INTRODUCTION TO COURSE SELECTION

We cannot become what we want to be by remaining who we are.
Max DePall

Enclosed in the Course of Studies publication are diverse and challenging growth opportunities. Thoughtful planning and participation in your course of study will help to establish a solid foundation for what you want to become. At your age it is rare to find an individual that knows exactly what her/his goal is for the future. The process of uncovering this exciting goal takes time and thoughtful long range planning. It is not a passive effort, but rather it requires your active investigation of the varied learning experiences available here at Salem High School. The comprehensive nature of course programming at SHS provides opportunity for everyone. The broad selection of courses available to you is designed to accommodate the diverse interests and needs of our students.

The journey toward future success can be an overwhelming road and not one that we expect you to travel alone. Determining a plan of study for the coming school year will best be served by collaborating with parents, teachers, and your counselor. The future holds many exciting possibilities for you! Taking time to discuss your interests and planning accordingly will place you in the best position to become what you want to be! Below is a suggested process to follow to ensure that you have done all you needed to do to prepare for next year and for the future!

1. Carefully review the Course of Studies booklet with your parents, your teachers, and with your counselors.
2. Ask teachers and counselors questions about courses either at school or during Course Information Night scheduled on January 10, 2019.
3. Consider results of your Skills & Interest Inventory completed in Naviance freshman year when selecting courses.
4. Be mindful of prerequisites required for some courses.
5. Select your initial courses thoughtfully. Although changes can be made, courses may be full or conflict with other courses in your schedule.
6. Be mindful of the course selection process timeline and work hard to meet all deadlines.

Creating a thoughtful plan of study, choosing challenging courses, and investing maximum time and energy into those courses is surely a formula for success.

Below is a suggested process to follow to ensure that you have done all you needed to do planning accordingly will place you in the best position to become what you want to be!

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We cannot become what we want to be by remaining who we are.
Max DePall

"Extraordinary results follow only extraordinary efforts."
Anonymous

Salem Schools Make A Difference

The Salem School District does not discriminate in its educational programs, activities, or employment practices on the basis of race, color, national origin, age, sex, or persons with disabilities under the provisions of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1967, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Education for all Handicapped Children Act of 1975, and the Americans with Disabilities Act of 1990. Inquiries concerning application of Title VI and IX may be referred to the Superintendent of Schools, School Administrative Unit #57, 38 Geremonty Drive, Salem, NH 03079.
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COUNSELOR ASSIGNMENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Ext.</th>
<th>Grade/Latitude</th>
</tr>
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<tbody>
<tr>
<td>Maureen Fabrizio</td>
<td>5307</td>
<td>Freshmen (A-K)</td>
</tr>
<tr>
<td>Shawn Brown</td>
<td>5316</td>
<td>Freshmen (L-Z)</td>
</tr>
<tr>
<td>Heidi Greenlaw</td>
<td>5305</td>
<td>10 - 12</td>
</tr>
<tr>
<td>Jeff Foulds</td>
<td>5312</td>
<td>10 - 12</td>
</tr>
<tr>
<td>Melissa Egan</td>
<td>5310</td>
<td>10 - 12</td>
</tr>
<tr>
<td>Julia Gray</td>
<td>5309</td>
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ADDITIONAL SCHOOL COUNSELING STAFF

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Nicole Burke</td>
<td>5306</td>
<td>Director of School Counseling</td>
</tr>
<tr>
<td>Jamie Arnfield</td>
<td>5315</td>
<td>Registrar/Administrative Assistant</td>
</tr>
<tr>
<td>Jan Citelli</td>
<td>5314</td>
<td>College/Scholarship Administrative Assistant</td>
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</table>

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SCHEDULE

<table>
<thead>
<tr>
<th>Time</th>
<th>BLUE DAY</th>
<th>WHITE DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM - 8:51 AM</td>
<td>Block 1</td>
<td>Block 2</td>
</tr>
<tr>
<td>8:56 AM - 10:17 AM</td>
<td>Block 3</td>
<td>Block 4</td>
</tr>
<tr>
<td>10:22 AM - 12:18 PM</td>
<td>Block 5/Lunch</td>
<td>Block 6/Lunch</td>
</tr>
<tr>
<td>A Lunch 10:22 AM - 10:48 AM</td>
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<tr>
<td>B Lunch 10:52 AM - 11:18 AM</td>
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<tr>
<td>C Lunch 11:22 AM - 11:48 AM</td>
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<tr>
<td>D Lunch 11:52 AM - 12:18 PM</td>
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<tr>
<td>12:23 PM - 12:49 PM</td>
<td>Advisory</td>
<td>Advisory</td>
</tr>
<tr>
<td>12:54 PM - 2:15 PM</td>
<td>Block 7</td>
<td>Block 8</td>
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<tr>
<td>● 0.5 credit courses will meet on either Blue or White days for a semester</td>
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<td></td>
</tr>
<tr>
<td>● 1 credit courses will meet on either Blue or White days all year*</td>
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<tr>
<td>● 2 credit courses will meet on both Blue or White days for the full year</td>
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<tr>
<td>● Advisory will meet on both Blue or White days for the full year</td>
<td></td>
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</table>

* a few exceptions to this rule exist within the CTE department and for AP courses

TESTING FOR SALEM HIGH SCHOOL STUDENTS

SAT (Scholastic Aptitude Test), Grade 11, Spring
All grade 11 SHS students take the SAT with Essay during the school day on a date determined by the College Board in the spring semester.

PSAT (Preliminary Scholastic Aptitude Test)
(National Merit Scholarship Qualifying Test), Grades 10-11, October
All grade 10 SHS students take the PSAT during the school day on a date determined by the College Board. Grade 11 students have the option sign up to take the exam.

*ACT With Writing, Grades 11-12
Sept, Oct, Dec, Feb, April, June
Register for an ACT on: www.ACTstudent.org

*SAT Reasoning and SAT Subject Tests, Grades 11-12
Oct, Nov, Dec, Jan, March, May, June
Register for a SAT on: www.collegeboard.org/sat

*Not all testing dates offered at SHS

Advanced Placement Testing, Grades 10 - 12, May 2
Students taking AP courses are expected to take the exams administered in May.

NH State Assessment Grade 11, Spring
iREADY Grade 9; Fall, Winter, Spring
Credits in each subject are listed below and are required for all students. Total credits required to graduate from Salem High School are as follows:

Class of 2020: 27 credits         Class of 2022: 24 credits
Class of 2021: 26 credits         Class of 2023: 24 credits

English (1 credit each year) ............................................ 4 Credits
Math (1 credit each year) ................................................ 4 Credits
Science (3 credits):
  Biological/Life (L) .................................................. 1 Credit
  Physical Science (P) .................................................. 1 Credit
  Earth and Space Science (E)* .................................... 1 Credit
  *(Beginning with class of 2022)

Social Studies (3 Credits):
  World History.......................................................... 1 Credit
  U.S. History............................................................ 1 Credit
  U.S. and N.H. Civics and Government.......................... 1/2 Credit

Arts Education .......................................................... 1/2 Credit
Economics Education .................................................. 1/2 Credit
Health Education ....................................................... 1/2 Credit
Physical Education ..................................................... 1 Credit
Writing Sample .......................................................... Passing Score

The following graduation requirements can be met by successful completion of one of the courses listed under each heading:

Arts Education - ........................................................ 1/2 Credit
  Performing Arts
  Visual Arts
  Interior Decorating
  Intro to TV and Media Production
  TV and Media Production

Computer Education - .................................................. 1/2 Credit
  Computer Science & Technology 1
  Software Essentials
  Woodbury Middle School (District Computer Exam)

Economics Education - .................................................. 1/2 Credit
  Economics/Career Exploration

Health Education - ....................................................... 1/2 Credit
  Health Education
  Health Occupations 1 & 2

Physical Education - ...................................................... 1 Credit
  Physical Education [Excludes Prevention of Athletic Injuries]
  PE/5 Components of Fitness
  JROTC Courses (complete all four courses)

U.S. and N.H. Civics and Government - ........................ 1/2 Credit
  American Studies 1

United States History - ................................................. 1 Credit
  American Studies 1 & 2
  AP US History 1 & 2
SCHOOL COUNSELING

The mission of the Salem High School Counseling Department is to ensure the personal, social, educational, and career development of all students by joining in a partnership with parents, staff, students and the community. Our department engages in a comprehensive school counseling curriculum that assists students with their individual career exploration through self-assessment. Awareness of one’s interests, skills, strengths and values, along with an understanding of the different career pathways, provides students with the foundational information necessary to make informed decisions about their future. Students are encouraged to take advantage of the tools within their Naviance account to explore their interests and strengths, career possibilities, potential college choices and scholarship opportunities. With an understanding of post-secondary possibilities, students are able to make choices while selecting classes that will best prepare them for their desired path after high school. Thoughtful course selection decisions should be made using the resources in Naviance, discussions with teachers and counselors, and knowledge gained about career opportunities. These decisions should take into consideration how each course will enhance students’ preparation for a two- or four-year college, certificate or training program, the military, or for direct entry into the work world. Students and parents are encouraged to meet with their school counselor to assist with the scheduling process and career planning.

In addition to assisting with course selection, school counselors are available as resources to help with peer to peer relationships, teacher communication and post-secondary planning. The School Counseling website (sau57.org/shs-guidance) provides documentation to help parents and students as well as links to other available area resources. Counselors will also provide regular electronic newsletters, evening informational sessions, and are available by appointment for individual meetings throughout the school year to help families plan ahead. In order to keep opportunities open, it is important for students to be mindful of college admissions or other post-secondary program requirements as they make decisions throughout high school.

SUGGESTED CREDITS FOR ADMISSION TO POST-SECONDARY SCHOOLS

<table>
<thead>
<tr>
<th></th>
<th>English</th>
<th>Social Studies</th>
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<td>Two-Year Colleges</td>
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<td>2-3</td>
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<td>Technical Colleges</td>
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<td>2-3</td>
<td>2-3</td>
<td>0-2</td>
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</tbody>
</table>

WHAT FACTORS DO COLLEGES CONSIDER FOR ADMISSION?

- Overall program of study (Strength of subjects: college preparatory, honors, AP)
  - Cumulative Grade Point Average/Class Rank/Consistency of Achievement
  - Standardized Test Scores: SAT/ACT (Required by most colleges)
  - Extracurricular Activities, Awards and Honors
    - Leadership Roles
  - Teacher/Counselor Recommendations(s)
- Personal Essays (Part of admission application)
- Interviews (Required or offered at some colleges)
Scheduling Information

Scheduling Timeline

**January 10, 2019 at 6:00pm:** Course Information Night at Salem High School for parents and students of all grades

**January 7 – February 1, 2019:** Counselor course selection meetings with current Freshmen, Sophomores and Juniors. Infinite Campus Portal open for current Freshmen, Sophomores & Juniors to input course requests

**January 29 - January 31, 2019:** SHS counselors meet with 8th grade students to discuss courses, the scheduling process and distribute scheduling paperwork

**February 1, 2019:** All upperclassmen Course Selections Worksheets, CTE and Internship applications are due back to School Counseling Office.

**February 11 -15: Current 8th grade Scheduling Week**
Woodbury Middle School and Salem High School Counselors work with current 8th grade students to input course requests

Instructions for Entering Course Requests into Infinite Campus Portal
(For students in Grades 8-11)

1. Using this course of studies as your guide for course selection, go to the Salem District website, [www.sau57.org](http://www.sau57.org).

2. Along the left-hand side, click on Infinite Campus Parent/Student Portal.

3. A prompt will ask for your username and password. Enter the username and password you have been assigned here at SHS when you access your files and the network on our SHS computers. Typically, your username is the first two letters of your first name followed by your last name.

4. Your portal account page should open. Click on Registration 19-20 along the left hand side of the screen.

5. Click on course search on the right side of the screen.

6. Type the course name or number in the appropriate box and click GO. Select the course you want to request from the list that appears.

7. Click REQUEST COURSE. Students are required to carry at least 7 credits per year. When you have finished registering for your courses, please click Sign out in the upper right corner. A warning message will pop up. Click OK.

8. After selecting 7 credits of courses, you may select to have either a Humanities Lab or a Math/Science Lab to complete your schedules. This is an opportunity to maintain coursework and receive extra help, if needed. If you would like to take 8 courses instead, you should speak with your school counselor for approval. All students will be automatically scheduled into an Advisory.

Instructions for Students Wishing to Enroll in a Career and Technical Education (CTE) Program

1. YOU MUST COMPLETE A CTE APPLICATION TO BE CONSIDERED FOR ENROLLMENT. The application for enrollment must be completed in ink and submitted with your signed course selection sheet. Applications are available in the school counseling office and the CTE office or can be downloaded from the CTE website. The application can be found on the Salem CTE website:

2. Enter the correct course as part of your Infinite Campus online registration.

3. Selection for enrollment is based on attendance record, discipline record, credit status, and application. In some cases, an interview with the Director or CTE Coordinator may be necessary. All students requesting a CTE course should be sure to add at least 2 credits of alternates when making selections in Infinite Campus. While entering sophomores are encouraged to apply for an eligible CTE program, placement cannot be guaranteed as preference is given to entering juniors;

SCHEDULE CHANGES

Not all requests for changes may be possible once the master schedule is set. Schedule change request forms are available either online or in the School Counseling office and must be completed prior to a schedule change. Schedule changes will be made only if one or more of the following exist:

- Student has not met the prerequisites for the course
- Student is scheduled for a class previously passed
- Student is in need of a level change
- Student has a hole in their schedule
- Student is approved for an online course or Extended Learning Opportunity or after course selection is completed

No grade will be recorded on a student's transcript if the student withdraws from a course before it meets six times. If a student is withdrawn from a course beyond the add/drop period, the student’s transcript will note a W or a WF, depending on their current grade in the class from which they are being removed.

The decision to withdraw from a class will be made after discussion between student, teacher, parent, counselor and area director of the course. Every situation is unique and therefore, the final approval for withdrawal from a course lies with the Director of School Counseling and will be approved only if it is deemed to be in the student’s best interest. If a student is being withdrawn from a course within 5 course days prior to the closing of a marking term, they will receive the grade earned in that course on their transcript. If the course is a year long course, the subsequent marking term will note a W or WF.
CAREER INTERNSHIP

Career internships are offered in many ways. The length and depth of each student’s internship will be determined by the Work-Based Learning Coordinator and the Director of School Counseling. Internships will be subject to the availability of a community placement and the completion of all paperwork required of the internship process. An internship should be connected to a student’s career direction and offer an opportunity NOT available through a particular course. There must be a reasonable connection between current school work and the internship before it will be approved. Students who are accepted into internships must meet the following guidelines:

1. Must be able to graduate on time with class
2. Must have good attendance record
3. Must have good school behavior record
4. Seniors will be given first priority for the program

The Career Internship program reserves the right to refuse admittance to any student who fails to meet the criteria and/or is late with the required paperwork. The following process will be used in establishing a career internship:

1. Request a career internship on preliminary course selection sheet
2. Complete and submit required paperwork including student profile
3. Set up referral meeting with Work-Based Learning Coordinator (will occur only when all paperwork is completed)
4. Obtain final signatures establishing internship

The student is responsible for completing all paperwork.

EARLY COLLEGE

Some students may be eligible to enroll in college courses to count towards both a college degree and high school diploma requirements. Students interested in taking courses at a discounted rate on a college campus should see their school counselor to discuss appropriate options and complete required paperwork.

ONLINE HIGH SCHOOL COURSES

Virtual High School (VHS)

Virtual High School courses are offered in a variety of subjects and are at the college preparatory, honors, and Advanced Placement levels of instruction. The courses are either a semester or year-long in length and are delivered worldwide, to students via the internet. Each student accesses the coursework from any computer with an internet connection. Students can work from home or in the school’s computer lab. Students can join discussions and work on assignments at their convenience according to their own daily schedule. The students and instructor never “meet” live; all discussions take place as text-based postings and/or phone calls and within online discussion forums. Application forms for VHS are available in the School Counseling Office and are to be submitted during course selection. To review the VHS Course Catalog, go to: thevhscollaborative.org.

Virtual Learning Academy Charter School (VLACS)

Another online site for taking courses is through the VLACS organization. The high school level offerings are available for review in the Course Catalog on www.vlacs.org. To earn credit at SHS for a VLACS course, prior approval is required. Applications are available in the School Counseling Office. To actually enroll in a VLACS course, students must create an account on VLACS.org and request enrollment in a course. A parent or guardian must also create an account and be available for communication with the instructor as needed. School counselors are available to assist in this process.

In both cases, ideal online high school candidates possess the following traits: self-motivation, ability to learn independently, computer literacy, time management skills, effective written communication, willingness to try new things, personal commitment, and willingness to ask for help.

EXTENDED LEARNING OPPORTUNITIES

Extended Learning Opportunities allow students to gain a deeper understanding of their interests where classroom experience may be insufficient. A student’s ELO is to be completed in partnership with a teacher of the Salem High School staff, in accordance with the Salem School District’s policy IHBH.

In order to be eligible for earning credit through an ELO, students must complete the ELO application, which may be accessed in the School Counseling office. Parental permission, teacher oversight and counselor support are all requirements of the application. School approval of the ELO is required prior to its beginning.

Unless otherwise recommended by the Superintendent and approved by the Board, under ordinary circumstances, students or their parents/guardians shall be responsible for all related expenses including necessary equipment or materials as well as any transportation. Reasonable limits will be placed on the number of approved ELO’s that can be administered each school year, both school-wide and per student. Students proposing ELO’s will actively participate in selecting, organizing, and carrying out the learning activities.

A variety of ELO’s are created each school year. One ELO that occurs every year is the ELO-Yearbook. Please see Mrs. Wilmarth if you are interested in taking part in the publication of Salem High School’s yearbook. Knowledge in photography and desktop publishing/design is preferred. Skills associated with the publishing industry including meeting deadlines, selling and designing advertisements, customer service, professionalism, and creativity are integral components of this dynamic internship opportunity.

SPECIAL EDUCATION

The Special Education Department at Salem High School believes that all students, including those with disabilities, are capable of learning, and shall be afforded equal access to the variety of educational programs. Recognizing that students vary in their rate of learning and achievement, Salem High School provides a range of learning opportunities, designed to meet the needs of children with disabilities in the least restrictive educational setting. This is done through specialized instruction, accommodations, and modifications to help students access the common core standards and district competencies.
In order to be recognized as a NH Scholar, Salem High School students must meet the following criteria, with a cumulative GPA of 2.5 on a 4.0 scale:

<table>
<thead>
<tr>
<th>Core Subject Area</th>
<th>Credits</th>
<th>Core Subject Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
<td>World Language</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics*</td>
<td>4</td>
<td>Social Studies</td>
<td>3.5</td>
</tr>
<tr>
<td>Lab Sciences**</td>
<td>3</td>
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<td></td>
</tr>
</tbody>
</table>

*Mathematics includes Geometry and Algebra 2  
**Lab Sciences includes Biology, Chemistry, Physics, Biotechnology

SHS students may be recognized as a NH Scholar with a Career Pathway emphasis, provided they meet the NH Scholars criteria listed above in addition to a Work Based Learning Experience, and one from each of the following columns:

- Approved CTE program
- Industry-Aligned or career-driven Extended Learning Opportunity
- All Sequence Components in Formal Career Pathway Program of Study
- Community College System of NH Industry Certificate Sequence

SHS students may be recognized as a NH Scholar with either a STEM or Arts Emphasis, provided they meet the NH Scholars criteria listed above in addition to the following, with a 3.2 cumulative GPA on a 4.0 scale.

<table>
<thead>
<tr>
<th>NH Scholars STEM Emphasis</th>
<th>NH Scholars Arts Emphasis</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Total Science Courses</td>
<td>2 Courses in Visual, Performing Arts, or Graphic Design</td>
</tr>
<tr>
<td>1 Technology, Engineering, or Advanced Manufacturing Course</td>
<td></td>
</tr>
</tbody>
</table>
**Division I Initial Eligibility**

If a student-athlete meets the minimum NCAA initial-eligibility standards, it doesn’t mean they will be admitted to play sports at the college of their choice. Many universities have academic standards for incoming freshman athletes that are much higher than the NCAA minimum requirements. However, to be eligible to compete in NCAA sports during your first year at a Division I school, you must meet academic requirements for your core courses, grade-point average (GPA) and test scores.

You must graduate high school and meet **ALL** of the following requirements:

- Complete **16 core courses** (see www.ncaa.org/student-athletes/future/core-courses)
  - Four credits of English
  - Three credits of math (Algebra 1 or higher)
  - Two credits of natural/physical science (including one year of lab science if your high school offers it)
  - One additional credit of English, math or natural/physical science
  - Two credits of social science
  - Four additional credits from the following subjects: English, math, natural/physical science, social science, foreign language, comparative religion or philosophy

- Complete **10 core courses**, including seven in English, math or natural/physical science, **before your seventh semester**. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA.

