



South Windsor High School

2017 - 2018

Program of Studies

Grades 9 - 12

EQUAL EDUCATION OPPORTUNITY

The right of a student to participate fully in classroom instruction and extracurricular activities shall not be abridged or impaired because of age, sex, race, religion, physical or mental disability, national origin, ancestry, pregnancy, parenthood, marriage, sexual orientation, or for any reason not related to his/her individual capabilities.

Any student, parent/guardian, employee or employment applicant who feels that he/she has been discriminated against on the basis of race, color, age, national origin, sex or handicap may discuss and/or file a grievance with the Equity/Title IX Coordinator of the South Windsor Public Schools. Reporting should take place within 40 calendar days of the alleged discrimination.

Equity/Title IX Coordinator:
Colin McNamara, Assistant Superintendent
South Windsor Public Schools
1737 Main Street
South Windsor, Connecticut 06074
(860) 291-1215

Equity/Title IX Grievance Procedure

The purpose of this procedure is to secure, at the lowest possible administrative level, equitable solutions to problems which may arise concerning claims of discrimination. Evidence of reprisal against a complainant or witness shall be viewed as an infraction of this policy.

Any individual who wishes to inquire or to register a complaint concerning alleged discrimination in the South Windsor Public Schools shall have an opportunity to bring such concerns to the attention of the Equity/Title IX Coordinator or Superintendent, who has the authority to resolve such complaints. The following grievance procedure shall be utilized by any student, parent, or employee in making a complaint or inquiry. Officials shall be governed by this procedure. Correspondence from school officials regarding the disposition of the complaint shall be sent by certified mail.

Level II: The complainant shall, within forty calendar days whenever possible of the alleged incident, on forms provided, put the complaint in writing and file it with the Equity/Title IX Coordinator. Within five working days a conference must be held. Within five work days following the conference, the complaint must be resolved to the satisfaction of both parties or referred to the Superintendent of Schools. Unless the complainant has made a written request for a hearing at the next level no later than ten work days after receiving a written response, the complaint will be considered resolved.

Level III: Within ten work days after receipt of such complaint, the Superintendent must hold a hearing; and within five work days of the hearing, resolve the complaint or negotiate a long-term solution. Unless the complainant has made a written request for a hearing at the next level no later than ten work days after receiving a written response, the complaint will be considered resolved.

Level IV: The Board of Education, Superintendent, and the Equity/Title IX Coordinator shall proceed in accordance with appropriate state statutes. For more information, please see full text of Board of Education Policy "Nondiscrimination and Equity in Employment and Educational Opportunity."

SOUTH WINDSOR HIGH SCHOOL

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(860) 648-5000

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Dream, Achieve, Inspire

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GENERAL INFORMATION

Selecting Your Courses for Next Year

Selecting appropriate courses is one of the most important educational decisions that students face each year. Take the time to help create a schedule that best fits your needs and abilities. **Students will only be allowed to change schedules for the 2016-2017 school year prior to the last day of school in June, 2016. This includes all semester and full year classes.** If you have any questions about the scheduling process or your own particular schedule, do not hesitate to see your school counselor or arrange an appointment for you and your parents to meet with your counselor.

Academic Levels

Core curricular courses at South Windsor High School are divided into academic levels based upon difficulty of curricular content, academic requirements, sophistication of analysis required, and other related educational demands. The Advanced Placement and Honors courses are the most challenging while college prep courses provide rigorous course work necessary for post-secondary success. Curricular electives and other courses in non-core areas are all college prep unless otherwise noted. Those students who wish to pursue greater academic challenges may take Advanced Placement courses.

Advanced Placement Program

The Advanced Placement Program (AP) offers college credit for courses taken in high school. In order for a student to qualify for an AP course, a student must have a teacher recommendation in the same subject area.

AP courses are college level courses with requirements that extend beyond the school year, including reading, writing assignments, and project work. Students electing more than one AP course should consult carefully with their parents, teachers, and school counselors before signing up for these courses. Taking the AP Exam in May is a requirement of all AP courses. Details on specific courses, exam information and AP requirements are available on the College Board web site at: <https://apstudent.collegeboard.org>. College credit may be granted by an individual college based upon the score obtained by the student on the AP exam. **All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.**

Appeal of Level or Course Recommendation

If following the recommendation period, a student or parent disagrees with the recommendation made by a teacher, he or she should:

1. Contact the student's school counselor.
2. The counselor will initiate the appeal process by providing a Change of Placement Request Form.
3. If the issue is not resolved with the teacher, the student/parent may contact the curriculum specialist or curriculum program coordinator for that department.
4. If the issue is not resolved with the curriculum specialist or curriculum program coordinator, the parent may contact the principal.

Public School Choice Options

In addition to the various academic programs offered at South Windsor High School, other educational opportunities are available for students. Options include magnet and charter schools, regional vocational/agricultural and vocational/technical schools. For more information about these programs, please visit the Board of Education website or www.choiceeducation.org.

College Partnership Programs

Juniors and seniors who maintain Honor Roll status are eligible to participate in tuition-free programs at local colleges. This opportunity allows students to take a college course while still in high school. They can apply to receive both college credit and high school credit (towards graduation) upon successful completion of courses. Students interested should see their school counselor the preceding semester to receive prior approval, as deadlines for these programs are very early. Students are able to receive .5 credit for each college semester course if the course is approved through the pre-approval process.

The University of Connecticut Early College Experience Program

UConn Early College Experience (ECE) provides academically motivated students the opportunity to take university courses while still in high school. These challenging courses allow students to preview college work, build confidence in their readiness for college, and earn college credits that provide both an academic and a financial head-start on a college degree. ECE instructors, who are certified as adjunct professors by UConn faculty, create a classroom environment fostering independent learning, creativity and critical thinking – all pivotal for success in college. To support rigorous learning, University of Connecticut library resources are also available to students.

ECE students must successfully complete the course with a grade of C or better in order to receive university credit. University credits are typically transferable to other universities. There is a charge per credit. For additional information visit: www.ece.uconn.edu.

SWHS Course

AP Literature and Composition
Marine Science
Environmental Science
AP Physics 1

UConn ECE Course

ENGL1011 – 4 credits
MARN1003 – 4 credits
NRE1000 – 3 credits
PHYS1201Q – 4 credits

College Career Pathways at Manchester Community College

College Career Pathways is a combined secondary and post-secondary education program designed to prepare students for tomorrow's highly competitive careers. College Career Pathways programs provide a foundation of Applied Academics and career skills needed for current and emerging careers. Students enrolled in College Career Pathways courses will earn college credit at MCC for courses completed at SWHS if they follow the MCC registration procedures distributed to them in the fall.

SWHS Course

<u>SWHS Course</u>	<u>MCC Credits</u>
Algebra II w/ Trig (CP or H)	3
Broadcast News Production	3
Physics (CP or H)	3

MCC Credits

SWHS Course

<u>SWHS Course</u>	<u>MCC Credits</u>
Leadership in Child Care	3
Senior English (H)	3

MCC Credits

Goodwin College Senior Academy

Academically eligible seniors have an opportunity to attend Goodwin College free of charge and take two courses per semester (a total of four courses). Students take morning courses at SWHS to fulfill remaining graduation requirements and then leave mid-day for their college courses. Rising seniors should contact their school counselor if interested.

Teaching Assistants

Students who have ample time in their schedules may dedicate time to help a teacher as a Teacher Assistant (TA). Students must be in good academic standing, have good attendance, and submit a completed form with all required signatures. Students may only serve as a TA for the same teacher in one course for the student's academic career. Teacher Assistants may not receive credit value greater than .25 per semester and if the TA position is used for service learning or community service hours, credit cannot also be issued. TA credit cannot fulfill credits needed for graduation.

Course Weighting

Courses at South Windsor High are offered at different levels. Each of these levels is assigned a weighted Course Value:

<u>Level</u>	<u>Course Value</u>
Advanced Placement	4.67
Honors	4.33
College Preparatory	4.00

Grade Points. Each grade is also assigned a value:

	College Preparatory	Honors	Advanced Placement
A	4.00	4.33	4.67
A-	3.67	4.00	4.33
B	3.33	3.67	4.00
B	3.00	3.33	3.67
B-	2.67	3.00	3.33
C+	2.33	2.67	3.00
C	2.00	2.33	2.67
C-	1.67	2.00	2.33
D	1.33	1.67	2.00
D	1.00	1.33	1.67
D-	0.67	1.00	1.33
F	0.00	0.00	0.00

GPA With the exception of Independent Studies and those classes which are graded as P or F, all courses taken at SWHS are used in computing GPA.

Class Rank SWHS no longer ranks students. In the spring of senior year, we will identify the top ten students in the class and recognize the valedictorian and salutatorian. All grades up to and including Q3 grades of senior year will be used in the calculation.

Policy on Dropping Courses A student who drops a required or elective course after the deadlines will receive a “W” on their permanent record, and a “W” in the marking period when the course was dropped. This “W” is equivalent to an “F” when used in determining G.P.A. This policy does not apply to approved course level changes. **As a rule, students will only be allowed to change schedules for the 2016-2017 school year prior to the last day of school in June, 2016. This includes all semester and full year classes.**

Course Load Students are expected to schedule a minimum of 6 credits each year. A student must carry a minimum of 6 credit equivalents for each semester in a school year. To be eligible to participate in extracurricular activities and be eligible for honor roll distinction, a student must carry 6 credit equivalents of graded courses during a marking period. On-line courses do not count towards this credit total unless prior approval from the principal is granted.

NCAA Courses marked with an *(asterisk) designate SWHS core courses which do NOT meet NCAA’s core subject area requirements for Division I and II.

GRADUATION REQUIREMENTS

Graduation from the South Windsor Public Schools implies that all students have:

1. Satisfied the prescribed courses of study for the grade levels in accordance with their respective abilities to achieve.
2. Satisfactorily passed any examinations and satisfactorily demonstrated the district's performance standards, assessed in part by state mandated assessments, established by the faculty and approved by the Board of Education.
3. Fulfilled the mandated number and distribution of credits.

CREDITS

A credit is defined as the equivalent of one class period of at least forty minutes for each day of a school year. One-half credit is given for courses that compile work in one semester. If physical education is not taken because of medical excuse, another subject may be substituted.

Only courses taken in grades nine through twelve, inclusive, shall satisfy this graduation requirement except that a student may be granted credit for the successful completion of coursework at an institution accredited by the Department of Higher Education or a regional accrediting agency. One three-credit semester course, or its equivalent, shall equal one-half high school credit.

STUDENTS GRADUATING IN 2017 and 2018

For students graduating in 2016, 2017, or 2018, the following courses/credits must be included in the **24-credit** minimum graduation requirements:

Subject	# Credits	
English/Language Arts	4	
Mathematics	4	<i>Must include courses in Geometry and Algebra II</i>
Science	3	<i>Must include 1 credit in Physical Science, and 1 credit in Life Science</i>
Social Studies	3	<i>Must include 1 credit in Modern World History, 1 credit in U.S. History, and ½ credit in Civics/American Government</i>
World Language	1	
Physical Education	1	
Health	.5	
Career/Technology	2	<i>All Tech and General Electives qualify</i>
Fine Arts	1	<i>All Art and Music courses qualify</i>
Electives	4.5	<i>For the class of 2018 and beyond, 1.0 Capstone credit required as an elective, reducing required electives to 3.5</i>
Total Minimum Credits for Graduation	24	

STUDENTS GRADUATING IN 2019 OR LATER

For students graduating in 2019 or later, the following courses/credits must be included in the **25-credit** minimum graduation requirements:

Subject	# Credits	
English/Language Arts	4	
Mathematics	4	<i>Must include Algebra I, Geometry, and Algebra II OR Probability & Statistics</i>
Science	3	<i>Must include 1 credit in Life Science and 1 credit in Physical Science</i>
Social Studies	3	<i>Must include 1 credit in American History and .5 credit in Civics & American Government</i>
World Language	2	
Physical Education	1	
Health	.5	
Humanities Elective	1	<i>Any English, Social Studies or Fine Arts class, including a second year of Art or Music, or any course designated as a humanities elective.</i>
STEM Elective	1	<i>Any Science, Technology, Math course, including Science Olympiad and Computer Science</i>
Career/Life Skills	2	<i>2 credits of any of the following: Business Ed, Tech Ed, Family Consumer Science, PE/Health, Yearbook, American Sign Language, ESL, Community Service, Public Speaking, Rhetoric, Financial Math, Adv. Math Dec Making, Mobile CSP, Consumer Chemistry, Forensics, Psychology, Sociology, Photo, Video Communication, Graphic Communication</i>
Fine Arts	1	<i>All Art and Music courses qualify</i>
Capstone	1	
Electives	1.5	<i>Student choice; any additional courses qualify</i>
Total Minimum Credits for Graduation	25	

Promotion/Class Placement Promotion and class placement are based on the number of credits earned in high school. Credits are accumulated when all course academic requirements are successfully completed. Minimum requirements for official class standing and promotion are:

	From Grade 9 to 10	From Grade 10 to 11	From Grade 11 to 12	Graduation
Class of 2017, 2018	6	11	18	24
Class of 2019, 2020	6	12	18	25

DISTRICT PERFORMANCE STANDARDS

It is anticipated that in the future the “District Performance Standards” section of this policy will specify the degree to which the new SAT assessment will factor in toward graduation requirements as well as the options for seniors if requirements are not met. In accordance with Board of Education Policy 6146, District Performance Standards for the class of 2016 and beyond have not yet been defined.

ADMINISTRATION OF PERFORMANCE STANDARD ASSESSMENT

Transfer Students

- A student who transfers into South Windsor High School from another Connecticut public high school in his/her junior or senior year and has met the standards from the sending district will satisfy the South Windsor district performance standards. A student who has not met the standards of the sending district will be required to meet the South Windsor district performance standards.
- A student who transfers into South Windsor High School after completing at least three years in a private high school or an out-of-state high school will have his/her student records and transcripts reviewed by the appropriate curriculum specialist or curriculum program coordinator. As a result of the review, a determination will be made as to whether or not the student will be exempt from the district’s performance standards. A nonexempt student will be required to meet the South Windsor district performance standards. Parents and students will be informed by the school counseling office as to what requirements still have to be met in order to graduate from South Windsor High School.

