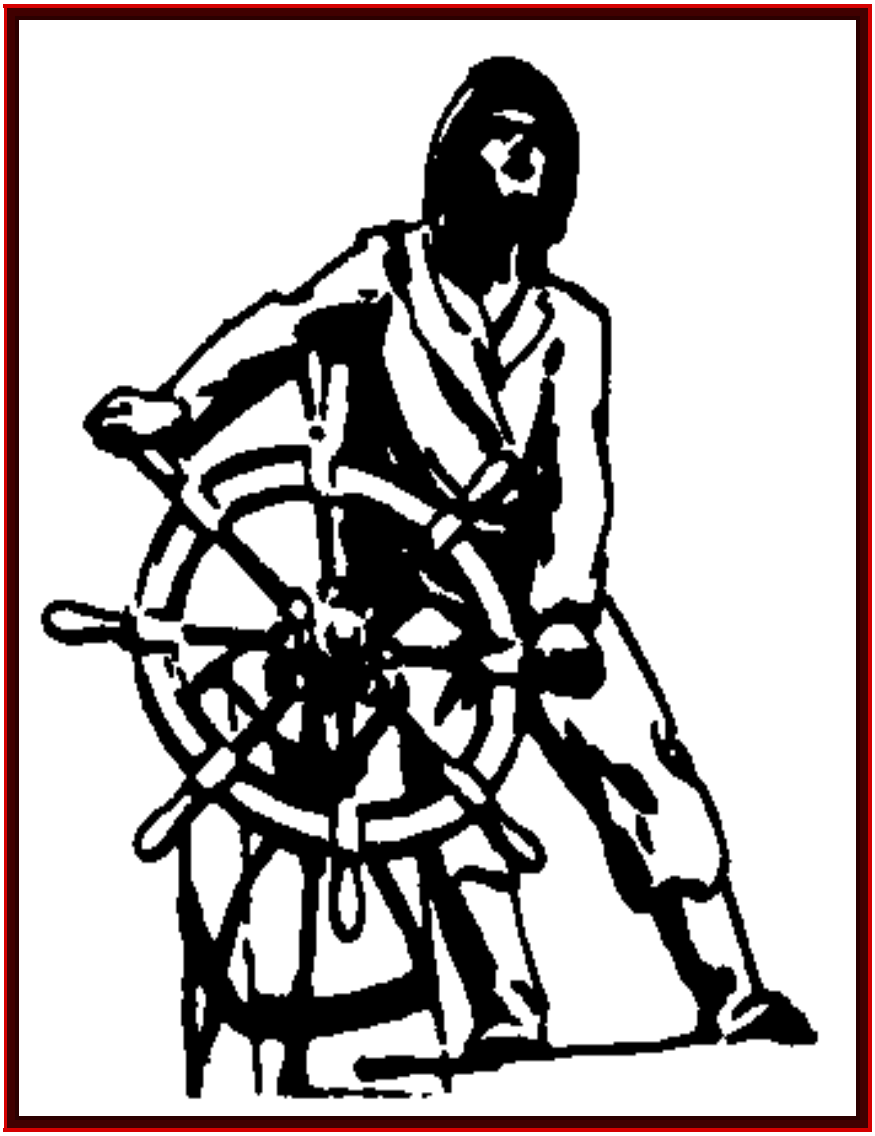
GLOUCESTER HIGH SCHOOL



PROGRAM OF STUDIES
2016-2017

GLOUCESTER HIGH SCHOOL
32 LESLIE O. JOHNSON ROAD
GLOUCESTER, MA 01980
(978) 281-9870
ghs.gloucesterschools.com

Accredited by the New England Association of Schools and Colleges

January 2016

Dear Gloucester High School students,

It is a pleasure to share with you the *Gloucester High School Program of Studies* for 2016-2017. At Gloucester High School, we believe all students should possess the college and career skills to meet success beyond high school. Founded in this belief, this Program of Studies has been developed so that our students will have access to a well-rounded four-year educational program. The courses offered at Gloucester High School are designed to foster the scholastic achievement, responsible citizenship and social skills necessary for success after high school, while providing opportunities for students to explore their interests while developing and honing these skills. As you review the content, I believe that you will be impressed by the academic strength of the curriculum and the diversity of our curricular offerings.

All GHS courses are aligned to state and federal standards and support the development and ongoing practice of communication, collaboration, critical thinking, and problem solving skills as well as the habits of mind necessary for college and career readiness. In addition to describing classes, the Program of Studies provides information about graduation requirements, credits, grades, course levels, weighted grades, Advanced Placement courses, and special programs. Again this year, there are several new elective opportunities included in this Program of Studies, which will be highlighted specifically at our Class meetings and by your Guidance counselor during your individual meetings.

Students are expected to select classes that are academically challenging and provide rewarding learning experiences in areas of interest. It is important that students and parent/guardians review the course offerings for each department before completing the registration forms. Teachers and administrators are available to assist students and parents in making these selections, while guidance counselors are actively and directly responsible for overseeing each student's academic program.

At Gloucester High School, we have a collective commitment to ensure that every student is able to meet our program requirements and learning expectations. GHS faculty and staff believe that your overall experience should challenge each of you to think and grow intellectually, socially and academically; for we also expect that as a GHS graduate you will be well prepared for post-secondary education and your role as a citizen in our democratic society.

Best wishes for a successful 2016-2017 school year.

Sincerely,

Mr. Erik Anderson
Principal

Please Note: Parents and students need to realize that due to fiscal and/or scheduling restrictions 1) all courses that are described within the Program of Studies will not necessarily be offered and 2) all individual student/parent requests may not be met. We will do the best we can to meet requests, but it is possible that some course titles will not be taught or some course enrollments will be capped.

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Gloucester High School

The mission of Gloucester High School is to produce graduates with integrity, knowledge and skills necessary for productive citizenship.

Statement of Purpose

To achieve these results, instruction is purposeful, engaging, relevant and rigorous. A culture of positive relationship building and personalization within the school and the community encourages and supports self-reliance and problem solving for success.

Academic Standards

1. Uses reading comprehension strategies for understanding

1.1 Acquires vocabulary

1.2 Understands structures of various text-based materials

1.3 Uses reading comprehension strategies for various texts

2. Utilizes problem-solving strategies and thinking skills

2.1 Conceptual Understanding – interprets the problem and selects appropriate information to apply a strategy for solutions

2.2 Procedural Knowledge – demonstrates appropriate use of concepts.

2.3 Uses tables, charts, graphs, models, diagrams, drawings to communicate solutions

2.4 Organizes, interprets, analyzes data in all its forms

2.5 Uses logical and systematic reasoning

2.6 Understands and applies conceptual knowledge

2.7 Develops and uses rubrics (performance criteria) for assessing work

3. Applies writing, listening, visual and speaking skills to communicate ideas

3.1 Writes with a clear focus, coherent organization and sufficient detail

3.2 Uses knowledge of standard conventions in writing, revising and editing

3.3 Revises to improve organization, content, paragraph development, level of detail, style, tone and word choice

3.4 Exhibits appropriate discussion techniques

3.5 Communicates through formal and informal presentations

3.6 Listens to and follow directions

4. Exhibits understanding and application of various technologies

4.1 Demonstrates knowledge and use of computers to acquire, organize, analyze and communicate information

4.2 Develops a core set of technical skills

4.3 Transfers technological skills to real-world situations and problems

4.4 Information Literacy - Accesses information efficiently and effectively and evaluates critically and competently

4.5 Exhibits proper use and care of equipment, machinery, and tools

Social Standards

5. Works effectively as a member of a team

5.1 Organizes to share and complete a task

5.2 Communicates thoughts, feelings and ideas to justify a position

5.3 Functions as a leader

5.4 Exercises respect for all team members

6. Demonstrates personal responsibility and integrity

GLOUCESTER HIGH SCHOOL PROFILE

School Mascot: Fishermen

School Colors: Crimson and Cream

Gloucester High School is located at the heart of the Cape Ann peninsula, approximately 35 miles northeast of Boston, MA. The city of Gloucester, the nation's oldest seaport, is truly a jewel of a small city with a population of 30,000. The chief industries are related to the sea, including fishing and tourism, although many entrepreneurial efforts have brought in high-tech manufacturing and diversified businesses in recent years.

The Gloucester Public Schools has an enrollment of approximately 3000 students in grades K-12 and current enrollment at the high school level is approximately 875. The five K-5 elementary schools in the district are East Gloucester, Veterans, Beeman, Plum Cove and West Parish. O'Maley Innovation Middle School serves all district students in grades 6-8 as they prepare to attend Gloucester High School.

Gloucester High School Staff Directory

Principal's Office:	Ms. Joan Dallin- Principal's Secretary	**281-9870**
Principal	Mr. Erik Anderson	**x14003**
Assistant Principal	Ms. Maria Lysen	**x11204**
Dean of Students (Grades 10 & 12)	Mr. Chris Kobs	**x14004**
Dean of Students (Grades 9 & 11)	Mr. Robert Gallinelli	**x14005**

Guidance Office: Ms. Jean Mondello- Guidance Secretary **281-9874**

Mr. Carl Sacco	**x14008**	Seniors: A-D	Juniors: A-Gi	Sophomores: A-C
Ms. Laura Carlson	**x14011**	Seniors: E-Le	Juniors: Gl-La	Sophomores: D-K
Ms. Jane Cullen	**x14010**	Seniors: Lo-Pa	Juniors: Le-P	Sophomores: L-P
Ms. Ellen Clarke	**x14009**	Seniors: Pe-Z	Juniors: Q-Z	Sophomores: Q-Z

www.ghsguidance.webs.com

GHS DIPLOMA- PATHWAY TO GRADUATION

Minimum Credit Requirements for Graduation:

Class of 2017 and beyond:

Credits	Subject area	Years	Course Requirements
20	English	4 years	(English 9, 10, 11 & 12th grade)
20	Math	4 years	(incl. Algebra or equivalency)
15	Science	3 years	(lab-based)
15	Social Studies	3 years	(U.S. Hist. 9 & 10 + World Regions)
10	Health & Fitness		(incl. 2.5 in Health during 9th grade)
5	Visual and Performing Arts		
5	Computer and Technology Literacy		

90

25+ Electives

Pass/Complete Massachusetts Comprehensive Assessment System (MCAS) requirements

115 Total Number of Credits Required to Graduate with a Gloucester High School Diploma.

Health and Fitness- (alternative ways to satisfy Health and Fitness requirements)-
1) Cadets successfully completing two years in the JROTC program also satisfy the PE **and** Health requirements.
2) Students have also earned 2.5 credits in Physical Education by completing a structured program at the YMCA that requires a minimum of fifty-four (54) validated hours.
3) **Student athletes who successfully complete two or more interscholastic sport seasons during the school year will earn (through having demonstrated competency in the Health/Fitness standards for that year) the equivalency of 2.5 PE credits.**

MCAS Graduation Requirements-

Massachusetts requires that all students pass English/Language Arts, Mathematics and Science (Biology, Chemistry or Engineering & Technology) MCAS examinations in order to receive a high school diploma. MCAS exams are taken in the spring of the 10th grade year. Retests for students who score below 220 on the required exams are taken in the fall and spring of each academic year.

The state also requires that students who do not receive scores of 240 or above in the English/Language Arts and/or Mathematics MCAS tests must fulfill the requirements of an Educational Proficiency Plan (which requires the successful completion of a targeted course) in those subject areas to graduate.

MassCore is the recommended program of study that Massachusetts high school students need in order to be better prepared for college and a career. Developed by a statewide advisory group from the K-12, higher education and business sectors, MassCore maintains flexibility for students and high schools while allowing districts to set additional graduation requirements. Courses included in MassCore should be rigorous, engaging, and based on appropriate Massachusetts Curriculum Frameworks high school level standards.

MassCore	
Massachusetts High School Program of Studies	
English/Language Arts	**4 Units***
Mathematics	**4 Units**
	Including the completion of Algebra II or the equivalent. All students are recommended to take a math course during their senior year.
Science	**3 Units of lab-based science**
	Coursework taken in technology/engineering may count for MassCore science credit. Note: In June 2012, the Massachusetts Board of Higher Education (BHE) revised its admission standards to count technology/engineering coursework based on academic standards and taken for science credit as meeting the science admissions requirement.
History/Social Science	**3 Units**
	Including US History and World History.
Foreign Language**	**2 Units**
	Of the same language.
Physical Education	As required by law
	State law (M.G.L. c. 71,s. 3) states: "Physical education shall be taught as a required subject in all grades for all students." Health can be integrated into Physical Education, science, or taught as a stand-alone course.
The Arts**	**1 Unit**
Additional Core Courses	**5 Units**
	Business Education, Career and Technical Education (CTE), Health, Technology or any of the subjects above. Note: Most students majoring in CTE will take more than 5 units in a CTE program of study.
	22 Units - Is a minimum that students should take in high school

Additional Learning Opportunities	**Complete as many of the following as possible:**
	Advanced Placement (AP); Capstone or Senior Project; Dual Enrollment courses taken for both high school and college credit; Online courses; Service Learning; and Work-based Learning.

*A unit represents a full academic year of study or its equivalent in a subject that covers all the standards contained in a specific Curriculum Framework.

** Students enrolled in a state-approved Career and Technical Education program of studies have the option of opting out of Foreign Language and Art and still fulfill MassCore.

GLOUCESTER HIGH SCHOOL RECOMMENDED COURSE SEQUENCE-

The following course sequence is recommended so as to ensure adequate preparation for graduation and post-secondary studies.

Grade 9- FRESHMAN YEAR –

- English 9
- Mathematics- such as Algebra I or Geometry
- Science- such as Biology or Engineering & Technology
- US History I
- Either, Freshman Seminar in Academic Inquiry or Introduction to Information Technology
- Health
- Electives – such as Band, Chorus, Theatre Arts, Visual Art, JROTC, Foreign Language, Career & Technology Education, Business Education, etc.

Grade 10-SOPHOMORE YEAR –

- English 10
- Mathematics- such as Geometry or Algebra II
- Science- such as Chemistry or Engineering & Technology
- US History II
- Art(s) credit
- Physical Education
- Electives –Band, Chorus, JROTC, Foreign Language, Career & Technology Education, Business Education, Computer Science, etc.

Grade 11- JUNIOR YEAR –

- English 11
- Mathematics- such as Algebra II or Pre-Calculus
- Science- such as AP courses, Physics/Robotics
- World Regions and Cultures – Social Studies
- Physical Education (equivalency option is available)
- Electives- such as Band, Chorus, Theatre Arts, JROTC, Foreign Language, Career & Technology Education, Business Education, Computer Science, etc.

Grade 12- SENIOR YEAR –

- English elective
- Mathematics- such as Statistics or Calculus
- Core (Science and Social Studies) electives
- Other Electives- such as Band, Chorus, Theatre Arts, JROTC, Foreign Language, Career & Technology Education, Business Education, Computer Science, etc.

GHS Graduation Requirements Worksheet

Class of 2017 and beyond

Program Area	GHS Diploma
	Credits Required
Arts Education- • **Visual and Performing Arts**	5
Computer Science and Technologies- • **REQUIRED- Freshman Seminar in Academic Inquiry OR Introduction to Information Technology**	2.5
• **Other electives- CAD, Media & Publications, Machine Tech (2 or more years), Electrical tech (2 or more years), Cabinet Design (2 or more years), Eng. & Tech I/II (both courses), Eng., Man. & Design, Physics of Robotics, Advanced Photography, Graphic Design, Music Tech, any Computer Science elective**	2.5
Health and Fitness- Physical Education (or alternative)	7.5
Health	2.5
English / Language Arts • English 9, English 10, English 11 and Senior year requirement	20
Mathematics • Must include a passing grade in Algebra or equivalent	20
Science • Three years of lab-based science	15
Social Studies • US History I, II and World Regions and Cultures	15
Open Electives- • Foreign Languages • Band, Chorus, Theatre • CTE concentration • JROTC • Business Ed, Computer Science	25+
Total Credits	
Total Credits Earned	**115 or more**

POST-SECONDARY CREDIT OPPORTUNITIES

ADVANCED PLACEMENT COURSES

GHS offers several AP courses. AP courses are college level courses in a variety of subjects that students can take while still in high school. At the conclusion of the course, students take the corresponding AP Exam. AP Exams are three+ hour exams given in May, which are graded on a scale of 1 to 5, with 3 considered a "qualifying" score. Students who receive a qualifying grade on the exam may be eligible for advanced placement or course credits at the vast majority of colleges and universities in the United States. Students are required to take the exam to receive AP credit (+12 points).

