculus	633	AP				12	1	43
AP® Statistics	636	AP				12	1	43

Music Department

Course		Level	Grades				Credits	Page No.
Band	057	NL	9	10	11	12	1	44
Chorus	052	NL	9	10	11	12	1	44
Orchestra	058	NL	9	10	11	12	1	44
Concert Choir	055	NL	9	10	11	12	1	44
Jazz Band	061	ACC	9	10	11	12	.5	44
Jazz Band	062	CCP	9	10	11	12	.5	45
Survey of Music	051	CCP	9	10	11	12	.5	45
Theory I	063	ACC	9	10	11	12	.5	45
Theory II	065	ACC	9	10	11	12	.5	45
Introduction to Basic Guitar	067	CCP	9	10	11	12	.5	45
Guitar II	069	CCP	9	10	11	12	.5	45
Guitar Orchestra	070	NL	9	10	11	12	1	45
Select Ensemble	056	ACC		10	11	12	1	45

Science Department

Course		Level	Grades				Credits	Page No.
Physical Science (blocked)	705	ACC	9				1	46
Physical Science (blocked)	707	CCP	9				1	46
Biology	709	ACC	9	10	11	12	1	46
Biology	711	CCP		10	11	12	1	47
Applied Biology	713	CCP		10	11	12	1	47
Chemistry	727	ACC		10	11	12	1	47
Chemistry	729	CCP		10	11	12	1	47
Chemistry (blocked) - Paired Course	727BL	ACC		10	11	12	1	47
Physics (blocked) - Paired Course	731BL	ACC		10	11	12	1	47
Physics	731	ACC		10	11	12	1	47
Physics	733	CCP		10	11	12	1	47
Applied Physical Science	708	CCP			11	12	1	47
Environmental Science	722	ACC			11	12	.5	48
Environmental Science	721	CCP			11	12	.5	48
Human Anatomy and Physiology	715	ACC			11	12	1	48
Human Anatomy and Physiology	717	CCP			11	12	.5	48
Introduction to Meteorology	723	CCP			11	12	.5	48
Marine Biology	739	ACC			11	12	.5	48
Oceanography	741	ACC			11	12	.5	48
Botany	743A	ACC			11	12	.5	49
Botany	743	CCP			11	12	.5	49
Zoology	744A	ACC			11	12	.5	49
Zoology	744	CCP			11	12	.5	49
Investigations in Space Science	745	ACC			11	12	.5	49
AP® Biology	737	AP			11	12	1	49
AP® Chemistry	735	AP			11	12	1	49
AP® Physics I	734	AP			11	12	1	50
AP® Physics II		AP			11	12	1	50
AP® Environmental Science	742	AP			11	12	1	50

Social Studies Department

Course		Level	Grades				Credits	Page No.
Economics (Blocked)	826	ACC	9				.5	51
Economics (Blocked)	828	CCP	9				.5	51
Government Today (Blocked)	803	ACC	9				.5	51
Government Today (Blocked)	804	CCP	9				.5	51
World History	806	ACC		10			1	52
World History	811	CCP		10			1	52
World Studies	808	ACC/CCP		10			2	52
AP® World History	821	AP		10	11	12	1	52
United States History	807	ACC			11		1	52
United States History	809	CCP			11		1	52
American Studies	816	ACC/CCP			11		2	52
AP® United States History	819	AP			11	12	1	52
American Values in Film and Music	841	ACC/CCP			11	12	.5	53
Constitutional Law	832	ACC			11	12	.5	53
Cultural Geography	823	CCP			11	12	.5	53
Current Issues	843	CCP			11	12	.5	53
Geography of Life	824	CCP			11	12	.5	53
History of Sports	833	ACC/CCP			11	12	.5	53
Law	831	CCP			11	12	.5	53
Popular Culture	834	ACC/CCP			11	12	.5	53
Psychology	839	CCP			11	12	.5	54
Sociology	835	CCP			11	12	.5	54
AP® European History	844	AP				12	1	54
AP® Government	820	AP				12	1	54
AP® Human Geography	822	AP				12	1	54

Special Education Department

Course		Level	Grades				Credits	Page No.
TEP English I	964	CCP	9				1	55
TEP English II	965	CCP		10			1	55
TEP English III	966	CCP			11		1	55
TEP Short Story	967C	CCP				12	.5	55
TEP Portfolio Writing	967D	CCP				12	.5	56
TEP Algebra I	969	CCP	9	10			1	56
TEP Geometry	985	CCP		10	11		1	56
TEP Foundations of College Math	969B	CCP			11	12	1	56
TEP Government	968G	CCP	9	10			.5	56
TEP Economics	968	CCP	9	10			.5	56
TEP World History	971	CCP		10	11		1	56
TEP US History	970	CCP		10	11	12	1	56
Life Skills	980	CCP	9	10	11	12	.5	56
Reading	960	NL	9	10	11	12	1	56
Learning Center	900	NL	9	10	11	12	.5	57
Assisted Study	999	NL	9	10	11	12	NC	57

Theater Department

Course		Level	Grades				Credits	Page No.
Introduction to Theater	252	NL	9	10	11	12	.5	56
Improvisation	267	NL	9	10	11	12	.5	56
Advanced Acting	265	ACC		10	11	12	.5	56
Playwriting	253	ACC			11	12	.5	56

World Language Department

Course		Level	Grades				Credits	Page No.
French I	307	CCP	9	10	11	12	1	59
French II	314	ACC	9	10	11	12	1	59
French II	313	CCP	9	10	11	12	1	59
French III	320	ACC		10	11	12	1	59
French III	319	CCP		10	11	12	1	60
French IV	331	ACC			11	12	1	60
French IV	327	CCP			11	12	1	60
French V	338	ACC				12	1	60
AP® French/Language & Culture		AP				12	1	60
German I	309	CCP	9	10	11	12	1	59
German II	316	ACC		10	11	12	1	59
German II	315	CCP		10	11	12	1	59
German III	323	ACC			11	12	1	59
German IV	333	ACC				12	1	60
Spanish I	311	CCP	9	10	11	12	1	59
Spanish II	318	ACC	9	10	11	12	1	59
Spanish II	317	CCP	9	10	11	12	1	59
Spanish III	322	ACC		10	11	12	1	59
Spanish III	321	CCP		10	11	12	1	60
Spanish IV	335	ACC			11	12	1	60
Spanish IV	324	CCP			11	12	1	60
Spanish V	340	ACC				12	1	60
AP® Spanish Language & Culture		AP				12	1	60
Latin (Elective Credit Only)	341	ACC			11	12	1	60

Career and Technical Education—Salem High School

Course		Level	Grades				Credits	Page No.
Automotive Technology I	861	CCP			11		2	61
Automotive Technology II	863	CCP				12	2	61
Biotechnology:								
Biotechnology	870A	CCP			11		1	62
Microbiology	870	CCP			11		1	62
Advanced Topics in Biotechnology	872B	CCP				12	1	62
Building Trades I	865	CCP			11		2	62
Building Trades II	867	CCP				12	2	62
Business & Office Administration:								
Word Processing: Business & Personal Use	878B	CCP			11		1	63
Business & Office Administration I	878C	CCP			11		1	63
Business & Office Administration II	878D	CCP				12	2	63
Careers in Education I	857A	CCP			11		2	63
Careers in Education II	857B	CCP				12	2	63
Computer Networking & Repair:								
Computer Maintenance & Repair I	873A	CCP			11		1	64
Computer Networking	873B	CCP			11		1	64
Adv. Computer Maintenance & Repair	875	CCP				12	2	64
Computer Software & Media Applications:								
Information & Computer Technology	897C	CCP			11		.5	64
Advanced Microsoft Office	897B	CCP			11		1	64
Adobe Creative Suite 1	898A	CCP				12	1	64
Adobe Creative Suite 2	898B	CCP				12	1	64
Culinary Arts I	881	CCP			11		2	65
Culinary Arts II	883	CCP				12	2	65
Health Science and Technology I	889	CCP			11		2	65
Health Science and Technology II	891	CCP				12	2	66
Marketing Education I	893	CCP			11		1	66
Marketing Education II	895	CCP				12	2	66
Television Production I	864	CCP			11		2	67
Television Production II	858	CCP				12	2	67

Career and Technical Education—Pinkerton Academy

Course		Level	Grades				Credits	Page No.
Introduction to Animal Science	859A	CCP			11		.5	68
Animal Business Management	859	CCP			11		1	68
Animal Health & Veterinary Technology	859B	CCP				12	2	68
Cosmetology I	888	CCP			11		2	68
Cosmetology II	888A	CCP				12	2	68
Electrical Technology I	872	CCP			11		2	68
Electrical Technology II	872A	CCP				12	2	68
Environmental Studies/Outdoor Skills	884A	CCP			11	12	2	69
Forestry Technology I	884	CCP			11	12	2	69
Welding Technology I	874	CCP			11		2	69
Welding Technology II	874A	CCP				12	2	69

EVENING DIVISION

Art

Course		Level	Grades				Credits	Page No.
Foundations of Art		CCP	9	10	11	12	.5	70