Special Needs

South Windsor High School’s graduation requirements apply to all students, including special education students. The planning and placement team (PPT) will consider appropriate accommodations to demonstrate proficiency toward the district performance standards. Decisions of the PPT regarding accommodations must be outlined within a student’s Individualized Education Plan (IEP). Accommodations and modifications of course requirements should fit a student’s strengths and weaknesses, not the disability category, and be in effect within the IEP for class work.

Notification to Teachers

At the beginning of a student’s junior year appropriate staff will be provided with a list of the names of students who require further performance assessments.

Notification to Parents/Guardians

- A letter detailing the academic and performance requirements will be mailed to all incoming freshmen, transfer students and their parents/guardians.
- Achievement of proficiency standards will be mailed to parents/guardians.
- At the end of a student’s junior year, a written communication will be sent to parents/guardians of junior students outlining credits achieved and requirements still needed for graduation.
- At the end of the first semester of a student’s senior year, a certified letter will be sent to parents/guardians of seniors who are in danger of not meeting all graduation requirements.

Awards of High School Diplomas

Students who complete all graduation requirements shall receive a diploma.

For the full text of the Board of Education policy pertaining to graduation requirements, please refer to our district website: www.southwindsorschools.org.

COUNSELING SERVICES

The goal of the Counseling Program is to facilitate learning, so that all students extract the greatest gains from the South Windsor High School program of studies and transfer those gains to their post-secondary endeavors.

The specific services offered by the School Counseling Department – course programming, testing, individual, college and vocational counseling, and the identification and resolution of social problems – are all part of an integrated developmental counseling program which is proactive in nature. With our society undergoing a drastic transformation that has been both stimulated and magnified by the ever-increasing pace of technological advances, we are faced with issues whose solutions will require flexible and adaptive problem solving skills. We aim not only to help our students develop the capacity to adapt to change, but to be prepared to plan, order and direct that change.

The developmental counseling program is comprehensive in nature and includes sequential activities which are developmentally appropriate for each grade level. These activities are organized and implemented by certified school counselors in collaboration with teachers, administrators, students, parents and other community resources and are directed at facilitating students' academic, career and personal/social development. The program, designed to systematically assist all students in our school, focuses upon helping students acquire the knowledge and competencies needed to develop problem solving skills, interpersonal effectiveness, decision making, goal setting and planning skills. We seek to have our students, with the right skills and the appropriate motivation, ready to make the successful transitions essential to the competitive workplace.

The counselors serve the school in many ways. These services include:

- Assisting the students in program planning
- Individual Counseling
- Post-Secondary Planning
- Monitoring Student Academic Achievement
- Referral services for students and families

Career Center

The main function of the Career Center is to give individuals (students, teachers, parents, and members of the community), who wish to explore post-secondary options, a central information center.

The Career Center has information on careers, two and four-year colleges, scholarships and other financial aid, as well as military options. Many college admissions representatives as well as military recruiters visit our Career Center and meet with SWHS students in small group settings. The Career Center also has computer software, catalogs, books, and other materials that can be signed out and used at home. People borrowing materials must return them promptly so others are not deprived of their use.

Naviance

The focal point of the Career Center is the Naviance Program. Naviance is a web based computer program for delivering post-secondary planning resources to students, parents, and teachers. It is a vital component to Student Success Planning in grades 9–12. All students have the opportunity to utilize their own Naviance accounts which will serve as an electronic “storehouse” for all of their post-secondary planning materials. All teachers now have Naviance accounts which enable them to send/store college letters of recommendation and evaluations electronically in order to be sent to the School Counseling office and to colleges. Finally, all college application materials are submitted via Naviance electronically.

Parents are also encouraged to open Naviance accounts so they can view their child’s activities/information, as well as use the many career, college and scholarship search engines and tools that Naviance offers. The ultimate goal of Naviance is to provide more efficient, transparent, and accessible School Counseling services to all students and their families.

On-Line Registration Instructions for Course Selection

Students will go on-line through the SWHS website to register for their courses for the next school year. The instructions will be posted on the South Windsor High School website at www.southwindsorschools.org. **Students will not be allowed to change schedules for the 2016-2017 school year after the last day of school in June 2016. This includes all semester and full year classes.**

Nationwide Examinations

The most current information is summarized below concerning the four major tests used for college admissions and scholarships. Since changes occur frequently, students should check with their counselors concerning specific tests. Current information can also be found at www.collegeboard.com.

- The Preliminary Scholastic Aptitude Test/National Merit Scholarship qualifying test is given to both sophomores and juniors on a Wednesday during the month of October. This test is used to familiarize students with the College Board’s tests. It is also the basis of awarding National Merit Scholarship funds for Juniors. However, the most important function of the PSAT **is to determine a student’s academic strengths and weaknesses. Students can then use this information to identify skills that need improvement.**
- College Entrance Exams - one of the requirements at most four year colleges and at many two year colleges is the **Scholastic Assessment Test** (SAT - Reasoning Test) prepared by Educational Testing Service of Princeton, New Jersey. This test is given at selected secondary schools on dates specified by the College Entrance Examination Board (CEEB). In addition to the SAT, a number of colleges also require one or more *achievement* tests (SAT - Subject Tests) for admission. These are one-hour examinations in specific subject areas and are also offered on specific dates. Test dates and registration deadlines can be found on CollegeBoard.com. SOUTH WINDSOR HIGH SCHOOL TEST CENTER CODE IS 070700.
- A number of colleges prefer the test battery of the American College Testing program (ACT). These tests are given five times a year on specified dates in October, December, February, April and June. More information can be found by visiting www.act.org.
- The ASVAB Test (Armed Services Vocational Aptitude Battery Test) will be administered at South Windsor High School during November for interested students.

Grade Reporting

South Windsor High School strongly encourages parents to be as active in their child's education as possible. Parents are encouraged to review their child's homework and ask questions about how school is going. Parents and students may view progress reports on PowerSchool at mid-point of semesters. Report cards are mailed to the student's home address approximately one week following the end of each quarter. Parents and students should use these documents carefully as a springboard for discussions about future goals and aspirations.

Contact Information

If a parent has any questions about a class, the best source to call to answer questions is the teacher of that specific class. A teacher may be contacted by telephone at 860-648-5000 or by email. Email addresses are posted on our web site: www.southwindsorschools.org. Please feel free to call the school counseling department at 860-648-5003 if you need assistance in communicating with a teacher. When issues arise within your family that you feel may influence your student's performance at school, please let us know. We will be discreet and confidential with our dealing with all of your child's teachers, especially as they pertain to family issues. If you think we can be of help, please do not hesitate to call. If we are not able to provide direct assistance, then we can direct you to those who can.

Summer School

South Windsor High School students have a number of options for summer school, including summer school programs held in local surrounding communities. The purpose of these summer school programs is to meet the needs of students who are interested in (1) special study in subject fields of particular interest for enrichment purposes, (2) earning academic credit in secondary subjects which were failed during the year and are necessary for graduation, and (3) remedying deficiencies in subject areas. Details regarding summer school and its costs are available from the Counseling Office in late May or early June.

Virtual High School (VHS)

South Windsor High School is a participant in the Virtual High School program. Each semester a limited number of students may enroll in a VHS course at no cost to the student. These courses are generally "anytime, anywhere" courses that do not have to be scheduled into the school day. Typically, VHS courses are entered on the transcript as Pass/Fail courses that do not satisfy graduation requirements and they are not included in the GPA or QPA calculation. Under certain circumstances, with permission from the principal, VHS courses may be taken to satisfy graduation requirements, entered as graded courses, and included in the GPA calculation. Students must follow SWHS On-line course guidelines and complete a "**Pre- Approval for High School Credit for Course Work Outside of SWHS**" form which is signed off by the parent, counselor, curriculum coordinator, and administrator. Once evidence of completion is obtained, the credit and grade (P/F) is entered on to the student's transcript.

CAREER & TECHNICAL EDUCATION

Business Technology

ACCOUNTING I

CRS #0620

1 Credit Full Year 10, 11, 12

Accounting is the “language of business.” This course introduces students to the basic accounting cycle for businesses. Students learn how to start an accounting system, analyze transactions into debit and credit parts, journalize and post business transactions, complete end-of-fiscal-period statements, and complete an accounting simulation for a service business. Microsoft Excel and QuickBooks are used throughout the course.

BUSINESS COMMUNICATIONS

CRS #0629

½ Credit One Semester 9, 10, 11, 12

The business world needs people who can communicate effectively. This course is for those who plan to pursue or major in a business or communications career after high school. Students will be involved in writing, speaking, listening, and reading activities which will prepare them to participate in a business environment.

COMPUTER APPLICATIONS

CRS# 0950

½ Credit One Semester 9

Computer Applications introduces students to computer technology through hands-on activities with Microsoft Office 2013, with Google Suite, and with other software applications. Students will learn to use word-processing, spreadsheets, presentation graphics applications, electronic portfolio development software and personal assessment career exploration applications. Keyboarding skills will be applied throughout the course.

CONSUMER LAW

CRS #0612

½ Credit One Semester 10, 11, 12

Consumer Law is a dynamic course dealing with the rights and responsibilities of the citizen. Textbook materials, case studies, and simulation activities address such topics as contracts, insurance, financial crimes, tort law, family legal issues, and trial procedures.

ENTREPRENEURSHIP

CRS #0640

1 Credit Full Year 10, 11, 12

Entrepreneurship students will gain the knowledge and skills necessary to research and develop a small business. Students will assess their own entrepreneurial aptitudes and evaluate entrepreneurial opportunities, calculate start-up costs, identify managerial concerns, select a business location based on economic indicators, compare and contrast forms of business ownership, and determine whether starting a new business or buying a franchise is most beneficial. Students will also use goal-setting, marketing analysis, and estimations of pro forma financial data to write a business plan and create basic financial reports in an effort to solicit venture capital or debt financing for their proposed venture.

INTRODUCTION TO PERSONAL FINANCE**CRS #0615**

½ Credit

One Semester

9, 10, 11, 12

Introduction to Personal Finance covers personal financial issues facing individuals in today's society. Students will learn ways to save for the future, manage certain investments, and the importance of creating a budget. Course topics include managing savings and checking accounts, investments, budgeting, taxes, credit management, as well as how to protect themselves against risk. Within this course students will access the latest information with regard to federal income tax preparation. Various class projects using technology will support curriculum objectives in each area studied.

FINANCE, INVESTMENT AND BANKING**CRS #0616**

½ Credit

One Semester

10, 11, 12

Prerequisite: Introduction to Personal Finance

This course will expand upon topics covered in the introductory Personal Finance course and provide students with advanced knowledge about banking, finance and investment. Areas of study will include debt and equity securities, investment analysis, and insurance and risk management.

MARKETING**CRS #0619**

1 Credit

Full Year

10, 11, 12

This course will emphasize application and direct involvement with marketing principles and basic economic principles. Students will develop skills in the nine key functions of marketing: selling, promotion, distribution, risk management, pricing, purchasing, marketing information management, product and service planning, and finance. Students will prepare to enter DECA competitions at the state and national level. The latest computer technology will be infused into the program to ensure that students maintain a competitive edge in today's high tech world.

Technology Education

INTRODUCTION TO ENGINEERING DESIGN**CRS #0947**

1 Credit

Full Year

9, 10, 11, 12

This is a full-year course that is a component of the “Project Lead the Way” Pre-Engineering program. The course teaches problem-solving skills using a design development process. Students create individual solutions to a variety of mechanical and product design problems. Models of product solutions are created, analyzed and communicated by using solid modeling computer design software. Color renderings and animations are created by the students to better illustrate their ideas. Any student considering a career in engineering or manufacturing should consider taking this course.

ARCHITECTURAL DESIGN**CRS #0957**

1 Credit

Full Year

9, 10, 11, 12

Students use Autodesk Revit software to create a complete set of house plans for their dream home. Color renderings and walk-through animations are created by the students to better illustrate their ideas. Students spend the majority of their time designing and drawing on the computer. This course provides a study of residential house design and construction. Any student considering a career in architecture or construction should take this course.

VIDEO PRODUCTION**CRS #0960**

1 Credit

Full Year

10, 11, 12

Prerequisite: Video Communications or permission of instructor.

Video Production will expand upon the filmmaking and editing process with the production of dynamic 2D and 3D computer graphics, special effects, animations, and short films. Each student will design and produce a professional showreel/portfolio suitable for presentation to colleges and potential employers in the communications industry. Industry practices and software will be used in the fulfillment of the course requirements. Students have the opportunity in this class to obtain internationally recognized Apple Certification for Final Cut Pro.

BROADCAST NEWS PRODUCTION**CRS #0971**

1 Credit (may be repeated)

Full Year

10, 11, 12

This course is a study of basic television production as it applies to live and recorded studio programming. Beginning instruction is offered in the areas of news gathering, story writing, video editing, studio setup and operation, audio for television, and television directing, with an emphasis on underlying principles of video technology. Students will learn the following: How to research a news story, write a script, shoot an interview, serve as a reporter or news cameraperson, edit news packages, and conduct an actual newscast. Students will also learn computer programs related to television program including: Final Cut Pro X, Soundtrack, Garageband, DVD StudioPro and other applicable software. The students that are enrolled in this course will produce the daily news show for SWHS school announcements. *(Students completing this course may earn 3 college credits in the College Career Pathways program at Manchester Community College.)*

Computer Science and Programming

AP COMPUTER SCIENCE

CRS #0972

1 Credit Full Year 10, 11, 12

Prerequisite: B- in Honors Geometry

The curriculum of AP Computer Science in Java is based on the syllabus developed by the College Board. Topics include program design and implementation, algorithm analysis, standard data structures, and object-oriented programming design. AP Computer Science in Java emphasizes programming methodology with an emphasis on problem solving and algorithm development. It is intended to serve both as introductory courses for computer science majors, and for students who will major in disciplines that require significant involvement with computing.