DUAL ENROLLMENT

This program enables students to attend local colleges on a part-time basis. A student enrolled in this program will receive both high school and college credit for courses taken in partnership with or at a college. The program is based on the premise that qualified seniors have opportunities to take college level work with the possibility of transferring credits toward their college degree. Students are responsible for providing GHS with college transcripts. Approval of the guidance department and administration is required for entrance into this program. Credits vary from 2.5 to 15 credits depending on the requirements of the course(s) taken.

Endicott College – Gloucester High School and Endicott College have formed a partnership that provides an exciting opportunity for GHS students to earn 15 college credits while in high school. Interested students are required to commit to a course of study that will take place over three years, beginning in 10th grade. During the sophomore year, the cohort of students will take an Endicott College Liberal Studies course, *LST 100- Seminar in Academic Inquiry,* with a GHS teacher teaching the course at GHS in cooperation with an Endicott professor.

> *LST 100- Seminar in Academic Inquiry* –**5 GHS credits**- *(3 college credits) Students will be introduced to inquiry based learning skills that will provide the foundation to college level study, including if they choose to attend Endicott College. Students will learn the process of investigating an issue by reflecting upon, forming, and defending a position.*

The two-class course of study (10 GHS credits; 6 Endicott credits) for the 11th grade year is based in the Humanities and includes *College Writing Seminar (ENG 101)* and *Introduction to International Studies (IST 100)*. These courses are taught by adjunct GHS faculty.

The two-class course of study (10 GHS credits; 6 Endicott credits) for the 12th grade year is based in the Environmental and Social Sciences and includes *Environmental Issues (ENV 150)* and *Ethics (PHL 104)*. These courses are also taught by adjunct GHS faculty.

A new cohort of students (limited to twenty-five 10th graders) will commit to this opportunity every year. The tuition rate for college credit will be $225 per 3-credit course. GHS students will have the opportunity to earn 15 Endicott College credits for under $1,200 while still in high school.

Salem State University – Gloucester High School and Salem State University are engaged in a commitment to bring post-secondary credit bearing opportunities to GHS students. Courses that have been offered include: *Psychology, Sociology and Public Speaking*.

North Shore Community College- Gloucester High School has articulation agreements with NSCC offering credit and/or advanced standing for coursework completed at GHS. For example, students who successfully complete the Child Study program at GHS will receive credit for it if they attend NSCC. Courses include Accounting I/II, Recordkeeping I/II, Culinary Arts II, Marketing II and Advanced Child Study.

COURSE LOAD/GRADUATION PROGRESS INFORMATION

CREDIT REQUIREMENTS BY CLASS *Each statement indicates what is required to be officially considered a member of that class	
FRESHMAN	Less than 25 credits
SOPHOMORE	25 or more credits earned; including the successful completion of English 9.
JUNIOR	55 or more credits earned; including the successful completion of English 9 & English 10.
SENIOR	80 or more credits earned; including the successful completion of English 9, English 10, and English 11 and a schedule that facilitates eligibility to graduate.

EXPECTED STUDENT COURSE LOAD
Each student is expected to carry a full course load eligible to earn a minimum of **30-35** credits per academic year. Individual considerations to waive this expectation require cooperative approval of the Principal, school counselors, case manager (if applicable), and parent/guardians.

GRADE POINT AVERAGE (GPA) AND CLASS RANK (weighted)	
Grades earned along with the weighting of a course factor into determining GPA and class rank. GPA and class rank are often used by colleges when considering the strength of a student's application. School-wide Grade Point Average is calculated after each semester.	
(Final Grade)(Attempted Credits) = Quality Points (Total Quality Points) / (Total Attempted Credits) = Grade Point Average Advanced Placement and Honors courses receive the additional points on their final grade for GPA calculation purposes only.	
WEIGHTING OF GRADES	
ADVANCED PLACEMENT COURSES	12 points added to grade earned
HONORS COURSES	6 points added to grade earned
COLLEGE PREP COURSES	No weighting

COURSE & SCHEDULE CHANGES
All course selections should be considered final. The program selected by the student in the spring each year should represent a final choice of courses for the following year. Students who register for a course have made a commitment to complete the course and are expected to do so. Therefore, for 10^{th}-12^{th} grade students, no required or elective course will be selectively **dropped** or **changed** by student choice after the beginning of the school year without direct approval of the Principal, with involvement of the parties mentioned below. Due to the significant disruption it causes, a schedule change will only be made when necessary due to scheduling errors, scheduling conflicts, or the cancellation of courses due to insufficient enrollment. A shift in levels for a required course, due to a course being too demanding or not demanding enough, may only take place at the beginning of either semester, with the approval of teachers, guidance counselors, special education (if applicable), administration and parent/guardians. However, the student's guidance counselor will first explore the reasons for difficulty and consider alternate ways of solving the difficulty before a level change is made.

ADMISSION REQUIREMENTS FOR COLLEGES & UNIVERSITIES

College entrance requirements vary yet follow a rather consistent pattern. In general, most four-year colleges prefer applicants in the top one-third of their class, with a "B" average or better in college preparatory subjects. However, there are many fine colleges that will accept students with average grades who have demonstrated particular skills and/or exceptional qualities of character and leadership.

	HIGHLY SELECTIVE COLLEGES	4-YEAR COLLEGES	2-YEAR & TECHNICAL COLLEGES
English	4 years	4 years	4 years
Math	4 years	3-4 years	3-4 years
Social Studies	3-4 years	3 years	3 years
Science	4 years	3-4 years	3 years
World Language	3-4 years	2-3 years	0-2 years
Fine Arts	1 year	1 year	.5 year

COLLEGE ADMISSION- The following criteria are looked at closely by college admissions personnel:

1) Academic record: subjects taken, degree of difficulty, level of achievement (GPA and class rank)
2) College Board Test/American College test scores: most colleges require SAT 1/ACT and some also require subject tests (SAT 2)
3) Extracurricular and Volunteer Activities: The emphasis placed upon these varies from college to college.

STUDENTS ARE ADVISED TO FOLLOW A COLLEGE PREPARATORY PROGRAM THROUGHOUT THEIR FOUR YEARS OF HIGH SCHOOL.

REQUIREMENTS FOR PARTICIPATION IN COLLEGE ATHLETICS

Students who plan to participate in Division I or Division II college athletics must register with the NCAA Clearinghouse. The Clearinghouse issues a preliminary certification report to the college once all your materials have been submitted. After you graduate, the Clearinghouse reviews your final transcript to make a final certification decision according to NCAA standards.

To be certified by the Clearinghouse, each graduate must earn a grade point average of at least a 2.3 in the core classes listed below and receive a minimum score on the SAT Reasoning Test or ACT.

Only core courses approved by the NCAA can be used to calculate your GPA or class rank. The chart below shows the minimum core courses.

	Division I	**Division II**
English	4 years	4 years
Math (Algebra I or higher)	3 years	3 years
Science	2 years	2 years
Additional English, Math or Science	1 year	1year
Social Sciences	2 years	2 years
Additional Classes (English, Math, Science, SS, Or Foreign Language)	4 years	4 years
TOTAL CORE UNITS REQUIRED	16	16

To receive more information on the eligibility requirements, please refer to the NCAA Guide for the College Bound Student Athlete available online at the NCAA Clearinghouse. www.ncaaclearinghouse.com

FAMILY CONNECTION from NAVIANCE

We are pleased to introduce Family Connection from Naviance, a Web-based service designed especially for students and parents. Family Connection is a comprehensive website that you and your child can use to help in making decisions about courses, colleges, and careers. Family Connection is linked with Counselor's Office, a service that we use in our office to track and analyze data about college and career plans, so it provides up-to-date information that's specific to our school.

Family Connection will allow you and your child to:

- Get involved in the planning and advising process – Build a resume, complete on-line surveys, and manage timelines and deadlines for making decisions about colleges and careers
- Research colleges – Compare GPA, standardized test scores, and other statistics for students who have applied and been admitted in the past
- Sign up for college visits – Find out which colleges are visiting our school and sign up to attend those sessions

Family Connection also lets us share information with you and your child about up-coming meetings and events, local scholarship opportunities, and other Web resources for college and career information. In addition, the site includes a link that your child can use to send us an e-mail message. To visit our school's Family Connection site, use your Web browser to connect to:

http://connection.naviance.com/gloucester

When you visit the site for the first time, please enter your personal registration code in the New User box and follow the on-screen instructions to create your own account. If you do not know your registration code, please contact the counseling office for assistance. Note that you and your child may each receive different registration codes, and that each code may be used only once. Once you have your own account, you will sign in using the user name and password you chose during the registration process.

We hope that you will find this resource helpful. If you have further questions about Family Connection, please contact the GHS Guidance department.

COURSE OFFERINGS AT A GLANCE

Course Levels at GHS:

Core- Special Education
CP1 - College Prep
CP2 - College Prep
CP – Non Leveled Course
H – Honors
AP– Adv. Placement

Business Technologies

Course	Level	Grades				Credits	Page No.
Freshman Seminar in Academic Inquiry	CP	9				2.5	28
Personal Finance	CP		10	11	12	2.5	28
Career Development	CP		10	11	12	2.5	28
Business Recordkeeping I	CP		10	11	12	2.5	28
Business Recordkeeping II	CP			11	12	2.5	28
College Accounting I	CP		10	11	12	2.5	29
College Accounting II	Hon		10	11	12	2.5	29
Principles of Information Tech	CP		10	11	12	5	29
Banking Theory	CP		10	11	12	5	29
Banking Lab	Hon			11	12	5	29
AP Economics	AP			11	12	5	30
Entrepreneurship	CP			11	12	5	30
Marketing I	CP		10	11	12	5	30
Marketing II	Hon			11	12	5	30
Sports and Entertainment Mktg	CP			11	12	2.5	30
Hospitality and Tourism	CP/H			11	12	5	31

Career and Technology Education

Course	Level	Grades				Credits	Page No.
Automotive Technology I	CP	9	10	11	12	5	31
Automotive Technology II	CP		10	11	12	10	31
Automotive Technology III	CP			11	12	15	31
Automotive Technology IV	CP				12	15	32
Cabinet Design & Innovation I	CP	9	10	11	12	5	32
Cabinet Design & Innovation II	CP		10	11	12	5	32
Cabinet Design & Innovation III	CP			11	12	5	32
Carpentry I	CP	9	10	11	12	5	32
Carpentry II	CP		10	11	12	10	33
Carpentry III	CP			11	12	15	33
Carpentry IV	CP				12	15	33
World of Children	CP	9	10	11	12	2.5	33
Child Study Aide	CP		10	11	12	5	33
Child Study	CP			11	12	15	33
Advanced Child Study	Hon				12	20	33
Computer Aided Design I	CP	9	10	11	12	2.5	34
Computer Aided Design II	CP		10	11	12	5	34
Computer Aided Design III	Hon			11	12	5	34

Career and Technology Education (Cont'd)

Course	Level	Grades				Credits	Page No.
Introduction to Culinary Arts	CP	9	10	11	12	2.5	34
Culinary Arts II *see course description for Honors	CP		10	11	12	10	34
Electrical Technology I	CP	9	10	11	12	5	34
Electrical Technology II	CP		10	11	12	10	35
Electrical Technology III	CP			11	12	15	35
Electrical Technology IV	CP				12	15	35
Machine Technology I	CP	9	10	11	12	5	35
Machine Technology II	CP		10	11	12	10	35
Machine Technology III	CP			11	12	15	36
Machine Technology IV	CP				12	15	36

Computer Science Department

Course	Level	Grades				Credits	Page No.
Introduction to Information Technology	CP	9	10			2.5	36
Intro. to Computer Science (Programming in Java)	CP		10	11	12	2.5	36
AP Computer Science	AP		10	11	12	5	36
APP Design and Development	CP		10	11	12	2.5	37
Advanced Contemporary Programming Languages	CP		10	11	12	2.5	37
Tech Support	CP			11	12	2.5	37

English Department

Course	Level	Grades				Credits	Page No.
MCAS Reading and Writing Fundamentals *elective credit	CP2	9	*10*			5	37
ELA SAT Prep *elective	CP2			11	12	2.5	38
Creative Writing Workshop *elective	CP2	9	10	11	12	2.5	38
Graphic Novels *elective	CP				12	2.5	38
Media and Publications *elective	CP2		10	11	12	5	38
English 9	Hon	9				5	39
English 9	CP1	9				5	39
English 9	CP2	9				5	39
English 9	Core	9				5	39
English 10	Hon		10			5	39
English 10	CP1		10			5	39
English 10	CP2		10			5	40
English 10	Core		10			5	40
AP English Language & Comp.	AP			11	12	5	40
English 11	Hon			11		5	40
English 11	CP1			11		5	40
English 11	CP2			11		5	40
English 11	Core			11		5	41

English Department (Cont'd)

Course	Level	Grades				Credits	Page No.
AP English Literature & Comp.	AP				12	5	41
Humanities	Hon				12	5	41
Dramatic Literature	H/CP1				12	5	41
Authors of the Americas	CP1				12	5	41
World Literature	CP1				12	5	41
Literature by Women	H/CP1				12	5	42
Reading & Writing Beyond HS	CP2				12	5	42
English 12	Core	9	10	11	12	5	42
ESL I and ESL II	ESL	9	10	11	12	5	42

Foreign Languages Department

Course	Level	Grades				Credits	Page No.
French I	CP	9	10	11	12	5	43
French II	CP		10	11	12	5	43
French III	H/CP			11	12	5	43
French IV	Hon				12	5	44
German I	CP	9	10	11	12	5	44
German II	CP		10	11	12	5	44
German III	H/CP			11	12	5	44
German IV	Hon				12	5	44
Italian I	Hon	9	10			5	44
Italian I	CP	9	10	11	12	5	44
Italian II	Hon		10	11		5	45
Italian II	CP		10	11	12	5	45
Italian III	Hon			11	12	5	45
Italian III	CP			11	12	5	45
Italian IV	Hon				12	5	45
Italian IV	CP				12	5	45
Introduction to Spanish	CP2	9	10			5	46
Spanish I	Hon	9	10			5	46
Spanish I	CP	9	10	11	12	5	46
Spanish II	Hon		10	11		5	46
Spanish II	CP		10	11	12	5	46
Spanish III	Hon			11	12	5	46
Spanish III	CP			11	12	5	47
Spanish IV	Hon			11	12	5	47
Spanish IV	CP				12	5	47
Spanish for Spanish Speakers	CP	9	10	11	12	5	47

Health and Fitness Department

Course	Level	Grades				Credits	Page No.
Health and Wellness *required	CP	9				2.5	48
Physical Education	CP	9	10	11	12	2.5	48
Strength and Conditioning	CP		10	11	12	2.5	48
Yoga- for the Body and Mind	CP		10	11	12	2.5	48
Competitive Games	CP			11	12	2.5	49
Health Science	Core	9	10	11		2.5	49

JROTC Program

Course	Level	Grades				Credits	Page No.
JROTC Drill & Leadership Training (MCJROTC)	CP	9	10	11	12	5	49
Leadership 1(MCJROTC)	CP	9				5	49
Leadership 2 (MCJROTC)	CP		10	11	12	5	49
Leadership 3-4 (MCJROTC)	CP			11	12	5	50

Mathematics Department

Course	Level	Grades				Credits	Page No.
MCAS Math Fundamentals	CP2	9	10		elective cr.	5	51
Foundations of Algebra- Part I	Core	9				5	51
Foundations of Algebra- Part II	Core		10			5	51
Consumer Math/Int. Alg. & Geom.	Core			11	12	5	51
Algebra I	CP1	9	10			5	51
Geometry	Hon	9				5	52
Geometry	CP1	9	10	11		5	52
Algebra II	Hon		10	11		5	52
Algebra II	CP1		10	11	12	5	52
Algebra I	CP2	9	10			5	52
Geometry	CP2		10	11		5	52
Algebra II	CP2			11	12	5	53
Math Topics	CP2				12	5	53
Foundations of College Algebra	CP2			11	12	5	53
Pre-Calculus	Hon			11	12	5	53
Pre-Calculus	CP1			11	12	5	53
College Board and SAT Prep	CP			11	12	2.5	54
Mathematical Modeling	CP			11	12	2.5	54
Calculus	CP1				12	5	54
AP Calculus	AP				12	5	54
Statistics	CP1			11	12	5	54
AP Statistics	AP				12	5	54

Science Department

Course	Level	Grades				Credits	Page No.
Engineering and Technology I (Lab)	CP1	9	10			5	55
Honors Engineering and Technology (Lab)	Hon	9				5	55
Life Science (Lab)	CP1	9				5	56
Biology (Lab)	CP1	9	10			5	56
Biology (Lab)	Hon	9	10			5	56
Engineering and Tech. II (Lab)	CP1		10	11		5	56
Chemistry (Lab)	CP1		10	11		5	56
Chemistry (Lab)	Hon		10	11		5	57
Physics of Robotics (Lab)	CP1		10	11	12	5	57
Adv. Physics of Robotics (Lab)	Hon			11	12	5	57
Physics (Lab)	CP1			11	12	5	57
Physics (Lab)	Hon			11	12	5	57
AP Biology (Lab)	AP		10	11	12	10	58
AP Chemistry (Lab)	AP			11	12	10	58
AP Physics (Lab)	AP			11	12	10	58
Eng. Manufacturing & Design	Hon			11	12	5	58
Anatomy & Physiology (Lab)	CP1			11	12	5	59
Anatomy & Physiology (Lab)	Hon			11	12	5	59
Astronomy	CP1		10	11	12	2.5	59
Ecology	CP1		10	11	12	2.5	59
Marine Biology (Lab)	CP1		10	11	12	2.5	59
Forensic Science (Lab)	CP1		10	11	12	2.5	60
Biotechnology (Lab)	CP1		10	11	12	2.5	60
Ocean Studies	CP1		10	11	12	5	60
Principles of Technology	Core	9	10	11		5	60
Life Science	Core	9				5	61
Biology	Core		10	11		5	61

Social Studies Dept.