- Earn at least a **2.3 GPA** in your core courses.
  - (see http://www.ncaa.org/student-athletes/grade-point-average)

- Earn an **SAT combined score or ACT sum score** matching your core-course GPA on the Division I sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.
  - (see www.ncaa.org/student-athletes/future/test-scores )

**Division II Initial Eligibility**

For students to be eligible to compete in NCAA sports during their first year at a Division II school, they must meet academic requirements for their core courses, core-course grade-point average (GPA) and test scores.

You must graduate high school and meet **ALL** of the following requirements:

- Complete 16 core courses:
  - Three credits of English
  - Two credits of math (Algebra 1 or higher)
  - Two credits of natural/physical science
  - Three additional credits of English, math or natural/physical science
  - Two credits of social science
  - Four additional credits from the following subjects: English, math, natural/physical science, social science, foreign language, comparative religion or philosophy

- Earn at least a 2.2 GPA in core courses

Additional information can be found online at eligibilitycenter.org or on the SHS School Counseling or SHS Athletics webpage. Please see your counselor if you need help or have further questions.
In conjunction with the Community College System of NH, Project Running Start enables high school students to earn college credits while taking courses during the regular school day at Salem High School. Courses and instructors were approved to teach NH Community College classes right here at Salem High School. It should be noted that there is no difference between these credits and credits students could earn by taking courses on their own at any NH Community College. Students enrolling in the program will receive a college transcript enabling them to initiate the traditional transfer process at their selected post secondary college. As the case with anyone attempting to transfer college credits, students are encouraged to contact the registrars office at their prospective colleges to see if credits can be transferred from the NH Community College system. A sample list of colleges who have accepted NH Community College courses are listed below (please note this is only a partial listing of New England colleges who have accepted Credits from the NH Community College system). Project Running Start courses are designated with (RS) after the credits for a particular course in each department's course listing section of this booklet.

**SHS Running Start Course Listing:**
*(Note: subject to availability)*

- AP BIOLOGY 1 & 2
- AP CALCULUS AB
- AP CALCULUS BC
- AP CHEMISTRY 1 & 2
- AP PHYSICS 1 & 2
- AP STATISTICS 1 & 2
- ASTRONOMY
- AUTOMOTIVE TECHNOLOGY 2
- BIOMEDICAL SCIENCE 2
- BUSINESS LAW
- BUSINESS MANAGEMENT
- BUSINESS PRINCIPLES
- CIVIL ENGINEERING & ARCHITECTURE
- COLD WAR & BEYOND
- COLLEGE ACCOUNTING
- CULINARY ARTS 2
- DIGITAL GRAPHICS APPLICATIONS 1
- DIGITAL GRAPHICS APPLICATIONS 2
- ENGINEERING 1
- ENGINEERING 2
- ENGINEERING 3
- FINITE MATH
- FRENCH 4, HONORS
- HEALTH SCIENCE TECHNOLOGY 1
- MARKETING 2
- METEOROLOGY - WEATHER STUDIES
- SPANISH 4, HONORS
- STATISTICS & PROBABILITY
- TELEVISION & MEDIA PRODUCTION
- TOPICS IN APPLIED COLLEGE (TAC) MATH

**Sample Listing of New England Colleges that have Accepted Running Start Credits:**

**Connecticut**
- Central Conn. State College
- Eastern Conn. State University
- Fairfield University
- Quinnipiac University
- Sacred Heart College
- University of Connecticut
- University of Hartford
- University of New Haven

**Massachusetts**
- Assumption College
- Barnard College
- Bay Path College
- Becker College
- Bentley College
- Boston College
- Boston University
- Bryant College
- Clark University
- Curry College
- Emerson College
- Emmanuel College
- Endicott College
- Gordon College
- Lesley University
- Massachusetts College of Pharmacy
- Merrimack College
- Middlesex Community College
- Mount Holyoke College
- Northeastern University
- Northern Essex Community College
- Simmons College (Boston)
- Springfield College
- Stonehill College
- Suffolk University
- Tufts University
- University of Massachusetts
- Western New England
- Westfield State University
- Wheaton College
- Worcester PolyTech

**Maine**
- Central Maine Community College
- Maine College of Art
- St. Joseph’s College of Maine
- Thomas College
- Unity College
- University of Maine
- University of New England
- University of Southern Maine

**New Hampshire**
- Colby Sawyer College
- Daniel Webster College
- Franklin Pierce College
- Granite State College
- Keene State College
- Mount Washington College
- New England College
- Plymouth State University
- Rivier University
- Southern NH University
- Saint Anselm College
- University of New Hampshire

**Rhode Island**
- Johnson & Wales
- New England Institute of Technology
- Providence College
- Rhode Island College
- Salve Regina College
- University of Rhode Island

**Vermont**
- Castleton State College
- Champlain College
- Green Mountain College
- Northern Vermont University, Lyndon
- Norwich University
- Southern Vermont College
- St. Michael’s College
- Trinity College
- University of Vermont
- Vermont Technical College

For more information please visit: [http://www.ccsnh.edu/running-start/colleges-who-have-accepted-Credits](http://www.ccsnh.edu/running-start/colleges-who-have-accepted-Credits).
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Air Force JROTC

Air Force Junior Reserve Officer Training Corps (AFJROTC) is a program designed to develop citizens of character dedicated to serving their nation and community. Each AFJROTC class consists of three components—aerospace science, leadership education, and a wellness program. Citizenship and character education, the heart of the curriculum program, is primarily embedded in the leadership education series of courses, while sense of service and education in science and technology related aerospace science is primarily found in the aerospace science series of courses.

To reinforce what is taught in the classroom, students participate in many outside activities such as field trips to military bases, aerospace facilities and industries, museums, civilian airports and other areas related to aerospace education. AFJROTC units also offer the opportunity to participate in co-curricular activities to include drill and ceremonies, summer leadership schools, and honorary academic groups. Additionally, community service projects are a major part of the AFJROTC experience and help instill a sense of civic pride and citizenship.

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<th>LENGTH</th>
<th>COURSE #</th>
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<tbody>
<tr>
<td>JROTC SPACE TECHNOLOGY/SURVIVAL/CAREER OPPORTUNITIES</td>
<td></td>
<td></td>
<td></td>
<td>906</td>
</tr>
<tr>
<td>JROTC - MANAGEMENT OF THE CADET CORPS</td>
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JROTC SPACE TECHNOLOGY/SURVIVAL/CAREER OPPORTUNITIES
Course# 906, Grades 9-12, 1 Credit (RS), Year

The forty percent of the course covering aerospace science covers space technologies and survival skills. Space technologies investigates the importance of entering space and discusses manned and unmanned space flights, focusing on concepts surrounding spaceflight, space vehicles, launch systems, and the use of robots on space missions. Students will design, build and launch model rockets to enhance their understanding of rocket science and build small robots. The survival instruction will provide training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival. Survival also presents “good to know” information that would be useful in any situation. The forty percent of the course covering leadership education will prepare students for life after high school in the high-tech, globally oriented, and diverse workplace of the 21st century. It is a “hands-on” course focusing on teaching the students valuable life skills, such as preparing for college, employment and the basics of financial management. Military customs and courtesies, how to project a positive attitude, and an examination of ethical and moral behavior is also included. Twenty percent of the course is a wellness program that includes sports, physical training and testing to help develop a healthy lifestyle. This training satisfies select physical education requirements and as such, 0.25 credits will be granted towards the graduation requirement.

JROTC - MANAGEMENT OF THE CADET CORPS
Course# 908, Grades 12, 1 Credit (RS), Year

This course provides exposure to the fundamentals of management. The text contains many leadership topics that will benefit students as well as provide them with some of the necessary skills needed to put into practice what they have learned during their time in AFJROTC. This is a “hands-on” management course affording the cadets the opportunity to put the theories of previous leadership courses and the LE Management part of this course into actual practice. Cadets will plan, organize, coordinate, direct, and control the key events and activities of the cadet corps. Twenty percent of the course is a wellness program that includes sports, physical training and testing to help develop a healthy lifestyle. This training satisfies select physical education requirements and as such, 0.25 credits will be granted towards the graduation requirement. Prerequisite: Senior with at least two JROTC courses or Senior Aerospace Science Instructor recommendation
Business courses provide you with an opportunity to explore a business cluster and to build a strong foundation for post-secondary study and/or work. The Business Career Pathway is a four course sequence offering 12 college credits. The business pathway provides a solid foundation in introductory business courses for students interested in majors and careers such as business, entrepreneurship, management, sales, insurance and finance. The suggested sequence for the business pathway is Business Principles, College Accounting, Business Management, Business Law.

### COURSE GRADE CREDIT LENGTH COURSE #

<table>
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<tr>
<th>Course</th>
<th>Grade</th>
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<td>705</td>
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<tr>
<td>BUSINESS LAW</td>
<td>11-12</td>
<td>1 (RS)</td>
<td>S</td>
<td>713</td>
</tr>
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<td>BUSINESS MANAGEMENT</td>
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<tr>
<td>INTRODUCTION TO BUSINESS</td>
<td>9-10</td>
<td>1/2</td>
<td>S</td>
<td>706</td>
</tr>
<tr>
<td>PERSONAL MONEY MANAGEMENT</td>
<td>10-12</td>
<td>1/2</td>
<td>S</td>
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<tr>
<td>SOFTWARE ESSENTIALS (CSMA-1)</td>
<td>9-12</td>
<td>1/2</td>
<td>S</td>
<td>955</td>
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### ACCOUNTING
**Course# 705, Grades 10-12, 1 Credit, Year**
Accounting is the language of business. This course will introduce you to the fundamental concepts of debits and credits, which are used to keep financial records and prepare financial statements. This hands-on course will help you succeed in a wide variety of careers and provide an excellent preparation for those who plan on majoring in business or entering the workforce.

### BUSINESS LAW
**Course# 713, Grades 11-12, 1 Credit (RS), Semester, Everyday**
Business Law will increase your understanding of business’ responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions. Students will work with case studies to learn how business and personal law affect organizations and individuals. Topics discussed include: constitutional law for business and on-line commerce, torts and privacy, business and cyber-crimes, ethics and social responsibility, and contracts and warranties. **Prerequisite: Successful completion of Business Principles. This course is one of the four courses in the Business Pathway Program, and is eligible for 3 college credits.**

### BUSINESS MANAGEMENT
**Course# 712, Grades 11-12, 1 Credit (RS), Semester, Everyday**
In Business Management, you will be introduced to the principles and techniques underlying the successful management of business organizations. Topics you will learn include: supply and demand, market structure, entrepreneurship, leadership, motivational techniques, ethics and social responsibility, management styles, and the functions of management. You will analyze basic management activities and apply knowledge to complete a business plan for a company of your own creation. **Prerequisite: Successful completion of Business Principles. This course is one of the four courses in the Business Pathway Program, and is eligible for 3 college credits.**

### BUSINESS PRINCIPLES
**Course# 704, Grades 11-12, 1 Credit (RS), Semester, Everyday**
This course is designed to provide you with a basic understanding of the structures and operations of business. You will gain an awareness of social and ethical responsibility as it relates to the environment, consumers, employees, and investors. Business ownership, management, marketing, the global economy, money and investments will also be explored. **This course is one of the four courses in the Business Pathway Program, and is eligible for 3 college credits.**

### COLLEGE ACCOUNTING, HONORS
**Course# 707, Grades 11-12, 1 Credit (RS), Semester, Everyday**
College Accounting is a comprehensive study of accounting principles. Students interested in careers in accounting, financial management, or who intend to major in business in college should consider this course. The course content is equivalent to a first semester college accounting course. **Prerequisite: This course is one of the four courses in the Business Pathway Program, and is eligible for 3 college credits.**

### ECONOMICS/CAREER EXPLORATION
**Course# 702, Grades 10-12, 1 Credit, Year**
This course is designed to help you understand your role in our economy. You will be introduced to the fundamental concepts of different economic systems with emphasis on the American Free Enterprise System. Supply and demand, business ownership, money, banking, stocks and bonds, taxes, and the global economy are some of the topics that will be discussed. You will also explore different career options and the life-long impact of choosing the right career. **Economics is a graduation requirement.**

### ECONOMICS/CAREER EXPLORATION, HONORS
**Course# 703, Grades 10-12, 1 Credit, Year**
This is an accelerated course that studies the concepts of supply and demand, business ownership, banking, stocks, and taxes. The course is designed to give you a global view of your role in a global economy. You will also explore different career options and the life-long impact of choosing the right career. Extensive reading, writing, discussion, and research will be required in this course. **Economics is a graduation requirement. Prerequisite: Grade of A- or better in Global Studies or a Grade of B- or better in Honors Global Studies.**
INTRODUCTION TO BUSINESS  
Course# 706, Grades 9-10, 1/2 Credit, Semester  
This course is designed to teach business skills that can be used in your daily life and in preparation for further business studies. Individual and group assignments will emphasize practical applications of major business topics. Various business careers will be explored. Current business practices and events will also be discussed.

PERSONAL MONEY MANAGEMENT  
Course# 714, Grades 10-12, 1/2 Credit, Semester  
This course is designed to introduce the student to personal financial analysis and financial planning. Topics covered will include time value of money, financial planning, credit, insurance, investment options, such as stocks, bonds, and mutual funds, financial markets, the stock market and factors affecting the stock market, as well as individual financial situations. Financial decision making tools, online simulations, and case studies will be used to provide insight into the financial world and careers in finance. Basic math skills are highly recommended.

SOFTWARE ESSENTIALS  
Course# 955, Grades 9-12, 1/2 Credit, Semester  
This fun, hands-on course will focus primarily on effective file management and the ability to develop a powerful Microsoft PowerPoint presentation complete with multimedia effects, customized/editing audio clips, images, and even video. Students will also be introduced to the Adobe Creative Suite with brief units on InDesign and Photoshop. Efficient file management practices and general digital technology skills will be enhanced throughout the course providing the student with the background helpful in any subsequent computer course. Overall, this class is an opportunity to learn things you'll actually use right away in high school, when you get to college, and throughout your professional career.
Career and Technical Education Programs are offered at both the Salem and Pinkerton Academy Career and Technical Education Centers as part of Region 17, which includes Pelham, Pinkerton, Salem, Timberlane and Windham. Last year, over 1,400 students from Region 17 participated in CTE programs. These programs provide students an opportunity to explore or get a head start on their career plans. CTE programs are designed to provide students with the requisite skills and knowledge necessary to succeed in both a career and in post-secondary education. Many of the CTE programs provide students the opportunity to earn both high school and college credit. Information about CTE programs is available at www.SalemCTE.com. For more information on CTE in general, go to https://www.acteonline.org/.

Seating in CTE programs can be competitive and limited. Students must complete an application for admission. Selection for a CTE program is based on prerequisites, attendance record, discipline record, and in some cases a personal interview.

**AUTOMOTIVE TECHNOLOGY PATHWAY**

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

- **AUTOMOTIVE TECHNOLOGY 1** .................................................. 10-11 ............ 2 ................ Y ............ 821
- **AUTOMOTIVE TECHNOLOGY 2** .................................................. 11-12 ............ 2 (RS) ........ Y ............ 823

**BIOMEDICAL SCIENCE PATHWAY**

Biomedical Science is a laboratory-based, two year program aimed at preparing students for a variety of careers and professions in the life science, biotechnology and medical fields. This program will prepare you for careers in medicine, genetics, biotechnology, pharmaceuticals, biochemistry, biomedical engineering, and research to name a few. You will have access to state-of-the-art equipment and technology which rivals many post-secondary programs. Completion of Biomedical Science 1 satisfies the life science graduation requirement.

- **BIOMEDICAL SCIENCE 1** ............................................................ 10-12 ............ 2 ............ Y ............. 213
- **BIOMEDICAL SCIENCE 2** ............................................................ 11-12 ............ 2 (RS) ....... Y ............. 207

**BUSINESS PATHWAY**

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

- **BUSINESS LAW** ........................................................................... 11-12 ............ 1 (RS)........ S* ............. 713
- **BUSINESS MANAGEMENT** .............................................................. 11-12 ............ 1 (RS)....... S* ............. 712
- **BUSINESS PRINCIPLES (must be taken first)** .............................. 10-12 ............ 1 (RS) ...... S* ............. 704
- **COLLEGE ACCOUNTING, HONORS** ........................................... 10-12 ............ 1 (RS)........ S* ............. 707

*Meets everyday for one semester

**CARPENTRY & CONSTRUCTION PATHWAY**

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

- **CARPENTRY 1** .............................................................................. 11 ............ 2 ............ Y ............. 825
- **CARPENTRY 2** .............................................................................. 12 ............ 2 ............ Y ............. 827
The Computer Science & Technology Pathway is a two-year program designed for students who are interested in careers in the information technology sector, such as programming, software development, and software engineering. Students have the option of pursuing an accelerated AP course sequence within this program. This is one of the fastest growing sectors for job growth with excellent earning potential. Advancing in this career pathway can include certificate programs, and two and four-year college degrees.

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Credit</th>
<th>Length</th>
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</table>

**COSMETOLOGY PATHWAY**

Cosmetology is the newest program offered at the Salem CTE where a brand new salon and classroom have been constructed. Cosmetology is a high demand area with a strong employment outlook. The State of New Hampshire requires 1500 hours of education and clinical experience for licensing. Through partnerships with post-secondary cosmetology schools, students can earn up to 300 clinical hours over the 2 year CTE program. Students should have strong communication skills as this is a very social environment. Because clinical hours are accrued, all absences must be made up to account for lost hours. Students are responsible for obtaining an apprentice license ($25.00) and a cosmetologists kit and mannequin ($100.00). Financial and fundraising assistance is available.

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
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<th>Length</th>
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</table>

**CULINARY ARTS & HOSPITALITY PATHWAY**

Do you love to cook? Do you enjoy serving people in your community and making them happy? Are you interested in a career that allows you to travel? Hospitality and tourism is one of the largest industries in New Hampshire and demand for quality trained cooks, chefs, managers and servers is high. You will gain excellent industry experience in this highly hands-on program, learning your way around a commercial kitchen and restaurant, and practicing fundamental cooking methods and hospitality principles. You will work with a team of peers to operate successfully the on-site restaurant as well as catering a variety of functions. Start your culinary education with us and prepare for an exciting career in the food service industry or take the next step following high school and advance your skills in an accredited and respected culinary or hospitality management program.

<table>
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<tr>
<th>Course</th>
<th>Grade</th>
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**DIGITAL GRAPHICS PATHWAY**

The Digital Graphics application program provides students with a diverse exposure to multiple digital media types and digital graphics layout and design. A strong focus is on learning and applying Adobe Creative Cloud applications including InDesign, Photoshop, Illustrator, Dreamweaver, Premiere, and Animate. Students will work in a creative, project-based environment learning skills such as page layout, web design, app design, animation, and video editing.

<table>
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**ENGINEERING PATHWAY**

The Engineering pathway is designed for students interested in careers in engineering, engineering technician, advanced manufacturing, architecture, construction, CNC operation, CADD, and product design. The program is a blend of classroom and hands-on experiences designed to teach students the engineering process and fields associated with engineering. Students earn college credit from NHTI for each course completed.

<table>
<thead>
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<th>Course</th>
<th>Grade</th>
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<td>S*</td>
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<td>850</td>
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</table>

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

**HEALTH SCIENCE TECHNOLOGY 1** ......................................................... 11 .......................... 2 (RS) ....... Y ............ 829
**HEALTH SCIENCE TECHNOLOGY 2 (EMT)** ...................................... 12 .......................... 2 ............ Y ............ 832
**HEALTH SCIENCE TECHNOLOGY 2 (MA) ........................................ 12 .......................... 2 ............ Y ............ 831
**HEALTH SCIENCE TECHNOLOGY 2 (NA) ........................................ 12 .......................... 2 ............ Y ............ 830

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

**MARKETING 1** ............................................................................. 10-11 .......................... 1 ............ S* ............ 833
**MARKETING 2** ............................................................................. 11-12 .......................... 2 (RS) ....... Y ............ 835

*S Meets everyday for one semester

TEACHING PATHWAY
In this program you will be introduced to education history, theory and methods of teaching. This course provides you with a basic understanding and introduction to the teaching and education profession. 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. You should have an excellent attendance record. Emphasis is placed on work-ready skills and academic skills and content. You are required to complete observation hours in a variety of classroom settings. Professional attire is required when you are at practicum and observation sites. Students considering careers in all levels of the education field benefit from this program and are well prepared for college. This program is eligible for up to 10 college credits from SNHU.