Business

Course		Level	Grades				Credits	Page No.
Microsoft Office Essentials		CCP	9	10	11	12	.5	70

English

Course		Level	Grades				Credits	Page No.
World Literature		CCP		10	11	12	1	70
American Literature		CCP			11	12	1	70
Expository Writing		CCP			11	12	.5	71
Introduction to Critical Analysis		CCP			11	12	.5	71
Shakespeare		CCP			11	12	.5	71
The Short Story and Its Writer		CCP			11	12	.5	71

Health and Physical Education

Course		Level	Grades				Credits	Page No.
Fitness Education		CCP		10	11	12	.5	71
Health I (Blended*)		CCP	9	10	11	12	.5	71
Health II (Blended*)		CCP		10	11	12	.5	71

Math

Course		Level	Grades				Credits	Page No.
Algebra I		CCP	9	10			1	72
Applied Geometry		CCP		10	11	12	1	72
Foundations of Algebra II		CCP			11	12	1	72

Science

Course		Level	Grades				Credits	Page No.
Physical Science		CCP	9	10	11	12	1	72
Applied Biology		CCP		10	11	12	1	72
Environmental Science		CCP			11	12	.5	72
Introduction to Meteorology		CCP			11	12	.5	72

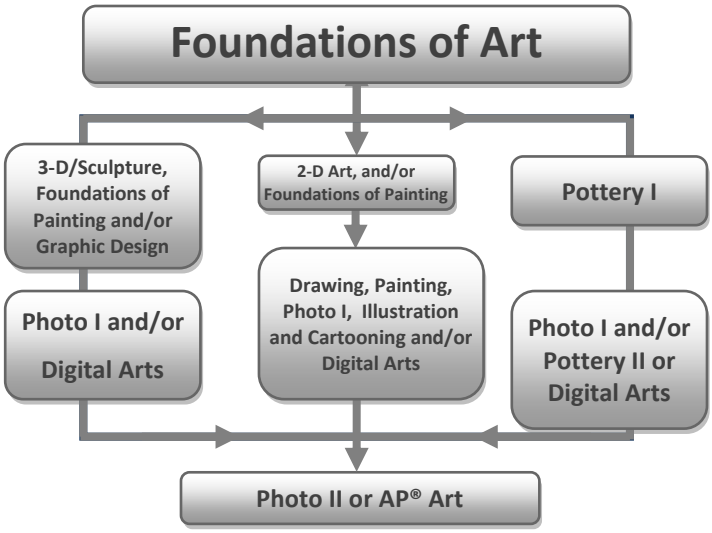
Social Studies

Course		Level	Grades				Credits	Page No.
Economics		CCP	9	10	11	12	.5	72
Government Today		CCP	9	10	11	12	.5	73
World History		CCP		10	11	12	1	73
United States History		CCP			11	12	1	73
American Values in Film and Music		CCP			11	12	.5	73
Cultural Geography		CCP			11	12	.5	73
Current Issues		CCP			11	12	.5	73
Geography of Life		CCP			11	12	.5	73

Art Department

Dessa Landry, Department Coordinator

The Art program is dedicated to developing fundamental visual skills and knowledge about artists and arts movements. This is done by requiring students to take Introduction to 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

CCP
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

CCP
Half Year
.5 Credit
Gr. 9-12

Principles of design are explored in a variety of media and techniques including pencil, acrylic, 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

CCP
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.***

Graphic Design 016

CCP
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.***

Foundations of Painting 019

CCP
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

CCP
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

CCP
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, Foundations of Painting or Departmental approval.***

Illustration and Cartooning 008

CCP
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, Foundations of Painting or Graphic Design or Departmental approval.***

Painting 007

CCP
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, Foundations of Painting or Departmental approval.***

Photography I 012

CCP
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, Foundations of Painting, Pottery I or***

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

CCP
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, Foundations of Painting, 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: An intermediate art class (such as 2-D Art, 3-D/ Sculpture, Graphic Design, Foundations of Painting, or Pottery I) plus an advanced art class (such as Pottery II) and Departmental approval.***

Business Department: Business & Technology

Susan Takesian, Department Coordinator

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:

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. This course meets computer requirements for graduation.

Desktop Publishing and Presentations 103

ACC
Half Year
.5 Credit
Gr. 10-12

This course is designed to integrate computer technology and develop communication skills using Microsoft Power Point and Microsoft Publisher. Areas of instruction will include multimedia desktop publishing, layout and design techniques, on-line searching, and other advanced applications. Instructional strategies will include computer/technology application, interdisciplinary and/or culminating projects, decision-making, problem-solving and critical thinking activities.

Web Design 141

ACC
Half Year
.5 Credit
Gr. 11-12

Students will learn essential elements of effective web page design utilizing Microsoft Expression Web and HTML code. Students will create multiple page web sites, creating links between pages and other web sites, format text, include Web graphics, and enhance design with Cascading Style Sheets (CSS). In a final project students will have an opportunity to research, write, organize, and code current and new web sites that serve the school community.

Emerging Technologies 120

ACC
Half Year
.5 Credit
Gr. 9-12

Emerging Technologies 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.

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.

Personal Money Management 118

CCP
Half Year
.5 Credit
Gr. 11-12

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 122
(SNHU Dual Enrollment opportunity)

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 enrolled in this dual credit course may earn three college credits 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 140

ACC
Half Year
.5 Credit
Gr. 11-12

This course is designed for students who want to learn about a career in education. It targets high school juniors and seniors in a series of activities that include classroom observations, teaching mini-lessons, attending related workshops and discussions with experienced educators. Exploring Teaching can serve as the first step towards a career in education. *Students successfully completing Exploring Teaching and Practicing Teaching with a grade "B" or better will qualify for college credit.* ***Prerequisite: Application process including recommendation of guidance counselor; minimum 2.5 GPA.***

Practicing Teaching 142
(Dual Enrollment opportunity)

ACC
Half Year
.5 Credit
Gr. 11-12

This hands-on course is a practicum that serves as a follow-up to Exploring Teaching. Emphasis is placed on preparation and execution of lesson plans. Students will develop their skills under the supervision of experienced educators at the elementary, middle school and high school levels. *Students successfully completing Exploring Teaching and Practicing Teaching with a grade of "B" or better will qualify for college credit.* ***Prerequisite: Grade of "B-" or better in Exploring Teaching.***

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.

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 teacher recommendation.***

Business Department: Industrial Technology

Susan Takesian, Department Coordinator

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.

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 a manufacturing related field. CAD instruction is individualized with a heavy emphasis on lab time using a "hands-on" drawing format. Inventor 3D modeling software will be introduced, which provides state-of-the-art computer drawings of the highest quality.

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 use problem-solving techniques to design an energy-efficient, cost-effective, solar-oriented home for which plans are drawn. Students will be introduced to AutoCAD software to electronically complete a set of professional style plans.

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 580

NL
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 .***

AutoCAD I 551
AutoCAD II 552
AutoCAD III 553

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.

Business Department: Family and Consumer Science

Susan Takesian, Department Coordinator

The Family and Consumer Science Department at Timberlane Regional High School provides students the opportunity to explore areas of foods and nutrition, textiles, 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: 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: 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: Contemporary Culinary Arts or Departmental approval.***

Business Department: Engineering

Susan Takesian, Department Coordinator

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 I (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 II (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, materials and materials testing, thermodynamics, engineering for quality and reliability and dynamics.

Aerospace Engineering 186

ACC
Full Year
1 Credit
Gr. 11-12

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.

Biotechnical Engineering 187

ACC
Full Year
1 Credit
Gr. 11-12

The major focus of this course is to expose students to the diverse fields of biotechnology including biomedical engineering, bio-molecular genetics, bioprocess engineering and agricultural and environment engineering. Lessons engage students in engineering design problems that can be accomplished in a high school setting related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology, tissue engineering, biomedical devices, human interface, bioprocesses, forensics, and bio-ethics.

Civil Engineering and Architecture 188

ACC
Full Year
1 Credit
Gr. 11-12

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.

Digital Electronics (NHTI Dual Enrollment opportunity) 182

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 Principles of Engineering and Introduction of Engineering Design or approval of previous Teacher/Department Coordinator.***

Computer Integrated Manufacturing 183
(NHTI Dual Enrollment opportunity)

ACC

Full Year

1 Credit

Gr. 11-12

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: Principles of Engineering and Introduction of Engineering Design or approval of previous Teacher/ Department Coordinator.***

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 Principles of Engineering and Introduction of Engineering Design, Digital Electronics or Computer Integrated Manufacturing or approval of previous Teacher/Department Coordinator.***

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 160

ACC
Half Year
.5 Credit
Gr. 9-12

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 programs. In the upcoming school year these applications will be designed to run on devices using the Android operating system. Expectations of the student include the ability to: successfully multiply and divide fractions, move objects on an x, y coordinate plane, read and follow very specific directions, and focus on details.