Course	Level	Grades				Credits	Page No.
US History-1400-1877	Hon	9				5	61
US History-1400-1877	CP1	9				5	61
US History-1400-1877	CP2	9				5	61
US History-1400-1877	Core	9				5	61
US History-1877-2000s	Hon		10			5	61
US History-1877-2000s	CP1		10			5	61
US History-1877-2000s	CP2		10			5	61
US History-1877-2000s	Core		10			5	61
World Regions and Cultures	Hon			11		5	62
World Regions and Cultures	CP1			11		5	62
World Regions and Cultures	CP2			11		5	62
World Regions and Cultures	Core			11		5	62
AP US History	AP			11	12	5	62
AP Psychology	AP			11	12	5	62
Psychology	CP			11	12	2.5	62
Sociology	CP			11	12	2.5	62

Social Studies (Cont'd)

International Relations	Hon			11	12	2.5	63
Global Issues	CP			11	12	2.5	63
Mass Media in the Modern Age	CP			11	12	2.5	63
Comparative Religions	CP			11	12	2.5	63
Women's Issues	CP			11	12	2.5	63
Issues in American Society	CP			11	12	2.5	63
SEI U.S. History I	ESL	9	10	11		5.0	63

Special Education Department

Course	Level	Grades				Credits	Page No.
Academic Support	Core	9	10	11	12	**2.5**	64

English, Mathematics, Science, Social Studies and Health (Core-900) classes offered by the Special Education department are listed within those sections.

Visual and Performing Arts Department

Course	Level	Grades				Credits	Page No.
Studio Art I	CP	9	10	11	12	2.5	64
Studio Art II	CP		10	11	12	5.0	64
Honors Studio Art	Hon			11	12	5	64
Drawing I	CP	9	10	11	12	2.5	65
Drawing II	CP	9	10	11	12	2.5	65
Painting I	CP		10	11	12	2.5	65
Painting II	CP		10	11	12	2.5	65
Clayworks I	CP	9	10	11	12	2.5	65
Clayworks II	CP		10	11	12	2.5	65
Advanced Clayworks	Hon			11	12	5	66
Graphic Design	CP		10	11	12	2.5	66
Photography I	CP	9	10	11	12	2.5	66
Photography II	CP		10	11	12	2.5	66
Advanced Photography	Hon			11	12	5	66
Stage Band	CP/H	9	10	11	12	5	67
Chorus	CP/H	9	10	11	12	5	67
Music Fundamentals/Theory	CP	9	10	11	12	2.5	67
Music History: Bach to Rock I	CP	9	10	11	12	2.5	67
Music History: Bach to Rock II	CP	9	10	11	12	2.5	68
Audio and Video Music Tech	CP	9	10	11	12	2.5	68
Acting I	CP	9	10	11	12	2.5	68
Theatre History	CP	9	10	11	12	2.5	68
Musical Theatre	CP	9	10	11	12	2.5	68
Intro to Cinematic Studies	CP	9	10	11	12	2.5	68
Technical Theatre and Design	CP	9	10	11	12	2.5	69
Physical Theatre and Playmaking	CP	9	10	11	12	2.5	69
Advanced Performance	CP/Hn		10	11	12	2.5	69

COURSE LEVELS AT GHS

The educational program at Gloucester High School is based upon our belief that students are life-long learners, and that GHS has a responsibility to provide its students with a diverse set of learning opportunities that are grounded in a strong educational foundation. That being said, it is important for you to know that ALL courses offered at Gloucester HS expect students to demonstrate, at a minimum, proficiency with state and/or national standards and are considered college or post-secondary preparatory in nature. We intend to prepare ALL of our students to continue their learning and preparation after high school.

GHS courses are differentiated by the degree of difficulty. This ensures that each student has equal access to state and/or national standards in a course that provides them with the maximum intellectual challenge. Difficulty is determined by factors such as the intensity of study, the pace at which the material is presented, the types of assignments and readings, and the degree of support provided by the teacher.

Courses should challenge but not overwhelm students as learners. Given the different level of courses, students need to be placed appropriately. Course placement assumes that ability and prior preparation and performance will allow for success, but student effort is certainly required. A student's personal drive and initiative should be considered when determining the appropriate level. The support and advice of the adults in their lives, teachers, guidance counselors and parent/guardians, will help students to select courses that are appropriately challenging.

In order to assist students and their families in understanding the Gloucester High School course leveling system, we have provided a chart with level descriptions **(see Program of Studies, pg. 26)**. Along the left-hand column are the major areas by which one course level is distinguished from another at Gloucester HS. Across the top are listed the different course levels, and under these levels are corresponding descriptions of how each area affects, or is affected by, students. There are many terms used in this chart, which we have defined below. Also, as you read through the Program of Studies, take note of the headings and narratives for each course description. They will specify the rigor and academic expectations for each course and level.

Definition of Terms:

Concepts- A concept is an idea, notion, or belief. A student may have an idea or draw a conclusion about a subject by putting together bits of information or characteristics. The descriptors in the GHS leveling chart refer to how students learn/demonstrate understanding or mastery of a concept (or how they form concepts) most successfully, most often.

Analysis- Analysis is a process of breaking a complex topic into smaller parts to gain a greater understanding of the topic.

Synthesis- Generally, synthesis is the combining of two or more concepts that together form something new. For example, a research scientist who utilizes the ideas or theories of predecessors to propose a new theory or prove prior postulates is applying learning by synthesizing.

Inference- Inference is sometimes referred to as "reading between the lines". A student making an inference has drawn a conclusion by deductive reasoning from given facts. For example, successful readers make inferences based upon what they read and what they already know.

Abstraction- Abstraction is a process by which more complex concepts are derived from the use of "real" or "concrete" concepts.

Scope- Scope refers to the extent of an operation or process and/or the range of an investigation. Applied to the classroom, scope refers to how detailed or extensively students "investigate" a subject or concept. For example, in an Honors English 9 class, within the same amount of time, the scope of study pertaining to *Romeo and Juliet* will be more detailed and expansive than in the College Prep English 9 class, although all of the students in both classes will have gained a thorough understanding of Shakespeare's tragedy.

Depth/Breadth- These two terms are often used interchangeably with scope. However, depth refers to the level of detail of study on a particular topic or themes, whereas breadth is particular to the overall number of topics or themes studied. Although all GHS courses are similar, in terms of the state and national standards-based nature of the curriculum, Honors courses have greater breadth and depth than College Prep courses.

Pace- Pace or pacing refers to the length of time that is dedicated to cover a unit of study within a course. For example, Honors courses, in terms of covering the essential or standardized content, are much more briskly paced, and are therefore able to study either additional concepts beyond those that are part of all GHS courses, or the same concept in greater depth, or both.

Homework- Homework encompasses a broad spectrum of learning activities that are a key component to any high school class. Put simply, homework is "practice" for the *big game* (a test or other assessment). As depicted in the chart, the higher the course level, the more intensely and independently students are expected to be able to prepare themselves for class and assessments, outside of class.

Courses offered at Gloucester High School are designated as follows:

- Advanced Placement (AP)
- Honors
- College Preparatory
- College Preparatory 1 / 2
- Core Fundamentals

Advanced Placement Courses

The Advanced Placement (AP) program gives students in their junior or senior years the opportunity to pursue college-level studies while they are still in high school. By challenging and stimulating the students, this program accelerates learning, rewards achievement and enhances both high school and college programs. These courses have been aligned with college curriculum course expectations that are reviewed on a regular basis to ensure the quality of the educational experience. AP courses are coordinated through The College Board. AP courses must meet course curriculum requirements as defined by the College Board. The teachers themselves must also meet identified criteria to be approved as AP instructors.

AP courses will be taught at a very demanding pace. Though the enrollment will be open as long as students meet prerequisites, students need to understand that they will be expected to meet the demands set by the teacher. The course expectations, pacing, scope, assignments and required level of independence will not be adjusted for students who cannot meet these requirements.

Students who have committed to take an Advanced Placement course must agree to terms of each AP course and instructor including summer assignments, attendance, etc. **Students are required to take the exam to receive AP credit (+12 points).**

Honors- H (Pre-AP)

Honors courses are intended to prepare students for highly demanding college-level coursework, including Advanced Placement offerings. For most students in the Honors program, course progressions culminate in AP courses. Honors courses are designated as such because the conceptual expectation/presentation, pace of work, scope, daily expectations, learning activities and workload are significantly more demanding than College Prep courses at GHS. Reading and instructional materials will be utilized which are significantly above the grade level for which the course is designated. For example, students who take the Honors English 9 course are expected to be comfortable with reading material at or above the 11th grade level and be able to engage in commensurate learning activities at that level. Honors courses will regularly involve the application of mastered skills and emphasize self-directed study. They will also promote a higher level of conceptualization and greater depth of analysis and interpretation. Students should fully understand their obligation to exert extra time and effort in class and independently in order to be successful in these courses.

College Preparatory (CP)

College Preparatory courses are non-level courses, which are available for students of all learning levels and styles. The majority of these courses are electives and may include a prerequisite that students must meet in order to take the course. These prerequisites are listed to facilitate a successful learning experience for students who have completed entry-level coursework in the CP Course area. College Preparatory courses offer students a variety of learning experiences. Students are encouraged to explore areas of interest through CP level courses as they offer a variety of college and career preparatory learning experiences.

College Prep- 1

College Prep 1 courses will be presented at or above students' grade level based upon the Massachusetts Curriculum Frameworks. Students will be expected to have grade-level background knowledge and skills. The pace and scope of College Prep 1 level courses will be rigorous. Students in College Prep 1 courses need less instructional support to learn concepts and to work independently. CP1 students will be required to research, gather information, solve problems, and integrate their experiences with a high level of independence. As with the Honors level, it is not enough for parents to want their children to take CP1 courses. Students who sign up for courses at the CP1 level and above must be committed to put forth extra time and effort, especially if prior educational experiences and testing indicate these students do not have highly developed skills.

College Preparatory- 2

College Prep 2 courses are oriented around the same state and/or national standards as Honors and CP1 courses. College Prep 2 courses are challenging in nature, but do provide a higher degree of support in enhancing basic skills and knowledge necessary for success. To use a sports analogy, College Prep 2 students may require more "coaching" than Honors or CP 1 students. The curriculum for College Prep 2 is aligned with the same learning standards and expectations as those guiding the Honors or CP1 levels. Students will find College Prep 2 courses appropriately challenging.

Core Fundamentals- 900

Core concept courses are for students who have experienced significant difficulty in demonstrating basic mastery of prerequisite skills essential for success in the College Prep curriculum. They allow for extra time for students to experience the additional instruction needed to make "catch-up growth". The student enrollment in **Core** courses is smaller than that of other leveled courses. This allows students to have a more individualized learning experience and increase the opportunities for mastery of required concepts. These courses are designed for students who are performing below grade level in these areas and need to master the foundational skills associated with the subject. Core classes may only be taken upon the recommendation of the student's IEP team.

COURSE LEVELS and the WAIVER PROCESS:

Placement in classes is based upon a number of performance-based indicators, including assessment results, prior academic performance, and teacher/team recommendations. For upperclassmen, in order to take a course, prerequisites need to have been met.

Students and parents who disagree with a course placement recommendation may initiate a request for a change of level. Parents must complete and sign the **parent request form for change of level – WAIVER – form** (following on the next page and available in the guidance office). The form includes the following statement:

"We understand that the Gloucester High School faculty and administration concerned may not endorse this change because of academic predictors and/or current achievement. Therefore, we assume full responsibility for the consequences of this placement." Before requesting a change of level, students and families should seriously consider the impact of a level change on the student's overall homework load. Changes to a higher level often result in a significant increase in the amount of time required for the student to successfully complete academic work.

Requests made after the course selection period, but prior to the beginning of each semester, will be granted only on a space-available basis.

As part of the waiver process, the student must include a one-page written statement explaining why he/she is seeking a waiver for a specific course.

GLOUCESTER HIGH SCHOOL

COURSE LEVEL WAIVER REQUEST
2016-2017

Placement in classes is based upon performance-based indicators including assessment results, teacher/team recommendations, prior academic performance and/or prerequisites. Students and parents/guardians who would like to select a course or level other than what has been recommended by the teacher or department program leader, are required to complete a waiver request form. Please read the terms carefully. ***This form must be returned to the principal's office by May 15, 2016. Waivers turned in after May 15th will not be considered.***

When a student seeks to waive into a higher level, it is important to remember that the student is taking on a great deal of academic responsibility. Decisions granting waivers are based upon the student's written statement, prior academic record, and available space. The level of student interest and commitment to the subject is also carefully considered.

Date: _____ **Student Name: _____**

Student ID #: _____ **Guidance Counselor: _____**

Recommended Course (Course # & Title): _____

Requested Placement (Course # & Title): _____

Written Statement:
The student must attach a one page written statement explaining why he/she is seeking a waiver for a specific course.

Please read and sign in the spaces provided:

"We understand that Gloucester High School faculty and administration concerned may not endorse this change because of academic predictors and/or current achievement. Therefore, we assume full responsibility for the consequences of this placement." Before requesting a change of level, students and families should seriously consider the impact of a level change on the student's overall homework load. Changes to a higher level often result in a significant increase in the amount of time required for the student to successfully complete academic work.

Parent/Guardian Signature: _____ Date: _____

Student Signature: _____ Date: _____

FOR OFFICE USE ONLY:
Decisions granting waivers are based upon the student's written statement, prior academic record, and available space.

Approved: _____ Not Approved: _____

GLOUCESTER HIGH SCHOOL LEVEL DESCRIPTION OF MAJOR COURSES

The purpose of the level system is to provide optimal learning experiences for all Gloucester High School students. The level system differentiates courses according to conceptual emphasis, pace, scope, instructional approach, and communication skills. An appropriate level placement matches the student's academic ability, maturity, motivation, and interest with the course that will provide the greatest opportunity to achieve academic success.