VIDEO GAME DESIGN AND COMPUTER PROGRAMMING

CRS # 0913

½ Credit One Semester 9, 10, 11, 12

A half-year course in video game design and computer programming where students create games and other useful apps for tablet computers. In doing so, students will be introduced to the concepts of interface design and layout, touch-screen controls, variables, animation, persistence, programming logic, and data management. This course will provide a good introduction to some of the concepts covered in the AP Computer Science A course or the AP Computer Science Principles course.

WEB DESIGN

CRS #0946

½ Credit One Semester 9, 10, 11, 12

Students will learn how to design and produce web sites using HTML/CSS coding and Dreamweaver. The class focuses on web page planning, basic design, color, navigation, interactivity, layout, web page production, and the setup of a web site. HTML, Cascading Style Sheets, Dreamweaver, Photoshop, and various other web page and image creation tools will be taught in the course. Students will learn how to mock up a site using Photoshop and create the final pages from this. They will also develop a portfolio of websites during the semester.

INTRODUCTION TO ROBOTICS

CRS #0966

½ Credit One Semester 9, 10, 11, 12

This is an one-semester course that explores a variety of robotic systems. Students work with VEX Robotics kits to learn about mechanical systems, RobotC programming, logic, open-loop and closed-loop systems, motion systems, motor controls, transmissions, closed-loop systems, sensors, autonomous behavior, arms and manipulators to move objects.

A one-semester course designed to stimulate the interest in space and aviation. The areas of study include a history of flight, the basic principles of flight and aerodynamics, rocketry, and modern aviation. There is a design component in the course where students will design flying machines using three-dimensional software and build, test and refine their designs. Vocational opportunities in this field are also discussed.

ENGINEERING DESIGN AND DEVELOPMENT**CRS #0970**

1 Credit Full Year 11, 12

Prerequisite: Introduction to Engineering Design

Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

INDEPENDENT STUDY – TECHNOLOGY**CRS #0955**

With the consent of the instructor and curriculum program coordinators, students may select topics, projects or processes for independent study. Arrangements concerning level, credit, etc., must be determined prior to approval.

****DIY REPAIR AND MAINTENANCE (PENDING BOARD OF EDUCATION APPROVAL)****CRS #_____**

½ Credit One Semester 9, 10, 11, 12

Why spend money paying for simple repairs that anyone with a few tools and little know-how can complete? This one-semester course prepares students to maintain house-hold equipment and to make common repairs. Topics under consideration: tool and machine safety; small engine repair (weed trimmer, lawn mower, leaf blower, etc.); home fixes (dry wall, door locks, light switches, ceiling fans, leaks); automotive (flat tire, oil change).

Cooperative Work Experience

The CWE program is a school-centered program run with the cooperation of selected employers in the greater South Windsor area. The program is designed to allow students to explore career interests in a variety of professions. CWE students apply academic knowledge and learn personal management strategies that relate directly to situations found in the workplace. Students that meet the eligibility criteria can be offered a work experience component and can earn up one additional credit based upon their work performance and hours worked. Since this additional credit is awarded at the end of the school year, it may not be counted as one of the 5 credits required for full time students.

CWE I – CAREER PREPARATION**CRS #0030**

1 Credit Full Year 11, 12

This course provides students the opportunity to learn how to successfully prepare for their future. The following topics will be covered: career planning, post-secondary planning, career acquisition, interview skills, job selection, work safety, labor laws, employer expectations, teamwork and problem solving on the job.

CWE II – CAREER MANAGEMENT**CRS #0032**

1 Credit Full Year 12

Prerequisite: Career Preparation

In this course students will learn concepts that influence personal and career decisions. The following topics will be covered: how to effectively communicate on the job, diversity and rights in the workplace, the U.S. economic system, entrepreneurial opportunities, technology in the work environment, payroll, filing taxes and managing income.

Family and Consumer Science

CHILD DEVELOPMENT**CRS #0931**

½ Credit One Semester 10, 11, 12

Child Development is a one-semester course which concentrates on the study of the physical, emotional, social, and intellectual development of children. Emphasis is placed on the care of the young child or children, recognition of growth patterns, and the skills needed to help and teach the child as they interact with other children. Students will participate in The SWHS Preschool Learning Center, the SWHS nursery school program. Interacting with children, electronic journal writing, long term projects, and producing lessons is an integral part of the Child Development program.

LEADERSHIP IN CHILD CARE**CRS #0934**

1 Credit Full Year 11, 12

Prerequisite: Child Development having maintained at least a B- average or higher.

Leadership in Child Care is designed to give the student an opportunity to study the practical application of the concepts learned in Child Development. The Child Development applications such as creating lessons, electronic journal writing and longer term projects are continued; however, designing, planning, and implementing a nursery school program is the central part of this course. Nursery school concepts, educational theories, children's literature, program leadership, and program evaluation are also stressed. Students entering this course must value themselves as leaders or having potential to be leaders with children. These students must be responsible since they will also be helping Child Development students work with their assigned child. If they are unsure if they meet the criteria, they may speak with the Child Development teacher. Career options in child study are also investigated. *(Students completing this course may earn 3 college credits in the College Career Pathways program at Manchester Community College.)*

INDEPENDENT STUDY IN CHILD CARE**CRS #0929**

11, 12 (By Arrangement)

This course is designed for the student who has excelled in Child previous Child care courses and is considering a child-oriented career. A student in Independent Study in Child Care will take a leadership role in the other Child Development classes. Students will be encouraged to set up an independent study project which might include observation of other nursery school programs.

****PRINCIPLES OF FOOD PREPARATION (PENDING BOARD OF EDUCATION APPROVAL)****CRS #_____**

½ Credit One Semester 9, 10, 11, 12

This course introduces students to food-preparation techniques and procedures in a commercial kitchen environment. Emphasis is placed on the use of equipment, identification of a standard quality product, and the importance of methods by which to develop sanitary working habits.

****PRINCIPLES OF BAKING (PENDING BOARD OF EDUCATION APPROVAL)**

CRS # _____

½ Credit One Semester 10, 11, 12

This course introduces students to baking and pastry with intensive hands-on training in a commercial kitchen environment. Students concentrate on the production and quality control of baked goods that are used in hotels, restaurants, resorts, and other institutions. Units of study emphasize basic ingredients and production techniques for breads, rolls, folded doughs, batters, basic cakes, pies, and creams.

****HOSPITALITY & TOURISM (PENDING BOARD OF EDUCATION APPROVAL)**

CRS # _____

½ Credit One Semester 10, 11, 12

This survey course introduces students to three major areas of the hospitality industry: foodservice, including restaurants, institutions, clubs, and schools; the hotel and motel industry, including travel and tourism; and hospitality management theories, styles, and laws. Career exploration is emphasized.

LITERACY/ENGLISH LANGUAGE ARTS

English courses for each grade provide similar challenges for students to be reflective, critical, and inventive thinkers through reading and writing experiences. The academic ability levels vary in regard to sophistication of texts, structure of assignments, and independent work expected.

***HUMANITIES**

CRS #0103/#0104

2 Credits Full Year 9 (1 Credit English, 1 Credit Social Studies)

This course offers students the opportunity to receive strategic instruction in literacy skills according to their individual needs. It is focused on the reading, writing and responding to fiction and non-fiction texts required by the Common Core State Standards for English Language Arts. Students will spend approximately half of their time working with a variety of texts which support the Modern World History curriculum and the other half working on skills and concepts within the ninth grade language arts curriculum.

FIRST YEAR ENGLISH

CRS #0114

1 Credit Full Year 9

This course explores the subtleties and layers of the question "Who am I?" Several texts are analyzed, including novels, short stories, and poems. Students will be encouraged to question, interpret, and make judgments about texts with increasing independence. They will also use writing as both a way to learn and as a means of expression. Emphasis will be on developing response statements and then transforming response statements into essays. With both literature and writing, students will become familiar with collaboration as a strategy for learning.

FIRST YEAR ENGLISH (H)

CRS #0116

1 Credit Full Year 9

This course introduces students to reading and writing strategies, which are necessary for developing interpretive skills. Students learn to understand and appreciate major literary genres (novel, short story, essay, drama and poetry) by reading various samples of each and by creating works of their own in various genres. They also will utilize their response statements about literature as foundations for interpretive and exploratory essays. A high degree of independence will be expected.

AMERICAN LITERATURE

CRS #0123
HONORS CRS #0124

1 Credit Full Year 10

Students studying American literature are given the opportunity to discover, broaden, and evaluate perspectives on American ideas, culture, history, and language. This course will emphasize: increasing students’ knowledge of interpretive strategies and developing more proficient, artful, self-directed use of these strategies; increasing students’ fluency with language and greater independence in their written work; providing students opportunities to think in various ways and to write in various forms with emphasis on narrative, expository and argumentative writing; encouraging students to have a democratic mind; fostering students’ understanding of the interconnectedness of reading, writing and collaborating; and on building students’ self-esteem through the accomplishment of both scaffolded and independent intellectual endeavors. (For honors level, a high degree of independence and scholarship will be expected.)

THEMES IN WORLD LITERATURE

CRS #0135
HONORS CRS #0133

1 Credit Full Year 11

Students studying World Literature will encounter challenging texts and ideas from around the world, which represent Western and non-Western thought. Through their work with fictional and non-fictional texts, students analyze ideas which are particular to individual cultures and questions common to all cultures. This course requires students to consider and construct themes in order to explore multiple perspectives of an issue and to think in increasingly open and sophisticated ways as they develop their own interpretations and philosophical positions. Students will improve their proficiency with language by strengthening and augmenting their reading and writing strategies. Additionally, an emphasis on responsible scholarship and research leads to independent class presentations and formally documented written work. (The Honors level course requires a high degree of scholarship and independence.)

AP LANGUAGE AND COMPOSITION

CRS #0145

1 Credit Full Year 11

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. Summer reading and writing are required. At the end of the course, students will take the Advanced Placement Test. Successful work at the honors level in previous years recommended. All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit. Although this states for grade 11, grade 12 students are also welcome to take this course if space is available.

SENIOR HONORS ENGLISH (H)**CRS #0185**

1 Credit Full Year 12

This course examines the power of story within our personal lives and within cultural contexts and also explores how we read our world. Students are required to be involved learners and critical thinkers who welcome the opportunity to expand their literary base by engaging with provocative, sophisticated literary texts in intellectually challenging ways as readers, writers, and collaborators. Students who enroll in this course must be highly motivated and must be seeking an in-depth, scholarly experience. Students will write a senior honors thesis. *(Students completing this course may earn 3 college credits in the College Career Pathways program at Manchester Community College.)*

AP LITERATURE AND COMPOSITION**CRS #0144**

1 Credit Full Year 12

An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. At the end of the course, students will take the Advanced Placement Test. Course credits from the ECE/UCONN program are also available to qualified students. See page 6. Successful work at the honors level in previous years recommended. All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit. Although this states for grade 12, grade 11 students are also welcome to take the course if space is available.

RHETORIC, LANGUAGE, AND CULTURE**CRS #0156**

½ Credit First Semester 12

The major goal of this course is to help students use the English language with clarity and precision and to broaden their stylistic fluency as writers. Through writing, speaking, and reading experiences, students will practice using language in its various functions, develop an appreciation for the power of language, improve language skills for critical thinking, increase their facility with standard English, and become aware of language as a product and shaper of culture. Conducting research and expressing that research in written form is an integral element of the course. Writing assignments emphasize the skills and strategies which serve as preparation for college composition courses.

CONTEMPORARY POETRY**CRS #0152**

½ Credit First Semester 12

This course explores the role of poetry in our modern multicultural global society. Students will analyze lyrics to popular music, performance poetry, such as slam poetry, in addition to examining the works of revolutionary twentieth and twenty-first century poets from around the world. Students will also have the opportunity to develop their own original poetry. The course culminates with the development of a poetry portfolio which includes both original poetry and contemporary poems that have influenced students' everyday lives.

CREATIVE WRITING**CRS #0168**

½ Credit Second Semester 12 (GRADE 11 IF SPACE ALLOWS)

This course is designed as a seminar which emphasizes writing and reading activities in the major genres of poetry, script writing and short fiction. Students will explore the writer’s craft by reading a variety of texts and by composing original works of poetry, drama and short fiction. A major course requirement is a writing portfolio. (Senior students must have taken one first semester English class to enroll.)

EXAMINING SOCIAL ISSUES THROUGH ALTERNATE VOICES

CRS #???

½ credit Second Semester 12 (GRADE 11 IF SPACE ALLOWS)

This course encourages students to develop awareness of, and sensitivity to those voices which are not typically heard, but which add to a fuller understanding of universal human concerns. Through an examination of contemporary social issues, students will identify the various causes of conflict, and apply theoretical and practical tenets of successful nonviolent conflict resolution practices in addressing those issues. By responding to literature and nonfiction sources, developing and executing student-driven activities and collaborating on projects, students will become aware of their responsibility as a world citizen and the power of the individual in making and acting upon decisions.

STORY AND THE ART OF STORYTELLING

CRS #0172

½ Credit Second Semester 12 (GRADE 11 IF SPACE ALLOWS)

Since we’ve existed, human beings have always shared stories. This course explores why we need stories and how we tell stories. Students will explore stories told through a variety of media; prose, poetry, art, and film. They will also gain knowledge about how we make meaning from stories told in different forms. Students will continue to develop their abilities to analyze literature and support their analysis in written communication. (Senior students must have taken one first semester English class to enroll.)

FEMALE/MALE PERSPECTIVES IN LITERATURE

CRS #0158

½ Credit Second Semester 12 (GRADE 11 IF SPACE ALLOWS)

Students in this course will have the unique opportunity to study literary themes with an emphasis on how gender roles shape identity. In examining the literature in which women and men embody, challenge, or offer alternatives to traditional values and current issues, students will find opportunities to become reflective and critical thinkers. Students will increase their ability to interpret literature, to evaluate ideas, and to express themselves in creative and analytical writing. In addition, students will conduct independent research. (Senior students must have taken one first semester English class to enroll.)