**TEACHER PREPARATION 1** .......................................................... 11 .......................... 2 (SNHU) ....... Y ............ 813
**TEACHER PREPARATION 2** .......................................................... 12 .......................... 2 (SNHU) ....... Y ............ 815

TELEVISION & MEDIA PRODUCTION PATHWAY
TV and Media Production is a program designed for students who are interested in careers in the visual arts, broadcasting and production. This highly hands-on, project-oriented program teaches you a multitude of skills and techniques which rivals many college programs. If you have an interest or passion for film, TV and Media Production is a program designed for students who are interested in careers in the visual arts, broadcasting and production. This highly hands-on, project-oriented program teaches you a multitude of skills and techniques which rivals many college programs. If you have an interest or passion for film,

**TELEVISION & MEDIA PRODUCTION 1** ........................................ 10-11 ............ 2 (RS) ............ Y ............ 837
**TELEVISION & MEDIA PRODUCTION 2** ........................................ 11-12 ............ 2 ............ Y ............ 839

PROGRAMS AT PINKERTON
If a CTE program is not offered at the Salem CTE center, students in Grades 11 and 12 are eligible to attend CTE programs offered at Pinkerton Academy. Students must provide their own, reliable transportation. For more information, contact the CTE office.

ANIMAL SCIENCE/ VETERINARY TECHNOLOGY

**ANIMAL HEALTH AND VETERINARY TECH.** .................................. 12 .......................... 2 ............ Y ............ 843
**ANIMAL MANAGEMENT** ................................................................. 11 .......................... 1 ............ Y ............ 847
**INTRODUCTION TO ANIMAL SCIENCE** .......................................... 11 .......................... 1/2 ............ S ............ 846

ELECTRICAL TECHNOLOGY

**ELECTRICAL TECHNOLOGY 1** ....................................................... 11 .......................... 2 ............ Y ............ 852
**ELECTRICAL TECHNOLOGY 2** ....................................................... 12 .......................... 2 (RS) ....... Y ............ 853

FORESTRY AND ENVIRONMENTAL STUDIES

**ENVIRONMENTAL STUDIES/OUTDOOR SKILLS** ......................... 11-12 .......................... 2 ............ Y ............ 865
**FORESTRY TECHNOLOGY** ............................................................. 11-12 .......................... 2 ............ Y ............ 876

WELDING TECHNOLOGY

**WELDING TECHNOLOGY 1** ............................................................ 11 .......................... 2 ............ Y ............ 874
**WELDING TECHNOLOGY 2** ............................................................ 12 .......................... 2 ............ Y ............ 875
ANIMAL HEALTH & VETERINARY TECH. (PINKERTON)
Course# 843, Grade 12, 2 Credits, Year, Everyday
This full-year (2 credit) course is designed for students who are interested in a future career with animals in the health and veterinary technology field. Specific units of instruction will include but are not limited to introduction to veterinary technology, veterinary terminology, veterinary technology skills, animal diseases, animal welfare ethics and treatment, animal first aid. Students will also learn how to properly groom canines and run a student CTE enterprise, The Pinkerton Pet Palace.
Prerequisite: Successful completion of Intro to Animal Science and Animal Business Management with a minimum grade of 80 and approval from the CTE Director.

ANIMAL MANAGEMENT (PINKERTON)
Course# 847, Grade 11, 1 Credit, Year, Everyday
In this full-year (1 credit, 45 minute) course, students will learn how to successfully become prepared to work in an animal care facility by learning proper sanitation and care techniques of the small animals within the lab. Specific units of instruction will include but are not limited to; proper animal husbandry of large and small animals, breeds of animals, careers in the animal industry, resumes, animal economics and all aspects of the industry.

AP COMPUTER SCIENCE A
Course# 855, Grades 10-12, 2 credits (RS), Year, Everyday
While similar to Computer Science & Technology II, this course moves at an accelerated pace and prepares students to take the AP Computer Science A exam. Students learn more detailed object oriented coding using Java and Python. The program will give students experience with real-world software development projects based on Agile methodology. Students will collaborate to complete detailed projects that help highlight and solve problems in our school, community, and society. These projects will include physical computing, app development, and video game design.
Prerequisite: Computer Science & Technology 1 or AP Computer Science Principles

AP COMPUTER SCIENCE PRINCIPLES
Course# 854, Grades 10-12, 2 credits (RS), Year, Everyday
While similar to Computer Science & Technology I, this course moves at an accelerated pace and includes more in depth research into computer innovation and its impact on society as well as a deeper focus on analyzing software. Students will be prepared to take the AP Computer Science Principles exam. The program covers a broad range of topics such as programming, algorithms, the internet, big data, digital privacy and cyber security, and the societal impacts of computing. This course places a strong emphasis on computational thinking and collaboration through projects. Computing affects almost all aspects of modern life, and all students can benefit from a course that prepares them to pursue the wide array of intellectual and career opportunities that computing has made possible. This provides foundational knowledge and skills to meaningfully participate in our increasingly digital society, economy, and culture.

AUTOMOTIVE TECHNOLOGY 1
Course# 821, Grades 10-11, 2 Credits, Year, Everyday
In Automotive Technology 1, you will study many of the major automotive systems while learning how a quality automotive shop operates. Major topics of instruction include: shop safety, shop operations, lubrication, engine components, steering and suspension, brake systems, and vehicle safety inspections. You will also develop an understanding of service write-ups, customer service, and parts management. You will gain valuable hands-on experience performing live work in the Salem AutoTech shop. Appropriate safety instruction is provided and students are required to wear proper footwear, eyewear, and clothing for use in laboratory activities. The National Institute for Automotive Service Excellence (ASE) recognizes the Salem Automotive Technology program as a certified training program and it has achieved National Automotive Technicians Education Foundation (NATEF) certification. You will be eligible to earn SP2 safety certification, Valvoline oil certification, as well as industry-driven training from various local companies.

AUTOMOTIVE TECHNOLOGY 2
Course# 823, Grades 11-12, 2 Credits (RS), Year, Everyday
In Automotive Technology 2, you will use the skills and competencies mastered in Automotive Technology 1, while mastering new competencies in front-end alignment, steering and suspension, emissions, engine principles, cooling and heating systems, electrical diagnosis and repair as well as scan tool use. A continued emphasis on safety, shop management, and proper workplace attitude are important components of this course. You are required to provide proper footwear and clothing for use in laboratory activities. Automotive related colleges and post-secondary schools visit the program each fall to inform you of post-secondary options. You will be eligible for student level ASE certification and have the opportunity to compete in Skills USA competition. Prerequisite: Grade of C or better in Automotive Technology 1 or teacher recommendation.

BIOMEDICAL SCIENCE 1
Course# 213, Grades 10-12, 2 Credit, Year, Everyday
Biomedical Science is a two-year program for students interested in pursuing a major or career in the medical sciences, biotechnology and many affiliated fields. This is a very hands-on program where you will learn skills and techniques in our state-of-the art laboratory while preparing you for these high-demand jobs. In Biomedical Science 1 you will focus on microbiological techniques such as aseptic technique, growing culture, media preparation, microbial genetics and identification. You will also study techniques in DNA manipulation, cell culture, protein, purification, drug discovery, bioinformatics, and much more. The work completed in this course rivals most undergraduate programs. If you enjoy the sciences in a hands-on laboratory environment, then this course is for you! Biomedical Science 1 fulfills the life science/biology requirement.
Prerequisite: Grade of C or better in Earth/Space Science or Integrated Science

BIOMEDICAL SCIENCE 2
Course# 207, Grades 11-12, 2 Credit (RS), Year, Everyday
Biomedical Science 2 focuses on advanced topics and skills related to biomedical science, biochemistry and 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 scientists, you are given the opportunity to gain experience working independently on a number of long term research projects. This course qualifies for 3 college credits in biotechnology.
Prerequisite: Grade of C or better in Biomedical Science 1.
In Carpentry 2, you will expand on your skills from the first year and learn more advanced skills in areas such as roof and stair framing, siding systems, insulating, window installation, roofing, and finish work. Students will complete more advanced projects in this course. You are required to have proper work boots and clothing. **Prerequisite:** Grade of C or better in Carpentry 1 or permission of instructor.
COSMETOLOGY 1
Course# 848, Grade 10-11, 2 Credits, Year, Everyday
In Cosmetology 1 students will be introduced to the cosmetology industry and associated careers. Students will work in a combined classroom and hands-on environment learning safety and sanitation, hair cutting and styling techniques, nail technology and esthetics. A newly constructed cosmetology salon serves as the classroom for working with hair mannequins. All students are required to obtain a cosmetology apprentice license from the State of New Hampshire and purchase a cosmetology kit and mannequin head (approx. $100.00).

COSMETOLOGY 2
Course# 849, Grade 11-12, 2 Credits, Year, Everyday
In Cosmetology 2, students continue to improve and practice their skills from level 1 while learning more advanced hair cutting and styling techniques, coloring techniques and advanced esthetics such as facials and pedicures. Students will learn about the business of salon operations and ownership. Cosmetology 2 students will have the opportunity to work with customers in the salon. An additional cost for advanced tools may be required ($75). **Prerequisite: Successful completion of Cosmetology 1 with a grade of C or better or permission of the instructor.**

CULINARY ARTS 1
Course# 801, Grades 10-11, 2 Credits, Year, Everyday
In Culinary Arts 1, you will learn about kitchen safety and sanitation, culinary terminology, product identification, baking skills, knife skills and other culinary skills essential to the industry. You will work as a team preparing food for the Three Seasons restaurant and other catering and culinary functions. If you enjoy cooking and working with a fun team in a fast-paced environment, then Culinary Arts is for you. Opportunity in the culinary and hospitality business is endless and is a profession that you can practice anywhere in the world.

CULINARY ARTS 2
Course# 803, Grades 11-12, 2 Credits (RS), Year, Everyday
In this course, you will build on your skills from year one and take on a leadership role in menu design, working brigade positions such as Sous Chef, dining room manager, expediting, and lead baker. Students assume all upper management positions within the kitchen, dining room, and bakery. You will further refine your skills and knowledge by completing a culinary arts electronic portfolio. This portfolio serves to document your cooking, pastry baking, and employability skills, as well as your knowledge of safety and sanitation. Students may also participate in after school functions and banquets. College credit is available through Lakes Region Community College. **Prerequisite: Grade of C or better in Culinary Arts 1 or teacher recommendation.**

DIGITAL GRAPHIC APPLICATIONS 1
Course# 718, Grade 10-12, 2 Credits (RS), Year, Everyday
Students will learn how to use the Adobe Creative Suite in a fun, hands-on environment, while creating professional quality brochures, pamphlets, posters, signs, window decals, automotive wraps, and visual graphics designed for websites and mobile applications. Focusing on Adobe InDesign and Photoshop, students will have the opportunity to earn six transferable college credits in page layout & design (desktop publishing) and digital imaging (photo/image editing). This course’s content is directly applicable to wide range of careers and nearly any college major providing the student with a powerful skillset while offering flexibly for future college and career planning. Former students overwhelmingly report this class was an enjoyable and worthwhile experience.

DIGITAL GRAPHIC APPLICATIONS 2
Course# 720, Grade 10-12, 2 Credits, Year, Everyday
Students will have the opportunity to apply their creativity in the process of creating a wide variety of tangible products in a rich, project based environment while applying the skills and knowledge acquired in level-1. The course will continue with the emphasis on the Adobe Creative Suite with new units on creating vector graphics with Illustrator, producing digital animations with Flash, designing web sites using HTML and CSS, and learning the basics of developing mobile apps. Assisting in both career and college readiness, exposure to potential professional opportunities such as UX/UI (user experience and user interface) while completing real-life customer-based projects will help round out this solid two-year program in graphic design and visual communications. **Prerequisite: C or better in Digital Graphics Applications 1, or permission of instructor.**

ELECTRICAL TECHNOLOGY 1 (PINKERTON)
Course# 852, Grade 11, 2 Credits, Year, Everyday
This course is the first half of a 2-year program designed to have students gain the knowledge and skills necessary to successfully enter the field as apprentice electricians. The student will acquire skills in all phases of residential wiring including basic electrical theory, safety, special tools and test equipment, blueprint reading, local requirement calculations, normal residential circuits, and special purpose wiring systems. Job searching skills as well as quality workmanship and professionalism, will be an integral part of the classroom environment.

Students will be required to obtain the NH Apprentice Electrical license-approximate cost is $30.

ELECTRICAL TECHNOLOGY 2 (PINKERTON)
Course# 853, Grade 12, 2 Credits (RS), Year, Everyday
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 Electrical Technology 1. It covers small appliance repair, industrial electricity and motors, basic CAT 5 and fiber terminations, and work with transformers and generators. Students will also participate in the actual wiring, planning, cost estimation, NEC code requirements, and material acquisition needed to complete various renovations and repairs on the Pinkerton campus. Successful completion of the Electrical Technology 1 and 2 programs will credit the student with a portion of classroom and work hours required to obtain a Journeyman Electrical License.

**NOTE: This is an approved math-related course. Prerequisite: Completion of Electrical Technology 1 with a 75 or higher and permission from the CTE Director.**

ENGINEERING 1
Course# 840, Grades 9-12, 1 Credit (RS), Semester, Everyday
The first course in the engineering sequence, ENG I (formerly IED) will introduce you to basic engineering design principles and teach you how to digitally model and physically create objects of your own; Students learn to use advanced computer design software, 3D printers, and basic machinery and techniques in the fabrication lab. You will develop marketable, transferable skills useful in multiple career pathways. **Prerequisite: C or better in Algebra I.**
ENGINEERING 2
Course# 844, Grades 10-12, 1 Credit (RS), Semester, Everyday
The second course in the engineering sequence, ENG II (Formerly POE) goes beyond the design step to teach you the skills you need to construct and test an object of your own. Students learn build strategies and testing and analysis techniques while working on multiple hands-on projects and problems that integrate intermediate fabrication and solid modeling tools while learning how the world around you works. A focus will be on developing interpersonal and team-based skills essential for career and college success. Prerequisite: C or better in Engineering 1. This course meets every day for 1 semester.

ENGINEERING 3
Course# 850, Grade 11-12, 2 Credits(RS), Year, Everyday
The third course in the engineering sequence, this full-year program incorporates advanced engineering and fabrication techniques as well as computer numeric control operation into previously learned engineering skills and processes. Students will work on team-based capstone designs and develop working prototypes in the fabrication lab. Prerequisite: C or better in Engineering 2 or instructor recommendation.

ENVIRONMENTAL STUDIES / OUTDOOR SKILLS
(PINKERTON)
Course# 865, Grades 11-12, 2 Credits, Year, Everyday
This full-year program is designed for students interested in environmental sciences and natural resource management. Active learning and hands-on activities assist the student to better understand and work in outdoor environments. Topics include plant and wildlife studies, habitat types, weather patterns, outdoor recreation and ecotourism, conservation and protection of natural resources, ecology, open space preservation, environmental ethics and legal responsibilities, wetland studies, resource management organizations, and invasive species. Outdoor skills include map, compass, and GPS use; knots; snowshoeing; first aid; survival training; low-impact hiking and camping techniques; outdoor equipment selection and use; and backcountry travel and safety. Special emphasis is placed upon dealing with weather-related dangers, insect pests, terrain hazards, poisonous plants, and recognizing unsafe situations. Students will participate in the New England tradition of making maple syrup by helping to operate the Academy’s sugarhouse. Development of the Forsaith Forest Nature Trail in Chester is also an ongoing class activity. Students must enjoy outdoor activities and be willing to engage in safe, productive learning outside the classroom. (Course has articulation agreements with multiple New England Colleges)
NOTE: This is an approved math-related course.

FORESTRY TECHNOLOGY (PINKERTON)
Course# 876, Grade 11, 2 Credits, Year, Everyday
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; and responsible management practices. Students must enjoy outdoor activities and be willing to engage in safe, productive learning outside the classroom. Unique opportunities exist through use of the program’s 66-acre Forsaith Forest Area in Chester, our own Christmas tree farm, a firewood business, and one of the few operating sugarhouses in the area.

HEALTH SCIENCE TECHNOLOGY 1
Course# 829, Grade 11, 2 Credits (RS), Year, Everyday
Health Science Technology is a two-year program for juniors and seniors who are interested in pursuing a career in the healthcare field. During the first year, we will concentrate on establishing a strong foundation in anatomy and physiology, safety issues, infection control and career exploration. Students are eligible to receive 3 college credits in medical terminology from Manchester Community College. Classroom activities include: lecture, poster presentations, internet projects, competitive games, anatomy labs and audio-visual learning related to diagnosis, treatment and prevention of disease. Skills component includes: vision and hearing testing, vital signs, (temperature, pulse, respiration and blood pressure), gown, glove and hand-washing techniques as well as training in taking EKGs. Students interested in pursuing any career in healthcare would benefit greatly from this course. Prerequisite: Grade of B- or better in Biology or Microbiology and Biomedical Science 1.

HEALTH SCIENCE TECHNOLOGY 2 - EMT
Course #832, Grade 12, 2 credit Year, Everyday
HEALTH SCIENCE TECHNOLOGY 2 - NA
Course# 830, Grade 12, 2 Credits, Year, Everyday
HEALTH SCIENCE TECHNOLOGY 2 - MA
Course# 831, Grade 12, 2 Credits, Year, Everyday
Health Science Technology 2 continues with the completion of studies in anatomy and physiology, pathophysiology, infectious disease, and safety training. American Heart Association CPR certification is provided to all level two students. During second semester, students choose to participate in one of three clinical rotations: Emergency Medical Technician (EMT), Licensed Nursing Assistant (NA), or Allied Health Community Internship (MA). The EMT and NA program require both classroom and clinical rotations at the Salem Fire Department or the Northeast Rehabilitation Hospital. These rotations will require some weekend and evening clinical hours. Upon successful completion of the EMT or NA program, and the corresponding state licensing exam, licensing will occur. Students in the Nursing Assistant program (NA) are responsible for coordinating and assisting with an annual blood drive. Students enrolled in the Allied Health Community Internship program (MA) require both classroom hours and a four month clinical rotation in the community with a preceptor of their choice. A clinical interview with the clinical preceptor is required for all students. At the end of the semester, students will have approximately 60 clinical hours of experience. Available community sites include agencies specializing in radiology, pharmacology, internal medicine, dental health, physical or occupational therapy and veterinary medicine. Health Science Technology promotes responsibility, leadership, maturity, communication skills and professional behavior. Prerequisite: Grade of B- or better in HST 1 and teacher recommendation. Successful completion of HST 1 and HST 2 satisfies the graduation requirement for health. Requirements: EMT course: EMT book and uniform approximate cost $150.00 – NA course: book and uniform approximate cost $100.00 – financial aid is available. Additional cost of approximately $100.00 for students who pursue state licensing. NA students are required to have a flu vaccine and pass a drug test prior to clinical. Name tag and immunization records with updated PPD within the year are also required.
INTRODUCTION TO ANIMAL SCIENCE  (PINKERTON)
Course# 833, Grades 10-11, 1 Credit, Semester, Everyday
This half-year (0.5 credit, 45 minute) 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. *(This course is taken in conjunction with Animal Business Management.)*

MARKETING 1
Course# 838, Grades 10-11, 1 Credit, Semester, Everyday
The sales and marketing fields have great opportunity for employment. In this course, you will take an in-depth look into the marketing of goods and services within the diverse marketing industry. Topics include: sports and entertainment, fashion, retail, marketing communication, consumer behavior, product planning, visual merchandising, pricing, and advertising. Students will obtain their skills and knowledge through classroom instruction, activities, and group and individual projects.

MARKETING 2
Course# 835, Grades 11-12, 2 Credits (RS), Year, Everyday
In this course, you will study how businesses promote their products and services. You will learn the core marketing and advertising tools and concepts needed to develop a successful marketing communications campaign. Topic coverage will include marketing research, promotion, advertising, integrated marketing communications, advertising media, print advertisements, media rate, planning, competition and project management. Students will obtain their skills and knowledge in these functions through classroom instruction, activities, group and individual projects, and the operation of a school-based enterprise. **Prerequisite: Grade of C or better in Marketing 1 or teacher recommendation.**

TEACHER PREPARATION 1
Course# 813, Grade 11, 2 Credits (SNHU), Year, Everyday
In this course you will be introduced to education history, theory and methods of teaching. This course provides you with a basic understanding and introduction to the teaching and education profession. 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. You should have an excellent attendance record. Emphasis is placed on work-ready skills and academic skills and content. You are required to complete observation hours in a variety of classroom settings. Professional attire is required when you are at practicum and observation sites. Students considering careers in all levels of the education field benefit from this program and are well prepared for college. This course is eligible for 4 college credits through SNHU. **Recommendation: Grade of C or better in current English and Math course.**

TEACHER PREPARATION 2
Course# 815, Grade 12, 2 Credits (SNHU), Year, Everyday
Teacher Prep 2 focuses on child growth and development. Theories relevant to individual stages of development are discussed and the sociological, cultural and psychological aspects of human growth and development are studied. An overview of all developmental stages will be covered and students will explain and discuss age and developmentally appropriate experiences for children, particularly in an educational context. Additionally, this course will introduce students to the principles and practices of assessment for teaching and learning. Topics include the types, benefits, and uses of formal and informal assessment as well as the ethical issues of assessment and grading. Students will create assessments aligned with standards-based content and understand what educators need to know about the goals, benefits, and uses of formal and informal assessment. Through classroom observations, students will identify developmentally appropriate use of classroom resources, procedures, and assessments. his course is eligible for 6 college credits through SNHU. **Prerequisite: Students enrolling in Teacher Prep 2 are expected to have mastered or be proficient in the basic teaching skills learned in Teacher Prep 1 and teacher recommendation.**

TELEVISION & MEDIA PRODUCTION 1
Course# 837, Grades 10-11, 2 Credits (RS), Year, Everyday
Television and Media Production 1 is designed to help you gain an understanding of the writing and technical skills required for quality video production. Emphasis will be on building a foundation through lecture, readings, writing, and video production. Completing this course will be preparing you for the rigorous production work in level 2. You will utilize state-of-the-art television, computer and multimedia equipment to produce quality media productions. Through interesting and thought-provoking project-based assignments, you will learn the basics of creating clear and concise multi-media presentations. You must be able to work well in a team environment as this class relies heavily on group work. Assignments will range from short films, PSA's, music videos and news production, and finished projects will air on our local educational channel, SLC-6 and our YouTube channel. Active class participation is mandatory, and you should be prepared to perform daily in front of and behind the camera. Students are expected to assist on some productions of after school sports and school-related events as part of the curriculum.