	College Prep LEVEL 2	College Prep LEVEL 1	Honors/ Advanced Placement
Concepts	• Abstraction from concrete examples	• Analysis, inference, and abstraction	• Analysis, inference, abstraction, and synthesis leading to complex concept development
Pace	• Moderate	• Increased	• Rapid
Scope	• Focused	• Broader	• In-depth
Instructional Approach	• Sequential and guided • Concrete, linear emphasized • Emphasis on building and reinforcing skills leading to independent learning • Resourcefulness and creative thinking encouraged	• Combination of guided instruction and independent inquiry • Connection established between concrete, literal, and abstract, theoretical • Emphasis on building skills leading to independent learning • Resourcefulness and creative thinking encouraged	• *Less guided instruction and more independent inquiry* • Abstract, theoretical emphasized • Emphasis on independent learning • Resourcefulness and creative thinking encouraged
Communication Skills (e.g., writing, speaking, listening)	• Basic conventions of correct spoken and written expression	• Correctness of standard conventions plus introduction to rhetorical approaches	• Strong degree of proficiency in standard conventions and deliberate rhetorical techniques
Class Activities (e.g., discussion, problem solving, group work	• Explicitly structured and ordered • Teacher-directed, some open-ended activities • Frequent content/skill review	• Moderately structured and ordered • Some student initiative expected • Some content/skill review	• Minimally structured and open-ended activities • Student initiative expected • Infrequent skill review; content review done independently
Assignments (e.g., homework, projects, papers, research)	• Explicitly structured and directed • Some amount of reading and writing required • Independent work reinforces new material introduced in class	• Explicitly structured and moderately directed • Moderate amount of reading and writing required • Independent work requires some new material to be learned outside of class	• Explicitly structured and open-ended • Extensive amount of reading and writing required • *Independent work requires significant amount of new material to be learned outside of class*

Electives	Many elective courses have been designed to accommodate the needs of students at varying academic levels within the same class.

PLAN YOUR FUTURE……

WHAT COURSE WILL IT TAKE?

BUSINESS TECHNOLOGIES

FRESHMAN SEMINAR IN ACADEMIC INQUIRY **2.5 Credits * One Semester * CP * Grades 9**
(Course Number 549c)

Students will understand areas of digital citizenship such as ethics, internet safety, identity theft prevention and social media issues affecting them. This course takes an interdisciplinary approach with 9th grade teachers in core subjects to engage students in written and oral communications, the humanities, math, and science, with a focus on STEM. This course supports the inquiry process and familiarizes students with teamwork and a problem-solving approach to learning. Students will develop their presentation and research skills while developing a working mastery of the Google suite and its capabilities. This course is aligned with both the common core literacy standards and Massachusetts technology standards.

It is highly recommended that 9th graders take this course to help them become successful in technology skills required in their core subject projects.

PERSONAL FINANCE (Course Number 508-A) **2.5 Credits * One Semester * CP * Grades 10-12**

Students have many choices about how to spend their money, and this course helps them to make good decisions. Through the use of curriculum such as NEFE, Money Smarts, Junior Achievement Personal Finance, Practical Money Skills for Life, and checking account and budgeting simulations, this course gives students the tools they will need to make informed decisions related to spending, saving, borrowing, and investing. This semester course is also designed to provide students with knowledge of money & credit management and income tax preparation.

CAREER DEVELOPMENT (Course Number 513) **2.5 Credits * One Semester * CP * Grade 10-12**

This semester course is designed to provide the opportunity for students to explore a wide variety of careers using various career exploration programs including, but not limited to: Glencoe.com, Naviance (a college career ready program), Google sites, Microsoft Word 2010 documents and Lynda.com. Students will create a Google Portfolio site that includes a resume, letters of application, a cover letter, three references, and a student profile of interests and highlights. This career awareness course provides the opportunity for students to begin, explore, and map out their future.

BUSINESS RECORDKEEPING I (Course Number 502) **2.5 Credits * One Semester * CP * Grades 10-12**

In this semester course students will apply important business math concepts that will directly apply to real-life situations. Basic math applications will be integrated using Excel, providing a stepping-stone for future advanced math applications. Student will learn interest rates, car loans, budgeting, financial management, real estate, insurance, and other practical math applications that will provide students with essential skills for a successful future. *Excel experience not required.* This course, if taken with Business Recordkeeping II, is articulated with North Shore Community College (NSCC) as transferable college credit for a business math course. *This course does not count as a math credit.*

BUSINESS RECORDKEEPING II (Course Number 503) **2.5 Credits * One Semester * CP * Grades 10-12**

Prerequisite: Business Recordkeeping I (This course does not count as a math credit)

This semester course is a continuation of Business Recordkeeping I and is **required in order to receive North Shore Community College credit.** Advanced business math applications, including business analysis, statistics, and profit/loss financial statements, are integrated with Excel. Topics concerning the global economy will provide structure for integrated learning experiences. This course may serve as effective preparation for Accounting I.

ACCOUNTING I (Course Number 522) **2.5 Credits * One Semester * CP * Grades 10-12**

This semester course is a presentation of accounting principles and practices. Students will learn the entire accounting cycle for a service business. Any student who is considering a career in bookkeeping, accounting management, or marketing should complete this course. This course, when taken with Accounting II, will be articulated with North Shore Community College.

ACCOUNTING II (Course Number 531) **2.5 Credits * One Semester * Honors * Grades 10-12**

Prerequisite: Accounting I

This second semester course is a continuation of Accounting I and is **required in order to receive transferable North Shore Community College credit.** Students will learn to use the accounting software QuickBooks Pro to complete real-life accounting simulations. QuickBooks software is the number one accounting software used in industry today.

PRINCIPLES OF INFORMATION TECHNOLOGY **5 Credits * Full Year * CP * Grades 10-12**
(Course Number 560A)

This course will help build and refine knowledge and skills in the IT world, **emphasizing the business and entrepreneurial aspects of IT.** The students will master the basics of information technology, then progress to applications that will likely be used in the workplace, and finish by learning about online interconnectivity in daily life. This course will help students prepare for taking the Certiport IC3 Digital Literacy Certification exams. IC3 Digital Literacy Certification is a well respected and Internationally recognized credential. The three areas of IC3 certification are Computing Fundamentals, Key Applications, and Living Online.

BANKING THEORY (Course Number 551) **5 Credits * Full Year * CP * Grades 10-12**

This full-year course is designed to help students understand various banking practices and other important financial matters. Students will engage in financial planning, banking services, income tax preparation and comprehensive investing for the future. Students will be using a virtual business challenge SIMS program and will be able to compete in an investment challenge as well as a banking competition as part of the Massachusetts School Banking Association.
This course is scheduled during E-block in coordination with Banking Lab.

BANKING LAB (Course Number 553) **5 Credits * Full Year * Honors * Grades 11-12**

Prerequisite: Juniors and seniors who have taken Banking Theory and have submitted an application, job interview, and two references.

The Banking Lab will give students actual bank teller experience. A requirement of this course is that each student must successfully complete Cape Ann Savings Bank's teller training program for two weeks during summer vacation (*2 credits toward graduation*). The bank teller's responsibilities include: cashing checks, processing deposits, withdrawals, mortgage and loan payments, and opening new accounts. Each student teller is also responsible for settling his or her teller cash each day. The Gloucester Educational Savings Bank is a fully insured, on-line branch of the Cape Ann Savings Bank. Students must conduct themselves professionally and courteously. Upon completion of this yearlong program, each student will be a trained and experienced bank teller.
This course is scheduled during E-block in coordination with Banking Theory.

ADVANCED PLACEMENT® ECONOMICS **5 Credits * Full Year * AP * Grades 11-12**
(Course Number 509)

Prerequisite: For juniors and seniors by application and approval of instructor

This course is designed to engage students in research and analysis of local, national, and global economies. Macroeconomic and microeconomic concepts will be explored including scarcity, supply and demand, economic systems, models of economics, and fiscal and monetary policy. Financial literacy, stock market and investments will also be covered. Students will prepare to take the AP exams in both Microeconomics and Macroeconomics.

ENTREPRENEURSHIP (Course Number 517) **5 Credits * Full Year * CP * Grades 11-12**

Prerequisite: Ability to apply Microsoft Publisher and Adobe Photo Shop; teacher recommendation
Students in this course run Gloucester High Schools student run business Lucky Lobster Marketing that provides marketing and specialty services for local Cape Ann businesses as well as for the school district. Social media networking, blogging, and managing our business webpage are valuable skills learned. Students apply for various positions in the company that include president and vice president of various departments. Students use various software programs including Microsoft Publisher and Adobe Photo Shop to create flyers, posters, booklets, and business cards for clients in the community. Students have opportunities to receive commissions, scholarships and internship certificates.

MARKETING I (Course Number 562) **5 Credits * Full Year * CP * Grades 10-12**

Prerequisite: A "C" or better in 10th grade English

In this course students will explore the world of marketing. Students become members of DECA (Distributive Education Clubs of America), an international student marketing organization that offers students opportunities to compete at various levels using their marketing knowledge and written and oral communication skills. Students choose a marketing focus area such as Fashion Merchandising, Hospitality marketing, Financial Services marketing, International Business, or Restaurant Management. Students in this class operate and manage the DECA school store. This class will be a demanding, but rewarding "real-world" experience.

MARKETING II (Course Number 562-H) **5 Credits * Full Year * Honors * Grades 11-12**

Prerequisite: A "B" or better in 11th grade English

Students in this class operate and manage the DECA school store. If they are not already, students will become members of DECA. This course is offered to students who have taken Marketing I (or first year students with instructor approval). Students choose a marketing focus area such as Fashion Merchandising, Hospitality marketing, Financial Services marketing, International Business, or Restaurant Management.

SPORTS and ENTERTAINMENT MARKETING **2.5 Credits * One Semester * CP * Grades 11-12**
(Course Number 549-B)

The Sports & Entertainment industries are two of the most profitable industries in the U.S. as well as across the globe. Fans spend billions of dollars each year on fun and recreation. We will study these industries with the emphasis on the market planning and strategies that impact everyone. In this course students will understand the basic concepts of marketing including the functions of marketing, the marketing concept, demographics, psychographics, and geographics. Students will explore the basic economic concepts of free enterprise, including business ownership; property rights impacting sports & entertainment marketing and will design a marketing plan using P.I.C.S.A.M (Planning, Implementing, Controlling, Strategies, Analysis, measurement). Students will solve problems and work together to analyze case studies and situations in the Sports & Entertainment marketing fields.

HOSPITALITY and TOURISM **5 Credits * Full Year * CP/Honors * Grades 11-12**
(Course Number 566)

This course is designed to examine in detail the seven basic disciplines of Marketing- Distribution, Financing, Market Information, Management, Pricing, Product/Service Management, Promotion and Selling- with specific relationship to the Hospitality and Tourism industry. Key marketing strategies will be analyzed with regard to the hotel/motel, bed & breakfast, conference center & resort, restaurant and tourism industries. Emphasis and class projects will focus on identifying key market targets and players, understanding how cultural diversification influences markets, developing winning pricing strategies, using various types of media (cyber/social/print/television) for promotion and selling, identifying high customer service characteristics, and personal development of salesmanship / presentation techniques. Career, skill requirements, and employment opportunities in the Hospitality & Tourism industry will be extensively explored.
This course is fully articulated with Endicott College and may be taken for college credit, for which students will receive Honors credit.

CAREER and TECHNOLOGY EDUCATION

AUTOMOTIVE TECHNOLOGY

AUTOMOTIVE TECHNOLOGY I (Course Number 801) **5 Credits * Full Year * CP * Grades 9-12**

Automotive Technology I is an introduction to the major subsystems of the automobile: internal combustion engine, basic brake and steering operating principles, including automotive history with an emphasis on shop safety. Students will learn to use computer databases, charts, manuals, and graphs and the safe use of power and hand tools. Students will gather information and make intelligent decisions to effect successful hands-on repairs. (This is a MA DESE Chapter 74 course)

AUTOMOTIVE TECHNOLOGY II (Course Number 802) **10 Credits * Full Year * CP * Grades 10-12**

Prerequisite: Successful completion of Automotive Technology I

This course will expand upon the knowledge gained in Automotive Technology I. Students will study the theory of front-end alignment, electrical systems, emissions and their controls, tires and fuel systems while focusing on shop and tool safety. Students will work in these areas using automotive tools, computer-based data, trouble charts and manuals. Students will diagnose and correct automotive problems. (This is a MA DESE Chapter 74 course)

AUTOMOTIVE TECHNOLOGY III (Course Number 803) **15 Credits * Full Year * CP * Grades 11-12**

Prerequisite: Successful completion of Automotive Technology II

This course will focus on braking and steering systems, theory and repairs, automotive electrical systems and engine performance. Students will learn to use computer databases, manuals and charts, 4-wheel alignment computer, and 5-gas emissions analyzer. Diagnostic equipment will be used to identify problems, take measurements, make judgments, and affect solutions. (This is a MA DESE Chapter 74 course)

AUTOMOTIVE TECHNOLOGY IV (Course Number 804) **15 Credits * Full Year * CP * Grade 12**

Prerequisite: Successful completion of Automotive Technology III

This fourth year course will focus on hands-on repairs. Work skills and habits will be fine-tuned. A computer database and electronic test and repair equipment will be used frequently along with other major automotive tools. Shadowing and cooperative internships may be implemented as part of this course. (This is a MA DESE Chapter 74 course)

CABINET DESIGN and INNOVATION

CABINET DESIGN and INNOVATION (Course Number 681) **5 Credits * Full Year * CP * Grades 9-12**

Students will design and create woodworking projects of professional quality using various tools of industry. Students will receive instruction in how to incorporate techniques and strategies, as a means to convey academic concepts, in areas such as engineering design, marketing, research and development, time management, leadership, drafting, CNC models, presentation lectures, demonstrations, and weekly hands-on laboratory experiences. Students will utilize knowledge and applications from core classes as well as from multiple cross-curricular disciplines including Web 2.0, Computer Assisted Drawing (CAD) and DECA. Throughout the course students will receive feedback as they develop
their ability to meet Gloucester High School's Academic and Social Standards, how they understand and apply content literacy, and also how they demonstrate sound safety practices. Course projects will require students to meet 21st Century Skill Standards, while incorporating National Educational Technology Standards in a lab setting. Students in this hands-on, project-orientated course will receive feedback on daily (formative) progress as well as feedback on completed projects (summative) using an assessment rubric.

CABINET DESIGN & INNOVATION II (Course Number 681-B) **5 Credits *Full Year* CP * Grades 10-12**

Prerequisite: Passing grade in Cabinet Design and Innovation I

This course is a continuation of Cabinet Design and Innovation I with greater depth and increased difficulty of projects: Students will become more proficient in the use of technology and woodworking tools and procedures including CNC design and application. Evaluation includes daily progress and a final project assessment.

CABINET DESIGN & INNOVATION III (Course Number 681-C) **5 Credits *Full Year *CP* Grades 11-12**

Prerequisite: Passing grade in Cabinet Design and Innovation I

This course is a continuation of Cabinet Design and Innovation I with greater depth and increased difficulty of projects: Students will become more proficient in the use of technology and woodworking tools and procedures including CNC design and application. Evaluation includes daily progress and a final project assessment. *By arrangement with the instructor, Seniors may repeat this course for Honors credit with heightened expectations and increased responsibilities.*

CARPENTRY

CARPENTRY I (Course Number 821) **5 Credits * Full Year * CP * Grades 9-12**

This course teaches students basic carpentry skills with emphasis on safety, working with tools and wood. The course begins with small building projects and culminates in applying skills in the building of sheds and small buildings. (This is a Mass. DOE Chapter 74 course)

CARPENTRY II (Course Number 822) **10 Credits * Full Year * CP * Grades 10-12**

Prerequisite: Passing grade in Carpentry I

This second level course involves small buildings with an emphasis on siding and trim, using latest technologies. Various framing techniques from old to new will be analyzed and evaluated.
(This is a Mass. DOE Chapter 74 course)

CARPENTRY III (Course Number 823) **1 5 Credits * Full Year * CP * Grades 11-12**

Prerequisite: Passing grade in Carpentry II

This third level course will involve on-site building projects, such as homes and larger buildings. Students will learn how to frame from foundation to roof, complete exterior siding, trim, windows and doors. They will also learn to construct interior finish work. (This is a Mass. DOE Chapter 74 course)

CARPENTRY IV (Course Number 824) **15 Credits * Full Year * CP * Grade 12**

Prerequisite: Passing grade in Carpentry III

Students will increase their skill levels and refine their abilities in all aspects of carpentry in on-site building projects. Opportunities for cooperative and mentoring programs may be available. (This is a Mass. DOE Chapter 74 course)

CHILD STUDIES

WORLD OF CHILDREN (Course Number 611) **2.5 Credits * One Semester * CP * Grades 9-12**

This elective course examines the physical, intellectual and social/emotional development of children. Issues such as the role of heredity and environment, family, parenting, abuse, play, reading aloud, art, music and health will be studied, along with childhood development theorists. Guest speakers, special projects, hands-on learning, video and texts enhance the curriculum.