TECHNICAL WRITING

CRS #0173

½ Credit First Semester 12

This course will focus on communicating information about technical subjects within a work setting. Students write reports, instructions, summaries, e-mails, and memos; develop audience awareness skills; develop skills in document layout and design, including online formats; and collaborate in group projects.

PUBLIC SPEAKING

CRS #0174

½ Credit Second Semester 12

In this highly interactive course, students will develop speaking and listening skills in order to become more confident communicators. Students will practice effective public presentation skills, with emphasis on: content organization; typed outlines; credible research; delivery techniques; audience adaption; group presentation; and persuasion.

AMERICAN STUDIES*CRS #0184**

1 Credit

Full Year

10

This course offers designated students the opportunity to be instructed strategically in literacy skills according to their individual needs. It is focused on the reading, writing and responding to fiction and non-fiction texts required by the Common Core State Standards for English Language Arts. Students will spend approximately half of their time working with a variety of texts which support the U.S. History curriculum and the other half working on skills and concepts within the tenth grade language arts curriculum. (by special arrangement)

****JOURNALISM****CRS #0189**

1 Credit ELA Elective credit

11, 12

Journalism is an elective designed for juniors and seniors with strong writing skills and an interest in working on the school newspaper. In this course, students study journalism as consumers and producers of news and media. In this full year course, students learn various newsgathering techniques; write types of copy, study local, state, and national newspapers. Students are expected to submit articles for publication.

MATHEMATICS

The Mathematics Department offers four years of courses to suit all students' needs and abilities. The Mathematics Program utilizes a standards based approach that reflects a balance between the development of conceptual understandings and procedural skills allowing students to apply and communicate their mathematical knowledge. Students demonstrate intellectual curiosity and academic growth while gathering, assessing and analyzing information to solve real world problems. In Grades 9-12, students encounter new classes surrounding functions, geometric perspectives and new ways of analyzing data. They begin to understand aspects of mathematical form and structure and see the interplay of algebra, geometry, probability and statistics, discrete mathematics, and various ways that mathematical phenomena can be represented.

- The **College Preparatory Sequence (CP)** offers an in-depth study of the processes of algebra, geometry and trigonometry. Broad concepts are explored and the techniques of analysis and synthesis are developed. These courses offer a thorough preparation for mathematics based college studies. A typical sequence might be: Algebra I, Geometry, Algebra II or Algebra II with Trig, and Pre-Calculus, Calculus and/or math electives.
- The **Honors Sequence (H)** offers students with superior mathematical ability opportunities for challenge and enrichment. The topics range from algebra, geometry, trigonometry, and calculus are covered with great depth and rigor. A typical sequence might be: Honors Algebra I, Honors Geometry, Honors Algebra II with Trig, Honors Pre-Calculus, AP Calculus and/or AP Statistics.

Criteria for student placement will be based on midterm exams, final exams, the Scholastic Math Inventory (SMI) and other course readiness assessments when appropriate, and teacher recommendations. **Note the required prerequisite final course grades to be recommended to the next course in a sequence.** A teacher may override a placement made based on the prerequisite grade. If a parent/guardian disagrees with a teacher recommendation,

he/she **must** complete a *Change of Placement Request Form* (available in the school counseling office) and return it to the teacher. **ALL placement changes must go through a review process by the K-12 Mathematics Curriculum Specialist.**

Calculator statement: While calculators are available for use at SWHS, it is **highly recommended** that students obtain a calculator of their own and use it regularly. It is essential that students use a calculator with which they are familiar when taking the PSAT and SAT exams. While a scientific calculator will meet most of their needs, a graphing calculator is recommended for the SAT Mathematics subject area tests. We recommend the TI-84 if purchasing a graphing calculator.

*** INTEGRATED MATHEMATICS I**

CRS#0203

1 Credit Full Year 9

This course is designed to provide students with a basic understanding of linear relationships by applying linear models to data. The primary focus is on an extension of geometric reasoning while integrating algebra. This is the first course in a two-year sequence. Students who complete this course then progress to Integrated Mathematics II. The completion of both integrated I and II is needed to have the equivalent of Algebra I and Geometry. Requires approval by the K-12 Mathematics Curriculum Specialist.

***INTEGRATED MATHEMATICS II**

CRS # 0260

1 Credit Full Year 10

Prerequisite: Integrated Math I (C or better) or approval by the K-12 Mathematics Curriculum Specialist

This course is the second in the integrated series. It is designed to provide students with a deeper understanding of algebraic and geometric reasoning. Opportunities are provided to allow students to extend their understanding of linear and quadratic functions. Students will use TI-83/84 graphing calculators. Upon completion of Integrated II, students considering participation in division I or II NCAA athletics should enroll in Algebra I CP to begin meeting NCAA Clearinghouse Requirements.

ALGEBRA I

CRS #0231

1 Credit Full Year 9, 10

Prerequisite: Grade 8 Pre-Algebra (C- or better)

This course integrates geometry, statistics, and probability into the study of algebra. Topics covered include: an analysis of linear equations, inequalities, and systems of equations and inequalities. Also studied are the operations on polynomials, solving rational equations, and an introduction to working with functions. Reading and problem solving are emphasized throughout the year. Students will use TI-83/84 graphing calculators.

ALGEBRA I (H)

CRS #0237

1 Credit Full Year 9

Prerequisite: Grade 8 Algebra I (C+ or better); Pre-Algebra (A or better)

This course is designed for students who have demonstrated a strong ability in previous mathematics courses and who wish to pursue upper-level mathematics courses throughout their academic career. In addition to the topics covered in the regular Algebra 1 course, the honors section studies

Prerequisite: CP Geometry and CP Algebra I (C- or better in both to be recommended)

This course is designed to provide students with the skill to manipulate systems of linear equations, linear, quadratic and exponential expressions and equations. Students will study them for their abstract properties and use them as tools for modeling real-world situations. Students will use TI 83/84 graphing calculators to solve real-life application problems. Trigonometry is not covered in this course, therefore students should take the one semester Trigonometry course upon completion of Algebra II.

ALGEBRA II WITH TRIGONOMETRY**CRS #0239**

1 Credit Full Year 10, 11, 12

Prerequisite: CP Geometry and CP Algebra I (C+ or better in both to be recommended)

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand their abilities to model situations and to solve equations, including quadratic equations, complex numbers and solving exponential equations using the properties of logarithms. TI 83/84 graphing calculators are used throughout the course. Students will be introduced to the concepts of trigonometric functions. MCC Tech Prep credit available.

ALGEBRA II WITH TRIGONOMETRY (H)**CRS #0240**

1 Credit Full Year 10, 11, 12

Prerequisite: Grade 8 Algebra I (A- or better to be recommended) and recommendation of Geometry teacher; H Algebra I or CP Algebra I (A or better and recommendation of geometry teacher).

This course contains all of the material of Algebra II with Trigonometry prescribed for College Prep, plus extension of matrix algebra, complex numbers, and conic sections. Topics are extended to include applications of highly developed skills and sophisticated understanding of trigonometry. Mathematical models will be created by students in order to solve problems relating to phenomena in the real world. TI 83/84 graphing calculators are used throughout the course. Summer work is required prior to taking this course. MCC Tech Prep credit available.

PRE-CALCULUS**CRS #0235**

1 Credit Full Year 11, 12

Prerequisite: CP Algebra II, a semester of Trigonometry, and summer work (A- or better to be recommended) OR CP Algebra II w/ Trig (C+ or better)

This course integrates the study of functions, statistics, and trigonometry. The emphasis of study is the development and understanding of mathematical models: exponential, logarithmic, rational, trigonometric, and polynomial. Students will represent complex numbers and their operations on a complex plane. This course previews calculus with an introduction to limits and provides the student the background to continue their study of mathematics beyond high school. TI 83/84 graphing calculators are used throughout this course.

PRE-CALCULUS (H)**CRS #0238**

1 Credit Full Year 11, 12

Prerequisite: H Algebra II w/Trig (B- or better to be recommended) OR CP Algebra II w/ Trig (B+ or better and successful completion of summer contract)

This is an intensive course in the concept of functions: definitions, graphs, inverses, exponential, and logarithmic functions, with the emphasis on trigonometric functions and their application to real-world situations. This course previews calculus with a study of limits, introduction to derivatives and integrals, and sets the stage for the later study of college-level mathematics. TI 83/84 graphing calculators are used throughout this course.

CALCULUS**CRS #0245**

1 Credit Full Year 12

Prerequisite: CP Pre-Calculus (B- or better to be recommended)

This course is designed to provide a college-level Calculus I experience. Students will review and consolidate many pre-calculus topics. Conic sections from analytic geometry, and a review and extension of work done in trigonometry are part of this experience. This course covers derivatives and extends up to integration by parts. Labs will be used to enable students to develop and enrich classroom activities. TI 83/84 Graphing calculators are used throughout this course.

AP CALCULUS**CRS #0246**

1 Credit Full Year 12

Prerequisite: H Pre-Calculus (B- or better to be recommended)

Differentiation and integration of algebraic and transcendental functions are covered through integration by parts. Students are introduced to differential equations from an intuitive perspective. Concepts are emphasized in this course while skills are developed and ideas are applied to many problems. To help students visualize the concepts of calculus, TI 83/84 graphing calculators are essential to this course. Please refer to pages 6 and 7 for more information about AP courses. Participation in the Advanced Placement exam is an expectation of this course.

AP STATISTICS**CRS #0250**

1 Credit Full Year 12

Prerequisite: H Pre-Calculus (C+ or better) OR CP Pre-Calculus (B or better to be recommended)

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will study four broad conceptual themes: exploring data, planning a study, anticipating patterns and statistical inference. TI 83/84 graphing calculators and computers will be utilized in data analysis and simulation throughout the course. Participation in the Advanced Placement exam is an expectation of this course. Please refer to pages 6 and 7 for more information about AP courses.

FINANCIAL MATHEMATICS PART 1*CRS #0204**

0.5 Credit One Semester 11, 12

This course is designed to assist students in making the transition to financial literacy in the 21st century. Topics covered include: Bank Statements, Borrowing Money, Budgets, Checking Accounts, Credit, and Dining Out. This course stresses student involvement in gathering financial information as well as the computational aspects of determining where one's money goes.

FINANCIAL MATHEMATICS PART 2*CRS #0261**

0.5 Credit One Semester 11, 12

This course is designed to assist students in making the transition to financial literacy in the 21st century. Topics covered include: Grocery Shopping, Income, Income Tax, Insurance, Automobiles, Home Care, and Vacation Planning. This course stresses student involvement in gathering financial information as well as the computational aspects of determining where one's money goes.

TRIGONOMETRY**CRS #0265**

0.5 Credit One Semester 11, 12

Prerequisite: CP Algebra II

This course will provide an introduction to trigonometry through the study of right triangles, trigonometric graphs and models, identities and their applications. Emphasis on real life problems to be solved using the rules of trigonometry. TI 83/84 graphing calculators are recommended.

INTRODUCTION TO STATISTICS**CRS #0263**

0.5 Credit One Semester 11, 12

Prerequisite: CP Algebra II OR CP Algebra II w/ Trig

This course explores the role of statistics in our world through applications to a variety of fields. Students will use probability as a tool to make decisions about data. Technology, including TI-83/84 graphics calculators, will be used throughout the course to explore data.

DISCRETE MATH**CRS #0264**

0.5 Credit One Semester 11, 12

Prerequisite: CP Algebra II OR CP Algebra II w/ Trig

This course is designed to enhance students' reasoning skills to solve problems using a variety of non-algebraic mathematical tools, including algorithms, graphs, recursion, and counting methods. Topics explored include methods of voting, graph theory, number theory, fractals, combinatorics and finite probability.

COLLEGE MATH PREPARATORY**CRS #0266**

0.5 Credit One Semester 11, 12

Prerequisite: CP Algebra II

This course provides students the opportunity to develop as well as strengthen the skills and understanding that are essential for further mathematical study at the college level. Topics covered include linear and quadratic functions, exponents and radicals, exponential and logarithmic functions, rational algebraic expressions, systems of equations, and graphs with applications. This course is designed to prepare students for success on college math placement exams and in future math courses.

ADVANCED MATHEMATICAL DECISION MAKING*CRS #0253**

0.5 Credit One Semester 11, 12

Prerequisite: Algebra II

This course is designed to teach students how to use quantitative tools to solve problems in applied situations. This course engages students in relevant problems and prepares them for higher education and the workplace.

***MOBILE COMPUTER SCIENCE PRINCIPLES (MOBILE CSP)**

CRS #0267

1 credit Full Year 11, 12

Students learn computer science by building socially useful mobile apps. In addition to programming and computer science principles, Mobile CSP is project-based and emphasizes writing, communication, collaboration, and creativity. Students will learn computer science by building socially useful mobile apps as a creator and not just as a user. In addition to programming and computer science principles, the course is project-based and will emphasize writing, communication, collaboration, and creativity. Students will learn to code through using the "App Inventor" program.

***MATHEMATICAL PROBLEM SOLVING LAB**

CRS#0207

1 Credit Full Year 9 (recommendation by curriculum specialist only)

This course will provide instruction and support for students taking Algebra I with weak prerequisite skills to enhance their accessibility of the Algebra 1 course and curriculum. An emphasis will be placed on instruction using modeling, manipulatives, and real-life applications. Targeted instruction through the use of the Scholastic Math Inventory will be also be utilized as well as a computer based multi-modal algebra program and other online resources.

****MOBILE COMPUTER SCIENCE PRINCIPLES (AP APPROVAL PENDING)**

CRS #0268

1 credit Year-long course 11, 12

Prerequisite: Video Game Design and Computer Programming or approval from the instructor

This course is supported by the Mobile Computer Science Principles Project (Mobile CSP), a National Science Foundation (NSF) funded effort to provide a broad and rigorous introduction to computer science based on App Inventor, a mobile programming language for Android devices. Students learn computer science by building socially useful mobile apps. In addition to programming and computer science principles, the course is project-based and emphasizes writing, communication, collaboration, and creativity. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career.