TELEVISION & MEDIA PRODUCTION 2
Course# 839, Grades 11-12, 2 Credits, Year, Everyday
Television and Media Production 2 is an advanced course that builds upon the skills gained in level 1, and exposes you to advanced concepts in television and media production. You will assume the roles of writer, producer, director, actor, camera person, technical and audio director, and editor while applying organizational production skills to produce a weekly newscast among many other projects throughout the year. Projects are designed to solidify your skills. You will direct live studio productions as well as direct and produce ENG and EFP productions. You will demonstrate effective pre-production, production, and post-production skills using best practices all while reinforcing the fundamentals of digital video and broadcast journalism. You are expected to participate in extracurricular production work and assist Salem’s SLC-6 channel with the videotaping of sports and school events as part of the curriculum. Students completing this course gain the skills and knowledge needed to advance into a college level program or seek gainful employment in a rapidly growing field. **Prerequisite: Grade of C+ or better in Television and Media Production 1, or permission of the instructor.**
WELDING TECHNOLOGY 1 (PINKERTON)
Course# 874, Grade 11, 2 Credits, Year, Everyday
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. Personal protective equipment required to be worn.

Registration through the CTE office is required.

WELDING TECHNOLOGY 2 (PINKERTON)
Course# 875, Grade 12, 2 Credits, (RS) Year, Everyday
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 1. 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. Personal protective equipment is required to be worn.

Prerequisite: Successful completion of Welding Technology 1 with a minimum grade of 75 or better and permission from the CTE Director.

NOTE: This is an approved math-related course.
The following elective courses align with various CTE programs and provide students the opportunity to explore a particular program or career pathway prior to enrolling in the full CTE program.

### CTE Exploratory Courses

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<thead>
<tr>
<th>COURSE</th>
<th>GRADE</th>
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<th>LENGTH</th>
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<tr>
<td>COMPUTER AIDED DRAFTING &amp; DESIGN (CADD)</td>
<td>9-12</td>
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<td>706</td>
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<td>INTRODUCTION TO CARPENTRY</td>
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<td>824</td>
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<tr>
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<td>1/2</td>
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<td>802</td>
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<td>INTRODUCTION TO TV &amp; MEDIA PRODUCTION</td>
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<td>9-12</td>
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<td>SOFTWARE ESSENTIALS</td>
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<td>WOODWORKING TECHNOLOGY 1</td>
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#### COMPUTER AIDED DRAFTING & DESIGN (CADD) (ENGINEERING PATHWAY)

**Course # 779, Grades 9-12, 1/2 Credit, Semester**

Students in this course will learn the basics of computer-aided drafting software such as AutoCAD and Autodesk Inventor. Students will apply this knowledge in the creation of a variety of working drawings and 3D models. You will have the opportunity to experience 3D printing, projections, and basic elements of mechanical design.

#### INTRODUCTION TO AUTOMOTIVE TECHNOLOGY (AUTOMOTIVE PATHWAY)

**Course# 773, Grades 9-12, 1/2 Credit, Semester**

In Introduction to Automotive Technology you will learn about the automotive industry and the careers it has to offer. This includes services you will perform in a real shop environment using state-of-the-art equipment. You will also learn four-stroke engine theory, including disassembly and reassembly of a small engine. This course will provide you with an understanding of the automobile and the ability to decide if you want to enroll in the year-long Automotive Technology program.

#### INTRODUCTION TO BUSINESS (BUSINESS PATHWAY)

**Course# 706, Grades 9-10, 1/2 Credit, Semester**

This course is designed to teach business skills that can be used in your daily life and in preparation for further business studies. Individual and group assignments will emphasize practical applications of major business topics. Various business careers will be explored. Current business practices and events will also be discussed.

#### INTRODUCTION TO CARPENTRY

**Course # 824, Grades 9-12, 1/2 Credit, Semester**

This course is designed to provide students with an understanding of basic carpentry techniques and the carpentry trade and profession. Students will learn carpentry skills and tool use such as job site and tool safety, proper measurement techniques, skill saw use and cutting techniques, basic framing methods, material and fastener selection, and career opportunities in the trade. Students interested in exploring or pursuing a career in a trade area will benefit from this course.

#### INTRODUCTION TO COMPUTER SCIENCE (COMPUTER SCIENCE & TECHNOLOGY PATHWAY)

**Course# 817, Grades 9-12, 1/2 Credit, Year**

This course is designed for students who have limited to no experience with Computer Science and focuses largely on the programming. You will learn about basic computational thinking, planning and logic while using Python and other 4th Generation languages to develop basic programming skills. You will also use MIT’s App Inventor to create mobile android based applications and simulations while applying acquired skills. Topics of study include: learning computer languages like Python; writing and debugging programs, algorithms, creating simulations and applications, digital citizenship/ethics and using computer models to understand data.

#### INTRODUCTION TO CULINARY ARTS (CULINARY PATHWAY)

**Course# 802, Grades 9-10, 1/2 Credit, Semester**

Did you know that as the third largest national industry, the food industry estimates more than 60,000 additional chefs will be needed each year in the United States? This course will introduce you to the culinary and hospitality profession. You will learn about all aspects of fundamental food preparation including meats, poultry, fish, vegetables, sauces, soups, bread and pastry baking, desserts, specialty cooking, dining room service, and more. This is a great way to explore the culinary profession. This class is not required for Culinary Arts 1.

#### INTRODUCTION TO TV & MEDIA PRODUCTION (TV & MEDIA PRODUCTION PATHWAY)

**Course# 836, Grades 9-12, 1/2 Credit, Semester**

Introduction to TV and Media Production is a quarter length course designed to introduce you to the world of video production. Through hands-on experience, you will learn how to produce, direct and edit a video project. Working in groups you will produce films, music videos and commercials that will be seen by the Salem School community and possibly air on television through Salem School District Media SLC-6.
ROBOTICS & SYSTEM CONTROL (ENGINEERING PATHWAY)
Course# 767, Grades 9-12, 1/2 Credit, Semester
Robotics and System Control is a semester course that focuses on the development of robotic systems that can perform tasks independently of user control. The course will cover basics of the design process, mechanical design, electronics, and programming from an engineering standpoint. The final project consists of students developing their own robotic system using the VEX platform that can navigate a course and accomplish a task independent from user control. Students will also develop stronger teamwork and critical thinking skills throughout the course.

SOFTWARE ESSENTIALS (DIGITAL GRAPHIC APPLICATIONS PATHWAY)
Course# 955, Grades 9-12, 1/2 Credit, Semester
This fun, hands-on course will focus primarily on effective file management and the ability to develop a powerful Microsoft PowerPoint presentation complete with multimedia effects, customized/editing audio clips, images, and even video. Students will also be introduced to the Adobe Creative Suite with brief units on InDesign and Photoshop. Efficient file management practices and general digital technology skills will be enhanced throughout the course providing the student with the background helpful in any subsequent computer course. Overall, this class is an opportunity to learn things you'll actually use right away in high school, when you get to college, and throughout your professional career.

WOODWORKING TECHNOLOGY 1 (CARPENTRY/CONSTRUCTION PATHWAY)
Course# 771, Grades 9-12, 1/2 Credit, Semester
You will develop an understanding of wood as a material by successfully planning and constructing projects from a given budget using both hand tools and power woodworking equipment. Woodworking Technology includes the following areas; wood materials, basic wood joinery, hand tools and machines, wood project construction, wood turning, adhesives and gluing, and wood finishing. Safety is an integral part of this course with a lot of time focused on student safety and training. You are required to pass general safety and individual machine tests with 100 percent accuracy, prior to being able to use any equipment.

Career Internships
Career Internship experiences are available to eligible juniors and seniors. Please refer to the course descriptions for details. Career Internship is a work-based situation which allows a student the opportunity for a real work experience. The Internship office is located in room C533.

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CAREER INTERNSHIP
Course# 882, Grades 11-12, 1 Credit, Semester, Everyday
Check out our website: cte.sau57.org/schooltocareers/Pages/Welcome
Career Internship is a work-based situation which allows you the opportunity to experience a particular job or profession while gaining valuable experience. The community liaison and work site mentor work together to coordinate academic and occupational skills that you will learn and apply directly to the work site. You are required to attend a monthly class where you learn resume and cover letter writing, interview skills, as well as, studying all aspects of industry. You are expected to secure your own work site; however, placement assistance is provided. Work experiences may or may not be paid positions. Students accepted into the internship program must meet the following guidelines:
• You must have good attendance
• You must have limited or no behavior offenses including tardiness
• Seniors are given first priority for the program
• You must have reliable transportation to the site
The Career Internship program reserves the right to refuse admittance to any student who fails to meet the criteria and/or is late with the required paperwork.

Career Internships meet every day for 90 days.
In the English component of the Humanities Program courses concentrate on teaching students to speak, listen, and view effectively, to read with understanding, to write clearly and correctly, and to seek actively new ideas through the mastery of language using the Common Core Standards. All students are required to take at least 1 credit of English each year. Alternative course offerings for English are located in the Special Services section.

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**ADVANCED WRITING**

*Course# 322, Grades 11-12, 1/2 Credit, Semester*

Advanced Writing focuses on the development of students’ writing skills and on the practical use of writing techniques leading to a personal style. Various writing forms are considered, but emphasis is on expository work, language skills, organization, and the process of writing. The class functions as a writing workshop in which students discuss their work in conference with the instructor. Advanced Writing is recommended for college-bound students.

*Prerequisite: Grade of B or better in English 10 or American Studies 2: Grade of C or better in Honors English 10 or Honors American Studies 2.*

**AMERICAN LITERATURE, HONORS**

*Course# 350, Grades 11-12, 1 Credit, Year*

This course is designed and devoted to an in-depth study of the American experience as captured in the works of masters of American literature. Students are exposed to the various periods of American literature and the ideas and forces that shaped the writing of those times. The course focuses on literary themes through reading, writing, listening/viewing, and speaking. The analysis, interpretation and appreciation of the many aspects of American literature are emphasized throughout the course. By the end of this course students will be expected to read and write at a senior high school level.

*Prerequisite: A C- or better in honors English 10 or a B- or better in regular English 10. This course is designed for 11th grade students who are enrolled in AP United States History.*
ENGLISH FOR SPEAKERS OF OTHER LANGUAGES
Course # 990, Grades 9-12, 2 Credits, Year, Everyday
Course # 990A, Grades 9-12, 1 Credit, Year, Everyday

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL) is a course for students who have another language in their background and are still developing English-language skills. This course prepares students for the academic language expected in the Salem School District. For beginning students, this course focuses on speaking, listening, vocabulary, and general academic skills. This course will also contain an acculturation to the U.S. component. For intermediate students, this course focuses on reading, writing, study skills, and time management. ESOL also offers content area support to ease transition into all-English classrooms. Prerequisite: ESOL Department recommendation.

COMPREHENSIVE AMERICAN STUDIES 2
Course # 390, Grade 11, 2 Credits, Year, Everyday

COMPREHENSIVE AMERICAN STUDIES 2, HONORS
Course # 392, Grade 11, 2 Credits, Year, Everyday

HONORS ENGLISH 9, HONORS
Course # 302, Grade 9, 1.25 Credits, Year

HONORS ENGLISH 9 is an accelerated course which offers the highly motivated student the opportunity to continue the study of mythology, Shakespeare, and some complex novels in addition to the material covered in the English 9 curriculum. The course requires considerably more preparation than English 9. All students must participate in a mandatory summer reading program prior to the start of Honors English 9. Prerequisite: Grade of A in 8th Grade English.

ENGLISH 10, HONORS
Course # 312, Grade 10, 1 Credit, Year

HONORS ENGLISH 10 is an accelerated course that offers the highly motivated student the opportunity to continue the study of mythology and complex fiction in addition to the material covered in the English 10 curriculum. A classical Greek tragedy and a Shakespearean play are also read. Honors English 10 requires considerably more preparation than does English 10. A major research paper is required. Prerequisite: Grade of B or better in Honors English 9 or Grade of A in English 9.

ENGLISH LANGUAGE & COMPOSITION 1, AP
Course # 378, Grades 10-12, 1 Credit, Year, Everyday

ENGLISH LANGUAGE & COMPOSITION 2, AP
Course # 379, Grades 10-12, 1 Credit, Year, Everyday

This course prepares students for the Advanced Placement examination particularly when taken in conjunction with AP English Language and Composition 1. In addition to continuing the content and skills addressed during the first year, students will examine the formal conventions of the English language in its many written and spoken forms. Students will also examine how the use of these conventions may intentionally or unintentionally contribute to the efficacy of a piece of writing in a particular rhetorical context; and that a particular set of language conventions defines Standard Written English, the preferred dialect for academic discourse. This course will also include a week of intensive test-taking preparation just prior to the AP exam. Prerequisite: AP English Language Composition 1.
ENGLISH LITERATURE 1, AP
Course# 380, Grades 11-12, 1 Credit, Year, Everyday
Advanced Placement English Literature 1 is designed to prepare highly motivated students for the rigors of college English. Readings in the course are chosen to expose students to a wide variety of authors, styles, and genres, from classical Greek literature to contemporary pieces, including drama, poetry, essays, and novels. The focus in the course will be on developing skills of interpretation and a strong analytical writing style. Prerequisite: Teacher recommendation from Comprehensive American Studies 2 Honors, or AP English Language and Composition.

ENGLISH LITERATURE 2, AP
Course# 381, Grades 11-12, 1 Credit, Year, Everyday
This course prepares students for the Advanced Placement Examination and must be taken in conjunction with AP English Literature 1. Readings in the course are chosen to expose students to a wide variety of authors, styles, and genres, from classical Greek literature to contemporary pieces, including drama, poetry, essays, and novels. None of the material will duplicate works used in AP English Literature 1. The focus of the course will be on developing skills of interpretation and a strong analytical writing style. The course will include a week of intensive test-taking preparation just prior to the AP exam. Prerequisite: AP Literature 1 and teacher recommendation.

FICTION WRITING 1
Course# 342, Grades 10-12, 1/2 Credit, Semester
This course will study the form and structure of fiction writing by reading contemporary authors and producing original creative work. Students will learn to incorporate a range of literary techniques in their writing, including characterization, setting, conflict, description, sensory detail, dialogue, and point of view. In addition to longer assignments, students will engage in journaling and responsive writing. Elements of the writing process, particularly revision and editing, are emphasized.

FICTION WRITING 2
Course# 343, Grades 10-12, 1/2 Credit, Semester
Fiction Writing 2 will continue the study of form and structure in fiction writing as students read contemporary authors and produce original creative work. Students should demonstrate familiarity with literary techniques covered in Fiction Writing 1 while learning about more advanced aspects of fiction such as voice, theme, subtext, and publication. Success in this course depends upon active participation in class discussions and group workshops. Prerequisite: Grade of C- or better in Fiction Writing 1.

FILM ANALYSIS
Course# 349, Grades 10-12, 1/2 Credit, Semester
Film Analysis equips students with the tools necessary to become critical viewers of film by introducing them to the elements of the film form, the process of textual analysis and the variety of filmmaking techniques employed in narrative and/or non-narrative cinema. Films viewed in class will be viewed as a “text,” and students will learn how to “read” film by studying elements such as lighting, color, framing, and motion. Students will be assessed through frequent writing of journals and essays, discussions, and projects. Prerequisite: Successful completion of two core English courses. Incoming 10th graders may elect this course if they have earned a B or better in English 9.

FORMS OF FICTION
Course# 332, Grades 10-12, 1/2 Credit, Semester
This course is designed to develop interest in and understanding of various forms of novels and short stories. The genres of detective, historical, fantasy, western, horror and science fiction are studied through representative selected works from a variety of different authors and styles. Students are expected to present ideas and opinions in class discussions. Frequent short writing assignments concentrate on development of a clear, direct writing style. Prerequisite: Passing grade in Comprehensive American Studies 2 or concurrent registration. Sophomores may elect this course if they have earned a B or better in English 10.

HEROES OF LITERATURE
Course# 344, Grades 9-12, 1/2 Credit, Semester
Heroes of Literature will study the archetypal hero pattern found in classical and contemporary literature. Emphasis will be placed upon the critical analysis of literature and modern films based upon the concept of the hero. Students will be required to produce critical analysis of several novels, written assignments, and projects.

JOURNALISM
Course# 327, Grades 11-12, 1/2 Credit, Semester
This class presents an overview of the field of journalism and mass communication and teaches students to be consumers of media and to understand news-gathering and production. Students in Journalism concentrate on writing, editing, and production of media. Students will focus on the news story and feature story. In addition, media ethics and basic desktop publishing will be taught. Journalism is recommended for college-bound students. Prerequisite: Grade of B or better in last core English class.

PHILOSOPHY
Course# 333, Grade 12, 1/2 Credit, Semester
Have you ever wondered why we’re all here? You know, what is the purpose of this amazingly spectacular universe we all live in? Or, better yet, do you, this or anything actually exist? Could we just be living in a computer simulation? And what is human morality? Going further, what should the morality be of machines that can think? Through the readings, writings and class discussions, you’ll understand how complex these questions are, become a better thinker, and develop the beginnings of your philosophy. Prerequisite: Grade of B or better in Comprehensive American Studies.

POINTS OF VIEW
Course# 336, Grades 10-12, 1/2 Credit, Semester
Points of View attempts to develop a student’s awareness of self and surroundings through an examination of contemporary themes including personal identity, male/female roles, values, religion, and death. Both fiction and non-fiction are studied. Frequent short writing assignments and occasional longer ones concentrate on developing a clear, direct writing style. Prerequisite: Passing grade in last core English course, or concurrent registration in Comprehensive American Studies 2. Sophomores may elect this course if they have earned a B or better in English 10.
PRACTICAL WRITING
Course# 326, Grades 12, 1/2 Credit, Semester
Practical Writing is designed to emphasize the new demands on communication skills in the 21st Century. The course concentrates on writing activities for both career and college use. It is designed to emphasize fundamental writing skills and effective communication in the workplace or in two-year colleges. Activities include but are not limited to reports, essays, and letters. **Prerequisite: Passing grade in last core English course.**

SENIOR ENGLISH FOR COLLEGE AND CAREER
Course# 314 Grade 12 1 Credit, Year
This year-long senior English course is designed to prepare students to write for a variety of purposes and audiences in the next stage of their academic or work life, be that a two or four year college, a career or the military. Emphasis is placed on further developing and refining previously learned skills in writing and the improvement of these skills as students learn to use written language to communicate in a variety of academic and personal writing genres including research and informational writing, opinion, editorial, reflection, memoir and argument writing among others. The majority of course readings are non-fiction from both digital and print sources and serve as models and inspiration for student writing. **Open to all seniors.**

SHAKESPEARE’S COMEDIES
Course# 338, Grades 10-12, 1/2 Credit, Semester
This course examines the elements of a Shakespearean comedic drama. Versification, poetic devices, elements of drama and comedy, and literary themes will be examined in relation to the individual plays and the human relationships portrayed therein. Students will be required to read and study three comedies within the classroom setting and one independently. Daily assignments might include dramatic readings and interpretations, discussion and analysis. Students will also be expected to submit short pieces of writing as well as one longer analytical piece which will require research. When appropriate, the course may also include viewing a modern adaptation of a Shakespearean comedy. Class participation and a willingness to perform are essential. **Prerequisite: Sophomores may elect this course if they have earned a grade of B or better in English 10.**
ADVANCED CLOTHING & FASHION DESIGN
Course# 749, Grades 9-12, 1/2 Credit, Semester
In this class, you will develop and refine advanced skills and competencies in clothing design such as zippers, darts, lining and under stitching. You are required to purchase patterns, fabric, and notions to sew two advanced clothing projects (financial assistance is available). Students will learn about the elements and principles of design and how they affect personal choices of clothing apparel. Prerequisite: Clothing and Fashion Design.