CHILD STUDY AIDE (Course Number 616) **5 Credits * Full Year * CP * Grades 10-12**

Students are given the opportunity to work with four and five year olds in a preschool setting within the high school. Responsibilities include helping student teachers with researching, planning, preparing and teaching lessons to the preschoolers, as well as organizing preschool materials and instructional space. All assignment and activities relate to the teaching of 4-5 year old children.

CHILD STUDY (Course Number 614) **15 Credits * Full Year * CP * Grades 11-12**

Students are given the opportunity to explore the world of four and five year olds in a preschool setting with children from the community. Students will brainstorm, research, prepare and implement themes into lessons and activity centers that will engage the preschooler's learning. Students will analyze and evaluate each lesson taught to the children through the use of a required, reflective, photographic journal. Topics including assessment of student learning, guidance techniques, and standards-based best practices for Early Childhood education. Students who complete this course are eligible for Early Education and Care certification.

ADVANCED CHILD STUDY (Course Number 615) **20 Credits * Honors * CP* Grades 12**

Prerequisite: Child Study

Seniors will have the opportunity to work with children at a district elementary school. They will work under the guidance of a cooperating teacher for four periods a day. Responsibilities include helping with classroom duties, creating developmentally appropriate lesson plans, working with small groups, and maintaining a reflective journal that showcases their classroom experiences. The Child Study teacher will observe the students at the field site. Students who complete this course are eligible for Early Education and Care certification.

COMPUTER AIDED DESIGN

COMPUTER AIDED DESIGN I (Course Number 692) **2.5 Credits * One Semester * CP * Grades 9-12**

This semester course explores computer aided design and drawing techniques. Use of mechanical drawing vocabulary, architectural vocabulary and associated CAD drawing tools will introduce the student to the world of mechanical drawing. Students will learn mechanical drawing by using *ProDesktop* software to create drawings in both 2D and 3D mode.

COMPUTER AIDED DESIGN II (Product Design) **5 Credits * Full Year * CP* Grades 10-12**
(Course Number 693)

Prerequisite: CAD I

This course continues the development of engineering design and analysis through architectural, mechanical and electrical graphics. It explores graphic representation using 2D and 3D modeling techniques using PTC *ProDesktop.* Students are also given the option of an introduction to Architectural Drawing using *Google Sketchup* and *Solidworks.*

COMPUTER AIDED DESIGN III(Architectural Design) **5 Credits *Full Year* Honors*Grades 11-12**
(Course Number 694)

Prerequisite: CAD II

This course is for the advanced student who intends to pursue a career in mechanical design in either architectural or mechanical engineering. Computer-based instruction is coupled with long-term design projects in either of the chosen disciplines. Students will work individually and as part of a team to complete various design projects.

CULINARY ARTS

INTRO to CULINARY ARTS (Course Number 603) **2.5 Credits * One Semester * CP* Grades 9-12**

This class offers an introduction to food preparation and presentation techniques and the world of culinary arts. Basic cookery methods, including main dishes and baking will be introduced.
Topics: knife tasks, safety, sanitation, recipe development, menu design, quality control, equipment identification and measuring.

CULINARY ARTS II (Course Number 602) **10 Credits * Full Year * CP/Honors * Grade 10-12**

Prerequisite: Culinary Arts I passing grade and instructor's approval

Advanced food preparation, production, and presentation techniques. Topics: quality food preparation, custom menus, café and catering operations, inventory, purchase orders, receiving and storing supplies, cost control, standardization, and entrepreneurial skills. ***Seniors may repeat this course for Honors credit with heightened expectations and increased responsibilities. (602-H)***

ELECTRICAL TECHNOLOGY

ELECTRICAL TECHNOLOGY I (Course Number 841) **5 Credits * Full Year * CP* Grades 9-12**

Students are issued a set of electrician's tools and a pouch. Hands-on projects include building low and high voltage circuits and related classroom instruction. The course focuses on simple and complex circuitry, Ohm's law, basic wiring, DC & AC circuits, code rules, residential wiring and safety. Class and shop time count toward hours for state licensure. (This is a MA DESE Chapter 74 course)

ELECTRICAL TECHNOLOGY II (Course Number 842) **10 Credits *Full Year* CP*Grades 10-12**

Prerequisite: Passing grade in Electrical Technology I

Students study Massachusetts electrical code, devices, circuits and materials. Additional types of circuits are studied, including appliances computing and sizing circuits. Hands-on experience includes shop/house projects, motor controls, school wiring and maintenance. Class and shop time count toward hours for state licensure. (This is a MA DESE Chapter 74 course)

ELECTRICAL TECHNOLOGY III (Course Number 843) **15 Credits *Full Year*CP* Grades 11-12**

Prerequisite: Passing grade in Electrical Technology II

Topics include residential wiring, commercial wiring, motor controls, Massachusetts electrical code and Electricity-3-power, generation and delivery heating systems, single phase services, transformers, and motor controls. Advanced wiring projects, motor control trainers, house projects, school wiring and maintenance projects and trouble-shooting offer hands-on experience in the field. Class and shop time count toward hours for state licensure. (This is a MA DESE Chapter 74 course)

ELECTRICAL TECHNOLOGY IV (Course Number 844) **15 Credits * Full Year * CP * Grade 12**

Prerequisite: Passing grade in Electrical Technology III

Students refine their knowledge of commercial and industrial wiring, changes in electrical code and Electricity-4-AC/DC motor control and maintenance, florescent lighting, inductive and capacitive reactance, three phase systems, motors and generators. Repairs and troubleshooting and possible entry into a cooperative program offers a hands-on experience. Class and shop time count toward hours for state licensure. (This is a MA DESE Chapter 74 course)

MACHINE TECHNOLOGY

MACHINE TECHNOLOGY I (Course Number 861) **5 Credits * Full Year * CP * Grades 9-12**

This course is an entry-level experience designed to introduce students to the manufacturing of metal parts from raw materials including brass, aluminum, steel, plastic and others. Students learn the basic set up and operation of machine tools to cut or grind metal into parts with precise dimensions. Safety procedures and the proper operation of all machine and hand tools are emphasized. Students will learn the art of reading blueprints and charts, use math formulas and learn shop terminology. (This is a MA DESE Chapter 74 course)

MACHINE TECHNOLOGY II (Course Number 862) **10 Credits * Full Year * CP * Grades 10-12**

Prerequisite: Passing grade in Machine Technology I

This course is a continuation of Machine Technology I. Students review safety and operational procedures and progress into more complex setting-up and operation of lathes, millers, and grinders. It is a project-based learning experience where students can design and manufacture hand tools and parts for their own use. (This is a MA DESE Chapter 74 course)

MACHINE TECHNOLOGY III (Course Number 863) **15 Credits * Full Year * CP * Grades 11-12**

Prerequisite: Passing grade in Machine Technology II

This is a three block vocational program where students will learn to perform various tasks of computer-controlled millers and lathes. They will also advance their knowledge of dimensioning and machining. At this level students will enter the world of computer numerical controlled machining, known as CNC. (This is a MA DESE Chapter 74 course)

MACHINE TECHNOLOGY IV (Course Number 864) **15 Credits * Full Year * CP * Grade 12**

Prerequisite: Passing grade in Machine Technology III

This course enhances the computer programming and set-up of various complex parts. Students at this level will design parts and tools. They will set-up and manufacture a designed part or tool on a CNC machine (lathes and millers). Students will continue to enhance their skills and abilities in manual machines as well. Opportunities for cooperative internships may exist. (This is a MA DESE Chapter 74 course)

COMPUTER SCIENCE DEPARTMENT

INTRO. to INFORMATION TECHNOLOGY **2.5 Credits * One Semester * CP * Grades 9-10**
(Course Number 630)

Information technology impacts all aspects of human endeavor. This course provides an introduction to the technical and social aspects of Information Technology. Topics include computer hardware, computer programming, ethical issues, data security, and privacy. IT applications in areas such as business, education, and the arts will be examined. Students will need to be able to utilize Microsoft Office and Google-based applications to complete course projects that will be integrated throughout the course.

INTRODUCTION TO Programming in Java and COMPUTER SCIENCE
(Course Number 630A) **2.5 Credits * One Semester * CP * Grades 10-12**

This course is a first step into the world of computer science, and whether you want to become a software engineer, or collaborate with software engineers, this course is for you.
Students will learn the fundamentals of Java, one of the two dominant object-oriented languages used in the world today. The focus is on developing quality, working programs that solve real problems. This course will also provide an overview of computer science including a basic understanding of how computer programs work, the fundamentals of the program development process and how computing impacts students' everyday life.

ADVANCED PLACEMENT ® COMPUTER SCIENCE **5 Credits * Full Year * AP * Grades 10-12**
(Course Number 630B)

Prerequisite: Introduction to Programming in Java and Computer Science, Advanced Contemporary Programming Languages or approval of the instructor

This course follows the AP Computer Science curriculum, which is comparable to a first semester college course in computer science. The emphasis is on object oriented program design using Java language. Units of study include program implementation and analysis, standard data structures, objects, and algorithms, and ethical and social implications of computing. Students who take this course are expected to take the AP Computer Science exam in the spring.

APP DESIGN and DEVELOPMENT **2.5 Credits * One Semester * CP * Grades 10-12**
(Course Number 630D)

President Obama urges, "Don't just play on your phone, program it!" You can design and develop Apps that are useful and entertaining. Whatever your passion or career interest, there must be an App that solves a problem you may encounter or helps you move forward. In this course students develop software solutions by building mobile apps, which may include smart phone (Android, ios, and/or windows), tablet, and/or embedded systems. Students work in teams and typical activities include both design reviews and code reviews.

ADVANCED CONTEMPORARY PROGRAMMING LANGUAGES
(Course Number 630E) **2.5 Credits * One Semester * CP * Grades 10-12**

Python is easy to learn and reads almost like English. It is useful in analyzing data, building websites, making art or music and more. Knowing Python enables you to learn other languages like Java or C++ more easily. Even MIT uses Python to teach beginning computer science and programming courses. Top tech companies like Google expect their engineers to know Python. The course will focus on planning and organizing programs, as well as the grammar of the Python programming language.

TECH SUPPORT **2.5 Credits * One Semester * CP * Grades 11-12**
(Course Number 630T)

Prerequisite: Approval of IT administrators
Student Tech Support is a hands-on study of technology integration in an educational context that prepares students to support GHS students and faculty. This course requires students to assess problems throughout the day and define the best approach to addressing or solving the problem. Students may be required to complete and maintain a blog of their experiences and complete several projects. These projects might include creating "self-help" guides and "cheat sheets" for faculty.

ENGLISH DEPARTMENT

Students must pass four years of English to graduate from Gloucester High School. All students must take and pass English 9, English 10, and English 11. Seniors must pass an ENGLISH 12 requirement. *Summer reading is required as preparation for all Honors and AP classes.*

The English / Language Arts program at Gloucester High School is designed to provide appropriate instruction for students of varying skill levels. Teacher recommendations at each grade level are made on the basis of each student's ability and performance during the current school year.

MCAS READING AND WRITING FUNDAMENTALS **2.5 Credits *One Semester*CP*Grades 9/10**
(Course Number 015) ****taken concurrently with English 9 or 10 **elective credit assigned**

Assessment data and other diagnostic measures will determine students who are performing significantly below expected proficiency levels, thereby requiring additional time and study in reading concepts.

Reading and Writing Fundamentals provides students with intensive remedial instruction in reading and writing. Some students may need to work on foundation skills, while other students may need assistance in comprehension tasks. The overall goal of Reading and Writing Fundamentals is to move students towards acquiring the essential skills they need to perform successfully in their future coursework and on standardized measures.

Identified 9th and 10th grade students may be required to take Reading and Writing Fundamentals concurrently with English 9 or 10.

ELA SAT PREP **2.5 Credits * One Semester * CP2 * Grade 11-12**
(Course Number 073) ****elective credit assigned**

This course is designed for Juniors who plan to take SAT in January or May, or Seniors who plan to take SAT in December. Students who select SAT Prep will learn effective test-taking methods, techniques, and strategies to help them maximize their SAT reading and writing scores. Lessons focus on essay writing, reading comprehension, vocabulary building, and grammar instruction.

CREATIVE WRITING WORKSHOP **2.5 Credits * One Semester * CP* * Grades 9-12**
(Course Number 051) ****elective credit assigned**

Creative Writing Workshop is designed for students who are interested in developing skills in a variety of creative writing genres. Students may elect the course as often as they like during either semester in grades 9-12. In this course students learn to read like a writer and to create original writing within a variety of genres and styles, including poetry (both traditional and innovative), short fiction, drama, and creative nonfiction. After surveying the genres students have the opportunity to create a longer work (a collection of poetry or stories, a memoir, a novella, a film script, etc.) in a genre of particular interest. Work created within the class may be submitted for publication in the print and online versions of the Gloucester High School literary magazine, *The Elicitor*.

GRAPHIC NOVELS **2.5 Credits * One Semester * CP* * Grades 10-12**
(Course Number 090) ****elective credit assigned**

The Graphic Novel course is designed for students who wish to study the art forms, histories, and major works found in sequential art. Students will read a variety of graphic novels from the 1950s to today while exploring the art form in its various manifestations: memoirs, travel writings, coming of age stories, science fiction pieces, and dystopian imaginings. We will study the artistic techniques found in this unique genre of storytelling while creating a graphic novel of our own using various artistic mediums. Students will learn about the history of the industry from its major graphic novel companies that have shaped our cultural landscape down to the independent and self-published artists found both locally and worldwide. Students will read a variety of graphic novels and will respond with essays, presentations, student-facilitated panels, and letters to authors and artists.

MEDIA & PUBLICATIONS **5 Credits * Full Year * CP * Grades 10-12**
(Course Number 066-A) ****elective credit assigned**

Note: Editors receive Honors credit

This class is designed for students interested in working on the production of the school yearbook and newspaper, *The Gillnetter*. All aspects of yearbook and newspaper publication will be incorporated. Yearbook- This will include photography, page design, advertisement design, as well as the sale of advertisements. Students will work closely with the senior class to create the senior section pages (senior formal pages, senior message pages, and senior superlatives). Students may wish to become an editor of sections of the yearbook, examples are: sports editor, clubs and organization editor, and advertising editor. Students will learn to use various software packages to enhance the design.
The Gillnetter- This is the monthly school newspaper publication of GHS. This will include advertising sales, graphic design, writing, editing, photography, bookkeeping, formatting, keyboarding, layout, distribution, circulation, and technology. Students may choose to specialize in one or many of the components of production. Strong decision making skills, trustworthiness, and cooperation are necessary to function as part of the *Gillnetter* staff. Field trips to local publishers and classroom visits by local reporters will augment the course. This will be a co-taught course within Business Education and English/Language Arts.

ENGLISH 9 (Course Number 011) **5 Credits * Full Year * Honors * Grade 9**

Prerequisite: GHS ELA department rubric will be used to assess preparation for this class

This course requires strong verbal ability, independent reading and writing, and an avid interest in the language arts. By reading and writing extensively, students will develop their analytical reading and writing skills. Comprehension, vocabulary, and communication skills (speaking, listening, and presenting) will be strengthened. A thematic approach will introduce the elements and styles of various literary genres: novels, short stories, poems, and plays. Library and research skills will be developed.

ENGLISH 9 (Course Number 012) **5 Credits * Full Year * CP1 * Grade 9**

This course is designed to improve and further develop reading, writing, vocabulary, speaking, and listening skills. The development of sentence, paragraph, and essay structures is a primary focus of the writing program. A thematic approach will introduce the elements and styles of various literary genres: novels, short stories, poems, and plays. Library and research skills will be developed.

ENGLISH 9 (Course Number 013) **5 Credits * Full Year * CP2 * Grade 9**

This course is a structured program designed to provide a variety of learning experiences that will improve and further develop reading, writing, vocabulary, speaking, and listening skills. The development of sentence, paragraph, and essay structures will be stressed in the writing program. A thematic approach will introduce the elements and styles of the various literary genres: novels, short stories, poems, and plays. Library and research skills will be developed.

ENGLISH 9 (Course Number 909-A) **5 Credits * Full Year * Core Focus * Grade 9**

Prerequisite: Recommendation of the GHS Special Education Department

This course combines the ninth grade curriculum with remedial instruction in reading comprehension, vocabulary, and written language skills. Development of correct sentence and paragraph structure will be stressed in the writing program. Specific, possibly individualized areas of focus also include grammar, short stories, plays, novels and poetry.