MUSIC

Students will perform in at least two concerts throughout the year. **Attendance at all scheduled performances/concerts is required for academic credit.** In addition, some performance ensembles will participate in local or national adjudicated music festivals, regional competitions and/or workshops on an annual or biennial basis. If applicable, students are expected to pay for their own room and board. The school will provide some transportation expenses. Group fundraising opportunities are available. Members of all ensembles will incur expenses like, but not limited to, costumes and travel. Students enrolled in elite ensembles (Choral Spectrum, Wind Ensemble, Treble Choir, or Chamber Symphony Orchestra) may, with permission of the instructor, enroll in honors level courses their junior and/or senior year.

Vocal Ensembles

CHORAL SPECTRUM**CRS #0831****HONORS (11TH AND 12TH GRADE) CRS #0823**

1 Credit Full Year 9, 10, 11, 12

Prerequisite: Participation is by **audition only**. Auditions take place in January.

Choral Spectrum is an auditioned group comprised of approximately 36 singers. Placement in Choral Spectrum will be by audition only. Auditions take place in January. Repertoire will be chosen from various periods of music history with some songs choreographed by a professional choreographer. Three major concerts are usually presented each year, along with other selected performances. Attendance at all scheduled performances is expected for academic credit. Students will compete and /or perform in regional competitions, festivals, and/or workshops. Members of this ensemble will incur expenses like but not limited to costumes and travel. **All students in this class also must enroll in Smart Music. Go to www.smartmusic.com for details.**

TREBLE CHOIR**CRS #0822****HONORS (11TH AND 12TH GRADE) CRS #0825**

1 Credit Full Year 10, 11, 12

Prerequisite: Participation is by audition only. Auditions take place in January.

Treble Choir is an auditioned group of approximately 20-30 female singers. Placement in Treble Choir will be by audition that takes place in January. Repertoire will be chosen from all periods of music history. Two to three major concerts are normally presented each year, along with other selected performances. Students may compete and /or perform in regional competitions, festivals, and/or workshops. Attendance at all scheduled performances is expected for academic credit. Members of this ensemble will incur expenses like, but not limited to, costumes and travel. **All students in this class also must enroll in Smart Music. Go to www.smartmusic.com for details.**

“SOUND FACTORY” CONCERT CHORUS**CRS #0820**

1 Credit Full Year 9, 10, 11, 12

Sound Factory is open to all students regardless of musical background or experience. Students will expand their knowledge and appreciation of the best examples of all styles and forms of choral literature. Students will learn basic music theory to develop their music reading skills. Vocal production will be emphasized. Two to three major concerts are normally presented each year. Attendance at all scheduled performances is expected for academic credit. Sound Factory participation promotes teamwork and self-esteem and offers instruction to enable students to acquire skills and techniques necessary for effective musical expression. Unison, two, three, and four part music is performed including arrangements of classical, folk, jazz, show and popular songs. Students who are interested in developing a positive attitude and self-confidence and who enjoy working as a member of a team are encouraged to enroll in this course.

Instrumental Ensembles

Students will perform in two concerts throughout the year. **Attendance at all scheduled performances is required for academic credit.** In addition, some performance ensembles will participate in local or national adjudicated music festivals, competitions and/or workshops on an annual or biennial basis. If applicable, students are expected to pay for their own room and board. The school will provide some transportation expenses. Fundraising opportunities are

available and encouraged. Students enrolled in elite ensembles (Choral Spectrum, Wind Ensemble, Treble Choir, or Chamber Symphony Orchestra) may, with permission of the instructor, enroll in honors level courses their junior and/or senior year.

Students who participate in Instrumental Ensembles will need to purchase a year subscription to “SMARTMUSIC.” Each student will be given individualized instruction through this software. Weekly assignments will be assigned through SMARTMUSIC .

SYMPHONIC BAND

CRS #0826

1 Credit Full Year 9, 10, 11, 12

This ensemble is geared for proficient woodwind, brass, and percussion players. Students will concentrate on the basics of high school ensemble skills, aural skills, individual playing techniques, practice strategies, and effective musical expression, while preparing repertoire for the concert season. Attention is focused on the accurate and musical performance of standard band repertoire. Students may be recommended by the director for entrance into the Wind Ensemble based on their progress and the results of their midterm exam (both of which will act as their audition) as well as balance needs of the Wind Ensemble. **SMARTMUSIC required.**

WIND ENSEMBLE

CRS #0841

HONORS (11TH AND 12TH GRADE) CRS #0827

1 Credit Full Year 9, 10, 11, 12

Prerequisite: Enrollment is available by **Audition Only**. Auditions will be held in January

Open to advanced woodwind, brass, and percussion players by audition (or instructor permission) only. Students will concentrate on the development of ensemble skills, aural skills, individual playing techniques, and effective musical expression while preparing advanced repertoire for the concert season. Attention is focused on advanced repertoire, new music and classical transcriptions for wind ensemble and symphonic band. **SMARTMUSIC required.**

STRING ORCHESTRA

CRS #0817

1 Credit Full Year 9, 10, 11, 12

This ensemble is geared for proficient violin, viola, cello, and double bass string players. Students will meet as a large ensemble during the regularly scheduled period. Students will concentrate on the basics of high school ensemble skills, aural skills, individual playing techniques, practice strategies, and effective musical expression while preparing repertoire for the concert season. Attention is focused on the accurate and musical performance of standard string repertoire. Students are recommended by the director for entrance into the Chamber Symphony Orchestra based on their progress, midterm exam (both of which will act as their auditions) and the balance needs of the Chamber Orchestra. **SMARTMUSIC required.**

CHAMBER SYMPHONY ORCHESTRA

CRS #0842

HONORS (11TH AND 12TH GRADE) CRS #0838

1 Credit Full Year 9, 10, 11, 12

Prerequisite: Enrollment is available by **Audition Only**.

This ensemble is open to advanced string players violin, viola, cello, and double bass by audition (or instructor permission) only. Students will meet as a large ensemble during the regularly scheduled period. Students will concentrate on the development of ensemble skills, aural skills, individual playing techniques, practice strategies and effective musical expression, while preparing advanced repertoire for the concert season. **SMARTMUSIC required.**

Other Music Electives

THEATER MANAGEMENT I

CRS #0848

½ Credit

One Semester

9, 10, 11, 12

This course focuses on providing students with the knowledge necessary to operate a theater. Students will provide technical support for the sound and lighting systems; learn about the stage “fly system”, manage ticket sales; make equipment set-ups and take downs; and coordinate stage uses with school, community and professional organizations. Students will be expected to work outside scheduled classes, providing technical support for various concerts and shows presented at the high school, as well as support for South Windsor High School classes using the theater. This course is a prerequisite for Theater Management II.

THEATER MANAGEMENT II

CRS #0850

1 Credit

Full Year

10, 11, 12

Prerequisite: Placement exam and passage of Theater Management I with a grade of A- or instructor permission.

This course focuses students on applying technical knowledge learned in Theater Management I. Students will provide technical support for the sound and lighting systems; operate the stage “fly system”, manage ticket sales, make equipment set-ups and take downs; and coordinate stage uses with school, community and professional organizations. Students will be expected to work outside scheduled classes, providing technical support for various concerts and shows presented at the high school, as well as support for South Windsor High School classes using the theater. This course may be repeated for credit.

ELECTRIC GUITAR CLASS

CRS #0804

½ Credit

One Semester

9, 10, 11, 12

This class is intended for guitar students with any level of musical experience and focuses on teaching the skills needed to be life-long independent musicians. The lessons range from single-note melodies and simple chord strumming to rock and jazz solo with improvisation techniques. Student instruction incorporates cutting edge video and computer technology, allowing students to progress at their own pace and preparing students to create music, collaborate, record, and compose using the tools of the 21st century. This class runs concurrently with Digital Audio Editing. Students are encouraged to collaborate with Digital Audio students in an exchange of skills and creativity.

PIANO KEYBOARDING

CRS #0802

½ Credit

One Semester

9, 10, 11, 12

Piano keyboard class is offered to any level of playing from beginner to intermediate player. The course will be taught in our lab with each student developing a performance path for the semester.

DIGITAL AUDIO EDITING

CRS #0807

½ Credit

One Semester

9, 10, 11, 12

This class is intended for students interested in the world of MIDI and audio recording. No musical background is necessary. Students will explore various software programs that allow them to compose, arrange and perform music. Projects include, “Custom Synth Creation”, “Podcast” and “Music/Sound Effects for Movie Trailers”. The lab is equipped with MIDI drums, MIDI Keyboards and MIDI guitars. This class runs concurrently with Guitar Class. Students are encouraged to collaborate with Guitar students in an exchange of skills and creativity. No prior experience in music is required.

MUSIC THROUGH THE AGES

CRS #0803

½ Credit One Semester 10, 11, 12

This course will cover the origins of music as it relates to human evolution. It will cover many styles and cultures of music through time as well as some of the key composers and pieces that have left their mark on our human history.

MUSIC THEORY

CRS #0811

½ Credit Full Year 10, 11, 12

The first level of music theory is to develop theoretical musical skills through analysis, ear training and composition. It is pre-requisite for AP Music Theory.

AP MUSIC THEORY

CRS #0812

1 Credit Full Year 11, 12

The second level of music theory is offered by teacher recommendation only. Emphasis is placed on the in depth study of 18th century counterpoint and harmonic practice, advanced ear training and composition. This is a comprehensive, advanced music offering and is the equivalent of a college level music theory course. Students receive AP credit, and take the Advanced Placement exam in the spring. **All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.**

PHYSICAL EDUCATION AND HEALTH

PHYSICAL EDUCATION I

CRS#0980

½ Credit One Semester 9

All 9th graders are required to take this course. The course focuses on health-related fitness, skill development for lifetime activities, social skills and self-discipline. Students will also receive Red Cross training in basic First Aid and, for a fee, can receive their certification.

PHYSICAL EDUCATION II

CRS #0981

½ Credit One Semester 10

Prerequisite: Physical Fitness I

This is a required course designed for sophomores. This course focuses on health related fitness, skill development for lifetime activities, social skills and self-discipline. Students will also receive Red Cross training in CPR and AED and for a fee can receive their certification.

SOPHOMORE HEALTH

CRS #0985

½ Credit One Semester 10

All sophomores are required to take this course. This is a required course designed for sophomores. Students will learn constructive skills to improve their overall quality of health. Studies will include mental health, conflict management, growth and development, disease prevention, substance abuse education, nutrition and consumer health.

FITNESS AND NUTRITION

CRS #0987

½ Credit One Semester 11, 12

This course is an elective for students who have fulfilled their PE I and PEII requirements. This course requires personal training fitness and an in depth study of nutrition.

RACQUET SPORTS

CRS #0988

½ Credit One Semester 11, 12

This course is an elective for students who have fulfilled their PE I and PE II requirements. The focus will be entirely on racquet sports such as tennis and badminton. The focus will be entirely on racquet sports such as tennis, badminton, pickle ball, eclipse ball, and table tennis.

DANCE

CRS #0990

½ Credit One Semester 10, 11, 12

This course is an elective for students who have fulfilled their PE I requirement. This course can be substituted by sophomores to fulfill the PE II requirement. Students will learn various dance styles that may include, but are not limited to: Jazz, Hip Hop, Ballet and Ballroom Dancing.

UNIFIED SPORTS**CRS #0029**

½ Credit

One Semester

10, 11, 12

Unified Sports is an inclusive sports program that unites Special Olympics athletes (individuals with intellectual disabilities) and partners (individuals without intellectual disabilities) as teammates for training and competition. This course meets each day for the partners while the athletes will take part in class two of the four days. Partner students will research varying types of intellectual disabilities while planning and implementing physically and intellectually appropriate activities for athletes. This course also incorporates several “game” where Athletes/Partners travel to take part in game play competing against other schools who sponsor Unified Sports.

Health

These courses emphasize self-awareness, life skills, and the broad realm of interpersonal relationships.

FUTURE PARENTING**CRS #0940**

½ Credit

One Semester

11, 12

This course is designed to help students clarify the responsibilities of becoming future parents. Students will study issues such as fetal development, fertility, prenatal care, birth, and the stages of child development. The impact of effective and ineffective parenting skills on child development will also be studied.

FIRST AID AND CPR**CRS #0935**

½ Credit

One Semester

11, 12

This is a hands-on health course. Students will be trained and have an opportunity to become certified in infant, child and adult CPR. Students will also receive training in first aid and emergency care techniques. The training is through the American heart association and students can receive certification for a fee.

SPORTS MEDICINE**CRS #0983**

½ Credit

One Semester

11, 12

This course provides an opportunity for the study and application of the components of sports medicine including but not limited to: sports medicine related careers, organizational and administrative considerations, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise.

****DISEASE PREVENTION****CRS #0938**

½ credit

One Semester

11, 12

Prerequisite: Sophomore Health

This course is designed for the student who would like to learn about the prevention of diseases that can have debilitating and damaging effects on the human body. Topics to be covered include: chronic vs acute diseases, human immune system, allergies, common cold, sexually transmitted infections, cancers (heredity and lifestyle), diabetes, circulatory and respiratory diseases, hypertension, asthma, obesity, and nutrition, current local and global trends, Lyme disease, arthritis and anemia. Course work will integrate lecture, discussion, activities, and some experiments. This course is recommended for students interested in pursuing a medical profession such as nursing, physician or allied health.

****SENIOR SEMINAR**

CRS # _____

SCIENCE

Graduation requirements for all students are as follows:

3 credits in Science, including at least 1 credit in Life Science (Biology); and 1 credit in Physical Science. Courses are aligned with the state and national science frameworks to prepare students for the Science CAPT. **All 9th grade students are required to complete Physical Science.** It is recommended that students take Biology during their sophomore year to fully prepare for the Science CAPT. Each student, with the assistance of his/her school counselor and parents, should select a series of science courses that meets the above requirements and best serves his/her interests and plans.