CLOTHING & FASHION DESIGN
Course# 747, Grades 9-12, 1/2 Credit, Semester
In this course you construct three clothing projects: a pair of flannel pajama pants, a baby quilt and a designer duffle bag. You will learn how to sew and safely operate a sewing machine as well as complete a research project and presentation of a clothing designer. Stock materials are available at no cost or you can purchase your own specialized fabric and notions.

GOURMET DESSERTS
Course# 733, Grades 10-12, 1/2 Credit, Semester
Pastry art, including puff pastries, cakes, chocolate, candies, pies, and cake decorating all created with a flair of garnishing techniques. The final exam is a competition called "The Bake Off." Students select a project of interest and apply their new skills and cooking techniques to create their masterpiece. This class is a must for those students who are pursuing a Culinary Arts career. Prerequisite: Introductory Foods

HEALTHY CUISINE
Course# 739, Grades 9-12, 1/2 Credit, Semester
Do you exercise much? Do you want to look and feel healthy? You can boost your hard work with a lifestyle of food fitness to compliment your routine. Do you know that kelp, carrots, spinach, avocados, papaya, and celery included in your diet promotes a healthy heart? Did you know that foods such as grapes, green pepper, strawberries and romaine lettuce are a huge help to maintain clear skin tone and reduce acne? Healthy eating can be a challenge. This class will teach you how to make nutritious foods into delicious foods. You will also enjoy designing your own nutritious recipes during the mystery labs. Any student will find this class beneficial for a healthy lifestyle. Prerequisite: C+ or better in Introductory Foods.

HUMAN DEVELOPMENT & RELATIONSHIPS
Course# 744, Grades 11-12, 1/2 Credit, Semester
The focus of this course is on preparing you to become an adult/future parent or caregiver; also, if interested in any career in childcare, elementary education or job working with babies/children from birth up to 4 years old. Topics of study include: understanding you, relationships and families, communication skills, family challenges, preparing for children, meeting children’s needs and parenting skills. Use of the baby simulator is optional. The curriculum provides reinforcement of concepts through real life application and course reading.

INTERIOR DECORATING
Course# 745, Grades 9-12, 1/2 Credit, Semester
This course is designed for students who want to explore interior decoration and design and architecture. Topics covered include: human needs and home design, elements and principles of design, housing styles, architectural symbols, lighting, window treatments and floor and wall coverings, furniture styles, kitchen designs and traffic patterns. The final project includes a portfolio presentation of all concepts taught throughout the course. This course fulfills a visual arts credit.

INTERNATIONAL FOODS
Course# 737, Grades 9-12, 1/2 Credit, Semester
In this course, you will explore a variety of countries, their culture and diversity while preparing authentic dishes and cuisine. Some of the countries you will explore include China, Italy, Mexico, France, Germany and Spain. You will have the opportunity to research and prepare recipes from a country of your choosing and share it with your classmates. Prerequisite: Introductory Foods

INTRODUCTORY FOODS
Course# 733, Grades 9-12, 1/2 Credit, Semester
In this class, students are introduced to over 65 recipes including: salads, soups, vegetables, fruits, quick breads, yeast breads, cakes, cookies, meats, and egg dishes. You will have the opportunity to taste a variety of delicious foods. Through class instruction and lab experience, you will actively learn about nutrition, budgeting and quality food preparation and planning. This course is a prerequisite for all other foods classes.

LIFE AFTER SALEM HIGH SCHOOL
Course# 742, Grades 10-12, 1/2 Credit, Semester
This course covers the basic consumer skills needed to prepare you for successful independent living after high school. Topics discussed include: apartment seeking, budgeting and personal finance, credit, car buying and insurances (auto, health, life). Valuable, realistic consumer information will be addressed.
Mathematics

The goal of the Salem High School Mathematics Curriculum is to facilitate the development of students’ conceptual understanding of mathematics and their critical thinking and problem solving skills. To that end, mathematics courses have been designed to engage students with the curriculum in a variety of ways including cooperative and inquiry-based learning with technology-based applications, to ultimately provide them with a foundation for success in their post-secondary plans. All mathematics courses have been aligned to state and national standards. Alternative course offerings for Mathematics are in the Special Services section.

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ALGEBRA 1
Course# 110, Grade 9-12, 1 Credit, Year
Algebra 1 begins with connections back to earlier foundational work, efficiently reviewing algebraic concepts that students have already studied while at the same time, moving students forward into new ideas and new content standards. Students will contrast linear and exponential functions as they explore their respective patterns of change, how they are expressed through tables, graphs, and symbols, and how they can be used to model real-world situations. Note to 9th Graders: Enrollment in this course will be determined through the Math Recommendation Process.

ALGEBRA 1 CONCEPTS
Course# 100, Grade 9-12, 1 Credit, Year
Algebra 1 Concepts is the first in a series of three mathematics courses designed to afford students who have experienced difficulty in mathematics, the opportunity to master algebraic concepts over an extended period of time. Fundamentally, the content standards in this class are the same as Algebra 1. The pacing and depth to which students explore the content has been adapted and modified to meet their needs. By shifting focus from a technical to a conceptual understanding, students are afforded additional time to master fundamental ideas and techniques. Note to 9th Graders: Enrollment in this course will be determined through the Math Recommendation Process.

ALGEBRA 1, HONORS
Course# 112, Grade 9-12, 1 Credit, Year
This course is designed for students who have demonstrated exceptional mathematical abilities. Fundamentally, the content standards in this class are the same as Algebra 1. The pacing and depth to which students explore the content has been adapted and modified to meet their needs. Students are expected to work at an increased pace and engage with the content at a deeper level. Opportunities for in-depth engagement with the content will be provided through cross-content applications and investigations into additional topics. Students enrolling in Honors Algebra 1 are expected to demonstrate the work habits and mindsets associated with honors-level work. Note to 9th Graders: Enrollment in this course will be determined through the Math Recommendation Process.

ALGEBRA 2
Course# 114, Grades 9-12, 1 Credit, Year
Algebra 2 further develops important mathematical ideas introduced in Algebra 1 by extending techniques to solve equations and expanding students’ knowledge of functions by studying inverses and exploring new function families including: quadratics, polynomials, exponentials, logarithmics, and trigonometrics. Students will compare and contrast function families as they explore their respective patterns of change, how they are expressed through tables, graphs, and symbols, and how they can be used to model real-world situations. Prerequisite: Grade of C or better in Algebra 1 and Geometry or teacher recommendation.
CALCULUS, AP (SEMESTER 1)
Course# 147, Grades 11-12, 1 Credit (RS), Semester, Everyday
Advanced Placement Calculus is designed to provide a conceptual and theoretical understanding for topics presented in an introductory college course as described in the AP program syllabus for Calculus AB and Calculus BC. It involves the study of functional and parametric relationships, limits, derivatives, integrals, and applications with a focus on these topics. Developing and strengthening problem-solving skills with mathematical models will be emphasized. A multi-representational approach will be utilized for the development of understanding. Much independent study is expected and graphing calculators are required (TI-83+ or TI-84+ are recommended). Students who successfully complete this course are encouraged to take AP Calculus AB or AP Calculus BC.

Pre requisite: Precalculus and teacher recommendation.

CALCULUS, AP (SEMESTER 2)
Course# 149, Grades 11-12, 1 Credit, Semester, Everyday
Calculus AB is designed to concentrate on the topics in the AP Program syllabus for Calculus AB that are not presented in AP Calculus. These topics include additional applications of integrals, the Fundamental Theorem of Calculus, techniques of antidifferentiation, applications of antidifferentiation, and numerical approximations to definite integrals. Further, students will undergo a rigorous preparation for the AP Calculus AB exam. It is expected that all students in this course take the AP Calculus AB Examination. Students who score a 3, 4, or 5 on the AP Calculus AB Examination are eligible for college credit and/or advanced placement. Coursework after the AP Exam will afford students the opportunity to explore topics that will help prepare them for subsequent calculus courses. Topics include, but are not limited to, sequences and series, parametric equations, polar functions, and vectors.

Pre requisite: AP Calculus, a Grade of B or better in Honors Calculus, or teacher recommendation.

CALCULUS, HONORS
Course# 134, Grades 11-12, 1 Credit, Year
Honors Calculus is designed for students who have demonstrated exceptional mathematical abilities. This course is organized to provide an in-depth study of functions, differentiation, limits, continuity, and techniques of integration. Fundamental ideas and techniques will be applied to a variety of problems including curve sketching, determining maximums and minimums, finding the area between curves among others. Upon successful completion of this course, students interested in pursuing calculus may consider taking AP Calculus AB. Pre requisite: Grade of B or better in Honors Precalculus; Grade of A in Precalculus, or teacher recommendation.

FINITE MATH
Course# 126, Grades 11-12, 1 Credit (RS), Year
This course is designed for the student interested in pursuing a business or liberal arts degree. Topics include linear systems, matrices, linear programming, probability and statistics. Applications are drawn from the social science and economics. Pre requisite: Grade of C or better in Algebra 2, passing grade in Precalculus, or teacher recommendation.

GEOMETRY
Course# 120, Grades 10-12, 1 Credit, year
This course begins by developing the tools of Geometry, including technical vocabulary, transformations, and proof. These tools are used throughout the course as students formalize geometric concepts studied in earlier courses and extend those ideas to new concepts. Modeling, problem solving, and proof will be emphasized as students continue their work through units of study on triangles and triangle congruence, quadrilaterals, circles, similarity, and trigonometric ratios. Pre requisite: Grade of C- or better in Algebra 1. Can be taken concurrently with Algebra 2, Honors.

GEOMETRY CONCEPTS
Course# 102, Grades 10-11, 1 Credit, Year
Geometry Concepts is the second in a series of three mathematics courses designed to afford students who have experienced difficulty in mathematics, the opportunity to master geometric concepts over an extended period of time. Fundamentally, the content standards in this class are the same as Geometry. The pacing and depth to which students explore the content has been adapted and modified to meet their needs. By shifting focus from a technical to a conceptual understanding, students are afforded additional time to master fundamental ideas and techniques. Pre requisite: Grade of C- or better in Algebra 1 Concepts, or teacher recommendation.
PROBLEM SOLVING - CORE OF MATHEMATICS
Course# 128, Grade 10-12, 1 Credit, Year
Problem Solving focuses on developing a repertoire of mathematical strategies to solve problems. Students will work collaboratively to write and present their justifications for solutions to a variety of interesting and relevant problems. Abilities will be refined and structures reinforced through a variety of activities, projects, and challenges. The problem solving and collaboration skills learned in this class will help prepare students to be active and effective participants in the post-secondary classroom, as well as make them an asset in the work force. Maturity and developed sense of perseverance will be critical for success in this class due to its unique nature. Prerequisite: Grade of B- or better in Geometry and Algebra 2.

PRECALCULUS
Course# 130, Grades 10-12, 1 Credit, Year
As students pursue an in-depth and technical study of each of the function families that they encountered in Algebra 2, they will continue to develop their ability to manipulate expressions, solve equations and improve their analytical skills. Students will also cultivate their ability to reason quantitatively, practice their problem-solving skills, and further develop their ability to communicate mathematical ideas effectively as they solidify a foundation for future study of Calculus. Technology will play an integral role in instruction to facilitate learning and as such, students are encouraged to acquire a TI-83 or TI-84 graphing calculator. Prerequisite: Grade of B- or better in Algebra 2 and Geometry, or teacher recommendation.

PRECALCULUS, HONORS
Course# 132, Grades 10-12, 1 Credit, Year
Honors Precalculus is designed for students who have demonstrated exceptional mathematical abilities. Fundamentally, the content standards in this class are the same as Precalculus. The pacing and depth to which students explore the content has been adapted and modified to meet their needs. Students are expected to work at an increased pace and engage with the content at a deeper level. Opportunities for in-depth engagement with the content will be provided through cross-content applications and investigations into additional topics. Students enrolling in Honors Precalculus are expected to demonstrate the work habits and mindsets associated with honors-level work. Note to 9th graders: Enrollment in this course will be determined by the Math placement process. Prerequisite: Grade of B+ or better in Honors Algebra 1, grade of A in Algebra 1, or teacher recommendation. Can be taken concurrently with Algebra 2, Honors.
TECHNOLOGY BASED MATHEMATICS
Course# 142, Grade 12, 1 Credit, Year
This course combines areas of mathematics with technologies such as computer spreadsheets and programs. With an emphasis on personal finance, this course involves an activity/project-based curriculum. Topics include, but are not limited to: problem solving, net income, account balance, charge accounts, loans, purchasing a vehicle, purchasing a property and planning a trip. Prerequisite: Successful completion of Algebra 1 Concepts or equivalent.

TOPICS IN APPLIED COLLEGE (TAC) MATH
Course# 144, Grade 12, 1 Credit (RS), Year
TAC Math is designed to expose the student to a wide range of general mathematics and is recognized as a threshold math course at the community college level, counting for degree credit. 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, probability and statistics, and selected subtopics. Prerequisite: Successful completion of Senior Math. Note: Students interested in the opportunity to earn college credit through the Running Start Program must have an Accuplacer score of 63 or better in order to be eligible.
The Performing Arts Program provides students with a comprehensive menu of courses taught by enthusiastic and well-qualified educators. The program focuses on the artistic journey of each student providing them the opportunity to develop self-expression, self-discipline, and creativity through a variety of ensemble classes, beginning and advanced level lab classes, stage classes, and non-performance classes. Study in the Performing Arts Department at Salem High School will enable students to cultivate 21st century skills that translate to other disciplines and other studies both academically and beyond. Alternative course offerings for Performing Arts are located in the Special Services section. The department’s course offerings fulfill the Arts Education graduation requirement.

### THEATRE COURSES

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### MUSIC ENSEMBLES COURSES

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### THEATRE

#### ACTING WORKSHOP

**Course# 641, Grades 9-12, 1/2 Credit, Semester**

In this performance-based class, acting is studied in all its forms. Classwork consists of extensive reading, research, memorization, and performances. In addition, daily vocal, physical, and ensemble training is employed to improve speech, posture, and poise. This class is recommended for performance-oriented students. Prerequisite: Successful completion of Introduction to Theatre Arts or teacher approval. Can be taken up to two times for credit.

#### ADVANCED THEATRE STUDY

**Course# 642, Grades 9-12, 1/2 Credit, Semester**

This class seeks to further deepen and build upon the skills, knowledge, and understanding acquired in other Theatre Arts classes. There is an emphasis on philosophical questions regarding what it means to be a theatre artist, as well as an emphasis on theater history, complex and challenging texts, analysis and research, and experimental/alternative approaches to theatre. Prerequisite: Successful completion of two theatre classes.

#### TECHNICAL THEATRE & DESIGN

**Course# 640, Grades 9-12, 1/2 Credit, Semester**

Technical Theatre and Design is an interdisciplinary course in which students will explore the design concepts of lighting, sound, prop, costumes, and stagecraft as well as elements of drama and play production. Students will study a variety of theatrical performances and produce a final portfolio that demonstrates their knowledge of drama production and design. Students will be expected to perform a variety of physical, technical, artistic, and design-oriented tasks involving everything from minor set construction to backstage safety. Much of the work done in class will center around an actual SHS Theatre Arts production. Prerequisite: Successful Completion of Intro to Theatre or instructor approval.
BAND: CONCERT & MARCHING  
Course# 650, Grades 9-12, 1 Credit, Year  
Band is open to all students, Grades 9-12, who have previously studied a musical instrument either in or out of school. This class requires occasional after-school rehearsal time and participation in various athletic events, parades, competitions, concerts and overnight trips. All Concert Band students are required to participate in the Salem High School Marching Band and all instrumental students participating in the SHS Marching Band and Colorguard must be enrolled in Band: Concert/Marching Band either semester one or two during the school day. Exceptional students will be encouraged to audition for All-State and All-Eastern ensembles and/or participate in festivals. Band fulfills the Arts Education requirement for graduation and can be elected as many times as you wish.

COLOR GUARD & DANCE  
Course# 647, Grades 9-12, 1/2 Credit, Semester  
Color Guard and Dance is a study of the history and development of color guard styles as well as the exploration of dance history, styles and routines. Students will perform at athletic events, competitions, and parades. This class fulfills the Arts Education requirement for graduation.

CONCERT CHORUS  
Course# 676, Grades 9-12, 1 Credit, Year  
Concert Chorus is Salem High School’s non-auditioned choral ensemble. All who have an interest in singing are welcome. In addition to singing a variety of music (classical, jazz, pop, and Broadway, among others), we will learn how to produce a healthy beautiful sound and read/sing music at sight. Chorus performs at several events throughout the year including school concerts. Exceptional students will be encouraged to audition for All-State and All-Eastern ensembles and/or participate in choral festivals. Chorus fulfills the Arts Education requirement for graduation and can be elected as many times as you wish.

HONORS CHORUS  
Course #684 Grades 10-12, 1 Credit, Year  
Honors Chorus will explore various styles of small group choral repertoire and perform at concerts and other events. Size for this ensemble will be limited by audition or instructor approval. Honors Chorus may be elected 4 times for credit. Honors Chorus members are expected to participate in the Concert Chorus. Prerequisite: Instructor permission, see instructor for information.

JAZZ ENSEMBLE  
Course# 690, Grades 9-12, 1 Credit, Year  
Jazz Ensemble explores various styles of jazz for performances at concerts and other events. Jazz Ensemble may be elected four times for credit. Jazz Ensemble members are required to participate in the Salem High School Concert Band, with the exception of piano, bass drums and guitar players. Prior experience is needed for this class. Based on enrollment, preference may be given to upperclassmen.

MUSIC TECHNOLOGY WORKSHOP  
Course# 698, Grades 9-12, 1/2 Credit, Semester  
This class explores the role music plays in various forms of media, including advertising, movies and video games. Students will make use of the technology in our MIDI lab to create original music and curate music for projects using visuals and audio. Prior experience with music technology is not required.

GUITAR, BEGINNING  
Course# 686, Grades 9-12, 1/2 Credit, Semester  
This course is for beginning guitarists interested in learning more about how to play melodies and chords. Topics covered include melodic playing, finger picking, strumming patterns, power chords, and more. Students will have the opportunity to choose their own music to study in addition to the textbook. No prior experience is needed for this class. Students may use school guitars which are available for the class. If the student wants to use his/her own guitar, it must be acoustic.

GUITAR, ADVANCED  
Course #654, Grades 9-12, 1/2 Credit, Semester  
This course continues concepts covered in Beginning Guitar and includes barre chords, tablature, and using a capo, amongst other skills. Students may use their own guitar only if it is acoustic. School guitars are available for your use. Prerequisite: Successful completion of Beginning Guitar or permission from the instructor required.

PIANO/KEYBOARD, BEGINNING  
Course# 685, Grades 9-12, 1/2 Credit, Semester  
This course is designed for students who want to learn to play the piano. In addition to learning basic skills, history, composition and theory, students will choose their own music and learn to play at their own speed. No prior experience is needed for this class.

PIANO/KEYBOARD, ADVANCED  
Course# 689, Grades 9-12, 1/2 Credit, Semester  
This course builds upon the skills and knowledge gained in Beginning Piano. Students will continue to learn at their own pace and will be able to choose their own music to learn. Prerequisite: Successful completion of Beginning Piano or permission of the instructor is required.

STRING ENSEMBLE  
Course# 681, Grades 9-12, 1 Credit, Year  
This class will provide a place for students to learn or continue to learn violin, viola, cello and bass in an ensemble setting. Prior experience with string instruments is not required but students will be expected to rent or own their instruments. A very limited number of school instruments will be available for use.

VOCAL TECHNIQUE, BEGINNING  
Course# 683, Grades 9-12, 1/2 Credit, Quarter  
This class is designed for students who want to learn more about singing. We will cover topics like: vocal health, Classical, Broadway and Pop style, diction, auditioning, musicianship, history and careers in singing. Some class songs will be assigned, others will be chosen by students. Students will perform individually in class.

VOCAL TECHNIQUE, ADVANCED  
Course# 687, Grades 9-12, 1/2 Credit, Semester  
This class continues the topics covered in Beginning Vocal Technique. We will study vocal music from opera, art song and oratorio, as well as music in foreign languages such as German, French and Italian. Individual performances are expected. Students may take Advanced Vocal Technique more than once. Prerequisite: Successful completion of Beginning Vocal Technique or permission from the instructor is required.
COMPOSER'S WORKSHOP  
Course# 697, Grades 9-12, 1/2 Credit, Semester  
This is a course that extends learning about score analysis, transcription, arranging, composition, aural skills. Students will work on three major composition projects, which may be performed as a part of the class. Prerequisite: Grade of B or better in Music Theory 2 or Music Technology Workshop, or with special permission from instructor.