ENGLISH 10 (Course Number 021) **5 Credits * Full Year * Honors * Grade 10**

Prerequisite: Teacher recommendation

This challenging course is designed for enthusiastic students who have demonstrated strong verbal ability and excellent performance in English 9. The curriculum focuses on the development of analytical and evaluative writing, reading, and thinking skills, as students prepare for the MCAS and SAT exams. Students will expand their understanding of vocabulary and will sharpen their listening and speaking skills. A thematic approach to the study of American literature will deepen students' understanding of American culture. Library and research skills will be strengthened.

ENGLISH 10 (Course Number 022) **5 Credits * Full Year * CP1* Grade 10**

This course is designed to further develop analytical and evaluative writing, reading, and thinking skills. The focus of the writing program will be long and short essay forms as teachers help students prepare for the MCAS and SAT exams. Students will build their vocabularies and continue to develop listening and speaking skills. A thematic approach to the study of American literature will strengthen students' understanding of American culture. Library and research skills will be developed.

ENGLISH 10 (Course Number 023) **5 Credits * Full Year * CP2 * Grade 10**

This course is a structured program designed to improve writing, reading, vocabulary, speaking, and listening skills. As students prepare for the MCAS and post-secondary world, long and short essay forms will be emphasized. A thematic study of American literature will support the development of language arts skills and strategies. Students will learn to manage library and research methods.

ENGLISH 10 (Course Number 910-A) **5 Credits * Full Year * Core Focus * Grade 10**

Prerequisite: Recommendation of the GHS Special Education Department

This course combines the tenth grade curriculum with continued remedial instruction in reading comprehension, vocabulary, and written language skills. The writing program reviews sentence and paragraph structure and moves into the development of open response writing and the multiple-paragraph essay. Students will develop their library and on-line research skills. The course focuses on MCAS preparation and a thematic study of American literature.

ADVANCED PLACEMENT® ENGLISH LANGUAGE AND COMPOSITION (Course Number 071) **1 Credit * Full Year * AP * Grade 11**

Prerequisite: Teacher recommendation

This is a rigorous course for students who desire a college-level challenge and who are prepared to invest time and energy to achieve success. The course requires the use of comprehensive and sophisticated reading, writing, and critical thinking skills. Students will study a variety of genres and writing styles with particular emphasis on rhetorical analysis and argument. Productive participation in class discussions is expected. Students will be required to complete reading and writing assignments during the summer. Success on the AP exam is a goal of the course.

ENGLISH 11 (Course Number 031) **5 Credits * Full Year * Honors * Grade 11**

Prerequisite: Teacher recommendation

This challenging course is designed for enthusiastic students who have demonstrated high achievement in their previous English classes. The curriculum continues to focus on fostering analytical, evaluative, and creative thinking while simultaneously developing a wide range of reading and writing skills. Library and research techniques will be reinforced, and a research paper will be required. The course explores themes found in major British novels, poems, and plays.

ENGLISH 11 (Course Number 032) **5 Credits * Full Year * CP1 * Grade 11**

This course is designed to help students deepen their analytical, critical, evaluative, and creative thinking, while continuing to develop a wide range of reading and writing skills. The writing program will stress the development of expository, narrative, and persuasive essays. Library and research techniques will be reinforced, enabling the students to write a research paper. The course explores themes found in British literature.

ENGLISH 11 (Course Number 033) **5 Credits * Full Year * CP2* Grade 11**

This course is designed to strengthen and reinforce writing, speaking, listening, vocabulary, and thinking skills developed in grade 9 and 10. The writing program will help students work towards greater independence when composing expository, narrative, and persuasive essays. With support students will use library and research skills to produce a research paper. The course is built upon themes found in the readings, including major works of British literature.

ENGLISH 11 (Course Number 911-A) **5 Credits * Full Year * Core Focus * Grade 11**

Prerequisite: Recommendation of the GHS Special Education Department

This course integrates Mass. Curriculum frameworks with focused instruction in reading comprehension, vocabulary and written language. The writing program reviews sentence and paragraph structure. Students will continue to apply library and on-line research skills. An area of focus for this course includes transition skills to college and/or the workplace.

***ENGLISH 12 REQUIREMENTS: The following courses satisfy the English 12 requirement**

ADVANCED PLACEMENT® ENGLISH LITERATURE AND COMPOSITION (Course Number 072) **1 Credit * Full Year * AP * Grade 12**

Prerequisites: Teacher recommendation

This is a rigorous course for students who desire a college-level challenge and who are prepared to invest time and energy to achieve success. The course requires the use of comprehensive and sophisticated reading, writing, and critical thinking skills. Students will explore writing styles, linguistic devices, and literary techniques in novels, short stories, poetry, and drama. Students are expected to participate actively in class discussions. Students will be required to complete reading and writing assignments during the summer. Success on the AP exam is an important goal of this class.

HUMANITIES (Course Number 042) **5 Credits * Full Year * Honors * Grade 12**

Prerequisites: Teacher recommendation

Humanities is a challenging course for students who have demonstrated a high level of proficiency in reading, writing, and evaluative thinking. Students will be required to demonstrate mature, creative, interdisciplinary writing and thinking skills. Through a thematic approach to the study of specific literary and philosophic works, students will think critically and write analytically, thereby gaining insight into authors, cultures, and the students' own lives.

DRAMATIC LITERATURE (Course Number 081H/081) **5 Credits * Full Year * Honors/CP1 * Grade 12**

Students who elect Dramatic Literature will explore the birth of modern drama through a wide variety of lenses and genres. Thematically based, the course will emphasize the development of creative, independent thinking and writing skills. Acting is a major part of the course. The use of dramatic techniques will help students learn to read and to write with greater insight. Students will be expected to present and perform material in front of their peers. Content may also include poetry and short stories that reflect literary themes. Students who elect dramatic literature for honors credit will be required to write more extensively.

AUTHORS OF THE AMERICAS (Course Number 043) **5 Credits * Full Year * CP1 * Grade 12**

Students who choose Authors of the Americas will develop the reading, writing, and critical thinking skills needed for the academic and workplace challenges of life after high school by exploring literature by North and South American writers. The ideas and styles of authors from different cultures and time periods will be explored through essays, reflective writing, and research papers. Students will also write college admission essays and fine-tune proofreading and editing skills.

WORLD LITERATURE (Course Number 049) **5 Credits * Full Year * CP1 * Grade 12**

Students who choose World Literature will develop reading, writing, and critical thinking skills needed for life after high school by exploring multi-cultural literature from around the world. Students will respond to ideas and themes found in a variety of genres by writing essays, reflective papers, descriptive sketches, and research papers. Students will write college application essays and will improve their proofreading and editing skills.

LITERATURE BY WOMEN (Course Number 045H/045) **5 Credits * Full Year * Honors/CP1 * Grade 12**

Literature by Women is designed to explore and evaluate literature in various genres by female authors such as Walker, Tan, Austen, Kincaid, Angelou, Bronte, Hurston, Alvarez, Atwood and Plath to list a few. Students will examine literature and discuss the changing roles and social attitudes of women throughout the 19th and 20th centuries by deconstructing distinctive female experiences and the significance of their roles. By composing essays, reflective papers, and personal biographies students will develop writing skills needed for academic and workplace challenges beyond high school. Students will also write college admission essays and improve their proofreading and editing skills. Students who elect Literature by Women for honors credit will be required to read and write more extensively.

READING AND WRITING BEYOND HIGH SCHOOL **5 Credits * Full Year * CP2 * Grade 12**
(Course Number 047)

This course focuses on helping students develop the English language skills, social awareness, personal habits, and emotional intelligence necessary for citizenship, daily life, and employment after high school. Students will write reflective personal narratives, thoughtful explorations of texts, and practical business documents. Reading will focus on comprehension and analysis related to success in the workplace and community after high school. Workplace and life skills, including organization, clear writing, and appropriate verbal communication will be emphasized alongside citizenship skills.

ENGLISH 12 (Course Number 912-A) **5 Credits * Full Year * Core Focus * Grade 12**

Prerequisite: Recommendation of the GHS Special Education Department

This course integrates Mass. Curriculum frameworks with continued instruction in reading comprehension, vocabulary and written language. The program emphasizes organization, grammar, punctuation, and appropriate communication skills for transition to college and/or the workplace.

ENGLISH LANGUAGE LEARNERS: Students who are not native to the English language may be assigned to the following two courses.

ESL I (ENGLISH as a SECOND LANGUAGE) – ESL **10 Credits * Full Year * CP * Grades 9-12**

(Beginning) This is an introductory course required for non-native speakers of English who have limited speaking and writing fluency. The course meets for two blocks each day and the language of the classroom is English. The course teaches basic grammar concepts and begins to develop academic vocabulary. The course is designed to strengthen reading comprehension and develop speaking and writing fluency.

ESL II- ESL **5 Credits * Full Year * CP * Grades 10-12**

(Intermediate) This course is required for intermediate English language learners. The course is designed to strengthen speaking, reading and writing skills in English. Particular emphasis is placed on writing well-organized paragraphs that include evidence from a text. This course teaches students the academic vocabulary they will need to succeed in the classroom.

WORLD LANGUAGES DEPARTMENT

The World Languages Department offers courses in French, German, Italian, and Spanish. Which language you choose is a matter of personal choice. There is no "easier" or "better" one to learn. Learning a language requires the desire and willingness to work. It takes time to become fluent in a new language. If you choose to study a language for two years, you can attain limited basic communication and reading skills. However, if you choose to study longer, you can progress toward fluency. In either case, you will find that languages open doors to your future.

The study of world languages is more than an academic exercise. It increases employment opportunities, enhances English and communication skills, helps students to understand foreign cultures and even gives a new perspective of their own culture. Two or three consecutive years of studying a language serves as an entrance requirement for many college and universities in the U.S. Some institutions will give college credit for, or even exempt students from, the language requirement for some degrees if a student can demonstrate proficiency in high school language courses.

At GHS, our objective is for students to achieve proficiency in speaking, listening, reading and writing as well as an awareness of the history, geography and culture of the target language countries.

FRENCH I (Course Number 411) **5 Credits * Full Year * CP * Grades 9-12**

French I is an introduction to French language and culture and is the first year course of a 4-year college preparatory sequence. The ultimate goal of this course is to lay the foundation for the mastery of French as a second language. The basic structure of the French language and the culture of France are introduced. Emphasis is placed on vocabulary building, grammar, pronunciation, elementary reading, and listening comprehension. In addition to mastering a basic vocabulary and attaining a fundamental fluency in French students will by contrast and comparison gain insights about their own language and culture.

FRENCH II (Course Number 412) **5 Credits * Full Year * CP * Grades 10-12**

Prerequisite: French I

French II is a continuation of French I. The ultimate goal of French II is the acquisition of a second language through increased fluency in French and improved reading and writing ability. Writing skills are stressed and more complex readings are introduced and developed. More intricate forms of the language structure are introduced. Emphasis continues to be placed on a command of the language as well as on French culture.

FRENCH III (Course Number 413 or 413-H) **5 Credits * Full Year * CP/Honors * Grades 11-12**

Prerequisite: French II; ***This course may run as French III Honors***

French III is a continuation of French II and is an intellectually challenging course that will continue to prepare students for French IV and beyond. All four communication skills will be emphasized. Students will continue to build upon their base of French vocabulary. Speaking will become more fluent and idiomatic. Reading and writing skills will become more analytical. Continued exploring of francophone culture. There will be greater exposure to authentic French literature. Strengthened confidence in communicating in French will be a major goal.

FRENCH IV (Course Number 414-H) **5 Credits * Full Year * Honors * Grade 12**

Prerequisite: French III

This course is the last year of a 4-year sequence. Students will review basic grammar from previous years. Students will be working toward accurate, sophisticated oral and written expression. Students will be exposed to a historical and literary survey of French history, literature, and culture. Students are required to write journals and short summaries. French films may be used to enhance oral comprehension.

GERMAN I (Course Number 421) **5 Credits * Full Year * CP * Grades 9-12**

German I is an introductory course in the German Language. The basic structure of the German language and the culture of Germany are introduced. Emphasis is placed on vocabulary building and all four skills of language learning (reading, writing, listening and speaking)

GERMAN II (Course Number 422) **5 Credits * Full Year * College Prep * Grades 10-12**

Prerequisite: German I

German II is a continuation of German I. More intricate forms of the language structure and more complex readings are introduced. Emphasis continues to be on further development of the four skills to achieve a greater command of the language as well as on German culture.

GERMAN III (Course Number 423 or 423-H) **5 Credits * Full Year * CP/Honors * Grades 11-12**

Prerequisite: German II

The fundamental grammar concepts learned in the previous two years of the language are reviewed and expanded in this course. The four basic skills are further developed to achieve a greater command of the language in each area. Students will be asked to write summaries and/or essays and will be introduced to a variety of short stories and literature of the German language. Students will also focus on geography and culture.

GERMAN IV (Course Number 424-H) **5 Credits * Full Year * Honors * Grade 12**

Prerequisite: German III

This course develops listening and speaking skills to a level where students can demonstrate an understanding of conversational language and hold extended conversations on a variety of topics. The class stresses comprehension of literary texts and sophisticated, accurate written and oral expression. Vocabulary will be expanded through weekly writings on assigned topics. Students will be able to express themselves orally in class discussions on current events. In grammar, the conditional and the subjunctive are introduced and mastered.

ITALIAN I (Course Number 432) **5 Credits * Full Year * Honors * Grades 9-10**

This is a first year class for students who already have some knowledge of the spoken language or Sicilian dialect, or do well in other languages. The emphasis is placed on establishing correct speech patterns and mastering basic grammatical structures. Vocabulary building and simple conversation are included in readings and class exercises. The Italian culture, food, art and people will be studied.

ITALIAN I (Course Number 431) **5 Credits * Full Year * CP * Grades 9-12**

This is a first year course of a 4-year college preparatory sequence. It is designed for students with no previous knowledge of the Italian language. The emphasis is placed on establishing correct speech patterns and mastering basic grammatical structures. Vocabulary building and simple conversations are included in readings and class exercises. The Italian culture, food, art, and people will be studied.

ITALIAN II (Course Number 434) **5 Credits * Full Year * Honors * Grade 10-11**

Prerequisite: Italian I with a "B" or better

This course is a continuation of Italian I. The major concepts of the structure of the language are reviewed and finer grammatical concepts of the language are introduced. Famous Italian artists and monuments are studied. More sophisticated reading passages are studied. Students will express themselves, both in speaking and writing, on a more complex level.

ITALIAN II (Course Number 433) **5 Credits * Full Year * CP * Grade 10-12**

Prerequisite: Italian I

This course is a continuation of Italian I. More intricate forms of the structure of the language are introduced. Emphasis continues to be placed on speaking, listening comprehension, and the study of the Italian culture. More complex reading passages, as well as writing skills, are introduced and developed. Students will study the past tense.

ITALIAN III (Course Number 436) **5 Credits * Full Year * Honors * Grades 11-12**

Prerequisite: Italian II with a "B" or better

The fundamental grammatical concepts learned in the previous two years of the language are reviewed and expanded. The four basic skills are further developed to achieve a greater command of the language in each area. Students will be asked to write summaries and/or essays. Students will be introduced to a variety of short stories and literature in the Italian language. Students will also focus on geography and culture.

ITALIAN III (Course Number 435) **5 Credits * Full Year * CP * Grades 11-12**

This course provides students with a review of the Italian grammar learned in the previous two years. The focus of this course is to improve oral proficiency in the Italian language and encourages verbal participation in the classroom. Vocabulary will be enriched through short stories and class discussion in the target language.

ITALIAN IV (Course Number 438) **5 Credits * Full Year * Honors * Grade 12**

Prerequisite: Honors Italian III

This course develops listening and speaking skills to a level where students can demonstrate an understanding of conversational language and hold extended discourse on a variety of topics. The class stresses comprehension of literary texts and accurate written and oral expression. Vocabulary is expanded through weekly writings on assigned topics. Students will be able to express themselves orally in class discussions on current events. In grammar, the conditional and the subjunctive are introduced and mastered. Portfolio assessments will be collected throughout the year.

ITALIAN IV (Course Number 437) **5 Credits * Full Year * CP * Grade 12**

Prerequisite: Italian III

Italian IV builds and expands on vocabulary and grammar from Italian III. The vocabulary remains conversational. Students are required to use vocabulary in conjunction with grammar in conversation, oral presentations, compositions and journals. The four basic skills are further developed to achieve a greater command of the language in each area. Comprehension skills are developed through the reading and discussion of short readers. Portfolio assessments will be collected throughout the year.