Visual Basic Programming I—ACC 155

ACC
Half Year
.5 Credit
Gr. 9-12

This semester course is recommended for students interested in an introduction to computer programming. Students will expand problem-solving skills by developing algorithms, designing graphical user interfaces, and writing programs in the Microsoft Visual Basic programming language. These skills will be applied to a wide variety of problems. Topics include: objects, variables, selection, repetition, strings, menus, multiple forms, and graphical user interface design. This course is an in-depth, fast-paced study of introductory topics in Visual Basic; students read word problems and solve them in Visual Basic. ***Prerequisite: Successful completion of Algebra 1.***

Visual Basic Programming I—CCP 153

CCP
Half Year
.5 Credit
Gr. 9-12

This semester course is recommended for students interested in an introduction to computer programming. Students will develop problem-solving skills by developing algorithms and writing programs in the Microsoft Visual Basic programming language. These skills will be applied to a wide variety of problems. Topics include: objects, variables, selection, repetition, strings, menus, multiple forms, and graphical user interface design. This course is a study of introductory topics in Visual Basic; students read word problems and solve them in Visual Basic. ***Prerequisite: Successful completion of Algebra 1.***

Visual Basic Programming II—ACC 136

ACC
Half Year
.5 Credit
Gr. 9-12

This semester course is a continuation of Visual Basic Programming I. Students will create Windows and Web applications using Visual Basic. Students will be working on more complex programs to develop their problem solving skills. Topics introduced will include procedures and functions, standard modules, arrays, structures, database concepts and management, file input/ output, and advanced data types. ***Prerequisite: Successful completion of Visual Basic Programming I or Departmental approval.***

Intro to C++ Programming 156

ACC
Half Year
.5 Credit
Gr. 10-12

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 structures, strings, loops, input/output and functions. This course provides the student with excellent preparation for most technical fields. ***Prerequisite: Departmental approval.***

C++ Programming II 159

ACC
Half Year
.5 Credit
Gr. 10-12

This semester course is a continuation of Introduction to C++ Programming. Students will further develop their programming abilities in this language. Object-oriented design and concepts will be introduced and explored. Topics will include data file basics, arrays, objects, and classes. ***Prerequisite: Successful completion of Intro to C++ Programming or Departmental approval.***

Intro to Java 166

ACC

Half Year

.5 Credit

Gr. 11-12

This course provides an introduction to Java, an object-oriented programming language. Through an introduction to console applications, graphical user interfaces, Java applets, and programmable robots students will learn key concepts of Java: objects, primitive data types, program statements, class definitions, and encapsulation. Good programming design and style is stressed. Object-oriented programming will be introduced, applied, and reinforced throughout the semester. ***Prerequisite: Departmental approval.***

Game Programming I / Animation 164

ACC

Half Year

.5 Credit

Gr. 11-12

This semester course is an interactive, project-based course that offers students an opportunity for self-expression through animation. Students learn animation basics in this introductory course. Topics include: objects, moving objects on an x, y coordinate plane, data, events, event handling, and animation. Expectations of the student include: independent learning, complex thinking, and producing of quality solutions. ***Prerequisite: Departmental approval.***

Game Programming II / Web Game Design 165

ACC

Half Year

.5 Credit

Gr. 11-12

This semester course is an interactive, project-based course that uses advanced animation programming skills. Students will program using game software, apply the design process, demonstrate programming concepts, and create a storyline by using scripting, string manipulation, looping, decision structures, and event handlers. Expectations of the student include: independent learning, complex thinking, and producing of quality solutions. ***Prerequisite: Successful completion of a previous programming course and departmental approval.***

AP® Computer Science 167

AP

Full Year

1 Credit

Gr. 11-12

NCAA

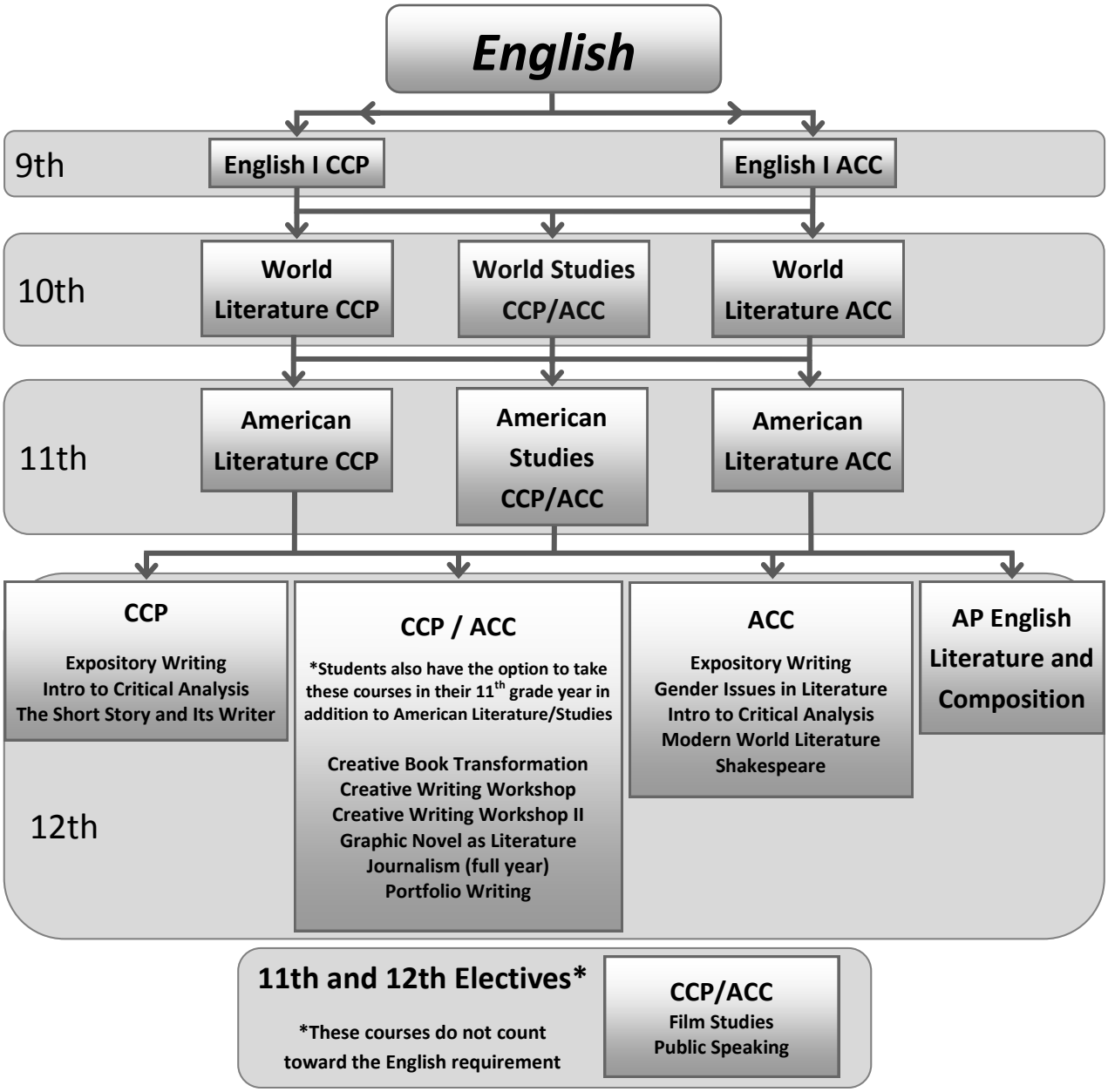
This course follows the curriculum guidelines put forth by the College Board. This is an intense study of computer science. Students use the Java programming language to learn and apply object-orientated concepts. Object-oriented design will be stressed throughout the course. Students will learn the 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. Students are required to take the AP exam in May. ***Prerequisite: Algebra II strongly suggested or Departmental approval.***

English Department

Jennifer Puchlopek, Department Coordinator

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 themselves to become people who understand 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, class participation, 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, class participation, and oral presentations.

World Studies (Blocked) 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 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.

American Literature—ACC 216

ACC

Full Year

1 Credit

Gr. 11

This course focuses on significant developments in philosophy, political thought, and cultural identity as expressed in literature. These themes correspond directly to those covered in United States History in order to emphasize the relevance of poetry, drama, and non-fiction. 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 significant developments in philosophy, political thought, and cultural identity as expressed in literature. These themes correspond directly to those covered in United States History in order to emphasize the relevance of poetry, drama, and non-fiction. 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 (Blocked) 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.

Creative Book Transformation 230

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

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 Workshop 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 perform original. Students may contract for accelerated credit.

Creative Writing Workshop II 231

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

This course is designed for students who have already explored creative writing in a semester of CWWI. 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 which students will self-publish as "chapbooks," using our latest technological resources. Students may contract for accelerated credit.

Film Studies—Elective 264

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

This course will introduce films which have had significant influence on the medium and the society to which they were presented. Students will watch and critique films, study how professional critics approach their work, 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***.

Graphic Novel as Literature 268

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

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.

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 acquirement and application of 21st century skills, as well as media literacy. Students may contract for accelerated credit.