MUSIC THEORY 1  
Course# 694, Grades 9-12, 1/2 Credit, Semester  
Want to learn how to read music? If so, this is the course for you. You will learn to read and write rhythmic figures, as well as treble/bass clef melodies in major keys, along with some basic listening skills. This course does not cover choral structures and is intended for students with little or no music theory experience. Prerequisite: Students who take this course must be able to read music in both treble and bass clefs, and must be able to read simple rhythms in common time signatures. If you are not sure whether you should take Music Theory 1 or Music Theory 2, please see the instructor for guidance.

MUSIC THEORY 2  
Course# 695, Grades 9-12, 1/2 Credit, Semester  
Music Theory 2 is a mid-level course that covers major, natural, harmonic and melodic minor scales, modes, intervals, triads, seventh chords and inversions, as well as aural skills (melodic, rhythmic, and harmonic dictation and sight-reading). The course will cover some basic compositional and analytical techniques, but will primarily focus on the “building blocks” needed to transcribe, arrange, and compose. Prerequisite: Students who take this course must be able to read music in both treble and bass clefs, and must be able to read simple rhythms in common time signatures. If you are not sure whether you should take Music Theory 1 or Music Theory 2, please see the instructor for guidance.

MUSIC THEORY 1, AP  
Course# 699A, Grades 10-12, 1 Credit, Semester, Everyday  
This course is designed to be an equivalent of a college-level beginning music theory course. The emphasis of this course will be on preparing and encouraging students to pass the AP Music Theory exam. The course will follow the first half of the AP curriculum, which will include advanced concepts in music theory, including aural skills, sight-singing, dictation, analysis and composition, with an emphasis on SATB voice leading. Prerequisite: Successful completion of Music Theory 1 or by special permission from instructor.

MUSIC THEORY 2, AP  
Course# 699B, Grades 10-12, 1 Credit, Semester, Everyday  
This course is designed to be an equivalent of a college-level beginning music theory course. The emphasis of this course will be on preparing and encouraging students to pass the AP Music Theory exam. The course will follow the second half of the AP curriculum, which will include advanced concepts in music theory, including aural skills, sight-singing, dictation, analysis and composition, with an emphasis on SATB voice leading. Prerequisite: Successful completion of Music Theory 1 AP, or by special permission from instructor.

UNIFIED MUSIC  
Course #660, Grades 9-12, 1 Credit, Year  
Music is important and a part of everyday life. In Unified Music, students will explore and experience music in many forms. Within the group, each student’s individual learning needs will be addressed including the development of one-to-one peer relationships. Students will experience music in many different ways including singing, listening, learning songs of other cultures, creating and performing rhythms and melodies, and using a variety of instruments. Enrollment is limited. Approval by Director of School Counseling or designee is required. Prerequisites: Students must be recommended by the Student Services, or completion of .5 music credits and submission of application to the course (to be found on Guidance website).
Physical Education and Health

Physical Education and Health are graduation requirements. Students may successfully complete their Health requirement in either grade 9 or 10. In addition, students are required to pass PE/5 Components of Fitness and one more half-credit course in Physical Education prior to graduation. Students in Grade 12 will receive preference if class space is limited. The program includes the variety of courses listed below and is designed to combine rhythmic, strength and physical fitness activities to aid the student in his/her physical development. In addition, the program will seek to provide support for all students to assist them as they grow emotionally and socially. Special emphasis will be placed on personal fitness and the enhancement of individual fitness levels. Basic skills, rules and strategies are the general content of each activity. Activities are approached with the background of the student in mind and proceed as the student progresses within the framework of the program. Activities will be taught so students can continue to participate throughout their lifetime. It is recommended that students only take one PE and one Health course per year. Alternative course offerings for Physical Education are listed in the Special Services section.

POLICIES AND PROCEDURES: (1) No student may be exempt from Physical Education without a doctor's excuse; (2) Students who cannot participate in the physical activities of the program due to medical problems must make alternative arrangements with the Director of Physical Education and their teacher to fulfill the Physical Education requirement; (3) Every student has the opportunity to use a locker for class, however it is his or her responsibility to lock and secure all valuables brought to class. (4) Each student is required to bring appropriate clothing, towels, and footwear to class. The taking of a shower at the end of class is strongly encouraged for the purpose of personal hygiene. (5) Students may take more than the required coursework within the PE and Health department, but may not repeat the same course for credit. (6) Students enrolled in the Air Force JROTC classes may be eligible to receive Physical Education credit after successful completion of AFJROTC course work. Please see your school counselor for more information.

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*THESE COURSES DO NOT FULFILL THE PHYSICAL EDUCATION GRADUATION REQUIREMENT

CPR, FIRST AID, & WELLNESS
Course# 254, Grades 10-12, 1/2 Credit, Semester
CPR, First Aid, and Wellness is a physical education elective with a focus on becoming a health-literate consumer. Areas of emphasis will include CPR, first aid, safety, and violence prevention. Upon successful completion of the course, students will be certifiable in adult CPR, as well as Red Cross First Aid. Prerequisite: Passing Grade in PE/5 Components of Fitness.

HEALTH EDUCATION
Course# 250, Grades 9-10, 1/2 Credit, Semester
This component concentration is in the health area, where the focus will be on assessment, enhancement and personal fitness. Special emphasis will be placed on individual fitness improvement and its relationship to a healthy lifestyle. Students will have the opportunity to develop their own personal fitness plan and put it to work. Active participation is required. This is a graduation requirement.

STRENGTH & FITNESS
Course# 256, Grades 10-12, 1/2 Credit, Semester
Strength & Fitness is a physical education elective that concentrates on individual strength exercises and increased aerobic and anaerobic fitness. It will count towards the physical education requirement for graduation. Prerequisite: Passing grade in PE/5 Components of Fitness.

NET SPORTS
Course# 260, Grades 10-12, 1/2 Credit, Semester
Net Sports is a physical education elective that offers activities geared towards all ability levels so that all can succeed. Activities will include but are not limited to, nitroball, badminton, table tennis, and pickleball. Prerequisite: Passing grade in PE/5 Components of Fitness.
PREVENTION & CARE OF ATHLETIC INJURIES
Course# 257, Grades 11-12, 1 Credit, Semester
Prevention and Care of Athletic Injuries is a physical education elective that will present the fundamentals of athletic training. These fundamentals are to prevent, recognize, treat, and rehabilitate athletic injuries. This will be accomplished by reviewing general body anatomy and physiology and by introducing the fundamentals of athletic training. This includes skeletal and muscular systems, energy systems, five components of physical fitness, injury and healing mechanisms, common athletic injuries, basic first aid and sports medicine including injury assessments and treatment methods, protective equipment, taping, padding, and other factors influencing athletic performance such as illnesses, communicable diseases, recreational and performance enhancing substances, and nutrition. This is a fast-paced course with students bearing responsibility for learning through reading, lecture, projects, participation, and required athletic training room and competition observation. Prerequisite: Grade of C or higher in Health, PE/5 Components of Fitness, and Biology.

TEAM SPORTS
Course# 262, Grades 10-12, 1/2 Credit, Semester
Team Sports is a physical education elective that is offered for the student who would like to engage in team sports. The activities are geared towards all ability levels so that anyone can participate. Team Sport activities will include, but are not limited to, baseball, basketball, field hockey, football, soccer, ultimate frisbee, and whiffle ball. Prerequisite: Passing grade in PE/5 Components of Fitness.

WALKING FOR WELLNESS
Course# 280, Grades 10-12, 1/2 Credit, Semester
This course aims to provide students with an opportunity to participate in a comprehensive walking program during class time. Students are required to keep a log of miles accrued during the quarter and calculate calories burned during activity, recovery and resting heart rates. There is a strict emphasis upon participation during this class, and all students are required to walk with the group during the lesson. Students are not required to change for this class. However, it is expected that all students will have comfortable, appropriate walking shoes to wear each lesson. Students are also required to have appropriate clothing for inclement weather. Prerequisite: Passing grade in PE/5 Components of Fitness.

UNIFIED PHYSICAL EDUCATION
Course #888, Grades 9-12, 1 Credit, Year
The goals of the course are to facilitate each students different learning needs, including the development of one to one peer relationships. This will be done through a variety of physical education experiences. Activities for this course will be a combination of sports, wellness and nutrition to maintain a healthy lifestyle. Stressing lifelong learning with activities such as stretching, walking, and healthy living, this course will teach the importance of maintaining healthy fitness attitudes and habits throughout life. Enrollment is limited. Approval of Director of School Counseling or designee is required after completion of application or recommendation of the Student Services Team.
The goal of the Salem High School Science Curriculum is to develop students' understanding of the natural world through active engagement in scientific practices and the application of crosscutting concepts. To that end, science courses have been designed to provide students with the opportunity to explore fundamental questions about the world and with how scientists have investigated and found answers to those questions. All science courses have been aligned to state and national standards. In the chart below, "L" designates a Life Science course, "P" designates a Physical Science course, and an "E" designates an Earth/Space Science course. Alternative course offerings for Science are listed in the Special Services section.

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ANATOMY & PHYSIOLOGY 1, HONORS

Course#: 218, Grades 11-12, 1 Credit, Year
Honors Anatomy and Physiology 1 is a course for the science-oriented student. The course utilizes an extensive collection of prepared slides. Microscopes will be emphasized to show the interrelationship between cell and tissue structure and the function of the human body. The students will be responsible for the completion of a portfolio of detailed histological drawings. Course topics: language of anatomy, cells, body tissues, the skin, aging, cancer and the body framework. A comprehensive dissection will also be included to allow the students to document the relationship between anatomy and physiology of various tissue samples. Prerequisite: Grade of B or better in Biology.

ANATOMY & PHYSIOLOGY 2, HONORS

Course#: 219, Grades 11-12, 1 Credit, Year
Honors Anatomy and Physiology 2 is a laboratory-centered course. Students will be responsible for describing and documenting various body systems. Extensive dissections will allow students to explore the interrelationship between body structure and function. A detailed journal of their investigations will be required. Course topics: the skeletal system, the muscular system, endocrine glands, circulation, digestion, the nervous system and the urogenital system. Prerequisite: Honors Anatomy and Physiology 1.
BIOL 2, AP (SEMESTER 2)  
Course# 217, Grades 11-12, 1 Credit (RS), Semester, Everyday  
Advanced Placement Biology 2 covers the topics necessary for the Advanced Placement Examination in Biology. Course topics: principles of taxonomy, microbiology, virology, botany, invertebrate and vertebrate zoology, and human biology. After the Advanced Placement Examination, students will pursue independent research projects. **Prerequisite: AP Biology 1 or teacher recommendation.**

BIOMEDICAL SCIENCE 1  
Course# 213, Grades 10-12, 2 Credit, Year, Everyday  
Biomedical Science 1 is a course for students who are interested in learning hands-on laboratory skills related to life sciences, chemistry, biochemistry, and the health sciences. Students studying biomedical science go on to careers in fields such as healthcare, research, medicine, pharmaceuticals, genetics, forensic science, and the biotechnology industry. 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 the medical, biotechnology, and life science industry. If you enjoy the sciences in a hands-on laboratory environment, then this course is for you! Students who complete Biomedical Science 1 satisfy their life science/biology requirement. **Prerequisite: Grade of C or better in Earth & Space Science or Integrated Science.**

BIOMEDICAL SCIENCE 2  
Course# 207, Grades 11-12, 2 Credit (RS), Year, Everyday  
This is the third course in the biomedical science program with a focus on advanced topics and skills related to biomedical science, biochemistry and biotechnology. You will further your skills in areas including recombinant DNA technology, protein production and purification, DNA ‘barcoding’, and plant and animal cell culture techniques. As experienced scientists, 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 Biomedical Science 1.**

CHEMISTRY, INTRODUCTION TO  
Course# 220, Grades 10-12, 1 Credit, Year  
This is a developmental course which utilizes the laboratory approach to introduce and clarify relevant chemical principles. Class discussion is used to reinforce concepts which are learned initially through laboratory investigation. Emphasis is placed on the application of chemistry in daily life. Mathematical concepts are utilized to a limited extent and laboratory tests are used wherever possible to monitor and measure student progress. Course topics: scientific measurement, physical properties of matter, chemical changes, chemical reactions, atomic structure, chemical formulas and equations, acids and bases, consumer chemistry and environmental chemistry. **Prerequisite: Pass Biology or Earth and Space Science.**
CHEMISTRY
Course# 222, Grades 10-12, 1 Credit, Year
This course utilizes first-person experiences in the laboratory to develop an understanding of chemistry. Mathematical concepts are integrated with the laboratory experiments to develop an understanding of chemical principles. Chemistry is recommended for college-bound students. Course topics include: nature of matter, atomic theory, chemical nomenclature, chemical reactions, stoichiometry, gas laws and periodicity. Prerequisite: Grade of C- or better in Algebra 1 and a grade of B- or better in Biology.

CHEMISTRY HONORS
Course# 224, Grades 10-12, 1 Credit, Year
Honors Chemistry 1 is designed for the serious science-oriented student who has the ability to work independently. This is a lab-centered course which integrates teacher directed lab experiences, class discussion, and research to provide an understanding of chemical principles. Experimental data is frequently gathered and analyzed to reinforce concepts throughout the course. The application of information is stressed, rather than the memorization of facts. Course topics include atomic structure, periodicity, chemical reactions, solutions, bonding, and gases. Prerequisite: Grade of B- or better in Honors Biology and Honors Algebra 1; Grade of A- in Biology and Algebra 1.

CHEMISTRY 1, AP (SEMESTER 1)
Course# 226, Grades 11-12, 1 Credit (RS), Semester, Everyday
The Advanced Placement Chemistry 1 course is designed to be the equivalent to the general chemistry course taken during the first college year. Students should attain a depth of understanding of fundamentals and a reasoning competence in dealing with chemical problems. The course concentrates on developing the students’ abilities to problem solve and to express their ideas orally and in writing with clarity and logic. Topics to be covered: stoichiometry, chemical reactions, gases, atomic structure, phase changes, kinetics, and bonding. Students successfully completing this course typically enroll in AP Chemistry 2 and are then prepared to take the Advanced Placement examination. Prerequisite: Honors Chemistry and teacher recommendation.

CHEMISTRY 2, AP (SEMESTER 2)
Course# 227, Grades 11-12, 1 Credit (RS), Semester, Everyday
The Advanced Placement Chemistry 2 course is designed to be the equivalent to the general chemistry course taken during the first college year. Students should attain a depth of understanding of fundamentals and a reasoning competence in dealing with chemical problems. The course concentrates on developing the students’ abilities to problem solve and to express their ideas orally and in writing, with clarity and logic. Course topics: thermodynamics, chemical equilibrium, acids and bases, aqueous equilibrium, electrochemistry and organic chemistry. Students who successfully complete this course will be prepared to take the Advanced Placement examination in Chemistry. Prerequisite: AP Chemistry 1 and teacher recommendation.

EARTH AND SPACE SCIENCE
Course# 203, Grades 9, 1 Credit, Year
The Earth and Space Science curriculum emphasizes application and builds on the natural curiosity of students by connecting them to the beauty of geologic history, the dynamic nature of Earth, the movements of the sea and air, and the newest discoveries about our universe; it gives students an opportunity to relate to their everyday world. This course develops students’ understanding of the systems that comprise Earth’s physical systems. Students will explore topics including the universe, the solar systems, plate tectonics, weather and climate, and earth and human activity.

EARTH AND SPACE SCIENCE, HONORS
Course# 211, Grades 9, 1.25 Credit, Year
Honors Earth and Space Science is an accelerated course designed for students with above average critical thinking skills, who are highly motivated, and who are able to work well independently. The Earth and Space Science curriculum emphasizes application and builds on the natural curiosity of students by connecting them to the beauty of geologic history, the dynamic nature of Earth, the movement of the sea and air, and the newest discoveries about our universe; it gives students an opportunity to relate to their everyday world. This course develops students’ understanding of the systems that comprise Earth’s physical systems. Students will explore topics including the universe, the solar system, plate tectonics, weather and climate, and earth and Human Activity.

FORENSIC SCIENCE
Course# 208, Grades 11-12, 1 Credit, Year
Forensic Science is the application of science to law. This lab-based course will focus on the up-to-date technologies used by criminal investigators to link a perpetrator to a crime scene. Emphasis will be placed on biological and chemical processes including: DNA fingerprinting, serology, entomology, toxicology, fingerprinting, and other physical evidence. Prerequisite: Grade of B or better in Intro to Biology or grade of C or better in Biology. Enrollment in or completion of Chemistry strongly recommended.

GEOSCIENCE
Course# 238, Grades 10-12, 1 Credit, Year
This course incorporates the basics of the Earth Sciences, focusing on geology, environmental science, and planetary science to study the issue of global climate change. Considered to a lesser extent will be topics in meteorology, climatology, and ocean science. The theme of dynamic Earth will serve as the underlying foundation of study and will focus on how each discipline contributes to long-term Earth changes. The goal of the course is for students to leave with a basic knowledge of Earth concepts, enabling them to understand and analyze the real-world scientific concerns of the future. Prerequisite: Passing grade in Earth and Space Science

HUMAN HEALTH & DISEASE
Course# 242, Grades 10-12, 1 Credit, Year
Human Health and Disease is a course designed to familiarize students with a broad array of topics. Topics in this course include basic anatomy of body systems, mechanisms of disease including viruses, bacteria, fungi, protozoa, food borne illness, and nutritional disorders. The risk factors and transmission of diseases with current potential to affect our society, cancer research and treatment, immunology, antibiotic resistance, epidemiology, genetics and genetic diseases will also be addressed. Students will learn how public policy establishes a means of both preventative and reactionary measures to disease in America. Various laboratory skills will be practiced throughout the course. A considerable amount of reading will be required. Prerequisite: Grade of C- or better in Biology.

MARINE SCIENCE
Course# 244, Grades 10-12, 1 Credit, Year
Students will study topics in oceanography including topography, bathymetry, waves, tides, tsunamis, and marine zoology, which will include the anatomy, physiology and ecology of most marine organisms. The course will be centered on laboratory exercises including some dissection (alternative assignments can be arranged), readings, class discussions, and independent studies. Prerequisite: Grade of B- or better in Introduction to Biology or Grade of C- or better in Biology.
METEOROLOGY - WEATHER STUDIES
Course# 240, Grades 9-12, 1 Credit (RS), Year
Meteorology is the study of weather. Students will discover how weather occurs, interpret weather information and learn to make accurate weather predictions. The topics covered will include: thunderstorms, tornadoes, hurricanes, types of clouds and their meaning, air masses, and pressure and frontal systems. Students will also learn how to do daily observations of the clouds and weather and develop weekly forecasts. Prerequisite: Passing grade in Earth and Space Science. Note: Per Community College System of New Hampshire Policy, 9th and 10th grade students taking this course are ineligible to receive Running Start Credit.

PHYSICS
Course# 232, Grades 10-12, 1 Credit, Year
This is a comprehensive course with a significant laboratory component and an emphasis on real-world concepts and applied problem-solving strategies. This course is designed for students with average abilities in mathematics and who are not necessarily pursuing a post-secondary education in a STEM related field, but who wish to attend a technical school or meet an institution's recommendation and/or requirements for a physics class. Prerequisites: C or better in Algebra 1 and Geometry.

PHYSICS, HONORS
Course# 234, Grades 10-12, 1 Credit, Year
This is a comprehensive mathematics-based Physics course with a significant laboratory component and an emphasis on real-world physics concepts and applied problem-solving strategies. This course is designed for students who may be learning towards a post-secondary education in a STEM-related field. Students earning a B or better in this course will be eligible to take AP Physics 2. Prerequisites: B or better in Algebra 1 and Geometry; Recommended concurrent enrollment in Algebra 2 or equivalent.

PHYSICS 1A, AP (SEMESTER 1)
Course# 236A, Grades 11-12, 1 Credit (RS), Semester, Everyday
AP Physics 1A is the first of a two-part course designed to be the equivalent of an algebra-based college physics course. Understanding basic physics principles and being able to apply these principles in the solution of real-world problems are the major goals of this course. Students may enroll in AP Physics 1A with no prior Physics coursework. Students who successfully complete both AP Physics 1A and AP Physics 1B will be prepared to take the AP Exam in Physics 1. This course is highly recommended for students pursuing a post-secondary education in Science or Engineering. Prerequisites: B+ or better in Algebra 1 and Geometry. Completion of or concurrent enrollment in Algebra 2 is strongly recommended.

PHYSICS 1B, AP (SEMESTER 2)
Course# 236B, Grades 11-12, 1 Credit (RS), Semester, Everyday
AP Physics 1B is the second of a two-part course designed to be the equivalent of an algebra-based college physics course. Students who successfully complete both AP Physics 1A and AP Physics 1B will be prepared to take the AP Exam in Physics 1. This course is highly recommended for students pursuing a post-secondary education in Science or Engineering. Prerequisites: AP Physics 1A or Teacher Recommendation.