Biological Science Courses

BIOLOGY

CRS #0342

1 Credit Full Year 10

This course is a traditional survey of the biological fields, including ecology, cell structure, biochemistry, genetics, the structure and function of living systems, energy relationships, and human biology. Experimentation and lab work is an integral part of the course at each level. This course is recommended for grade 10 students.

BIOLOGY (H)

CRS #0343

1 Credit Full Year 10

This course is offered for highly motivated students who intend to further their education after high school in the field of science. The concepts and topics correlate to College Prep Biology, however are covered much more in depth and at a quicker pace. In order to perform satisfactorily in this course, students will be required to solve problems using higher level processing skills such as analysis and application of material and have established study skills.

AP BIOLOGY

COURSE CRS #0345

LAB CRS #0346

1.5 Credits Full Year 10, 11, 12 (Grade 10 with recommendation of current science teacher)

AP Biology is a college level science course for highly motivated students interested in the biological sciences. The two main goals for AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. The following major themes will be studied: molecular and cell biology, heredity, genetics, the diversity of organisms, the structure and function of plants and animals, and population biology. Students taking AP Biology will participate in two double lab periods per week. All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.

INTRODUCTION TO ALLIED HEALTH – ALLIED HEALTH I

CRS #0369

1 Credit

Full Year 11, 12

Prerequisite: Successful completion of Biology

This course is designed as a survey course of the field of Allied Health. This course will focus on a variety of health care professions and the ailments associated with those areas. Patient care practices, ethical and legal issues, educational requirements and employment opportunities will be explored. This course is recommended for students interested in pursuing a medical profession such as nursing, physician, physical therapists or other allied health professions.

ANATOMY AND PHYSIOLOGY

CRS #0303

1 Credit

Full Year

11, 12

Prerequisite: Successful completion of biology and concurrent enrollment or completion of chemistry is required.

This course emphasizes the structure and function of the human body. The major topics to be studied include anatomical reference terminology, levels of body organization, tissues and selected organ systems from integumentary, skeletal, muscular, nervous, blood, cardiovascular, respiratory, digestive, urinary, endocrine, and reproductive. Students have some input regarding the systems covered. This course is recommended for students interested in medicine, nursing and other health related fields. It is open to juniors and seniors, with priority seating given to seniors, and juniors admitted as space permits.

FRESHWATER ENVIRONMENTS

CRS #0323

½ Credit

One Semester

11, 12

This course is designed to give students an understanding of the interactions between the aquatic systems of the Earth (groundwater, rivers, lakes, ponds, and associated wetlands) and human activity. Students will explore freshwater systems through direct observation, physical & biological data collection on local streams, and wetland field studies. Students will also participate in and ultimately submit data to the CT DEEP's Project SEARCH to continue our ongoing data collection on the Podunk River.

INTRODUCTION TO ZOOLOGY

CRS #0357

½ Credit

One Semester

11, 12

Introduction to Zoology is a one semester, half credit course open to junior and senior students who have taken Biology. It will take students through the basic taxonomy of vertebrate animals, focusing on various anatomical and life cycles differences, as well as outlining basic behavior of selected taxa. An emphasis will be placed on organisms students are likely to encounter in their daily lives, as opposed to exotic species.

MARINE SCIENCE (ECE)

CRS #0337

1 Credit Full Year 12

Prerequisites - Successful completion of Biology and Chemistry or permission from the instructor.

ECE Marine Science-UCONN MARN 1003: Introduction to Oceanography with lab is designed to provide students with an in-depth study of marine organisms and their environment. Topics include but are not limited to comparative anatomy through dissection, marine chemistry, marine geology, marine circulation and tides, coastal ecology, aquaculture, and marine environmental policy. Students will maintain living organisms in aquaria, keep a detailed logbook of their progress, create experiments, and produce a portfolio of student work. There will be six (6) required dissections during the course. There are two required field trips to Long Island Sound to collect data for a multiyear study. Additional optional field trips may be offered. Students must be enrolled in the ECE program and achieve a grade of “C” or higher in the course to receive AP level weighting and credit for UCONN MARN 1003: Introduction to Oceanography with lab.

ENVIRONMENTAL SCIENCE (ECE)

CRS #0340

1 Credit Full Year 11, 12

Environmental Science is designed to present a study of the earth’s environment with a focus on sustainability and stewardship of our natural resources. Topics will include: Population & energy resource use; Ecosystems and Global biodiversity, land use and soils; Agriculture, toxicology and risk assessment; Water & Air management; Waste management; Global change; and Environmental philosophy & ethics. Course credits from the ECE/UConn program are also available to qualified students as UCONN NRE 1000: Introduction to Environmental Science.

Physical/Earth Courses

ASTRONOMY

CRS #0315

½ Credit One Semester 11, 12

This course provides students with a general survey of contemporary astronomy. The topics explored may include the origin of the universe and the solar system, stellar evolution, meteorite impacts, human space exploration, living and working in space, the colonization of Mars and the possibility of extraterrestrial life.

GEOLOGY

CRS #0316

½ Credit One Semester 11, 12

This course provides students with a survey of modern geologic concepts. The topics explored may include but not be limited to the study of: geologic hazards, plate tectonics, the identification of rocks and minerals, weathering and erosion, glaciations, geological history and mining for natural resources.

METEOROLOGY

CRS #0355

½ Credit One Semester 11, 12

This STEM elective provides students with a survey of meteorological concepts and a general understanding of the phenomena we refer to as weather. The topics may include but not limited to the study of the atmosphere, climate, changing climates, air pollution, hazardous weather, optical phenomena, and weather analysis and forecasting.

***SCIENCE OLYMPIAD**

CRS #0367

1 Credit Full year 9, 10, 11, 12

This course will assist a student to explore a competitive aspect of different fields of science. It will cover all areas of science and curriculum will change yearly based on national competitions. Some of these competitions could include Science Olympiad, CT Science Fair, The Dupont Challenge Essay or the Intel Science Competition. Students will focus on problem solving skills, technical design, engineering skills, teamwork in an academic setting and scientific writing skills. Students participating in this class may be eligible for the SWHS Science Olympiad team that will compete at the state level.

FORENSIC SCIENCE

CRS #0335

½ Credit One Semester 11, 12

This class is designed for students with an interest in forensics. It is a multidisciplinary applied science course, which reinforces central concepts introduced in grades 9 and 10. In this course, study will focus on forensic science concepts: abilities to perform inquiry; basic criminal law; crime scene investigation; DNA analysis and blood typing; examining evidence; fingerprinting; science and humanity; and the nature of toxins. The primary emphasis will be to develop understanding of these concepts through hands-on, field inquiry.

***CONSUMER CHEMISTRY**

CRS #0356

1 Credit Full Year 11, 12

This class connects chemistry to the student's life and interests. Students will have a great deal of input over the phenomenon used to investigate the practical applications of chemistry. Lectures, discussions, activities, and internet research will be used to explore a wide variety of topics. Past topics include: the chemistry of toothpaste, cosmetics, soaps, foods, fabrics, toys, paints, volcanoes, plastics, rockets, elephant toothpaste, balloons, and alchemy. No previous chemistry background is required. This is an integrated course that incorporates lectures, discussions, activities, and experiments. Students will access chemistry primarily through engineering and modeling, while limiting the need for mathematics. This course satisfies one year of laboratory science requirement. Due to the general nature of this class, it should not be considered a replacement for chemistry.

CHEMISTRY

CRS #0311

1 Credit Full Year 11, 12

Prerequisite: Algebra II (completed or concurrent) or recommendation of current science teacher

This introductory course deals with the basic theoretical and experimental principles of chemistry. Topics of study include the states of matter and their characteristics, atomic structure, bonding, gas laws, writing formulas and chemical equations, chemical calculations (Stoichiometry) and the mole concept, reaction rate and equilibrium, and acid/base theory. Lab activities are an integral part of the course.

CHEMISTRY (H)

CRS #0312

1 Credit Full Year 11, 12

Prerequisite: Algebra II w/ Trigonometry (completed) or recommendation of current science teacher

This course is a detailed study of theoretical and experimental principles of chemistry with an emphasis on the quantitative (mathematical) interpretation of the material covered. In-depth coverage of the following topics makes up the course of study: measurements and calculations, atomic structure, bonding, chemical calculations and the mole concept, kinetic molecular model for the behavior of gases, phases and phase changes of matter, chemical formulas and reactions, chemistry of solutions, chemical kinetics, chemical equilibrium, acid and base theory, and an introduction to oxidation-reduction chemistry. Lab activities, involving student participation in the design of the lab procedures, emphasize a practical application of the textbook material.

AP CHEMISTRY**COURSE CRS #0347****LAB CRS #0348**

1.5 Credits

Full Year

11, 12

Prerequisite: Algebra II w/ Trigonometry (Honors - completed, or recommendation of current science teacher)

AP Chemistry is a college level course for highly motivated students. Students taking AP Chemistry will participate in two double lab periods each week. The course is designed to prepare students for the AP Chemistry exam offered in the spring. The following major themes will be studied: atomic structure and reactivity, periodic table, acids and bases, electrochemistry, and why chemical reactions occur – chemical equilibrium, thermo chemistry and kinetics. For more information about AP courses, please refer to page 5. All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.

PHYSICS**CRS #0313**

1 Credit

Full Year

11, 12

Prerequisite: Algebra II-completed

This course is an in-depth study in the following areas: one and two dimensional motion, mechanical energy, wave motion and sound, light and optics, and electricity. Students will participate in a wide variety of laboratory experiences in order to develop their own models of various physical phenomena. Students will also develop problem-solving skills and apply these skills to original problems. MCC Tech Prep credit available. Students who enroll in the College Career Pathways program and earn a “C” or better in this course will receive college credit from Manchester Community College, transferable to UConn and many other colleges, for Manchester Community College’s introductory physics course.

PHYSICS (H)**CRS #0314**

1 Credit

Full Year

11, 12

Prerequisite: Algebra II – completed, Pre-Calculus - completed or concurrent and recommendation of current science teacher.

This course is an in-depth study in the following areas: one and two dimensional motion, mechanical energy, wave motion and sound, light and optics, and electricity. Students will participate in a wide variety of laboratory experiences in order to develop their own models of various physical phenomena. Students will also develop problem-solving skills and apply these skills to original problems. Students who enroll in the College Career Pathways program and earn a “C” or better in this course will receive college credit from Manchester Community College, transferable to UConn and many other colleges, for Manchester Community College’s introductory physics course.

AP PHYSICS I**COURSE CRS #0358**

1.5 Credits Full Year 12

Prerequisite: Pre- Calculus completed and recommendation of current science teacher.

AP Physics I is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound; and an introduction to electric circuits. The primary goal of the course is to develop the student's understanding of these topics through a problem-solving approach that relies on the use of algebra and trigonometry as well as through inquiry-based lab activities. This course will prepare students for the AP Physics I exam. Students taking AP Physics I will participate in two double lab periods each week. For more information about AP courses, please refer to page 5. **All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.** Students who are enrolled in the ECE program and achieve a grade of "C" or higher in the course will receive credit for UCONN PHYS1201Q: General Physics I.

AP PHYSICS - C

COURSE - CRS #0351

LAB CRS #0352

1.5 Credits Full Year 12

Prerequisite: Pre-Calculus - completed and recommendation of current science teacher. **Student must be concurrently enrolled in Calculus.**

AP Physics C is a fast-paced, college-level course that focuses on mechanics in the fall semester and electricity and magnetism in the spring semester. The primary goal of the course is to develop the student's understanding of these topics, predominantly through a problem solving approach that relies on the use of algebra, trigonometry, and calculus. This course will prepare students for both the AP Physics C – Mechanics exam as well as the AP Physics C – Electricity and Magnetism exam. Students taking AP Physics C will participate in two double lab periods in each week. For more information about AP courses, please refer to page 5. **All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.**

PHYSICAL SCIENCE

CRS #0362

1 Credit Full Year 9

In this course, students will improve their ability to pose questions, design/perform experiments, analyze data, and develop an understanding of fundamental physical science concepts. The course will be aligned with the newly adopted Next Generation Science Standards (NGSS). This year will focus on a comparison of the systems found on Earth and Mars by exploring Newton's laws, Kepler's laws, energy systems and natural resources. All successful students will earn one credit in Physical/Earth Science.

PHYSICAL SCIENCE (H)

CRS #0363

1 Credit Full Year 9

In this course, students will improve their ability to pose questions, design/perform experiments, analyze data, and develop an understanding of fundamental physical science concepts. The course will be aligned with the newly adopted Next Generation Science Standards (NGSS). This year will focus on a comparison of the systems found on Earth and Mars by exploring Newton's laws, Kepler's laws, energy systems and natural resources. All successful students will earn one credit in Physical/Earth Science. In the Honors level course, students are expected to do more in-depth work, have greater mathematical ability, and think abstractly.

****FOOD CHEMISTRY****CRS #0370**

1 Credit Full Year 12

Prerequisite: Successful completion of Chemistry

A study of the chemical and physiochemical properties of food constituents. A comprehensive study of food components, their modification, and technology applications in food. A hands-on class with challenging readings from scientific journals. The course incorporates concepts learned in chemistry and biology in an advanced learning environment. Topics will include extraction, denaturation, and phase changes. Some of the concepts that will be explored are acids and bases in cooking, caffeine's main targets in the body and how coffee can be decaffeinated, the biochemical reason for chocolate enjoyment, and what happens if your body can't digest gluten. Each week we will do an edible experiment and look at the science behind how it works.

****APPLICATIONS OF PHYSICS**

1 Credit Full Year 11, 12

Prerequisite: Algebra II with Trig -completed or concurrently enrolled

This physics based course will require students to engage in the principles and practices of Science, Technology, Engineering, and Mathematics (STEM). Students will engage in a wide variety of STEM based activities in the areas of mechanical energy, wave motion and sound, light and optics, electricity, and magnetism. Students will take part in engineering tasks and STEM challenges where they will learn the fundamentals of physics through real world situations and application.