Public Speaking—Elective 266

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

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, both large and small. 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.***

Portfolio Writing 172

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

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.

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, drama, informational text, and fiction will serve as prompts for discussion and writing.

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 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. 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

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 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—ACC 223

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. 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. 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

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. 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.

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.

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.

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.

Health and Physical Education Department

Angelo Fantasia, Director of Athletics, Secondary

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 and choose three of the five Health/PE Electives.

Course Descriptions:

PE/Introduction to Team Sports

Grade 9 403TS

Grade 10-12 405TS

CCP
Half Year
.5 Credit

Students will engage in a variety of team sports in an attempt to gain an appreciation and understanding of the various aspects of the activities. Aside from the participation component, the students may be required to fulfill other roles related to team sports such as, coaching, officiating, and acting as a member of the media. Activities may include, but not limited to: soccer, flag football, volleyball, basketball, lacrosse, and speedball.

PE/Personal Activities and Life Skills

Grade 9 403LS

Grade 10-12 405LS

CCP
Half Year
.5 Credit

This course will focus more activities on a personal level. The students will develop an appreciation for some outdoor activities, as well as for some lifelong recreational activities. Some of the activities that may be included in this course would be: orienteering, project adventure activities, snowshoeing, pickle ball, archery, bocce, and power walking.

Fitness Education 413

CCP
Half Year
.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 402

CCP
Half Year
.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 412

CCP
Half Year
.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 basic fitness concepts. 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.***

PE/Competitive Fitness and Activities 407FA

CCP
Half Year
.5 Credit
Gr. 11-12

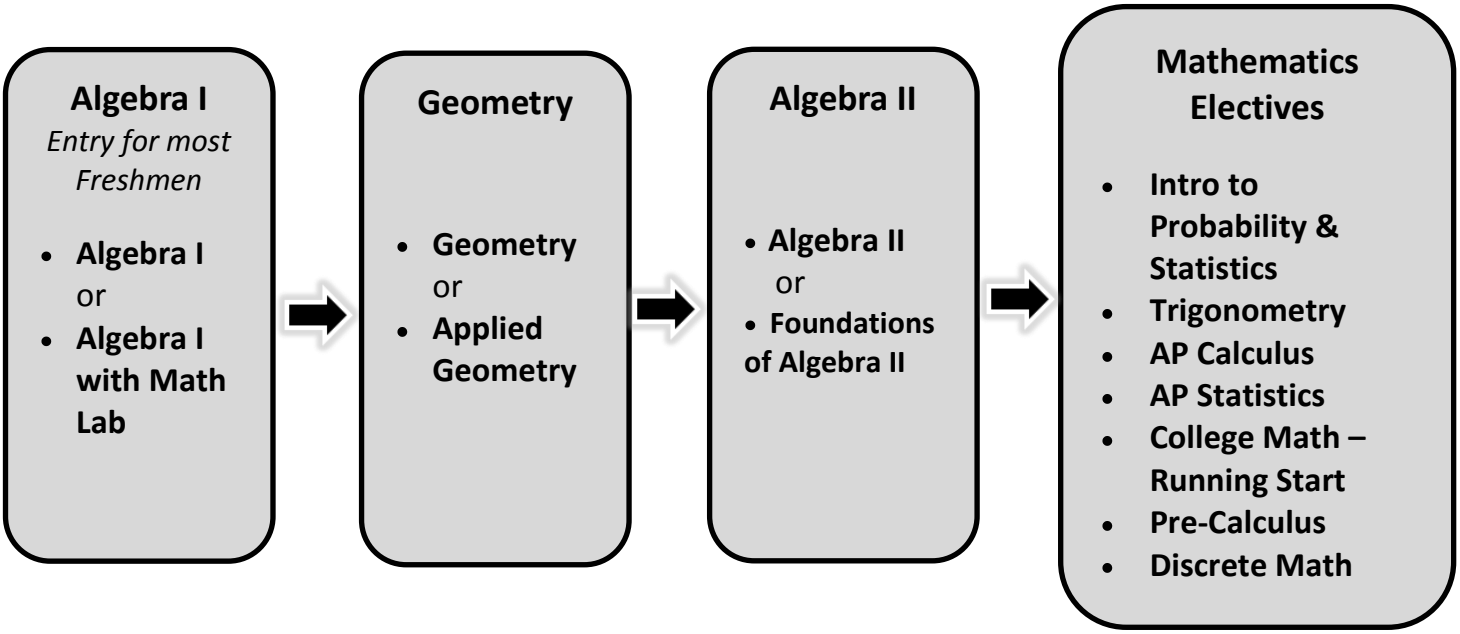
This elective course will be an intense combination of both team sports and fitness training. The students will be expected to participate regularly and to demonstrate working knowledge of imbedded concepts in a high-level fitness program that may include but not be limited to: weight training, aerobics, cardio-kickboxing, and plyometric activities. This class will include competitive components such as a "fitness challenge", in which students will be scored in a variety of personal and collaborative challenges. ***Prerequisite: Completion of both Introduction to Team Sports and Personal Activities and Life Skills.***

Mathematics Department

Jeffrey Baumann, Department Coordinator

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 New Hampshire Department of Education Mathematics Curriculum Frameworks, which is the basis for the assessment tests administered state wide during grade 11, guided by National Standards.



Course Descriptions:

Algebra I—ACC 607

ACC
Full Year
1 Credit
Gr. 9

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.

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. ***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: 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: Algebra I.**

Algebra II—ACC 619

ACC
Full Year
1 Credit
Gr. 10-11

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. **Prerequisite: Algebra I and Geometry.**

Algebra II—CCP 621

CCP
Full Year
1 Credit
Gr. 11-12

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. **Prerequisite: Algebra I and Geometry.**

Foundations of Algebra II 637

CCP
Full Year
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: Algebra I and Geometry.***

Discrete Mathematics 635
(SNHU Dual Enrollment opportunity)

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: Algebra I, Geometry, and Algebra II.***

Introduction to Probability & 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:** ***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: 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: Algebra II or Departmental approval.***

College Mathematics—Running Start 638

CCP

Full Year

1 Credit

Gr. 11-12

This course is designed to expose the student to a wide range of general mathematics. Problem Solving and Critical Thinking skills, along with the use of technology, will be emphasized and reinforced throughout the course as the student becomes actively involved solving applied problems. Topics to be covered include: number theory and systems, functions and modeling, finance, geometry and measurement, set theory, probability and statistics, and selected subtopics related to the student's major field of study. ***Prerequisites: Satisfactory placement test scores as defined by the Mathematics Accuplacer test and Great Bay Community College Mathematics Department.***

AP® Calculus 633

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: Pre-Calculus or Departmental approval.***

AP® Statistics 636

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: Pre-Calculus <u>or</u> Probability & Statistics or Departmental approval.***

Music Department

Anthony J. DiBartolomeo, Director of Music, Secondary

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.***

Chorus 052

NL
Full Year
1 Credit
Gr. 9-12

Chorus is offered to incoming ninth grade or first year chorus students. The literature will be for Soprano, Alto, Tenor or Bass configuration. An emphasis will be placed on music reading, with special attention being paid to sight singing. Students will participate in the same concert schedule as the Concert and Select Choirs. This is a one year course and continuation in the choral program will be encouraged. The performing ensemble will serve as an introductory course for the Concert Choir and/or Select Ensemble. ***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 Chorus is offered to all students with the exception of freshman females or women who have not had previous high school choral experience. These students should enroll in the Chorus. 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 063

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.

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

Modern World Literature broadens the scope of student awareness of universal issues as presented in contemporary world literature. The study of significant literature will combine with developments in recent history to bring to light the common hopes, fears, and tendencies of all humanity.

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

Lou Broad, Department Coordinator

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 and 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 "K-12" Science Curriculum Frameworks.