PHYSICS 2A, AP (SEMESTER 1)
Course# 237A, Grades 11-12, 1 Credit (RS), Semester, Everyday
AP Physics 2A is the first of a two-part course designed to be taken as a second-year course in Physics after students have had either AP Physics 1A and 1B or Honors Physics. Understanding basic physics principles and being able to apply these principles in the solution of real-world problems are the major goals of this course. Students who successfully complete both AP Physics 2A and AP Physics 2B will be prepared to take the AP Exam in Physics 2. This course is highly recommended for students pursuing a post-secondary education in Science or Engineering. Prerequisites: Teacher Recommendation and C+ or better in AP Physics 1A and 1B or B or better in Honors Physics. Completion of or concurrent enrollment in Pre-Calculus is strongly recommended.

PHYSICS 2B, AP (SEMESTER 2)
Course #236B, Grades 11-12, 1 Credit (RS), Semester, Everyday
AP Physics 2B is the second of a two-part course designed to be a second-year course in Physics after students have had either AP Physics 2A and AP Physics 2B will be prepared to take the AP Exam in Physics 2. This course is highly recommended for students pursuing a post-secondary education in Science or Engineering. Prerequisites: AP Physics 2A or Teacher Recommendation.

PLANT & ANIMAL SCIENCE
Course# 246, Grades 10-12, 1 Credit, Year
Plant and Animal Science is designed to introduce students to plants and animals that are important to humans. Students will learn basic botany, as well as requirements for the growing and maintaining of house plants, home gardens and crops. Companion animals and livestock units will highlight the basic biology and necessary care these animals require and their importance in today's society. Students will be expected to work in the greenhouse, outside with cold frames, compost and gardens, and with all classroom animals in their maintenance and care. Prerequisite: 1 Life Science credit and teacher recommendation.

ZOOLOGY
Course# 248, Grades 11-12, 1 Credit, Year
Zoology is a comprehensive survey of invertebrate and vertebrate animals. Students will study basic anatomy and physiology, adaptations, and behaviors of all of the major animal phyla; sponges, worms, cnidarians, mollusks, echinoderms, arthropods, and chordates. Zoology is an activity-based course which incorporates research, writing, lab work, discovery, and other hands-on activities. Prerequisite: 1 Life Science Credit.
Social Studies

In the Social Studies component of the Humanities Program, courses concentrate on the social, economic, and political character of both past history and present day society. Each course attempts to show the importance of past events to the problems of today, and the value of history’s role in our daily lives as citizens. Alternative course offerings for Social Studies are listed in the Special Services section.

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AMERICAN STUDIES 1
Course# 410, Grade 10, 1 Credit, Year
American Studies 1 explores American history from colonialism to 1850. Geography and government are included in the curriculum. The student will study the basic documents and concepts of American government, such as the U.S. Constitution, the Declaration of Independence, and the Federalist Papers. The origins of state and local government will also be studied. This course is a requirement for all sophomores. This course satisfies the state’s civics requirement. Prerequisite: Passing grade in Global Studies or concurrent registration in Global Studies.

AMERICAN STUDIES 1, HONORS
Course# 412, Grade 10, 1 Credit, Year
Honors American Studies 1 is an accelerated course that explores American history from colonialism to 1850. Geography and government are included in the curriculum. The student will study the basic documents and concepts of American government, such as the U.S. Constitution, the Declaration of Independence, and the Federalist Papers. The origins of state and local government will also be studied. This course satisfies the state’s civics requirement. Extensive writing, reading, research, and discussion will be elements of this course. Prerequisite: Grade of B- or better in Honors Global Studies or grade of A- or better in Global Studies.

COLD WAR & BEYOND
Course# 440, Grade 12, 1 Credit (RS), Year
This course will examine the key elements of US foreign policy since the Second World War. International rivalries, political decisions, social conditions and economic interdependencies were shaped due to tensions between the United States and the Soviet Union. Students will be able to utilize this survey to comprehend better the entangling complexities of the United States and the world community. This course will require extensive primary source reading and analytical writing. Prerequisite: Grade of C or better in Comprehensive American Studies 2/Honors Comprehensive American Studies 2.

CULTURAL DIVERSITY
Course# 444, Grades 9-12, 1/2 Credit, Semester
This course explores issues and perspectives related to cultural diversity. Students will examine ethnic and cultural groups in the United States and elsewhere in the world, their history, practices and their impact on national life. Cultural diversity includes, but is not limited to, race, religion, ethnicity, immigrant status, and socioeconomic status. Cultural Diversity utilizes class discussion, reading and research into issues relating to a variety of cultures and subcultures.

EUROPEAN HISTORY 1, AP (SEMESTER 1)
Course# 484, Grades 11-12, 1 Credit, Semester, Everyday
Advanced Placement European History 1 is a college preparatory course for highly motivated students. The course will explore the intellectual and political history of Europe from the Renaissance to 1815. Emphasis will be placed on research and analysis of the major events and ideologies of Europe. Topics include the Renaissance, the Reformation, the Counter-Reformation, Absolutism, the Enlightenment, the English Revolution, the French Revolution, and the Napoleonic Era. Art and music of the time period will also be introduced. There will be extensive writing and analysis as well as a term paper. Students who successfully complete this course are encouraged to take the Advanced Placement Examination of Modern European History. Prerequisite: AP teacher recommendation and one of the following: Grade of C- or better in a previous Honors Social Studies class, or grade of B- or better in a previous regular Social Studies course.
EUROPEAN HISTORY 2, AP (SEMESTER 2)
Course# 485, Grades 11-12, 1 Credit, Semester, Everyday
Advanced Placement European History 2 is a college preparatory course for highly motivated students. This course will explore the intellectual and political history of Europe from the Congress of Vienna, 1815, through the Era Détente. Topics include the Age of Metternich, the Industrial Revolution, the Revolution of 1848, 19th-20th Century isms such as: Imperialism, Nationalism, Racism, Patriotism, Socialism, Fascism, Communism, etc., World War I, World War II, the Cold War, and the Era of Détente. There will be extensive writing and analysis as well as a term paper. Students who successfully complete this course are expected to take the Advanced Placement Examination in Modern European History. Prerequisite: AP Teacher recommendation and a C- or better in AP European History 1.

EXPLORING WORLD CONFLICT
Course# 460, Grades 9-12, 1/2 Credit, Semester
Exploring World Conflict is a course designed for grades 9-12. The purpose of this course is to enable the student to gain a greater understanding about the world in which we live. The course will offer political and historical insight into modern issues. Students in this course will use strategies for decision making and problem solving; apply self-management skills; communicate using a variety of methods; work with others; read, comprehend, and write for a variety of purposes. Emphasis will be placed on several major world conflicts: Darfur/Rwanda and genocide, child labor around the world, the Arab Israeli conflict, AIDS in Africa and the spread of modern disease, climate change and human environmental interactions, modern weaponry and warfare, and worldwide population growth.

GLOBAL STUDIES
Course# 400, Grade 9, 1 Credit, Year
Global Studies explores the development of civilizations from the Renaissance through the Cold War. Topical and chronological approaches will be used when studying characteristics of cultures, such as government systems, religious beliefs, artistic achievements, education, and economic systems. A research paper will be done utilizing MLA documentation techniques.

GLOBAL STUDIES, HONORS
Course# 402, Grade 9, 1 Credit, Year
This is an accelerated course that studies the development of civilizations from the Renaissance through the Cold War. Topical and chronological approaches will be used when studying characteristics of cultures, such as government systems, religious beliefs, artistic achievements, education, and economic systems. Extensive writing, reading, research, and discussion will be elements of this course. A research paper will be done utilizing MLA documentation techniques. Prerequisite: Grade of A- in 8th grade Social Studies.

UNDERSTANDING WORLD WAR AND GENOCIDE
Course #450, Grades 10-12, 1/2 Credit, Semester
This course will examine the diplomatic, political, economic and social causes and ramifications of the World Wars of the 20th and 21st centuries. Students will gain an understanding of what can cause war and genocide, and discuss the tragedy and human suffering as a product of the World Wars. Students will also develop an understanding of their place in common humanity and their role in preventing genocide in the future. Prerequisite: Grade of C- or better in Comprehensive American Studies 2 or American Studies 1.

PSYCHOLOGY
Course# 430, Grades 10-12, 1 Credit, Year
Psychology is a challenging, college-prep survey course covering the schools of psychology and prominent psychologists, methodology, the brain and physical, emotional and moral development, the senses and heredity. There will also be units on learning and the normal personality, as well as on mental health including minor and severe mental illnesses. In addition, there will be units on social psychology and operant and classical conditioning. Prerequisite: Grade of C or better in Comprehensive American Studies 2. Sophomores may elect to enroll in Psychology after completing American Studies 1 with a grade of B or better.

PSYCHOLOGY 1, AP (SEMESTER1)
Course# 432, Grades 11-12, 1 Credit, Semester, Everyday
Advanced Placement Psychology 1 is intended to introduce highly motivated students to the scientific study of behavior and an examination of the mental processes of organisms, both human and other animals, utilizing both theoretical and applied concepts in the field. Students will examine the major subfields within psychology via appropriate textbooks and supplementary readings and through the use of the scientific methods commonly used by psychologists in their experimentation and practice. AP Psychology 1 will cover methods, research, biological bases of behavior, developmental psychology, sensations and perception, states of consciousness, thinking, cognition, learning, and memory. Prerequisite: Teacher recommendation and one of the following: a Grade of C- or better in a previous Honors Social Studies class or a grade of B- or better in a previous regular Social Studies course.

PSYCHOLOGY 2, AP (SEMESTER 2)
Course# 433, Grades 11-12, 1 Credit, Semester, Everyday
Advanced Placement Psychology 2 is intended to introduce highly motivated students to the scientific study of behavior and an examination of mental processes of organisms, both human and other animals, utilizing both theoretical and applied concepts in the field. Students will examine the major subfields within psychology via appropriate textbooks and supplementary readings and through the use of the scientific methods commonly used by psychologists in their experimentation and practice. AP Psychology 2 will cover motivation, emotion, personality, testing and individual differences, abnormal psychology, treatment of psychological disorders, and social psychology. Prerequisite: AP Psychology 1.

SOCIOLOGY
Course# 458, Grades 10-12, 1 Credit, Year
Sociology is the study of society. The course has been designed to investigate the problems society faces and includes material on culture, group formation and leadership, crime and delinquency, social stratification, poverty, and race relations, as well as the institutional structure of society. The research process is stressed with books, journals, videos and other technologies. Prerequisite: Sophomores: Grade of B or better in American Studies 1. Juniors: Grade of C or better in American Studies 1. Seniors: Grade of C or better in Comprehensive American Studies 2.
UNITED STATES HISTORY 1, AP (SEMESTER 1)  
Course# 480, Grades 10-12, 1 Credit, Semester, Everyday  
Advanced Placement American History 1 is designed to prepare highly motivated students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials of American history. Students learn to assess historical material, their relevance to a given interpretive problem, their responsibility, and their importance, and to weigh the evidence and interpretations presented in historical scholarship. Extensive writing is also a part of the course. This course will cover colonial US history through the Reconstruction Period. Students who successfully complete this course are encouraged to take the Advanced Placement Examination in American History.  
Prerequisite: Teacher recommendation and one of the following: Grade of C- or better in a previous Honors Social Studies course or grade of B- or better in a previous regular Social Studies course.

UNITED STATES HISTORY 2, AP (SEMESTER 2)  
Course# 481, Grades 10-12, 1 Credit, Semester, Everyday  
Advanced Placement United States History 2 is designed to prepare highly motivated students with the analytic skill and factual knowledge necessary to deal critically with the problems and materials of American history. Students learn to assess historical material, both primary and secondary sources, their relevance to a given interpretive problem, their responsibility, and their importance, and to weigh the evidence and interpretations presented in historical scholarship. Extensive writing is also a part of the course. This course will cover the time period 1877 through contemporary US history. Preparation for the AP Exam will be a part of this course. Students who successfully complete this course are expected to take the Advanced Placement Exam in American History.  
Prerequisite: AP Teacher recommendation and a C- or better in AP United States History 1.

WORLD HISTORY 1, AP (SEMESTER 1)  
Course# 486, Grade 12, 1 Credit, Semester, Everyday  
The Advanced Placement World History 1 course is designed to challenge academically-advanced students and give them an opportunity to earn college credit by taking the AP exam. The course is structured around the investigation of five course themes and 19 key concepts in six different chronological periods, from approximately 8000 B.C.E. to the present. The skills, course themes, periodization, and key concepts are explained in detail in the curriculum framework. The AP World History course develops students’ capacity and ability to think and reason in a deeper, more systematic way, better preparing them for subsequent college courses.  
Prerequisite: AP teacher recommendation and one of the following: Grade of C- or better in a previous Honors Social Studies class, or, grade of B- or better in a previous regular Social Studies course.

WORLD HISTORY 2, AP (SEMESTER 2)  
Course# 487, Grade 12, 1 Credit, Semester, Everyday  
The Advanced Placement World History 2 course is taken in conjunction with AP World History 1. The course continues the investigation of five course themes and 19 key concepts in six different chronological periods, from approximately 8000 B.C.E. to the present. The skills, course themes, periodization, and key concepts are explained in detail in the curriculum. The AP World History 2 course develops students’ capacity and ability to think and reason in a deeper, more systematic way, better preparing them for subsequent college courses.  
Prerequisite: AP World History 1.
Special Services

Courses in the SHS Special Services Department are designed to adapt to the individual needs of students. The following reflects the current offerings. These may change from year to year as we seek to meet the individual needs of each new student population.

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</table>

FOUNDATION OF HUMANITIES
Course # 948, Grades 9-12, 1 Credit, Year
A course designed for students who require consistent review of Foundational Academics in the area of Humanities. Repetition of Foundational Academic skills in Humanities; Reading, Writing, and Social Studies are touched upon throughout the course. Students also work on social skills which we use to communicate and interact with each other, both verbally and non-verbally, through gestures, body language and personal appearance. Practiced skills are then applied and put into action in the Functional Life Skills/Job Skills course. The goal is to assist all students in achieving independence in the skills necessary in becoming successful individuals within their community.

FOUNDATION OF LEARNING
Course# 986, Grades 9-12, 1/2 Credit, Semester
This Pass/Fail elective course focuses on remediating areas of need within the school day. Case managers teach and reinforce study and learning strategies that will help students be successful and independent learners. Students will develop skills in time-management, organization, note-taking, memory, test-taking techniques, and self-advocacy. Students also receive support in the completion of homework and long-term assignments. Prerequisite: The recommendation of the Special Services Team.

FOUNDATION OF LEARNING MATH/SCIENCE
Course# 952, Grades 9-12, 1 Credit, Year
A course designed for students who require consistent review of Foundational Academics in the areas of Math and Science. Repetition of Foundational Academic skills in math and science are touched upon throughout the course. Students also work on social skills which we use to communicate and interact with each other, both verbally and non-verbally, through gestures, body language and personal appearance. Practiced skills are then applied and put into action in the Functional Life Skills/Job Skills course. The goal is to assist all students in achieving independence in the skills necessary in becoming successful individuals within their community.

FUNCTIONAL LIFE/JOB SKILLS
Course# 941, Grades 9-12, 1 Credit, Year
This course is designed for students who require consistent review of functional academic, life, and job related skills in order to be successful in the high school setting and within their communities. This class is taken in conjunction with the FOUNDATIONS OF LEARNING MATH/SCIENCE course (please see program description) and focuses on the application of functional academic, life, and job-related skills. The program is designed to help students gain independence in functional skills by implementing them into real life situations and opportunities such as performing life skills tasks and job related skills within the school setting. Prerequisite: The recommendation of the Special Services Team.

TOPICS IN AMERICAN HISTORY 1
Course# 935, Grade 10, 1 Credit, Year
Topics in American History addresses important people, events and documents from the American Colonial Era to 1850. Geography and American Government is included in the curriculum. Additionally, the course covers topics in New Hampshire history and government. Students are supported in working to improve their skills in reading, writing, listening and speaking about history and government. Students will be provided different learning modalities to help all learners access the Social Studies curriculum. Students eligible for this course have the support of the Special Services Team. Prerequisite: The Salem High School Special Services Team.

TOPICS IN AMERICAN HISTORY 2
Course# 936, Grade 11, 1 Credit, Year
Topics in American History addresses important people, events and documents in American History from 1850 up to and including the present day. Students are supported in working to improve their skills in reading, writing, listening and speaking about history and government. Student will be provided different learning modalities to help all learners access the Social Studies Curriculum. Students eligible for this course have the support of the Salem High School Special Services Team. Prerequisite: Completion of Topics in American Studies 1 or American Studies 1 combined with the recommendation of the Special Services Team.
TOPICS IN ENGLISH 9/10
Course# 925, Grades 9-10, 1 Credit, Year
English 9/10 concentrates on supported reading comprehension and writing instruction. Because reading and writing is an integrated learning process, this course affords students opportunities to improve their knowledge of the English language through targeted learning approach that meets their individual reading and writing abilities. As part of the curriculum, the students will complete class readings including short stories, novels, and poems. Writing assignments will include journal writing, steps in the writing process, peer editing and sharing. Language skills (grammar, spelling, vocabulary, etc) and activities will be planned that relate to class readings. In addition, the students will use a computer reading program to build reading and comprehension skills. Students eligible for this course have the support of the Special Services Team.

TOPICS IN ENGLISH 11
Course# 921, Grade 11, 1 Credit, Year
English 11 concentrates on supported reading and understanding of American Literature. Students in this class will read short stories, novels, plays and poetry from the American tradition. The course will support students in continuing to develop their writing in various genres, in addition to an emphasis on vocabulary and proper English language usage. Students eligible for this course have the support of the Salem High School Special Services Team. Prerequisite: The recommendation of the Special Services Team.

TOPICS IN ENGLISH 12
Course# 929, Grade 12, 1 Credit, Year
English 12 concentrates on supported reading and understanding of American and World Literature. Students in this class will read short stories, novels, plays and poetry from the American and World tradition. The course will support students in continuing to develop their writing in various genres, in addition to an emphasis on vocabulary and proper English language usage. Students eligible for this course have the support of the Salem High School Special Services Team. Prerequisite: The recommendation of the Special Services Team.

TOPICS IN MATHEMATICS
Course# 926, Grades 10-12, 1 Credit, Year
Topics in Math prepares students for the study of Algebra through the conceptual development of mathematical content and skills necessary for mathematical reasoning, problem-solving strategies and practical understanding. The course will integrate concepts from numbers and operations, patterns, fractions, geometry and measurement, data and graphing. This course is designed to address the needs of students through a student-centered and activity-based instruction that integrates technology. The curriculum reviews and reinforces topics covered with an emphasis on conceptual understanding through concrete examples designed to engage visual, auditory, and hands-on learners. This course supports student understanding of the practical applications of mathematics. Students will continue the development of their skills in communicating their work processes and solutions orally and in writing. Prerequisite: The recommendation of the Special Services Team.

UNIFIED MUSIC
Course #660, Grades 9-12, 1 Credit, Year
Music is important and a part of everyday life. In Unified Music, students will explore and experience music in many forms. Within the group, each student’s individual learning needs will be addressed including the development of one-to-one peer relationships. Students will experience music in many different ways including singing, listening, learning songs of other cultures, creating and performing rhythms and melodies, and using a variety of instruments. Enrollment is limited. Approval by Director of School Counseling or designee is required. Prerequisites: Students must be recommended by the Student Services, or completion of .5 music credits and submission of application to the course (to be found on Guidance website).

UNIFIED PHYSICAL EDUCATION
Course #888, Grades 9-12, 1 Credit, Year
The goals of the course are to facilitate each students different learning needs, including the development of one to one peer relationships. This will be done through a variety of physical education experiences. Activities for this course will be a combination of sports, wellness and nutrition to maintain a healthy lifestyle. Stressing lifelong learning with activities such as stretching, walking, and healthy living, this course will teach the importance of maintaining healthy fitness attitudes and habits throughout life. Enrollment is limited. Approval of Director of School Counseling or designee is required after completion of application or recommendation of the Student Services Team.
Technology Education

Technology Education consists of instructional laboratory experiences that utilize technology to solve problems.

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COMPUTER AIDED DRAFTING & DESIGN (CAD)
Course# 779, Grades 9-12, 1/2 Credit, Semester

Students in this course will learn the basics of computer-aided drafting software such as AutoCAD and Autodesk Inventor. Students will apply this knowledge in the creation of a variety of working drawings and 3D models. You will have the opportunity to experience 3D printing, projections, and basic elements of mechanical design.

ELECTRICITY TECHNOLOGY
Course# 775, Grades 9-12, 1/2 Credit, Semester

In this course, you develop an understanding of electricity theory through a series of class and laboratory activities. Specific topics covered include: circuit analysis, testing, measuring, calculating using various electrical formulas, circuit assembly and wiring techniques. Class activities include using electrical bread boards with various electrical components and computer simulators for testing various electrical circuits. You will be required to complete a small electrical project of your choice as a final project. Prerequisite: Grade of C or better in Algebra 1B Concepts or concurrent enrollment in Algebra 1.