Any student who has previously studied Spanish, or comes from a Spanish speaking home, may be exempt from taking Spanish 1. Please see the program leader for a placement test.

INTRODUCTION to SPANISH (Course Number 440) **5 Credits * Full Year * CP2 * Grades 9-12**

This course is an introduction to the language and culture of the Spanish-speaking world. This course is designed mainly for those students who want to take a language at a slower pace with specific academic study skills in learning a second language are emphasized. Vocabulary building, language structure and projects are a significant focus of this course. Students who successfully complete this course may elect Spanish I the following year. ***Note: This course does not fulfill a college entrance requirement.***

SPANISH I (Course Number 441-H) **5 Credits * Full Year * Honors * Grades 9-10**

Prerequisite: 8th grade teacher / team recommendation

This is a first year course for students who already have some knowledge of the Spanish language. The emphasis is placed on establishing correct speech patterns and mastering basic grammatical structures. Vocabulary building and simple conversation are included in readings and class exercises. This class will move at a faster pace compared to the college prep counterpart. It is essential that students are able to work independently and have well-developed study skills. *A placement test will be given to interested students in the spring of 8th grade.*

SPANISH I (Course Number 441) **5 Credits * Full Year * CP * Grades 9-12**

This course is an introduction to the language and culture of the Spanish-speaking world. Emphasis is placed on establishing correct patterns and basic grammatical structures. The vocabulary in the text will immediately allow students to use the language in everyday situations.

SPANISH II (Course Number 443) **5 Credits * Full Year * Honors * Grades 10-11**

Prerequisite: Spanish I "B" or better and/or recommendation of the teacher.

This class moves at a faster pace than Spanish II College Preparatory. Speaking and writing are emphasized. Students are expected to take a more active role in their learning of the language. The vocabulary at this level is conversational. Grammar concepts are expanded upon to facilitate students' speaking and writing. Oral comprehension is further developed. Good class attendance and class participation are extremely important.

SPANISH II (Course Number 442) **5 Credits * Full Year * CP* Grades 10-12**

Prerequisite: Spanish I

This course is a continuation of Spanish I. Additional grammatical structures are introduced. Vocabulary and grammar structure are reviewed and expanded upon. Students will be able to express themselves orally and in writing in both the present and past. The four basic skills are further developed to achieve a greater command of the language.

SPANISH III (Course Number 445) **5 Credits * Full Year * Honors* Grades 11-12**

Prerequisite: Spanish II with a "B" or better and/or recommendation of the teacher.

By the end of the school year, students in Spanish III Honors will have studied all the basic grammar points including the subjunctive mood. This class will give students a solid foundation in the language. At this level, writing short paragraphs and compositions is required. Listening and oral skills in Spanish are refined to ensure greater ability for students to communicate in the language. Short readers will be introduced and discussed in Spanish.

SPANISH III (Course Number 444) **5 Credits * Full Year * CP* Grades 11-12**

Prerequisite: Spanish II

This course expands upon vocabulary and grammar from the previous two levels. The vocabulary learned at this level is conversational. Students are required to use vocabulary in conjunction with correct grammar in conversation, oral presentations, and short compositions. The four basic skills of the language are further developed to achieve a greater command of the language in each area. This course will focus on the culture of additional Spanish speaking countries.

SPANISH IV (Course Number 447) **5 Credits * Full Year * Honors * Grades 11-12**

Prerequisite: Spanish III Honors

This course is the last of a 4-year sequence. By the end of the year students will have developed listening and speaking skills that will enable them to demonstrate an understanding of conversational language and give extended discourse on a variety of topics. The class emphasizes sophisticated, accurate oral and written expression. Focus areas are conversation and grammar with an introduction to literature. In grammar, emphasis is on review and expansion of more advanced syntax to improve comprehension and oral expression. Students will write on personal topics as well as stories read in class. Films in Spanish may be used to enhance comprehension.

SPANISH IV (Course Number 446) **5 Credits * Full Year *CP * Grade 12**

Prerequisite: Spanish III

This course is the last year of a 4-year sequence. Students will review all the basic grammar from the previous years and expand on the use of more advanced grammar. Students will write journals, short compositions, summaries and give oral presentations. Short story readers in the target language may be used for class discussion. The four basic skills of the language are further developed to achieve a greater command of the language in writing and speaking. By the end of the fourth year, students will have had a solid base in Spanish grammar. This will serve them well in college placement entrance exams.

SPANISH for SPANISH SPEAKERS **Credits * Full Year * CP * Grades 9-12**
(Course Number 440S)

Prerequisite: Be able to speak Spanish at a native or near native level.

This class is recommended for students who are native Spanish speakers. In this class students will learn the correct syntax of the language, expand their Spanish vocabulary, and further their skills in the four major areas. Students will be introduced to authentic Spanish and Latin American literature. Films may be used to further enhance oral and listening skills. This course will be conducted entirely in Spanish.

HEALTH and FITNESS DEPARTMENT

HEALTH & WELLNESS (Course Number 580) **2.5 Credits * One Semester * CP * Grade 9**
**Required for all 9th graders

This class will focus on nutrition and weight management, physical fitness, pregnancy prevention, CPR and first aide, substance use, abuse and awareness, stress management and emotional well-being, in addition to environmental health issues. Students will study the components of healthy relationships, reproductive health, and personal safety. Topics will include drug education, human sexuality issues, and domestic and dating violence. This course will help foster positive aspirations and productive, healthy decision-making.

PHYSICAL EDUCATION (Course Number 572) **2.5 Credits * One Semester * CP * Grades 9-12**

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students' interest throughout their lives. Students apply movement principles and sport/game strategies to refine skills, and actively participate in sports and games to enhance their personal competence and personal fitness. They are encouraged to develop leadership skills and are given opportunities to practice goal-setting, decision-making, social, and interpersonal skills. Classes will be geared toward improving fitness and will involve pre and post physical fitness testing. Students in this course will be able to participate in mini courses in fitness. This course will consist of 2 leisure time physical activities, 2 fitness courses. Some of these activities may include:

Leisure Time Activities: Tennis, badminton, golf, basketball, paddleball, volleyball, walking,
Fitness Activities: Cross training, weight training, science of stretching, fitness games, jogging

STRENGTH AND CONDITIONING (Course Number 579) **2.5 Credits *One Semester* CP *Grades 10-12**

Prerequisite: "C" or better in #572

Strength and Conditioning is designed to improve muscular strength, muscular endurance, cardio-respiratory endurance, flexibility, and body composition. This course will expose students to a wide variety of strength and conditioning modalities. Students will learn and perform exercises for all of the major muscle groups of the body and learn how to organize them into a safe and well-balanced workout plan. The primary goal of this course is to promote positive life-long exercise habits.

YOGA- for the BODY and MIND **2.5 Credits *One Semester * CP *Grades 10-12**
(Course Number 579-A)

Prerequisite: "C" or better in #572

This class will use vinyasa power flow yoga to promote both health-related and skill-related fitness. Students will use yoga to improve muscular strength and endurance, cardiovascular endurance, flexibility and balance. The class will consist of a warm-up section, a workout section (utilizing variations of the sun salutation and warrior poses), followed by cool down and a relaxation. This course will help promote a healthy lifestyle, improve fitness levels, and teach students positive ways to manage stress. The structure of the class allows for modifications of each pose in order for students to work and challenge themselves at their own individual levels.

COMPETITIVE GAMES (Course Number 573) **2.5 Credits * One Semester * CP * Grades 11-12**

Prerequisite: "C" or better in #572

Competitive games are used to promote physical fitness, physical activity, teamwork, leadership and sportsmanship. Competitive Games allows students to compete in a variety of traditional and non-traditional sports as well as group games and fitness challenges. The focus is on playing fair, playing hard, and having fun. Students will compete as partners, teams and as individuals. Students will be expected to referee/officiate their own games and follow appropriate rules and etiquette.

HEALTH SCIENCE (Course Number 920a) **5 credits * Full Year * Core Focus * Grades 9-11**

This class is only open to students by decision of the Special Education department and will explore the biology of the human body and focus on nutrition and weight management, physical fitness, pregnancy prevention, CPR and first aid, substance use and awareness, stress management, and environmental health issues. Students will study the components of healthy relationships, reproductive health, mental health, and personal safety. Topics will include drug education, human sexuality issues, diseases and domestic and dating violence. This course will help foster positive aspirations and productive, healthy decision-making.

JROTC PROGRAM

JROTC DRILL & LEADERSHIP TRAINING **5 Credits * Full Year * CP * Grades 9-12**
(Course Number 747-A)

This course is open to all students who want to learn the traits and principles that enable them to become a better leader. The course will include a concentration on Military Drill and Commanding Military Drill units. However, students will focus on Leadership traits and skills, critical thinking, decision-making, planning, commanding, public speaking and case studies of successful leaders.. **Fulfills 5 credits toward Health & Wellness and Physical Education Requirement*

LEADERSHIP 1 (MCJROTC) **5 Credits * Full Year * CP * Grades 9-12**
(Course Number 747)

Leadership 1 is designed for freshmen, but is for all first year cadets, and emphasizes the personal development of values, etiquette and responsibility in preparing students to be leaders in all walks of society. Cadets will learn about organization, basic drill and ceremonies, First Aid and CPR, public speaking, community service and principles of physical fitness. Students will learn the importance of dependability, personal responsibility, good judgment, and self-discipline.
**Fulfills 5 credits toward Heath & Wellness and Physical Education Requirements*

LEADERSHIP EDUCATION 2 (MCJROTC) **5 Credits * Full Year * CP * Grades 10-12**
(Course Number 741-A)

Prerequisite: Passing grade in JROTC-747 or 747-A

This class is designed for students in grades 10-12. Advanced topics in leadership, personal development, drill and ceremony, citizenship, community service and First Aid are emphasized. This course is designed to prepare students to take leadership roles in all walks of our society. **Fulfills 5 credits toward Heath & Wellness and Physical Education Requirements*

LEADERSHIP EDUCATION 3-4 (MCJROTC) **5 Credits * Full Year * CP * Grades 11-12**
(Course Number 741-B)

Prerequisite: Passing grade in JROTC-741-A

This class is designed for students in grades 11-12. Advanced topics in leadership, personal development, drill and ceremony, citizenship, community service and First Aid are emphasized. This course is designed to prepare students to take leadership roles in all walks of our society. **Fulfills 5 credits toward Heath & Wellness and Physical Education Requirements*

MATHEMATICS DEPARTMENT

All students are required to pass four years of math for graduation.

Mathematics Pathways:

Foundations of Algebra-1 ➔Foundations of Algebra-2➔ Int. A & G (904)➔ Int. A & G (904**)

Foundations of Algebra-1 ➔Foundations of Algebra-2➔ Algebra (213-A)➔ Geometry (218-A)

Foundations of Algebra-1 ➔Foundations of Algebra-2➔ Geometry ➔ Foundations of Coll. Algebra

Algebra I (213-A) ➔ Geometry (218-A) ➔ Algebra II (219-A)➔ Math Topics (220)

Algebra I ➔ Geometry➔ Algebra II ➔ Pre-Calculus or Statistics

Algebra I➔ Geometry➔ Algebra II➔SAT Prep / Mathematical Modeling

Algebra I ➔ Geometry➔ Foundations of College Algebra➔ Algebra II

Geometry➔ Algebra II➔ Pre-Calculus➔ Statistics or Calculus

Geometry Honors➔ Algebra II Honors➔ Pre-Calculus Honors➔ AP Calculus or AP Statistics

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It is recommended that students who want to move "up" a level (from CP2 to CP1 or from CP1 to Honors) need to have earned an "A" in their previous math class.

Students who elect to take two math classes their 10th grade year will need to show the proficiency and work ethic necessary to do so during their 9th grade year.

Graphing calculators- Students entering Honors or College Prep Algebra II, Pre-Calculus and Calculus courses are **required** to use TI 84 or comparable graphing calculators. GHS provides calculators during class time but is not able to loan these tools for coursework outside of school.

MCAS MATH FUNDAMENTALS (Course Number 280) **2.5 Credits * One semester * CP * Grade 9-10**
****taken concurrently with math credited course by identified students **elective credit assigned**

Assessment data and diagnostic measures will determine students who are performing significantly below expected proficiency levels.

Math Fundamentals provides students with intensive remedial instruction in math, focused on math fundamentals, especially numbers and operations and essential pre-algebra skills. Some students may need to work on foundation skills in math, while other students may need assistance in completing math tasks related to their 9th grade math class. The overall goal of Math Fundamentals is to move students towards acquiring the essential math skills they need to perform successfully in their future coursework and on standardized measures.

Identified 9th and 10th grade students may be required to take Math Fundamentals concurrently with their math credited class.

FOUNDATIONS OF ALGEBRA-PART I (Course Number 901) **5 Credits*Full Year*Core Focus* Grade 9**

Prerequisite: Recommendation of the GHS Special Needs Department
This course is designed to introduce students to algebra through the review of fundamental mathematical concepts. The curriculum for this course focuses on integers, variables, solving equations, rational numbers and ratios. Students will also focus on organization, keep a master notebook and participate in learning groups and class discussions.

FOUNDATIONS OF ALGEBRA- PART II **5 Credits * Full Year * Core Focus * Grade 10**
(Course Number 901A)

Prerequisite: Recommendation of the GHS Special Education Department

This course provides a more in-depth presentation of algebra and preliminary geometric concepts. The curriculum of this course focuses on using graphs to analyze data, using real numbers and equations in geometry. Students will also focus on organization, keep a master notebook and participate in learning groups and class discussions.

INTEGRATED ALGEBRA & GEOMETRY **5 Credits * Full Year * Core Focus * Grades 11-12**
(Course Number 904)

Prerequisite: Recommendation of the GHS Special Education Department

This course is specifically designed for students on individualized education plans who benefit from continued support and differentiation as their understanding of more advanced math concepts progresses through their 11th and 12th grade years. The junior year will emphasize consumer math, with a concentration on preparation for the MCAS exam, while the senior year will focus on the "real-world" application of algebra and geometry.

ALGEBRA I (Course Number 212) **5 Credits * Full Year * CP 1 * Grade 9-10**

The units in this course deepen and extend the students' understanding of linear relationships. Students explore exponential relationships and contrast them with linear. Students will engage in methods for analyzing and solving quadratic and other non-linear functions. The goal of this course is to ensure students experience mathematics as a coherent, useful, and logical subject that enables them to model real world situations to solve problems and explain their reasoning.

GEOMETRY (Course Number 221) **5 Credits * Full Year * Honors * Grade 9**

Prerequisite: Algebra I and teacher recommendation

In this course, students will begin to formalize their geometry experiences from elementary and middle school, using more precise definitions and developing careful proofs and constructions. Students will identify criteria for congruence and similarity based on transformations. Students will use the coordinate system to verify geometric relationships.

GEOMETRY (Course Number 222) **5 Credits * Full Year * CP1* Grade 9-11**

Prerequisite: Algebra I or Foundations Parts I & II

In this course, students will begin to formalize their geometry experiences from elementary and middle school, using more precise definitions and developing careful proofs and constructions. Students will identify criteria for congruence and similarity based on transformations. Students will use the coordinate system to verify geometric relationships.

ALGEBRA II (Course Number 231) **5 Credits * Full Year * Honors * Grade 10-11**

Prerequisite: Geometry Honors or Geometry and teacher recommendation

Students will engage in methods for analyzing and solving exponential, polynomial, rational and radical functions. The goal of this course is to ensure students experience mathematics as a coherent, useful, and logical subject that enables them to model real world situations to solve problems and explain their reasoning.

ALGEBRA II (Course Number 232) **5 Credits * Full Year * CPI * Grade 10-12**

Prerequisite: Algebra I and Geometry

Students will engage in methods for analyzing and solving exponential, polynomial, rational and radical functions. The goal of this course is to ensure students experience mathematics as a coherent, useful, and logical subject that enables them to model real world situations to solve problems and explain their reasoning.

ALGEBRA I **5 Credits * Full Year * CP2 * Grades 9-10**
(Course Number 213-A)

The units in this course deepen and extend the students' understanding of linear relationships. Students explore exponential relationships and contrast them with linear. Students will engage in methods for analyzing and solving linear and other non-linear functions. The goal of this course is to ensure students experience mathematics as a coherent, useful, and logical subject that enables them to model real world situations to solve problems and explain their reasoning.