Course Descriptions:

Physical Science—ACC (blocked) 705

ACC
Half 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 (blocked) 707

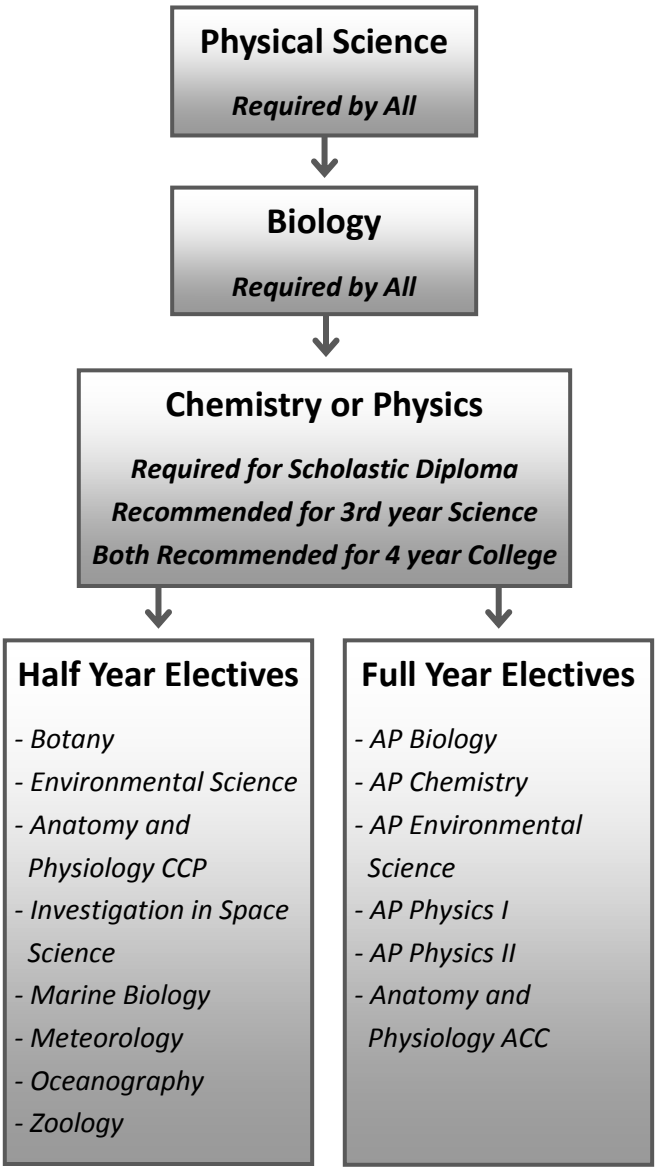
CCP
Half Year
1 Credit
Gr. 9

The purpose of this blocked 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.

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

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.

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.

Chemistry—ACC (blocked) 727BL
Physics—ACC (blocked) 731BL

Paired Courses

ACC
Full Year
1 Credit per Course
Double Period
Gr. 10-12

Chemistry and Physics: This is a year-long set of blocked courses (90 minutes as periods are back-to-back) that sequences chemistry and physics to maximize the learning of concepts within both courses. Physics is examined in detail in the fall and chemistry in the spring, with strategic overlap between the two sciences as we progress through the year. This course is recommended for students with strong science and mathematics skills. Algebra is extensively used for problem-solving. Completion of/or concurrent registration in Algebra II is recommended.

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. 10-11

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 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.

Environmental Science—ACC 722

ACC
Half Year
.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 ecological field work, perform laboratory investigations, and undertake independent research. ***Prerequisite: Student will have completed Physical Science and Biology or department approval.***

Environmental Science—CCP 721

CCP
Half Year
.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: Student will have completed Physical Science and Biology or department approval.***

Human Anatomy and Physiology—ACC 715

ACC
Full Year
1 Credit
Gr. 11-12

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. 11-12

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. 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.***

Marine Biology 739

ACC
Half Year
.5 Credit
Gr. 11-12

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: Successful completion of Biology. Oceanography and Chemistry recommended; or Departmental approval.***

Oceanography 741

ACC
Half Year
.5 Credit
Gr. 11-12

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***.

Botany—ACC 743A

ACC
Half Year
.5 Credit
Gr. 11-12

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. ***Prerequisites: Successful completion of Physical Science and Biology.***

Botany—CCP 743

CCP
Half Year
.5 Credit
Gr. 11-12

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.***

Zoology—ACC 744A

ACC
Half Year
.5 Credit
Gr. 11-12

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. ***Prerequisites: Biology. Completion or concurrent enrollment in Chemistry recommended.***

Zoology—CCP 744

CCP
Half Year
.5 Credit
Gr. 11-12

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.***

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.***

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 735
(SNHU Dual Enrollment opportunity)

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® 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: Successful completion of Physics and Algebra II or approval of the teacher.***

AP® Physics II
(SNHU Dual Enrollment opportunity)

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 Physics and Pre-Calculus, or approval of the teacher.***

AP® Environmental Science
(SNHU Dual Enrollment opportunity) 742

AP

Full Year

1 Credit

Gr. 11-12

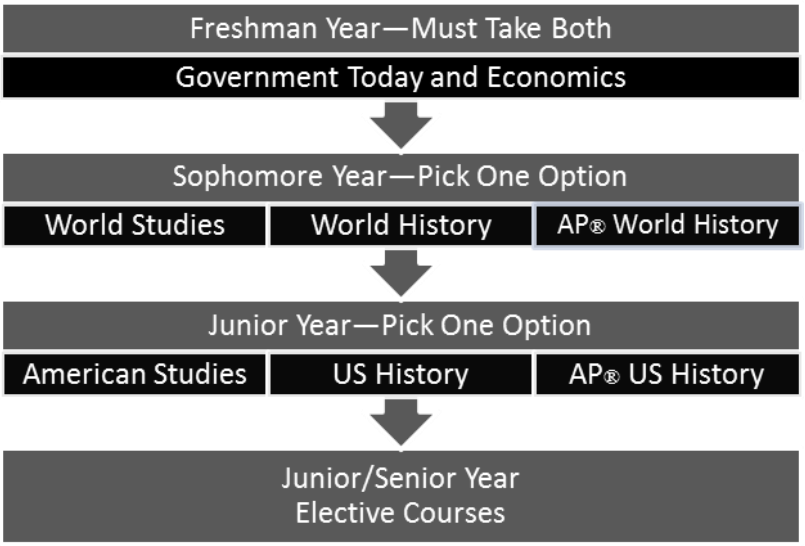
The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human- made, to evaluate the relative risks associated with these 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. ***Recommendation: Successful completion of Physical Science, Biology and Chemistry.***

Social Studies Department

Joshua Silveira, Department Coordinator

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 Social Studies Curriculum Frameworks.



Course Descriptions:

Economics—ACC (Blocked) 826

ACC
Half Year
.5 Credit
Gr. 9

One half of the Freshman Social Studies sequence is Economics. Economics—ACC focuses on personal finance, basic economic concepts, business structures, intervention of the government in the economy, monetary policy, and global economic interactions. Additional skills developed through the activities of the course include critical thinking, analysis of political cartoons, decision-making, peer interaction, research skills, effective discussion techniques, and written analysis. The expectation is that students will write weekly article reviews based on current economic issues discussed in class, and read one novel per quarter introducing concepts pertaining to the units discussed.

Economics—CCP (Blocked) 828

ACC
Half Year
.5 Credit
Gr. 9

One half of the Freshman Social Studies sequence is Economics. Economics—CCP focuses on personal finance, basic economic concepts, business structures, intervention of the government in the economy, monetary policy, and global economic interactions. Additional skills developed through the activities of the course include critical thinking, analysis of political cartoons, decision-making, peer interaction, research skills, effective discussion techniques, and written analysis.

Government Today—ACC (Blocked) 803

ACC
Half Year
.5 Credit
Gr. 9

One half of the Freshman Social Studies sequence is Government Today. Government Today—ACC will explore the three branches of the American government system: legislative, executive, and judicial, as well as the foundations of American democracy, and state and local government. Students will also focus on increasing their understanding of the Bill of Rights and how it relates directly to them as Americans. Several group and individual projects are part of the course and students will be given the opportunity to practice their presentation and research skills. Library-based research will be included with an integrated citation lesson.

Government Today—CCP (Blocked) 804

CCP
Half Year
.5 Credit
Gr. 9

One half of the Freshman Social Studies sequence is Government Today. Government Today—CCP will explore the three branches of the American government system: legislative, executive and judicial, as well as the foundations of American democracy, and state and local government. Students will also focus on increasing their understanding of the Bill of Rights and how it relates directly to them as Americans. Several group and individual projects are part of the course and students will be given the opportunity to practice their presentation and research skills. Library-based research is an integral part of this course which includes an in-depth look at the process of creating source citations and reference pages.

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 21th 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 21th 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 (Blocked) 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 (Blocked) 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.

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. 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 843

CCP
Half Year
.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 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. 11-12

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. 11-12

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. 11-12

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. 11-12

Psychology is the study of human behavior and the mental processes. This course emphasized participation as a key component to understanding student's behavior and individual thought. Key topics of study include memory, personality, adolescence, consciousness, learning and abnormal psychology.

Sociology 835

CCP

Half Year

.5 Credit

Gr. 11-12

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® Human Geography 822

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

Special Education Department

Susan Lavrich, Department Chairperson
Toni Mealey, Department Coordinator

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:

TEP English I 964

CCP
Full Year
1 Credit
Gr. 9

This course is delivered in a special education setting while mirroring the regular education 9th 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.***

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 the roles those societies played in shaping 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***

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 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 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 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.***

TEP World History 971

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.***

TEP US History 970

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.***

Life Skills 980

CCP
Half Year
.5 Credit
Gr. 9-12

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.***

Reading 960

NL
Full Year
1 Credit
Gr. 9-12

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.***

Learning Center 980

NL

Half Year

.5 Credit

Gr. 9-12

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.***

Assisted Study 960

NL

Half Year

NC Credit

Gr. 9-12

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.***

Theater Department

"Making new choices that last a lifetime"

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

NL
Half Year
.5 Credit
Gr. 9-12

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.

Improvisation 267

NL
Half Year
.5 Credit
Gr. 9-12

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.