INTRODUCTION TO AUTOMOTIVE TECHNOLOGY
Course# 773, Grades 9-12, 1/2 Credit, Semester

In Introduction to Automotive Technology you will learn about the automotive industry and the careers it has to offer. This includes services you will perform in a real shop environment using state of the art equipment. You will also learn four-stroke engine theory, including disassembly and reassembly of a small engine. This course will provide you with an understanding of the automobile and the ability to decide if you want to enroll in the year-long Automotive Technology program.

RENEWABLE & ALTERNATIVE ENERGY TECHNOLOGY
Course# 768 , Grades 9-12 , 1/2 Credit, Semester

This very cool, project-based course will introduce you to a variety of alternative and renewable energy types and topics. Class activities will include: using solar photovoltaic cells, wind turbine generators, and hydrogen fuel cells, connected with various electrical components. The application of math concepts is part of this course. Prerequisite: Grade of C or better in Algebra 1B Concepts or concurrent enrollment in Algebra 1.

ROBOTICS & SYSTEM CONTROL
Course# 767, Grades 9-12, 1/2 Credit, Semester

Robotics and System Control is a course that focuses on the development of robotic systems that can perform tasks independently of user control. The course will cover basics of the design process, mechanical design, electronics, and programming from an engineering standpoint. The final project consists of students developing their own robotic system using the VEX platform that can navigate a course and accomplish a task independent from user control. Students will also develop stronger teamwork and critical thinking skills throughout the course.

WOODWORKING TECHNOLOGY 1
Course# 771, Grades 9-12, 1/2 Credit, Semester

You will develop an understanding of wood as a material by successfully planning and constructing projects from a given budget using both hand tools and power woodworking equipment. Woodworking Technology includes the following areas: wood materials, basic wood joinery, hand tools and machines, wood project construction, wood turning, adhesives and gluing, and wood finishing. Safety is an integral part of this course with a lot of time focused on student safety and training. You are required to pass general safety and individual machine tests with 100 percent accuracy, prior to being able to use any equipment.

WOODWORKING TECHNOLOGY 2
Course# 781, Grades 10-12, 1 Credit, Year

This course provides you the opportunity to develop advanced woodworking skills by constructing furniture, cabinets and wood turning projects. Emphasis is placed on drawer/door construction, advanced turning techniques and individual skill development. Again, as stressed in Woodworking Technology 1, safety to you and others is an integral part of this course. General and machine safety will be reviewed and passed with 100% accuracy prior to use of any equipment. Material fee required. Prerequisite: Grade of C or better in Woodworking Technology 1.

WOODWORKING TECHNOLOGY 3
Course# 791, Grades 11-12, 1 Credit, Year

This course builds on the skills of level 2 with greater emphasis on types of cabinet construction and individual skill development. Again, as with the other courses, general and machine safety will be reviewed prior to any equipment use. Material fee required. Prerequisite: Grade of C or better in Woodworking Technology 2 or recommendation of the instructor.
The Art Program provides students with well-equipped studies and well-structured individual programs taught by qualified teachers. The program helps to develop an appreciation of the design possibilities of various materials in order to prepare the student for future involvement either as a professional artist, post-secondary students, craftsperson, hobbyist or as a discriminating consumer of art objects. The department’s course offerings fulfill the Arts Education graduation requirement.

**ART COURSES**

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**3D DESIGN**

Course# 620, Grades 9-12, 1/2 Credit, Semester

3D Design is an exploration of form and space through three-dimensional design using materials such as wire, plaster, fire clay, wood, copper, soapstone, and soft fabric. **Prerequisite: Grade of C or better in Fine Arts 1.**

**CERAMICS**

Course# 634, Grades 11-12, 1/2 Credit, Semester

This semester course is an introduction to the elements and principles of art as they apply to ceramics. Students will have the opportunity to explore a variety of techniques including pinch, slab, coil, and wheel-thrown pottery. They will learn about all aspects of ceramic work including clay, kilns and glazes. Both sculptural and functional work will be explored. No molds will be used. Students will be encouraged to develop creativity, self-expression, and good craftsmanship.

**COMMERCIAL ART**

Course# 604, Grades 10-12, 1/2 Credit, Semester

In this semester course, students will have the opportunity to explore the concepts, media and techniques used in Commercial Art fields with a focus on graphic design and advertising. Students will investigate the role of the artist in the business world. Emphasis will be on developing imagination and creative problem solving, using Studio Photography and the Adobe Creative Suite. **Prerequisite: Grade of C or better in Design 2, or Photo 2.**

**CRAFTS**

Course# 630, Grades 10-12, 1/2 Credit, Semester

This semester course is an introduction to the elements and principles of art as they apply to crafts. Students will have an opportunity to explore weaving techniques such as loom and off-loom weaving, bookbinding, and surface design techniques such as silk painting and needle work. All work is original, no kits are used. Students will be encouraged to develop creativity, self-expression and good craftsmanship. Crafts is intended to be a beginning course in Art suitable for all students. For those planning to continue in Art, Crafts is intended to prepare students for Jewelry Design. **Prerequisite: A Grade of C or better in Fine Arts 1 or Design 1 to take Crafts.**

**DESIGN 1**

Course# 600, Grades 9-12, 1/2 Credit, Semester

This semester course is an introduction to the elements and principles of design as they relate to two dimensional design. Students will explore a variety of media and techniques used by artists in careers such as graphic design, architectural and interior design, industrial and product design, fashion and surface design, and photography. Basic drawing skills are recommended. Design 1 is intended as a beginning course in art suitable for all students. For those planning to continue in art, Design 1 is intended to prepare the student for enrollment in Design 2, Jewelry Design, or Commercial Art.

**DESIGN 2**

Course# 601, Grades 9-12, 1/2 Credit, Semester

This semester course is intended as a continuation of Design 1 with special emphasis on the areas of graphic design, product design and commercial photography. Students will have the opportunity to increase their understanding of the elements and principles of design, develop their ability to use a variety of media and techniques, and develop personal expression. **Prerequisite: Grade of C or better in Design 1.**

**DRAWING & COMPOSITION 1**

Course# 614, Grades 9-12, 1/2 Credit, Semester

This observational drawing class will offer students the opportunity to develop their understanding of the elements of art and aesthetics. Students will be encouraged to express themselves through the use of a variety of media and techniques. Emphasis will be on black and white drawings. A sketchbook is required. **Prerequisite: Grade of C or better in Fine Arts 1.**

**DRAWING & COMPOSITION 2**

Course# 615, Grades 10-12, 1/2 Credit, Semester

This semester course is intended as a continuation of Drawing and Composition 1 with further exploration of drawing techniques, the principles of design, and the history of art. Emphasis will be on drawing in color with a variety of media and techniques. Students will be encouraged to develop creativity and self expression. A sketchbook is required. **Prerequisite: Grade of C or better in Drawing and Composition 1.**
FINE ARTS 1
Course# 610, Grades 9-12, 1/2 Credit, Semester
This introductory course is designed for the student who feels he or she cannot draw but would like to learn how. Through a series of exercises, the concepts of line, space, shape, form, value, texture and color will be explored. Emphasis will be on developing skills in disciplines such as drawing, painting, printmaking, and sculpture. Fine Arts 1 is intended as a beginning course in art suitable for all students. For those planning to continue in art, Fine Arts 1 is intended to prepare the student for enrollment in Fine Arts 2, Drawing & Composition, Jewelry Design, Painting, and Sculpture.

FINE ARTS 2
Course# 611, Grades 9-12, 1/2 Credit, Semester
This semester course is intended as a continuation of Fine Arts 1 with a further exploration in areas such as drawing, painting, printmaking and sculpture. Students will have the opportunity to develop a greater understanding of the elements and principles of design, develop their ability to use a variety of media and techniques, and develop creativity and personal expression. Prerequisite: Grade of C or better in Fine Arts 1.

JEWELRY DESIGN
Course# 632, Grades 10-12, 1/2 Credit, Semester
In this semester course, students will explore the elements and principles of art as they apply to the design and fabrication of metal and non-metal jewelry. Students will learn basic metallurgy techniques of annealing and soldering as well as fabrication techniques such as cutting, forming, firing, forging, planishing and finishing objects in such metals as copper, brass and silver. Prerequisite: Grade of C or better in Crafts, Fine Arts 1, Pottery, or Design 1.

PAINTING
Course# 618, Grades 10-12, 1/2 Credit, Semester
Students will be introduced into value and color theory through a series of exercises as it applies to painting. Observational painting as well as the technical aspects of painting will be explored. Students will be encouraged to develop a personal style of painting and creative thinking as it applies to composition. Prerequisite: Grade of C or better in Fine Arts 1.

PHOTOGRAPHY 1
Course# 636, Grades 10-12, 1/2 Credit, Semester
Photography 1 is an introduction to the art and history of photography. Students will be introduced to the technical and aesthetic basics of the photographic medium. Using digital SLR cameras, students will explore composition, technique, and fine tuning an image using Adobe Lightroom and Adobe Photoshop. Fine Art, Photojournalism, Portraiture and Landscape Photography will be introduced along with the history of the medium and its great early practitioners.

PHOTOGRAPHY 2
Course# 637, Grades 10-12, 1/2 Credit, Semester
Photography 2 is the second class in the sequence of photography courses. In this class, students will build on the skills and knowledge they gained in Photography 1. Students will be introduced to the detailed workings of a digital SLR and advanced concepts of exposure. Studio lighting will be introduced as well as advanced digital darkroom techniques using Adobe Lightroom and Adobe Photoshop. Prerequisite: Grade of C or better in Photography 1.
World Languages

The World Languages Department offers courses in French, German, Latin and Spanish. In order to develop the student's knowledge of language structure, four areas of learning are emphasized: listening, speaking, reading and writing. In addition, courses are intended to involve students in the excitement of learning about foreign lands and demonstrating the similarities and differences in foreign cultures. World Language courses are open to all students inquisitive about the world of people and language. All students should consider a minimum of two to three years of the same language. Students who plan to apply to 4-year colleges are expected to study 3-4 years of a language.

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FRENCH 1
Course# 500, Grades 9-12, 1 Credit, Year
This course provides an introduction to the French language. Students will acquire the fundamentals of the language through reading, listening, speaking, and writing. They will learn and apply basic French grammar and thematic vocabulary. The second focus of French 1 is to familiarize students with francophone culture so that they may gain an appreciation of the French-speaking world. Prerequisite: Grade of B or better in 8th Grade English or C or better in most recent English class.

FRENCH 2
Course# 502, Grades 9-12, 1 Credit, Year
The goal of French 2 is to expand upon the skills the student has developed in French 1 in order to increase proficiency. In this class, students will learn and apply challenging grammatical structures such as the past tense and pronouns. They will acquire thematic vocabulary in order to communicate on a variety of topics. Grammar and vocabulary will be reinforced through reading, writing, listening, and speaking. Students will gain an increased understanding of French culture. Prerequisite: Grade of C or better in French 1.

FRENCH 3
Course# 504, Grades 10-12, 1 Credit, Year
In French 3, students expand upon the grammar and vocabulary acquired in French 2. They will learn and apply many new complex grammatical structures such as the subjunctive and the past conditional. Students will also learn new thematic vocabulary that would be useful in a French-speaking country or with French speakers. An important goal of this advanced class is to increase proficiency and fluency in the areas of reading, writing, listening, and speaking. The class is conducted in French and students are expected to speak in the target language. Prerequisite: Grade of C or better in French 2.

FRENCH 4, HONORS
Course# 506, Grades 10-12, 1 Credit, Year
Honors French 4 is designed for those students with a solid background in the French language and the desire to immerse themselves in a French-only environment. The course is completely conducted in French with the goal that students become as fluent in the language as possible. It is mandatory to speak only French in the class. The use of materials such as French literature, current newspapers, and French TV programs and videos allows students to learn French in authentic cultural contexts. This course requires students to apply skills and understandings in extensive speaking and written work. Students will strengthen their command of French grammar and vocabulary as they refine their listening, speaking, reading and writing. Prerequisite: Grade of B or better in French 3.

FRENCH 5, HONORS
Course# 508, Grades 11-12, 1 Credit, Year
This course is designed for those students who want to continue the study of the French language and literature. Emphasis will be placed on literary analysis, both written and spoken, on classical and contemporary French works. Written work will continue to stress interpretation, but will also explore other authentic French formats. Working toward greater oral fluency will continue. Students will refine their knowledge of French grammar and structure through periodic lessons with the aim of perfecting their writing and speaking of the language. This class will be conducted entirely in French. This course may assist those who are considering taking the French Advanced Placement Exam. Prerequisite: Teacher recommendation.
GERMAN 1
Course# 510, Grades 9-12, 1 Credit, Year
This course is an introduction to basic vocabulary and grammar through dialogues. With emphasis on listening and speaking, students take an active part in verbal practice. During the course, students will also learn about the culture of German-speaking countries. Prerequisite: Grade of B or better in 8th Grade English or C or better in most recent English class.

GERMAN 2
Course# 512, Grades 9-12, 1 Credit, Year
This course begins with a rigorous review of German 1. In German 2, students will apply new grammatical concepts such as the simple past tenses, commands, and the dative case. New vocabulary will be thematically introduced. The new concepts and vocabulary will be reinforced through reading, writing, listening, speaking and cultural activities. Prerequisite: Grade of C or better in German 1.

GERMAN 3
Course# 514, Grades 10-12, 1 Credit, Year
German 3 is an upper level course in which students will begin with a review of and an expansion on the grammar and vocabulary that was taught in German 2. Students are expected to speak German in the course. In this course, students will be expected to apply their learning of advanced new grammatical concepts and vocabulary, as well as to incorporate what they have learned in German 1 and German 2. Students will also be required to read and write for a variety of purposes and to understand what they hear in the form of listening comprehension practice, viewing German-language videos, listening to music, and more. Prerequisite: Grade of C or better in German 2.

GERMAN, HONORS
Course# 516, Grades 10-12, 1 Credit, Year
Honors German 4 is designed for those students with a solid background in the German language and the desire to immerse themselves in a German-only environment. The course is completely conducted in German with the goal that students become as fluent in the language as possible. It is mandatory to speak only German in the class. The use of materials such as German literature, current publications, and German TV programs and videos allows students to learn German in authentic cultural contexts. This course requires students to apply skills and understandings in extensive speaking and written work. Students will strengthen their command of German grammar and vocabulary as they refine their listening, speaking, reading, and writing. Prerequisite: Grade of B or better in German 3.

LATIN 1
Course# 520, Grades 9-12, 1 Credit, Year
In this first year course, basic concepts of grammar and syntax are presented. Throughout the subject development, applications to English are continually incorporated so that students’ vocabulary and understanding of the structure of the English language are enhanced and broadened. Students translate elementary Latin passages selected to expand their knowledge of Roman history and mythology. Instructional modalities include drilling, class participation, cooperative learning, and presentations, all augmented with daily homework. This course is of particular interest to students seeking to prepare for the verbal section of the SAT I. Prerequisite: Grade of B or better in 8th grade English or grade of C or better in most recent English class.

LATIN 2
Course# 522, Grades 9-12, 1 Credit, Year
In this second year course, advanced concepts of grammar and syntax are presented. Throughout the subject development, applications to English are continually incorporated so that students’ vocabulary and understanding of the structure of the English language are enhanced and broadened. Students translate selections from Caesar’s Gallic Wars, as well as other cultural documents relating to Roman history and mythology. Instructional modalities include drilling, class participation, cooperative learning, and presentations, all augmented with daily homework. This course is of particular interest to students seeking to prepare for the verbal section of the SAT I. Prerequisite: Grade of C or better in Latin 1.

SPANISH 1
Course# 530, Grades 9-12, 1 Credit, Year
This year-long class provides an introduction to the Spanish language and culture. This class is designed for students who have had limited or no world language experience. The communication skills of listening, speaking, writing, and reading will be developed. The second half of Spanish 1 will place a greater emphasis on classroom performance and a deepening understanding of grammatical structure. The curriculum will prepare students to move on to Spanish 2. Prerequisite: Grade of B or better in 8th Grade English or C or better in most recent English class.

SPANISH 2
Course# 532, Grades 9-12, 1 Credit, Year
The goal of Spanish 2 is to expand upon the skills the student has developed in Spanish 1 in order to increase proficiency. In this class students will learn and apply challenging grammatical structures such as the past tense, informal commands, and pronouns. They will acquire thematic vocabulary in order to communicate on a variety of topics. Grammar and vocabulary will be reinforced through reading, writing, listening, and speaking. Students will gain an increased understanding of Hispanic culture. Prerequisite: Grade of C or better in Spanish 1.

SPANISH 3
Course# 534, Grades 10-12, 1 Credit, Year
Spanish 3 is an upper level course in which students review and expand upon the grammar and vocabulary taught in Spanish 2. Student are graded on their ability to converse in Spanish, apply advanced grammatical concepts and vocabulary, as well as incorporate content learned in Spanish 1 and 2. Students are required to read and write for a variety of purposes and to understand what they hear from listening comprehension practice, viewing Spanish-language videos, listening to music, and other related activities. The culture of Spain and Puerto Rico will be explored. Prerequisite: Grade of C or better in Spanish 2.
SPANISH 4, HONORS  
Course# 536, Grades 10-12, 1 Credit (RS), Year  
With the goal of challenging students with a near-immersion experience, this rigorous honors course is conducted completely in Spanish and students are expected to speak Spanish at all times. The four skills of listening, reading, writing, and speaking will continue to be a focus in this course as it is in the other Spanish courses. The use of thematic vocabulary and grammatical structures will facilitate improvement in the four skills. However, at this level there will be more authentic sources, as in the watching of TV shows in Spanish and in the reading of short stories and newspaper articles from Spanish-speaking countries. These authentic sources will help incorporate culture as well as the skills of listening and reading. Students will be expected to speak and write in Spanish extensively. Focus will be on growth in the language, as well as enjoyment of the Spanish language-learning experience.  
Prerequisite: Grade of B or better in Spanish 3.

SPANISH 1, AP (SEMESTER 1)  
Course# 540, Grades 11-12, 1 Credit, Semester, Everyday  
This course will focus on improving each student’s proficiency in Spanish. It is mandatory to speak only Spanish in class. Students enrolled in this class will work on their essential speaking, listening, reading and writing skills necessary for the Advanced Placement Examination given each May. Students will take practice tests. Grammatical structures will be reviewed and thematic vocabulary will be introduced. Students will explore many different aspects of Hispanic culture through the reading of short stories, viewing of websites and film. The class is taught entirely in Spanish.  
Prerequisite: Grade of B or better in Spanish 4 or teacher recommendation.

SPANISH 2, AP (SEMESTER 2)  
Course# 541, Grades 11-12, 1 Credit, Semester, Everyday  
This course will be a continuation of AP Spanish Language 1. The expansion of proficiency will continue. Students will continue to develop and polish their language skills. More practice tests for the AP Language Examination will be given. Students continue to be immersed in a Spanish-only classroom.  
Prerequisite: Grade of B or better in AP Spanish 1 or teacher recommendation.
ADULT HIGH SCHOOL DIPLOMA PROGRAM

The Adult High School Diploma (AHSD) Program offers high school credit courses which meet local and state requirements. Students may earn a diploma from the Salem School District. Dual enrollment is available for students who meet eligibility requirements. AHSD requirements are as follows: English, 4 credits; Social Studies, 3 credits (US History, Civics, Economics); Mathematics, 2 credits; Science, 2 credits; Computer Literacy ½ credit. Additional elective credits are needed for graduation.

NEW HAMPSHIRE HIGH SCHOOL EQUIVALENCY CERTIFICATE PROGRAM

SHS School for Continuing Education offers preparation for the High School Equivalency Test (HiSET). By passing the HiSET, one earns a NH High School Equivalency Certificate recognized by colleges and employers across the country. Students wanting to enter the HiSET program must meet with the Dean of Continuing Education, their school counselor and their parents to develop an alternative education plan.

REQUIREMENTS TO EARN A NH HIGH SCHOOL EQUIVALENCY CERTIFICATE:

1. Minimum test scores – a standard score of eight (8) on each of the five sub tests and a combined standard score of Forty-Five (45) on the complete battery.
2. Residency – All testers must reside in or have a legal residence in New Hampshire at the time of testing.
3. A valid government-issued ID is needed at the time of testing.
4. Age - NH requires that HiSET test-takers be eighteen (18) or obtain a waiver.
   a. Requirements to obtain a waiver of minimum age.
      i. Applicants must be sixteen (16) or seventeen (17) years of age.
      ii. Earn well-prepared or adequately-prepared on the Official HiSET Practice Tests for each subtest.
      iii. Receive permission from parent/guardian and school official.
      iv. Complete and submit HiSET Age Waiver Form.