SOCIAL STUDIES

Graduation requirements for all students are as follows:

- 3 credits in Social Studies, including at least 1 credit in U.S. History and .5 credit in Civics/Government.
- **Modern World History is required for all 9th graders.** *Modern World History is the pre-requisite course for U.S. History in 10th grade.*

The Social Studies Department of South Windsor High School offers a wide range of courses from which students may select according to individual needs, interests and aptitudes. It is important that you read the course descriptions carefully so that you make the best decisions. All of the courses in the Social Studies Department are intended to be college preparatory classes, unless noted as honors or advanced placement. The successful completion of three full credits is required for graduation. Students may not take both Sociology and Economics at the honors level.

SOCIAL STUDIES –REQUIRED COURSES

MODERN WORLD HISTORY**CRS #0417****HONORS- #0418**

1 Credit Full Year 9

The central purpose of this course is to provide students with an understanding of how world civilization has evolved during the last three hundred years. Units of study include The Age of Revolutions, Global Imperialism, World Conflicts, and Contemporary Global Issues. The culminating assessment for this last

unit of study will be a United Nations simulation in which all students will be required to research a contemporary world issue and propose possible solutions. Students will be called upon to think as geographers, economists, historians, and political scientists as they explore and integrate these topics. Sensitivity for the cultural diversity and commonality of the people of the world will be emphasized throughout this course.

SOPHOMORE COURSE:

CRS #0423

UNITED STATES HISTORY

HONORS CRS #0424

1 Credit Full Year 10

This course will focus on United States History from post-Reconstruction to the present. Topics of study include: Industrialization, Becoming a World Power, Roaring '20's to the New Deal, Civil Rights, Cold War and the Age of Globalization. The course will allow students to think critically about the vital issues that face them as U.S. citizens. To achieve this goal, students will develop competence in chronological thinking, historical comprehension of primary and secondary sources, historical research, interpretation and justifying their point of view through oral and written expression.

***AMERICAN STUDIES**

CRS #0414

1 credit Full Year 10

This course offers designated students the opportunity to be instructed strategically in literacy skills according to their individual needs. It is focused on the reading, writing and responding to fiction and non-fiction texts required by the Common Core State Standards for English Language Arts. Students will spend approximately half of their time working with a variety of texts which support the U.S. History curriculum and the other have working on skills and concepts within the tenth grade language arts curriculum. (by special arrangement)

JUNIOR COURSE:

CRS #0471

CIVICS AND AMERICAN GOVERNMENT

HONORS CRS #0472

½ Credit One Semester 11

This course will begin with an examination of the foundations of the U.S. government, a study of the Constitution and Bill of Rights, and then focus on citizenship, voting, the branches and structure of government, and policy decisions. Finally, students will study state and local government and the rights and responsibilities of citizenship. Students will be required to use their knowledge to research a contemporary governmental issue at the local, state, or national level and address it by engaging in a civic participation project which involves writing a formal research paper.

SOCIAL STUDIES – ELECTIVE COURSES

AP UNITED STATES HISTORY

CRS #0425

1 Credit Full Year 10, 11, 12

This advanced placement course is a thorough examination of the scope and sequence of United States history. Some of the areas of concentration include American culture, economic transformations, environment and globalization, politics, government and military conflicts. The course will provide students with the opportunity to analyze problems and successes in American history and to arrive at conclusions based on research and factual evidence. This course

fulfills the United States History graduation requirement. All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.

AP AMERICAN GOVERNMENT AND POLITICS**CRS #0468**

1 Credit Full Year 11, 12

This AP course is a thorough study of the United States government – its functions, its limitations and advantages, and its future as a government. Philosophical influences, historical experiences, and contemporary ramifications, studied through primary sources, will provide students with an in-depth understanding of our American political philosophy, our role in the world, and our own domestic issues. Independent research, formal term papers and involvement in a national competition on the Constitution and the Bill of Rights are course requirements. Extensive summer reading and writing are required. This course fulfills the Civics and American Government graduation requirement. All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.

AP EUROPEAN HISTORY**CRS #0479**

1 Credit Full Year 11, 12

AP European History covers the time period from 1450 C.E. to the present day. Examples of historic periods under study include the Renaissance, the Protestant Reformation, the Age of Absolutism, the Enlightenment, the Age of Revolutions, the Industrial Revolution, Imperialism, the World Wars, the Cold War, and the present day. Specific categories under analysis within these periods will include intellectual and cultural history, political and diplomatic history, and social and economic history. The goals of this course are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.

AP PSYCHOLOGY**CRS #0428**

1 Credit Full Year 11, 12

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Students will complete Independent research, formal term papers and extensive summer work. All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.

INTRODUCTION TO PSYCHOLOGY**CRS #0429**

½ Credit One Semester 11, 12

An introduction to psychology is the study of individual behavior and cognition. Through the examination of various psychological theories and perspectives, students develop a greater understanding of why people think and act as they do. The study of psychology provides insights into one’s attitudes, feelings and actions. Selected topics of study include the principles of learning, the process of memory and thinking, the interaction of sensation and perception, personality development, and the investigation of various mental disorders and therapies.

SOCIOLOGY: UNDERSTANDING SOCIETY**CRS #0433**

The focus of this course is on becoming involved with organizations such as the CIA, the FBI, ATF, Homeland Security, military service, or other national protection agencies. Students will study the functions these bodies serve and will research the means by which they could enter service on a national level. The content of study of this course will be dictated by student interest and will emphasize research and writing skills.

ADVANCED DRAWING**CRS# 0704**

½ Credit One Semester 10, 11, 12

Prerequisite: Intermediate Drawing

Students will refine their skills and explore more advanced problems with emphasis on creative interpretation and imagery, enabling them to explore and design personal expression. Individual and weekly group critiques. Preliminary plans and sketches are required. A student may sign up for INTERMEDIATE/ADVANCED DRAWING in the same year. ADVANCED DRAWING may be taken multiple times for credit. Course follows the Advanced Portfolio list.

INTRODUCTION TO PAINTING**CRS #0707**

½ Credit One Semester 9, 10, 11, 12

Prerequisite: Introduction to Drawing is recommended but not required.

Students learn about the essential elements of painting through color theory and its applications. Students will become acquainted with a broad range of painting techniques as well as the use and care of the painting tools and materials. Tempera, watercolor, and acrylics will be used. Individual and weekly group critiques. Preliminary plans and sketches are part of the creative process and are required. A student may sign up for INTRODUCTION TO PAINTING and INTERMEDIATE PAINTING in the same year.

INTERMEDIATE PAINTING**CRS #0709**

½ Credit One Semester 9, 10, 11, 12

Prerequisite: Introduction to Painting

The focus of this studio course is composition and technique. Through the study of various art periods and schools of thought, students are encouraged to experiment with styles, techniques, and color schemes. Composition, rendering skills, craftsmanship and originality of thought will be emphasized. Acrylics, watercolors, and mixed media may be used. Individual and weekly group critiques. Preliminary plans and sketches are part of the creative process and are required. A student may sign up for INTERMEDIATE PAINTING and ADVANCED PAINTING in the same year.

ADVANCED PAINTING**CRS #0708**

½ Credit One Semester 10, 11, 12

Prerequisite: Intermediate Painting

Students will develop their painting skills with a variety of media; they will explore more advanced problems with emphasis on creative interpretation and imagery. Acrylics, watercolors, oils and mixed media may be used. Individual and weekly group critiques. Preliminary plans and sketches are part of the creative process and are required. A student may sign up for INTERMEDIATE PAINTING and ADVANCED PAINTING in the same year. ADVANCED PAINTING may be taken multiple times for credit. Course content follows the Advanced Portfolio list.

appropriate). Preliminary plans and study are part of the creative process and are required. Students will reflect on their work and the work of their peers. A student may sign up for INTERMEDIATE POTTER'S WHEEL and ADVANCED POTTER'S WHEEL in one year.

ADVANCED POTTER'S WHEEL**CRS #0719**

½ Credit One Semester 10, 11, 12

Prerequisite: Intermediate Potter's Wheel

Students will explore more advanced problems in pottery with emphasis on creative interpretation and imagery, enabling them to explore and design their personal expression. A sketchbook is required. Instruction includes other approaches to decorating, glazing and firing pottery. Emphasis will be on craftsmanship, design, producing functional pottery (when appropriate), exploration and experimentation. Preliminary plans and study are part of the creative process and are required. Students will reflect on their work and the work of their peers. A student may sign up for INTERMEDIATE POTTER'S WHEEL and ADVANCED POTTER'S WHEEL in one year. ADVANCED POTTER'S WHEEL may be taken multiple times for credit. Course content follows the Advanced Portfolio List.

INTRODUCTION TO CREATIVE METALS**CRS #0721**

½ Credit One Semester 9, 10, 11, 12

Students will design and create jewelry and/or sculpture with metals such as sterling silver, brass, copper, nickel-silver and Nu-Gold. Students will learn basic construction techniques of cutting with a jeweler's saw, forming, soldering with a propane torch, finishing with high speed rotary tool and simple stone setting. Emphasis will be placed on craftsmanship. Projects may include rings, earrings, bracelets, pendants, as well as sculpture. Preliminary plans and study are part of the creative process and are required. Students will reflect on their work and the work of their peers. A student may sign up for INTRODUCTION TO CREATIVE METAL and INTERMEDIATE CREATIVE METAL Studio in the same year.

INTERMEDIATE CREATIVE METALS**CRS #0724**

½ Credit One Semester 9, 10, 11, 12

Prerequisite: Introduction to Creative Metals

Students will develop their skills and techniques using previously learned in Introduction to Creative Metals and try new techniques such as chain making, texture and using resins. Emphasis will be on design and craftsmanship. Students will continue to increase their skills and develop a style with working with metals projects based on his/her interests. Preliminary plans and study are part of the creative process and are required. Students will reflect on their work and the work of their peers. A student may sign up for INTERMEDIATE CREATIVE METALS and ADVANCED CREATIVE METALS in one year.

ADVANCED CREATIVE METALS**CRS #0722**

½ Credit One Semester 10, 11, 12

Prerequisite: Intermediate Creative Metals

Students will refine their skills and develop new techniques to produce more sophisticated pieces. Students may combine metals and other materials to continue to develop their own style through a more personal approach by choosing more sophisticated metals projects based on his/her interests. Preliminary plans and study are part of the creative process and are required. Students will reflect on their work and the work of their peers. Emphasis will be on design

Prerequisite: Successful completion of French 1, and/or Middle School French, with teacher recommendation

This course is designed to further develop the language skills acquired in French I. This course will be conducted in French as much as possible and students will be expected to use French in class as the primary language of communication. Vocabulary and grammar appropriate to this level of study is presented in French and developed through the use of authentic listening exercises, visuals and videos on a variety of cultural themes.

FRENCH 2 (H)

CRS #0503

1 Credit Full Year 9, 10, 11, 12

Prerequisite: Successful completion of French 1 and/or Middle School French, with teacher recommendation

This course is an honors course open to students who receive the recommendation of their French I teacher. This course will be conducted in French and students will be expected to use French in class as the primary language of communication. Vocabulary and grammar appropriate to this level of study is presented in French and developed through the use of authentic listening exercises on a variety of cultural themes.

FRENCH 3

CRS #0504

1 Credit Full Year 10, 11, 12

Prerequisite: Successful completion of French 2, with teacher recommendation

This course continues to develop language functions learned and emphasizes fluency in speaking, reading, writing and listening. This course is conducted in French and students will be expected to use French in class as the primary language of communication. Vocabulary and grammar appropriate to this level of study is presented in French and developed through the use of authentic listening exercises on a variety of cultural themes.

FRENCH 3 (H)

CRS #0505

1 Credit Full Year 10, 11, 12

Prerequisite: Successful completion of French 2, with teacher recommendation

This is an honors course open to students who have received the recommendation of their French II teacher. This course is conducted in French and students will be expected to use French in class as the primary language of communication. Vocabulary and grammar appropriate to this level of study is presented in French and developed through the use of authentic listening exercises on a variety of cultural themes.

FRENCH 4

CRS #0506

1 Credit Full Year 11, 12

Prerequisite: Successful completion of French 3, with teacher recommendation

This course focuses on conversation, reading, writing, language functions and francophone culture. Guided conversations and discussions will be used both as learning activities and assessments. This course will be conducted in French and students will be expected to use French in class as the primary language of communication. It is the intent of this course to help students consolidate their knowledge of the French language as a communicative skill and to broaden their understanding of francophone cultures.

FRENCH 4 (H)

CRS #0507

1 Credit Full Year 11, 12

Prerequisite: Successful completion of French 3, with teacher recommendation

This is an honors course open to students who have received the recommendations of their French III teacher. This course focuses on conversation, reading, writing, language functions and francophone culture. Guided conversations and discussions will be used both as learning activities and assessments. This course will be conducted in French and students will be expected to use French in class as the primary language of communication. It is the intent of this course to help students consolidate their knowledge of the French language as a communicative skill and to broaden the base of their understanding of the culture of French speaking people.

FRENCH 5

CRS #0508

1 Credit Full Year 12

Prerequisite: Successful completion of French 4, with teacher recommendation

The four skills of listening, reading, writing and speaking will continue to be enhanced and enriched as students embark on a culturally enriched tour of Francophone countries. This course will be conducted in French and students will be expected to use French in class as the primary language of communication. Students will produce written and oral artifacts with all of the functions of language that they have learned previously in real life situational activities and assessments.

AP FRENCH LANGUAGE AND CULTURE

CRS #0513

1 Credit Full Year 12

Prerequisite: Successful completion of French 4

This course is intended for students wishing to pursue French at an AP level. Students are exposed to written and spoken French on a variety of topics and will also present information and ideas using spoken and written French to an audience. Students develop an understanding and appreciation of various aspects of the cultures of the French speaking world. Film, books, newspapers, music, traditions, and cultural values will be studied. **All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.**

ITALIAN 1

CRS #0550

1 Credit Full Year 9, 10, 11, 12

No prerequisites

This course is designed as an introduction to the Italian language and culture. Students will practice speaking, listening, reading, and writing in a cultural context. Vocabulary appropriate to this level of study is developed through the use of authentic listening exercises, visuals and videos on a variety of cultural themes. Study skills which enhance language learning are emphasized.