Advanced Acting 265

ACC
Half Year
.5 Credit
Gr. 10-12

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: Must see Mr. Constantineau for a recommendation.***

Playwriting 253

ACC
Half Year
.5 Credit
Gr. 11-12

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.

World Language Department

Carolyn Morse, Department Coordinator

The World Language Department offers courses in French, German, and Spanish to students at all levels of learning. The study of foreign languages helps students to understand foreign culture, increases employment opportunities, enhances English and communication skills, and gives the students a new perspective of their own culture. It is important that U.S. citizens be concerned with global issues and knowledge of other languages and cultures in today's increasingly interdependent world. Most four-year colleges and universities in the U.S. require foreign languages for entrance. Some institutions give college credit or exempt students from degree requirements in languages for demonstrated proficiency in high school courses. Oral proficiency is an important objective. Therefore, foreign languages center on five crucial elements:

- Language taught in context
- Situation-based practice on elements of realism
- Personalization of material to grasp meaning more readily
- Student participation
- Extensive development of aural comprehension

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 fluent in a new language. If you choose to study a language for three years, limited basic communication and reading skills are attainable objectives. If you choose to study longer, you can progress toward fluency. In either case, you will find that languages open doors.

NOTE: All Level I World Language courses are taught at the CCP level.

Course Descriptions:

Level I Language Courses—CCP:		
French I	Gr. 9-12	307
German I	Gr. 9-12	309
Spanish I	Gr. 9-12	311

Full Year

1 Credit

NCAA

Level I courses are an introduction for students with **no previous study** in the language. The course focuses on development and acquisition of the four language skills: Listening, speaking, reading and writing. Students will be able to read and comprehend stories and novels at the level of instruction.

Level II Language Courses—ACC:		
French II	Gr. 9-12	314
German II	Gr. 10-12	316
Spanish II	Gr. 9-12	318

Full Year

1 Credit

NCAA

Level II—ACC, audio-lingual skills are expanded; vocabulary is increased; more complex structures are mastered; and oral fluency is developed through pattern practices in class. Reading and writing skills are further developed through readings and writing compositions. This course is faster paced than Level II—CCP and will cover more material.

Level II Language Courses—CCP:		
French II	Gr. 9-12	313
German II	Gr. 10-12	315
Spanish I	Gr. 9-12	317

Full Year

1 Credit

NCAA

Level II—CCP, audio-lingual skills are expanded; vocabulary is increased; more complex structures are mastered; and oral fluency is developed through pattern practices in class. Reading and writing skills are further developed through readings and writing compositions.

Level III Language Courses—ACC:		
French III	Gr. 10-12	320
German III	Gr. 11-12	323
Spanish III	Gr. 10-12	322

Full Year

1 Credit

NCAA

Level III—ACC continues the building of audio-lingual skills with emphasis on the development of vocabulary through the reading of short stories, articles, and novels. Grammatical structures and writing of compositions are further expanded. This course is faster paced and covers more material than Level III—CCP.

Level III Language Courses—CCP:

French III	Gr. 10-12	319
Spanish III	Gr. 10-12	311

Full Year

1 Credit

Level III—CCP continues the building of audio-lingual skills and further development of structure and self-expression in the writing of compositions. The reading of short stories, novels and cultural projects are an integral part of the course.

Level IV Language Courses—ACC:

French IV	Gr. 11-12	331
German IV	Gr. 12	333
Spanish IV	Gr. 11-12	335

Full Year

1 Credit

Level IV—ACC continues the development of the audio-lingual skills, further expands student oral and written self-expression, and the reading and appreciation of literature. The course is conducted exclusively in the target language.

Level IV Language Courses—CCP:

French IV	Gr. 11-12	327
Spanish IV	Gr. 11-12	324

Full Year

1 Credit

Level IV—CCP is a continuation of audio-lingual skills, structure and the writing of compositions. Students will read short literary works and engage in conversation in the target language. The course is conducted in the target language.

Level V Language Courses—ACC: Contemporary Issues

French V	Gr. 12	338
Spanish V	Gr. 12	340

Full Year

1 Credit

In this advanced course, students will develop listening, speaking, reading, and writing skills to analyze, discuss and compare the perspectives and practices of the cultures studied. The following themes may be studied: healthcare, tourism, education, the environment, immigration, social class, ethnicity, religion, family, and globalization. This course is conducted completely in French or Spanish. ***Prerequisite: completion of Level IV.***

AP® French Language and Culture

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.

AP® Spanish Language and Culture

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.

Latin —Elective

ACC

Full Year

1 Credit

Gr. 11-12

In Latin I, students will acquire basic Latin grammar concepts and vocabulary and recognize the relationship between Latin and other languages, especially English. Through the course readings and class discussions, students will learn about Roman culture and history in order to make comparisons to their own lives. ***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 classes at Timberlane Regional High School and a two period vocational session at the CTE Centers at Salem High School or Pinkerton Academy. Transportation to Salem HS 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 regional center in Salem:

Automotive Technology

Biotechnology

Building Trades

Business & Office Administration

Careers in Education

Computer Networking & Repair

Computer Software & Media Applications

Culinary Arts

Health Science and Technology

Marketing Education

Television Production

Course Descriptions:

Automotive Technology I 861

CCP

Full Year

2 Credits Double Period

Gr. 11

Students in Automotive Technology 1 will develop an understanding of some of the major automotive systems as well as shop operations. 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. Appropriate safety instruction is provided and students are required to wear proper footwear, eyewear, and clothing for use in laboratory activities. Safety glasses and shirts are provided. The National Institute for Automotive Service Excellence (ASE) recognizes the Salem Automotive Technology program as a certified training program and its achieved National Automotive Technicians Education Foundation (NATEF) certification. Students in Auto 1 will obtain SP2 safety certification, Valvoline Oil Certification, as well as Industry driven training from various local companies.

Automotive Technology II 863

CCP

Full Year

2 Credits Double Period

Gr. 12

Students are expected to employ 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 programs each fall to expose students to post-secondary options. Students are eligible for student level ASE certification upon successful completion of Automotive Technology 2. Students also have the opportunity to compete in Skills USA competition and the Ford AAA challenge. Prerequisite: Grade of C or better in Automotive Technology 1 or teacher recommendation.

Biotechnology

Students enrolling in Biotechnology need to take Biotechnology and Microbiology in the first year.

Biotechnology 870A

CCP

Half Year

1 Credits

Gr. 11

Biotechnology 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 biotechnology go on to careers in research, 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. You 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 not only the rapidly expanding biotechnology industry but also to excelling in future college laboratory courses. If you enjoy the sciences in a hands-on laboratory environment, then this course is for you!

Microbiology 870

CCP

Half Year

1 Credits

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.

Advanced Topics in Biotechnology 872B

CCP

Full Year

1 Credit

Gr. 12

This is the third course in the biotechnology program with a focus on advanced topics and skills related to biotechnology. You will further your skills in areas including, recombinant DNA technology, protein production, purification, DNA 'barcoding', and plant and animal cell culture techniques. As experienced biotechnicians, you 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 Biotechnology 1.***

Building Trades I 865

CCP

Full Year

2 Credits Double Period

Gr. 11

Students will participate in a variety of classroom and laboratory activities providing instruction in four areas of Building Trades: carpentry, electricity, plumbing, and basic masonry found at most home construction sites. Students will develop fundamental skills in these trade areas through the completion of construction projects. Safety instruction in each trade area will be provided and students will be required to provide appropriate clothing for use with certain laboratory activities.

Building Trades II 867

CCP

Full Year

2 Credits Double Period

Gr. 12

Students in Building Trades II will be involved with challenging framing projects such as: "hip and valley" roofs, dormers and staircases. They will utilize these skills and competencies to participate in a variety of community projects ranging from remodeling homes in the community to construction of new buildings. Work in the areas of carpentry, electricity, plumbing, and masonry will be included to achieve completion of these class/community projects. Emphasis will be placed on continued safety instruction, developing related work attitudes, and management of the work place as it relates to the building trades. ***Prerequisite: Grade of C or better in Building Trades I or teacher recommendation.***

Business & Office Administration

Students enrolling in Business & Office Administration must sign up for both of the following courses in the first year.

Word Processing for Business & Personal Use 878B

CCP

Half Year

1 Credit

Gr. 11

Students in this self-paced course develop a valuable, life-long skill using the proper touch technique while utilizing the alpha/numeric keyboard. Emphasis will be placed on developing speed and accuracy in order to become proficient workers. Students will use Microsoft Office and learn how to properly format various business documents. Topics covered include: basic Word concepts, fax applications, interoffice memorandums, personal and business letters, proofreader's marks, tables, reports, mail merges, itineraries, agendas, minutes, news releases, outlines, e-mail, and job search. Upon completion of this course, students are encouraged to take Business and Office Administration 1.