ITALIAN 2 (H)

CRS #0554

1 Credit Full Year 10, 11, 12

Prerequisite: Successful completion of Italian 1, with teacher recommendation

This course is designed to further develop the language skills acquired in Italian I. This course will be conducted in Italian and students will be expected to use Italian in class as the primary language of communication. Vocabulary and grammar appropriate to this level of study is presented in Italian and developed through the use of authentic listening exercises, visuals and videos on a variety of cultural themes. Students will also study various aspects of the Italian culture.

ITALIAN 3 (H)**CRS #0555**

** Please note that this course will only run with sufficient student interest*

1 Credit Full Year 11, 12

Prerequisite: Successful completion of Italian 2, with teacher recommendation

This course continues to develop language functions learned and emphasizes fluency in speaking, reading, writing and listening. This course is conducted in Italian and students will be expected to use Italian in class as the primary language of communication. Vocabulary and grammar appropriate to this level of study is presented in Italian and developed through the use of authentic listening exercises on a variety of cultural themes. Students will study various aspects of the Italian culture around the world.

ITALIAN 4 (H)**CRS #0553**

** Please note that this course will only run with sufficient student interest*

1 Credit Full Year 11, 12

Prerequisite: Successful completion of Italian 3, with teacher recommendation

This course focuses on conversation, reading, writing, language functions and Roman culture. Guided conversations and discussions will be used both as learning activities and assessments. This course will be conducted in Italian and students will be expected to use Italian in class as the primary language of communication. It is the intent of this course to help students consolidate their knowledge of the Italian language as a communicative skill and to broaden their understanding of modern Italian culture.

LATIN 1**CRS #0521**

1 Credit Full Year 9, 10, 11, 12

No prerequisites

This course provides the foundation for the acquisition of the Latin language with the goal of eventually reading the literary masterpieces of the ancient Romans. Students are introduced to basic Latin grammar, syntax, and vocabulary within the rich context of mythology, history, and culture. Proficiency is developed through memorization, and extensive practice in reading, translation, and composition.

LATIN 2 (H)**CRS #0525**

1 Credit Full Year 10, 11, 12

Prerequisite: Successful completion of Latin 1, with teacher recommendation

Beginning where Latin 1 left off, students continue to study the remaining elements of Latin grammar and syntax. Vocabulary continues to be built. Reading, translation, and composition skills continue to be emphasized. Grammar work is still presented in the context of Classical history, mythology, and culture. As

they complete the grammar, students make the transition from reading adapted Latin to studying authentic Roman literary works from authors like Petronius, Catullus, or Caesar.

LATIN 3 (H)**CRS #0523**

1 Credit Full Year 11, 12

Prerequisite: Successful completion of Latin 2, with teacher recommendation

This course is an exploration of Latin lyric, elegiac, and epic poetry. Emphasis is placed on refining translation and literary interpretation skills by reading selections from the literary works of Roman authors like Catullus, Ovid and Horace. Attention is also given to the historical and cultural backgrounds of the works studied, metrics, rhetorical devices, and figures of speech, as well as to Classical literary criticism and scholarship, and the modern legacy of such works.

LATIN 4 (H) / (ECE)**CRS #0528**

1 Credit Full Year 12

Prerequisite: Successful completion of Latin 3, with teacher recommendation

Students continue developing facility with analyzing, interpreting, and translating Latin literature by closely reading Vergil's epic masterpiece, the *Aeneid*. Students closely study the mythological, historical and cultural background of the work (such as the Trojan War and the rise of Augustus), the poetic techniques of the author, and secondary scholarship. This is a UCONN Early College Experience course, meaning that students can be concurrently enrolled at UCONN and earn transferrable college credits. Students must be enrolled in the ECE program and achieve a grade of "C" or higher in the course to receive AP level weighting and credit.

SPANISH 1**CRS #0531**

1 Credit Full Year 9, 10, 11, 12

No prerequisites

This course is designed as an introduction to the Spanish language and Hispanic cultures. Students will practice speaking, listening, reading, and writing in a cultural context. Vocabulary appropriate to this level of study is developed through the use of authentic listening exercises on a variety of cultural themes. Study skills which enhance language learning are emphasized. Students must achieve no lower than a C- to be able to continue in the course sequence.

SPANISH 2**CRS #0532**

1 Credit Full Year 9, 10, 11, 12

Prerequisite: Successful completion of Spanish 1 and/or middle school Spanish, with teacher recommendation

This course is designed to further develop the language skills acquired in Spanish I. This course will be conducted in Spanish and students will be expected to use Spanish in class as the primary language of communication. Vocabulary and grammar appropriate to this level of study is presented in Spanish and developed through the use of authentic listening exercises on a variety of cultural themes.

SPANISH 2 (H)**CRS #0533**

1 Credit Full Year 9, 10, 11, 12

Prerequisite: Successful completion of Spanish 1 and/or middle school Spanish, with teacher recommendation

This course is an honors course open to students who receive the recommendation of their Spanish I teacher. This course will be conducted in Spanish and students will be expected to use Spanish in class as the primary language of communication. Vocabulary and grammar appropriate to this level of study is presented in Spanish and developed through the use of authentic listening exercises on a variety of cultural themes.

SPANISH 3**CRS #0534**

1 Credit Full Year 10, 11, 12

Prerequisite: Successful completion of Spanish 2, with teacher recommendation

This course is conducted in Spanish and students will be expected to use Spanish in class as the primary language of communication. Vocabulary and grammar appropriate to this level of study is presented in Spanish and developed through the use of authentic listening exercises on a variety of cultural themes.

SPANISH 3 (H)**CRS #0535**

1 Credit Full Year 10, 11, 12

Prerequisite: Successful completion of Spanish 2, with teacher recommendation

This is an honors course open to students who have received the recommendation of their Spanish II teacher. This course will be conducted entirely in Spanish and students will be expected to use Spanish in class as the primary language of communication. Vocabulary and grammar appropriate to this level of study is presented in Spanish and developed through the use of authentic listening exercises on a variety of cultural themes.

SPANISH 4**CRS #0536**

1 Credit Full Year 11, 12

Prerequisite: Successful completion of Spanish 3, with teacher recommendation

This course focuses on conversation, reading, writing, language functions and Hispanic cultures. Guided conversations and discussions will be used both as learning activities and assessments. This course will be conducted in Spanish and students will be expected to use Spanish in class as the primary language of communication. It is the intent of this course to help students consolidate their knowledge of the Spanish language as a communicative skill and to broaden the base of their understanding of various Hispanic cultures.

SPANISH 4 (H)**CRS #0537**

1 Credit Full Year 11, 12

Prerequisite: Successful completion of Spanish 3, with teacher recommendation

This is an honors course open to students who have received the recommendations of their Spanish III teacher. This course focuses on conversation, reading, writing, language functions and Hispanic cultures. Guided conversations and discussions will be used both as learning activities and assessments. This course will be conducted in Spanish and students will be expected to use Spanish in class as the primary language of communication. It is the intent of this course to

help students consolidate their knowledge of the Spanish language as a communicative skill and to broaden the base of their understanding of various Hispanic cultures.

SPANISH 5**CRS #0538**

1 Credit Full Year 12

Prerequisite: Successful completion of Spanish 4, with teacher recommendation

The four skills of listening, reading, writing and speaking will continue to be enhanced and enriched as students embark on a culturally enriched tour of Hispanic countries. This course will be conducted in Spanish and students will be expected to use Spanish in class as the primary language of communication at the intermediate high level. Students will produce written and oral artifacts with all of the functions of language that they have learned previously in real life situational activities and assessments.

AP SPANISH LANGUAGE AND CULTURE**CRS #0541**

1 Credit Full Year 12

Prerequisite: Successful completion of Spanish 4

This course is intended for students wishing to pursue Spanish at an AP level. Students are exposed to written and spoken Spanish on a variety of topics and will also present information and ideas using spoken and written Spanish to an audience. Students develop an understanding and appreciation of various aspects of the cultures of the Spanish speaking world. Film, books, newspapers, music, traditions, and cultural values will be studied. **All students who enroll in an AP course are expected to take the AP exam in order to have AP status reflected on their transcript and to receive AP credit.**

Humanities Electives

****DEBATE****CRS #0090**

½ Elective Credit One Semester 11, 12

The Debate Society of CT explains, “Debate helps student develop valuable speaking, listening and analytic skills. It places a premium on quick thought and precise expression. Many noted public figures are former high school and college debaters.” In this course, students study debate and debatable issues. They practice and compete as debaters, making arguments requiring research into historical, scientific, political and other contemporary issues. They compete with one another and may have the opportunity to compete against students from other schools and debate clubs around the state.

****MODEL UNITED NATIONS****CRS #0091**

½ Elective Credit One Semester 11, 12

Study in international diplomacy, Roberts’ Rules of debate, and contemporary country research are the foundations of this course. Students will explore topics in global affairs and will have the opportunity to compete with high schools from across the state. This course emphasizes original writing, speaking, and problem solving skills.

****THEATER STUDIES / ACTING****CRS #0176**

½ Elective Credit One Semester 11, 12

This course introduces students to the basic principles and techniques of acting while working on scenes, monologues and acting exercises. Students learn effective use of imagination, concentration, relaxation and physical and vocal techniques that builds a foundation for the craft of acting and an appreciation for Theatre Arts. Students are introduced to playwriting and scene study. Peer evaluation, collaborative learning, and an end of the semester performances are all a part of this course.

General Electives

GRAPHIC COMMUNICATIONS**CRS #0919**

½ Credit One Semester 9, 10, 11, 12

Graphic Communications is an introductory course offering the student an overview of contemporary communications processes and media. Areas to be covered include: Graphic Design, Digital Imaging, Adobe InDesign desktop publishing software, Print Media, and Advertising.

PHOTOGRAPHY I**CRS #0976**

½ Credit One Semester 9, 10, 11, 12

Photography is an introductory course offering the student an overview of digital photographic processes. Areas to be covered will include digital SLR camera use, studio lighting, image retouching, photographic composition, portfolio creation, Adobe Photoshop image editing software, advanced photographic techniques, lenses, and career research.

VIDEO COMMUNICATIONS**CRS #0956**

½ Credit One Semester 9, 10, 11, 12

This course will explore the fundamentals of filmmaking, including planning, storyboarding, shooting, and post-production work. Students will be exposed to video production applications to create powerful multimedia productions and image editing techniques. Projects may include video photo albums, film shorts/movie trailers, stop frame animations, documentaries, and other creative works.

YEARBOOK I*CRS #0638**

1 Credit Full Year 9, 10, 11

Yearbook is a course that will give the student an exposure to the world of printing and publishing. This course is production oriented with students doing all the work required to produce the *Centurion*. Students develop the book's organization, layout, and content using computerized publishing software. Students who select yearbook should be energetic and hardworking. They should also like to work in groups, enjoy writing, and enjoy the challenge of meeting a deadline. Computer, design, and photography skills are desirable, but not required. Any student considering a career in writing, publishing or journalism should consider taking this course.

YEARBOOK II*CRS #0918**

1 Credit

Full Year

10, 11, 12

Prerequisite: Successful completion of Yearbook I and recommendation of the yearbook advisor

Yearbook II is the editorial level of the yearbook staff. These students include, the editor, co-editors, and assistant editors who are responsible for leading the yearbook staff and for providing editorial guidance. These individuals develop and coordinate all aspects of the book: design, photography, templates, sales, and publication.

COMMUNITY SERVICE*CRS #1001**

½ Credit

In accordance with South Windsor High School's Expectations for Student Learning; Civic Expectation #2: Contribute individually and collaboratively to the community as a responsible citizen who exhibits ethical behavior

South Windsor High School students may earn up to 1/2 credit for pre-approved, verified community service. Working in conjunction with an advisor, students will plan relevant and appropriate experiences to earn community service hours. Students must document the completed hours to be approved by the course advisor. Students choosing to pursue this option must complete a required orientation explaining the requirements, expectations, and guidelines for community service in advance of recording hours and earning credit. Students who complete 50 approved, documented hours will receive 1/2 credit.

Capstone

CAPSTONE*CRS #0691**

1 Credit

Full Year

12

The Capstone experience is designed to provide members of the senior class with the opportunity to plan, complete and present a self-directed culminating project reflecting their personal interest. Under the guidance of a Capstone advisor, the Capstone experience will prepare students for lifelong learning and productive citizenship. This experience may include a creative project, research project, community service project, fundraising project, or an internship. Capstone will provide students with the opportunity to think critically, demonstrate flexibility and initiative, conduct analysis, improve communication skills and utilize technology effectively. Students will receive pass/fail for this course

South Windsor Public Schools does not discriminate on the basis of race, religion, color, national origin, sex, sexual orientation, age, genetic information, disability or other protected class status under applicable law in any of its education programs or services.

Section 504 of the Rehabilitation Act of 1973 ("Section 504") is an Act that prohibits discrimination against persons with a disability in any program receiving Federal financial assistance. For the purposes of Section 504, the term "disability" with respect to an individual means:

1. a physical or mental impairment that substantially limits one or more major life activities of such individual;
2. a record of such an impairment; or
3. being regarded as having such an impairment.

In order to fulfill its obligation under Section 504, the South Windsor Public Schools recognize a responsibility to avoid discrimination in policies and practices regarding its personnel, students, parents and members of the public who participate in school sponsored programs. In this regard, the South Windsor Public Schools will not knowingly permit discrimination against any person with a disability in any of the programs operated by the school system. Persons who feel that they may have been discriminated against on the basis of disability should contact the South Windsor Public School's Section 504 Coordinator.

The school district also has specific responsibilities under Section 504 with respect to providing access to appropriate educational services for students who qualify under Section 504. These responsibilities include the obligation to identify, to evaluate, and to afford access to appropriate educational services. If the parent or guardian disagrees with the decisions made by the professional staff of the school district with respect to the identification, evaluation, or educational placement of their child, he/she has a right to an impartial hearing. Additional written information about an impartial hearing is available on request from the Section 504 Coordinator.

South Windsor High School
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