Business & Office Administration I 878C

CCP

Half Year

1 Credit

Gr. 11

Business and Office Administration 1 prepares students to perform routine administrative duties in an office environment. This course includes instruction in the composing, editing, and proofreading of business-related correspondence, filing systems and records management, proper telephone etiquette and e-mailing procedures, the processing of business documents, both written and oral communication skills, human relations skills, proper business ethics, mail handling, business math skills, and business equipment operation. Time management, organization, and prioritization skills are stressed. Career opportunities will be discussed while covering all phases of the employment process including looking and applying for a job, preparing a cover letter and professional resume, filling out a job application form, interviewing techniques, and composing a thank-you letter. Students in this course are encouraged to join Future Business Leaders of America (FBLA). ***Prerequisite: Grade of C or better in Word Processing for Business and Personal Use or teacher recommendation.***

Business & Office Administration II 878D

CCP

Full Year

2 Credits Double Period

Gr. 12

Business and Office Administration 2 is designed to prepare students for entry-level employment in an office position and/or continued study at the post-secondary level. This course provides further training in Microsoft Office including Excel, PowerPoint, Access, and Publisher. Students will also become proficient in using the numeric keypad. Students will continue to work on business communications, business calculations, formatting of business documents, and basic business skills. Additional topics to be covered include entrepreneurial concepts and opportunities, business law and ethics, business management, business principles, economics, personal financial concepts, and elements of marketing. Clinical placements working in businesses throughout the community start during the second quarter and continue throughout the year in a variety of business environments to give students hands-on experience in their chosen field of study. Students are encouraged to join Future Business Leaders of America (FBLA). Prerequisite: Grade of C or better in Business and Office Administration 1 or teacher recommendation.

Careers in Education I 857A

CCP

Full Year

2 Credits Double Period

Gr. 11

Students in this program alternate between working in the classroom, studying education theory and working in the on-site preschool applying learned 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 both 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, guidance counseling, or day care would benefit from this course. Students are eligible to earn 3 college credits from Manchester Community College for ECE 116- Child Health, Safety and Nutrition.

Careers in Education II 857B

CCP

Full Year

2 Credits Double Period

Gr. 12

Exploring Education 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. Each student will be required to plan and supervise the operation of the school routine. A year-long observation project is required as well. Students must maintain an excellent attendance record and are required to dress professionally while at the worksite. ***Prerequisite: Grade of 80 or better in Careers in Education 1.***

Computer Networking and Repair

Students enrolling must take **both** of the first two courses in their junior year.

Computer Maintenance and Repair I 873A

CCP
Half Year
1 Credit
Gr. 11

Computer Maintenance and Repair 1 provides students an excellent opportunity to learn about how computers really work. Students will gain experience by completely disassembling and assembling a computer. Students will learn to troubleshoot, diagnose and repair computer problems as well as how to 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 to take the CompTIA IT Essentials National certification exam. Microsoft provides enrollees with select, fully licensed Microsoft software including Windows 8 Server Edition for installation on their home computers.

Computer Networking 873B

CCP
Half Year
1 Credit
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 certification through the CompTIA National Network certification exam. VMWare will provide all successful students with select, fully licensed VMWare virtualization software to install on their home network. ***Prerequisite: Grade of C+ or better in Computer Maintenance and Repair 1.***

Adv. Computer Maintenance & Repair 875

CCP
Full Year
2 Credits
Double Period
Gr. 12

Students returning for a second year of Computer Maintenance and Repair will spend a good deal of time working as entry-level technicians. 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. 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. Enrolled students will receive a fully licensed copy of Windows 8 Server Edition to use on their home computer or server. ***Prerequisite: Grade of C+ or better in Introduction to Computer Maintenance and Computer Networking.***

Computer Software & Media Applications

During the first year, students enrolling in this program will take Information and Computer Technology Quarter 1 only, followed by Advanced Microsoft Office during the entire second semester.

Information & Computer Technology (ICT) 897C

CCP
Quarter
.5 Credit
Gr. 11

Information & Communication Technology will familiarize students with computers and the critical applications necessary for success in high school, college, and throughout almost any career. This self-paced, hands-on course will focus primarily on the most commonly used components of Microsoft Office including Word, Excel, and PowerPoint. Students will also be briefly exposed to computer terminology and programming concepts. This class is the first part of a series of classes (ICT, Advanced MS Office, Advanced Computer Applications 1, & Advanced Computer Applications 2) designed to ensure students are fully prepared to utilize computer technology both in college and throughout their careers. Although some students stop after completing this course, motivated students are strongly encouraged to follow this class up with the others in order to provide a solid set of computer skills helpful in nearly all careers and college majors. Successful completion will satisfy the state computer literacy requirement for graduation.

Advanced MS Office 897B

CCP
Half Year
1 Credit
Gr. 11

Students will be issued a modern laptop computer (for use during the semester, both at school and at home) loaded with Microsoft Office Professional. Building on the basic principles covered in ICT (Information & Communication Technology), students in this course will be exposed to the more advanced features of the powerful Microsoft Office suite in a rigorous, but stimulating hands-on environment. Students in this course will 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. This class is part of a series of classes (ICT, Advanced MS Office, Adobe Creative Suite 1 & 2) that provide the student with an impressive array of software applications skills designed to ensure students are fully prepared to utilize computer technology both in college and during their careers. ***Prerequisite Grade of C or better in ICT (Information & Communication Technology).***

Adobe Creative Suite I 898A

CCP

Half

1 Credit

Gr. 12

Students will be issued a modern laptop computer (for use during the semester, both at school and at home) loaded with Microsoft Office Professional and the Adobe Creative Suite (CS6). 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. 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 distinguish the student throughout their professional career after college. It should be noted that the Course of Studies booklet (and cover) you are currently looking at was designed by a student in this class. ***Prerequisite: Grade of C or better in ICT (Information & Communication Technology).***

Adobe Creative Suite II 898B

CCP

Half Year

1 Credit

Gr. 12

Students will be issued a modern laptop computer (for use during the semester both at school and at home) loaded with Microsoft Office Professional and the Adobe Creative Suite (CS6). Students in this course will have the exciting opportunity to learn more advanced applications such as: video editing, DVD authoring, and web-page design skills in a fun hands-on environment. Adobe Premiere and Dreamweaver will be the primary applications utilized, but the student will also apply many of the skills learned in the first three prerequisite courses. The skills acquired in this course will provide students with the opportunity to create unique and powerful presentations/projects in college and will certainly distinguish the student throughout 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 yourself for success in college. ***Prerequisite: Grade of C or better in Adobe Creative Suite 1.***

Culinary Arts I 881

CCP

Full Year

2 Credits

Double Period

Gr. 11

Students in Culinary Arts 1 focus on safety, sanitation, culinary terminology and product identification. Students develop a basic understanding of the skills needed to work within a professional kitchen including: basic cooking and bakery skills, teamwork, and the operation of the Three Seasons restaurant. College credit is available through a partnership with Lakes Region Community College.

Culinary Arts II 883

CCP

Full Year

2 Credits

Double Period

Gr. 12

This course builds upon the foundational skills from Culinary Arts 1. Students take on a leadership role in menu design, working various 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 further refine their skills and knowledge by completing culinary arts, electronic portfolio. This project allows students to demonstrate their knowledge of cooking skills, baking and pastry skills, sanitation, safety and employability skills. Students may also participate in afterschool functions and banquets. College credit is available through lakes region Community College. ***Prerequisite: Grade of a C or better in Culinary Arts 1 or instructor recommendation.***

Health Science and Technology I 889

CCP

Full Year

2 Credits

Double Period

Gr. 11

Health Science and Technology is a two year program for juniors and seniors who are interested in pursuing a career in the health care field. During the first year, we concentrate on establishing a strong foundation in anatomy and physiology, safety issues, infection control, health care reform and career exploration. Included during the first year is a college level Medical Terminology course. Students who successfully complete this course are eligible to receive 3 college credits from Manchester Community College through Project Running Start. 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 technique as well as training in taking EKG's. The clinical experience for first year students include 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 health care would benefit greatly from this course. ***Prerequisite: B- or better in Biology.***

Health Science and Technology II 891

CCP

Full Year

2 Credits
Double
Period

Gr. 12

Health Science and Technology level II continues with the completion of studies in anatomy and physiology, pathophysiology, infectious disease, and safety training. 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), Licensed Nursing Assistant (LNA), or Allied Health Community Internship. The EMT and LNA 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 LNA program, and the corresponding state licensing exam, licensing will occur. Students in the LNA program are responsible for coordinating and assisting with an annual blood drive. Students enrolled in the Allied Health Community Internship program 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. ***Prerequisite: Grade of B- or better in HST I and teacher recommendation.***

Marketing Education I 893

CCP

Half Year

1 Credit

Gr. 11

This course will provide students with an in-depth look into the marketing of goods and services within the diverse marketing industries. 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 the Blue Devil Café.

Marketing Education II 895

CCP

Full Year

2 Credits
Double
Period

Gr. 12

The first half of this course will provide students with an inside look on how businesses promote their products and services. Students 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. The second half of the course will focus on the final project which will entail the development of an advertising campaign for an actual business. A team of students will play the role of an advertising agency and will be required to create a campaign to promote their client's product or service. Students will create storyboards, radio commercials, and print media copy and layout. Students will be required to be a member of DECA. Students will obtain their skills and knowledge in these functions through classroom instruction, group and individual projects, and the operation of the Blue Devil Café. ***Prerequisite: Grade of C+ or better in Marketing 1 or recommendation of teacher.***

Television Production I 864

CCP

Full Year

2 Credits
Double Period

Gr. 11

Television Production I 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 be introduced to camera operation, audio techniques, character generator, special effects generator, sets, graphics, editing, storyboarding, script writing, and operation of field production equipment. Working as members of a production crew, students will produce, write, direct and videotape their own productions, as well as SHS activities.

Television Production II 858

CCP

Full Year

2 Credits
Double Period

Gr. 12

Television Production II is an advanced course where students master basic TV production techniques and gain greater experience in TV technology. Students work independently and in crews, producing, writing, directing, and videotaping school district activities for Salem's Channel SLC 6. Advanced editing techniques are taught and students have opportunity to produce, their own, creative video projects. Studio and on-location productions serve as the medium for nurturing concepts learned in TV Production II. Students are required to participate in after school activities. ***Prerequisite: Grade of B- or better in TV Production I 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

Course Descriptions:

Introduction to Animal Science 859A

CCP
Half Year
.5 Credit
Gr. 11-12

This 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.

Animal Business Management 859

CCP
Full Year
1 Credit
Gr. 11-12

Students will learn to manage a successful grooming business, Pinkerton Pet Palace, as well as learn how to use 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. ***Prerequisite: Successful completion of Introduction to Animal Science (721) with a grade of 85 or better, or permission from the CTE Director***

Animal Health & Veterinary Technology 859B

CCP
Full Year
2 Credits
Double Period
Gr. 12

This 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 Nutrition, Animal Diseases, Animal Welfare Ethics and Treatment, Animal First Aid, Animal Grooming Operation, Veterinary Technology skills and terminology, FFA, and All Aspects of Industry. Classroom lab animals will be used to gain valuable skills needed to advance in the industry. ***Prerequisite: Successful completion of Animal Business Management (664) with a grade of 80 or better, and permission from the CTE Director.***

Cosmetology I 888

CCP
Full Year
2 Credits
Double Period
Gr. 11

Cosmetology students receive comprehensive training in all areas of hairdressing and related fields while earning hours on their cosmetology apprentice license. Cosmetology I students are exposed to a blend of classroom instruction and hands-on learning experiences using a human hair mannequin in a simulated salon environment. Students learn a variety of hairstyling techniques, 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 range from $85 - $100 with fundraising and payment plan options available.

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. They will also have the opportunity to work directly with customers in the Astro Style salon. 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 approx. $65-$75. Financial aid and/or payment plans are available.) ***Prerequisite: Successful completion of Cosmetology I with a 75% or better and completion of state required lab hours.***

Electrical Technology I 872

CCP
Full Year
2 Credits
Double Period
Gr. 11

This full-year, 2 credit, 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 NH Apprentice Electrical license. License has an approximate cost of $30.***

Electrical Technology II 872A

CCP
Full Year
2 Credits
Double Period
Gr. 12

This full-year, 2 credit, course is the second half of a two-year program and intensifies, follows through, and elaborates on material covered in Electrical Technology I. 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 I and II programs will credit the student with a portion of classroom and work hours required to obtain a Journeyman Electrical License.

Environmental Studies/Outdoor Skills 884A

CCP

Full Year

2 Credits Double Period

Gr. 11-12

This full-year, 2 credit, program is designed for students interested in the environmental sciences and natural resource management. Active learning and hands-on activities assist the student to better understand and work in the natural world. 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 and agencies, invasive species, natural history of New England and outdoor career opportunities. The student will also develop the skills and attitude necessary to function successfully in an outdoor setting. 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.

Forestry Technology I 884

CCP

Full Year

2 Credits Double Period

Gr. 11-12

This full-year, 2 credit, 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, responsible management practices, and outdoor career opportunities. 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, a portable sawmill and one of the few operating sugar houses in the area.

Welding Technology I 874

CCP

Full Year

1 Credit

Gr. 11-12

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.

Welding Technology II 874A

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

Scott Strainge, Director of Alternative and Continuing Education and Enrichment

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

CCP
Spring
.5 Credit
Gr. 9-12

Fundamental two-dimensional and three-dimensional art and design will be investigated. 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.***

BUSINESS

Microsoft Office Essentials

CCP
Spring
.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. This course meets computer requirements for graduation.

ENGLISH

World Literature

CCP
Fall
1 Credit
Gr. 10-12

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, class participation, and oral presentations.

American Literature

CCP
Spring
1 Credit
Gr. 11-12

This course focuses on significant developments in philosophy, political thought, and cultural identity as expressed in literature. These themes correspond directly to those covered in United States History in order to emphasize the relevance of poetry, drama, and non-fiction. 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.

Expository Writing

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

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

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

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

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*)

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 II (Blended*)

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

CCP
Fall
1 Credit
Gr. 9-10

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

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

Foundations of Algebra II 637

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: Algebra I and Geometry.***

SCIENCE

Physical Science

CCP
Fall
1 Credit
Gr. 9-12

The purpose of this blocked 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

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

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: Student will have completed Physical Science and Biology or department approval.***

Introduction to Meteorology 723

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

Economics

CCP
Spring
.5 Credit
Gr. 9-12

One half of the Freshman Social Studies sequence is Economics. Economics—CCP focuses on personal finance, basic economic concepts, business structures, intervention of the government in the economy, monetary policy, and global economic interactions. Additional skills developed through the activities of the course include critical thinking, analysis of political cartoons, decision-making, peer interaction, research skills, effective discussion techniques, and written analysis.

Government Today

CCP
Spring
1 Credit
Gr. 9-12

One half of the Freshman Social Studies sequence is Government Today. Government Today will explore the three branches of the American government system: legislative, executive and judicial, as well as the foundations of American democracy, and state and local government. Students will also focus on increasing their understanding of the Bill of Rights and how it relates directly to them as Americans. Several group and individual projects are part of the course and students will be given the opportunity to practice their presentation and research skills. Library-based research is an integral part of this course which includes an in-depth look at the process of creating source citations and reference pages.

World History

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 21th 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

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

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

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

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

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.

Alternative Credit Options

Scott Strainge, Director of Alternative and Continuing Education and Enrichment

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 before beginning alternative credit option.

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. Alternative tools are available.
- 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.

Northern Essex Community College Partnership

Timberlane Regional High School along with Sanborn Regional High School have partnered together with Northern Essex Community College to offer two college level courses to our students. The two courses now being offered are English Composition I (ENG 101) and College Success Seminar (CS 101) and each course is worth 3 college credits. Students have the opportunity to take these courses in the morning at Sanborn Regional High School in Kingston, NH in the fall and at Timberlane Regional High School in the evening division program in the spring. Each course is taught by a college professor and the student earns credit on a college transcript.

The English Composition course and the College Success Seminar can submitted for high school credit. Students must meet with guidance counselor and receive prior approval before enrolling in either course. Students who enroll in either course must complete an Accuplacer Exam administered by Northern Essex Community College before beginning either course.

Each course has a cost of $200 which covers the cost of tuition, the Accuplacer Exam, and textbooks for the course. Typically Northern Essex Community College courses cost $450-$500 per 3 credit course.

Course Descriptions:

English Composition 1 (ENG 101)

Half Year

3 NECC Credits

Gr. 12

A required NECC course to develop critical thinking and clear, effective writing. Students will demonstrate their competence through a variety of writing assignments including essays and a research paper. Successful completion of a research paper is required to pass this course. This course is instructed by a professor from Northern Essex Community College. This course is eligible for dual high school and community college credit. ***Prerequisite: A qualifying score on Accuplacer Exam.***

College Success Seminar (CSS 101)

Half Year

3 NECC Credit

Gr. 12

College Success Seminar is intended for any student who is exploring post-secondary opportunities in a 2 or 4 year college or technical school as well as a student who is interested in a career that requires job training. Students will explore and practice the skills and behaviors necessary for success in college and career. Topics will include study strategies, college survival, communication, self-awareness, engagement, technology, information literacy, and 21st Century skills. This course is instructed by a professor from Northern Essex Community College. This course is eligible for dual high school and community college credit.

HiSET Diploma Option Program

The HiSET Diploma Option Program is a state-authorized program where students complete specifically targeted curriculum which will prepare them for successful completion of the HiSET Exam. Students successfully completing all components of the program (nightly lessons for at least a semester, a workforce readiness component, and the HiSET Exam), will earn a standard TRHS diploma. Students in these classes must be at least sixteen years old, demonstrate at least 8th grade ability in reading, writing and mathematics and be significantly behind their peer class prior to entry. Participating students are considered full-time students, and may participate in co-curricular activities. Interested students should contact their guidance counselor for more information.

Speak and act respectfully
Be Involved
Resolve conflicts peacefully
Work Cooperatively
Offer your best
Lend a helping hand