GEOMETRY **5 Credits* Full Year *CP2 * Grades 10-11**
(Course Number 218-A)

Prerequisite: Completion of Algebra I

In this course, students will begin to formalize their geometry experiences from elementary and middle school, using more precise definitions and developing careful proofs and constructions. Students will identify criteria for congruence and similarity based on transformations. Students will use the coordinate system to verify geometric relationships.

ALGEBRA II **5 Credits* Full Year *CP2 * Grades 11-12**
(Course Number 219-A)

Prerequisite: Completion of Geometry- 218-A

Students will engage in methods for analyzing and solving exponential, polynomial, rational and radical functions. The goal of this course is to ensure students experience mathematics as a coherent, useful, and logical subject that enables them to model real world situations to solve problems and explain their reasoning.

MATH TOPICS (Course Number 220) **5 Credits * Full Year * CP2 * Grades 12**

Prerequisite: Completion of Algebra II or by teacher recommendation

This course introduces students to concepts and practices to successfully manage their personal finances and to make informed decisions as a consumer. It is a course that addresses the knowledge, skills, attitudes, and behaviors associated with the effective management of income and expenses. Students will learn about income, saving and investing opportunities, taxes, budgeting, purchasing, credit and loans. In the "My Life" project students will envision their future and applying the skills learned in the course develop a financial plan to ensure their financial goals are met.

FOUNDATIONS OF COLLEGE ALGEBRA **5 Credits * Full Year * CP2 * Grades 11-12**
(Course Number 230)

Prerequisite: Algebra I and Geometry and teacher recommendation

This course focuses on the review and mastery of the concepts and skills of Algebra I, functions and graphs. This course is recommended for students who passed both Algebra and Geometry, but with grades below 70. Upon completion of this course, students will have the knowledge and skills needed for Algebra II.

PRECALCULUS (Course Number 241) **5 Credits * Full Year * Honors * Grades 11-12**

Prerequisite: Algebra II Honors or Algebra II and teacher recommendation

This course is a continuation of our honors math program that presents and develops topics for calculus. The major focus will be on honing skills in problem solving. Students will delve into the intricacies of trigonometry with a strong emphasis on linear velocity and motion, laws of the sine and cosine, areas of triangles, periodic motion and the unit circle and vectors in two and three dimensions. Also, exponential, logarithmic, rational, and polynomial functions will be given great attention. Pre-calculus introduces concepts involving function operations, curve sketching, logarithms, sequences and series and the concept of the limit.

PRECALCULUS (Course Number 243) **5 Credits * Full Year * CPI * Grades 11-12**

Prerequisite: Algebra II

The trigonometry of acute angles and right triangles as well as the functions of general angles are studied in this class. Emphasis is placed on vectors, complex numbers, circular functions and uses of the laws of sine and cosine for solving triangles. Trigonometric identities and equations transitions to pre-calculus, which introduces real and complex numbers, solving equations and inequalities, functions and their graphs and conic sections. This course is appropriate for students seeking careers in STEM-related fields.

COLLEGE BOARD AND SAT PREP (Course Number 252) **2.5 Credits *One Semester*CP*Grade 11-12**

Prerequisite: Completion of or concurrent enrollment in Algebra II or equivalent

This course will provide a review of the algebra, geometry, statistics and reasoning skills needed for the SAT and other college entrance exams. The course will also focus on test taking strategies and preparation. Seniors should take this course in the first semester and juniors should take this course in the second semester. It is highly recommended that students who elect this course plan to take the exam while enrolled in the course. Following the exam students will be engaged in creating projects and presentations that deepen their understanding or appreciation of mathematics.

MATHEMATICAL MODELING (Course Number 252-A) **2.5 Credits * One Semester * CP* Grade 11-12**

Prerequisite: Completion of or concurrent enrollment in Algebra II or equivalent

This course is an introduction to mathematical modeling using graphical, numerical, symbolic, and verbal techniques to describe and explore real-world data and phenomena. Emphasis is on the use of elementary functions to investigate and analyze applied problems and questions, supported by the use of appropriate technology, and on effective communication of quantitative concepts and results. This course will teach and enforce logic, reasoning, and problem solving skills.

CALCULUS (Course Number 251) **5 Credits * Full Year * CP1 * Grade 12**

Prerequisite: Pre-Calculus

This course explores analytical geometry and functions of one variable. There is an introduction to such topics as inequalities, absolute values, intervals, limits, infinite series and differential equations. Differentiation and integration laws are examined for all types of functions.

ADVANCED PLACEMENT® CALCULUS (AB and BC) **5 Credits * Full Year* AP *Grade 12**
(Course Number 261 or 261c)

Prerequisite: Teacher recommendation

This course is at its essence a college level course and will prepare students for the AB or BC Advanced Placement exams. The three concentrated areas of Limits, Differentiation, and Integration and their many ancillary topics will be thoroughly presented. Significant problem solving will be achieved with and without the aid of technology. Upon successful completion of a nation-wide AP exam in May, students may receive college credit for first year calculus at their college or university.

STATISTICS (Course Number 267) **5 Credits * Full Year * CP1 * Grade 12**

Prerequisite: Completion of Algebra II

This course in statistics introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data and is intended for SENIORS. Juniors may take this course concurrently with Pre-Calculus or by teacher recommendation.

ADVANCED PLACEMENT® (A.P.) STATISTICS **5 Credits * Full Year * AP * Grade 12**
(Course Number 266)

Prerequisite: Teacher recommendation

This AP course in statistics introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will explore the themes of exploring data, planning a study, anticipating patterns, and statistical inference.

SCIENCE DEPARTMENT

All students are required to take and pass three years of science. In addition, all students are required to pass a Massachusetts Comprehensive Assessment System (MCAS) examination in one science subject area (Biology, Chemistry, or Engineering and Technology) in order to graduate. All lab sciences require completion of lab reports, which demonstrates an understanding of the scientific method and the ability to think critically and solve problems.

Traditional College and Career			**Pre-Engineering Technology College and Career**	
9th Grade: Life Science (CP1)	CP1 Biology **MCAS**	Honors Biology **MCAS**	Engineering and Technology I	Honors Engineering and Technology **MCAS**
10th Grade: CP1 Biology **MCAS**	CP1 Chemistry	Honors Chemistry	Engineering and Technology II **MCAS**	Honors Biology Or Physics of Robotics
11th Grade: CP1 Chemistry	CP1 Physics	Physics, AP courses	Physics of Robotics Or Electives	Adv. Physics of Robotics or Physics
10th - 12th Grade: Electives • Marine Biology • Ecology • A & P • Ocean Studies • Astronomy • Forensics • Eng., Man. & Design • Biotechnology	Electives	AP courses Electives	Advanced Physics of Robotics Or Electives	Advanced Physics of Robotics Or Electives

ENGINEERING AND TECHNOLOGY I (Lab) **5 Credits * Full Year * CP1 * Grade 9**
(Course Number 311-B)

Prerequisite: Concurrent enrollment or prior completion of Algebra 1.

This course introduces students to "Classical" Newtonian Physics. Students will learn about forces, motion, and energy. They will explore velocity, acceleration, free-fall, momentum, work, power, simple machines, sound, light, fluids, gas laws and electricity. This class is recommended for students in grade 9 who are following the college preparatory sequence or vocational career path. Students will take the Engineering and Technology MCAS in their sophomore year. Students who successfully complete this class should go on to Engineering and Technology II.

HONORS ENGINEERING AND TECHNOLOGY (Lab) **5 Credits * Full Year * Honors * Grade 9**
(Course Number 311-D)

Prerequisite: 9th grade only; proficiency demonstrated on previous MCAS assessments

Honors Engineering and Technology is an advanced level course designed for self -motivated students interested in pursuing degrees and careers in the fields of technology and engineering. Through the use of lectures, demonstrations, projects and weekly hands-on laboratory experiences students will gain knowledge in the following areas: engineering design, marketing, research and development, time management, leadership, product testing drafting and presentation. Students will develop an understanding of mechanics, fluid dynamics, electricity, forces and construction. Students will be required to read independently and conduct research for projects outside of school time. *The class is designed to prepare students to pass the Engineering and Technology MCAS Test their freshman year.*

LIFE SCIENCE (Lab) (Course Number 304) **5 Credits * Full Year * CP1* Grade 9 only**

Prerequisite: 9th grade only

This course is the study of life and living things. Topics include but are not limited to: biomes, populations, communities, cells, genetics, evolution, ecology, inquiry, behavioral patterns and human biology. A variety of teaching strategies and techniques will be used including laboratory techniques. Students completing this course will go on to CP1 Biology and take the Biology MCAS exam during 10th grade.

BIOLOGY (Lab) (Course Number 322) **5 Credits * Full Year * CP1* Grade 9-10**

College Prep Biology is a course intended for college bound students. This lab-oriented class will explore the science of life through a molecular and cellular approach. This course covers the same curriculum as Honors Biology. Students enrolled in this course will take the Biology MCAS exam.

BIOLOGY (Lab) (Course Number 321) **5 Credits * Full Year * Honors * Grade 9-10**

Honors Biology is an intensive course designed for motivated students. This lab-oriented class will explore the science of life through a molecular and cellular approach. Topics covered include biochemistry, cell structure and function, bioenergetics, origin of life and evolution, genetics, ecology and the human body. Laboratory activities will result in written lab reports. Individual research projects will be assigned each term. Students enrolled in this course will complete the Biology MCAS.

ENGINEERING AND TECHNOLOGY II (Lab) **5 Credits * Full Year * CP1 * Grade 10-11**
(Course Number 311-C)

Prerequisite: Passing grade in Engineering and Technology I
This class is open to 10th grade students or upperclassmen who have yet to pass the science MCAS.

Engineering and Technology is designed for students interested in a college/career pathway, with a focus on technology and engineering. Students will gain knowledge in the following areas: engineering design, marketing, research and development, time management, leadership, product testing drafting and presentation. Students will develop an understanding of mechanics, fluid dynamics, electricity, forces and construction. The class is designed to prepare students to pass the Engineering and Technology MCAS Test.

CHEMISTRY (Lab) (Course Number 332) **5 Credits * Full Year * CP1 * Grades 10-12**

Prerequisite: A passing grade in Biology or Engineering and Technology. Concurrent enrollment in Geometry or higher

Chemistry is intended to provide a solid foundation for college bound students pursuing a career in science or medicine and also as a general background for students planning non-science careers. As a lab course this course deals with the concepts of mass, matter, and energy, modern atomic and nuclear theory, the nature of chemical bonds, chemical reaction systems, chemical calculations, and general laboratory methods and techniques. Grades are based on lab reports, regular homework, tests, and two semester final exams.

CHEMISTRY (Lab) (Course Number 331) **5 Credits * Full Year * Honors * Grades 10-12**

Prerequisite: A passing grade of a B or better in Biology or Applied Technology II. Completed or concurrently enrolled in Algebra II

This is an accelerated and expanded version of Chemistry 332. All usual topics, including oxidation, reduction, nuclear chemistry, pH as well as an introduction to organic and biochemistry will be explored in depth. This course is intended for motivated students.

PHYSICS of ROBOTICS (Lab) (Course Number 343) **5 Credits * Full Year * CPI * Grades 11-12**

Prerequisite: Students must have a passing grade in a Science MCAS Test. A passing grade in at least Algebra I is recommended.

This course will introduce students to robotics and cover a gamut of topics such as "C" Programming Language, Autonomous Programming, Physics, Applied Mathematics, Robotic Theory and Logic. Concepts covered will be: engineering notebooks, robotic system design, torque, power, forces, sound, mechanics, electronics, electromagnetic waves, sensors, gear trains and Classical Newtonian Physics. Students will spend considerable time on PID (proportional, integral, derivative) control. This will be a hands-on Lab course for students interested in engineering and or a technical college. Students will design, build and program, from concept to completion a remote controlled vehicle. This course is for serious students and requires considerable on-line study and testing outside of the classroom. *This class cannot be taken as a MCAS preparatory course.*

ADVANCED PHYSICS of ROBOTICS (Lab) **5 Credits * Full Year * Honors * Grades 11-12**
(Course Number 343-H)

Prerequisite: Juniors and Seniors only. Students must have a passing Science MCAS score, as well as a passing grade in or concurrently taking Algebra II.

In this course students will be engrossed into engineering. This course is perfect for the home hobbyist. Topics covered but limited to are: electronics, mechanics, advanced "C" language programming, schematics, bread boarding, prototyping, logic, autonomous control, robotic integration, data filtering, CAD (SolidWorks). Students will use 3D scanners as well as different types of 3D printers and printing material. This course is designed for independent, motivated learners who are passionate in design and building technology. *This class cannot be taken as a MCAS preparatory course.*

PHYSICS (Lab) (Course Number 342) **5 Credits * Full Year * CPI * Grades 11-12**

Prerequisite: Passing grade in or concurrently taking Trigonometry & Pre-Calculus

This course is an intensive application of physics; and is designed for students who are planning to attend a four-year college, especially those interested in majoring in Engineering. This physics class is highly kinesthetic; students will work in teams to achieve greater understanding of concepts, with an emphasis on problem solving. Topics covered include: Newtonian physics, projectile motion, thermodynamics, electricity, electronics, relativity and quantum mechanics. Students will be assessed on their labor intensive Labs as well as their ability to work in teams.

PHYSICS (Lab) (Course Number 341) **5 Credits * Full Year * Honors * Grades 11-12**

Prerequisite: "C" or better in Trigonometry & Pre-Calculus

This class recommended for students entering a STEM related field. Physics Honors is an intensive course introducing students to topics in mechanics, thermodynamics, wave phenomena, electricity and magnetism, as well as modern physics. Emphasis is on the application of intermediate mathematics to problem solving, and the practical applications of ideas to real world situations.

ADVANCED PLACEMENT ® BIOLOGY (Lab) **10 Credits * Full Year * AP * Grades 11-12**
(Course Number 320)

Prerequisite: Grade of "B" or better in Chemistry and Biology and teacher recommendation

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. With appropriate test scores, some AP students may be allowed to take an upper level Bio as their first Biology course in college. This course will involve extensive outside reading, laboratory investigations, individual research and field studies. Guided and independent laboratory work will be and integral part of the course. Selected topics include the four big ideas of biology: evolution, energy, genetics, and interaction.

ADVANCED PLACEMENT ® CHEMISTRY (Lab) **10 Credits * Full Year * AP * Grades 11-12**
(Course Number 335)

Prerequisite: "B" or better in Biology, Chemistry and Algebra II and teacher recommendation

AP Chemistry provides the equivalent to a college level course in chemistry. The course will expand on topics covered in the first year of chemistry as well as focus on fundamental particles, matter and its physical and chemical properties and the changes it undergoes, stoichiometry, kinetics, thermochemistry, equilibrium, electrochemistry, bonding and intermolecular forces, and introductory organic chemistry. There will be substantial laboratory work. Completion of a summer assignment is required and attendance at summer sessions is highly recommended.

ADVANCED PLACEMENT ® PHYSICS (Lab) **10 Credits * Full Year * AP * Grades 11-12**
(Course Number 336)

Prerequisite: Successful completion of or concurrent enrollment in Calculus and teacher recommendation

This course is intended to prepare students to pursue studies in science related major at the college level. The course has earned the College Board's designation for Physics C, which covers an area of physics called mechanics, and is intended to prepare students to be successful on the AP exam. Topics include two- and three-dimensional motion, forces, work and energy, linear and angular momentum, gravitation, and oscillations. Attendance at summer sessions and completion of summer assignments is required.

ENGINEERING, MANUFACTURING & DESIGN (Lab) **5 Credits * Full Year * Honors * Grades 10-12**
(Course Number 330)

Prerequisite: Students must have a passing Science MCAS score

Engineering, Manufacturing & Design is a (Science Technology, Engineering and Manufacturing) S.T.E.M. course that is open to and relevant for all learners, especially those interested in engineering. Students will have extensive CAD modeling time utilizing the industry standard, "SolidWorks". Students will be entrenched in the engineering design process, producing prototypes and finished solutions that will meet the student's need / problem. Students will be utilizing modern design, analysis and fabrication techniques. Through application of quantitative and qualitative options students will justify and defend their decisions throughout their educational journey. Students will engage in science by designing and carrying out investigations of real world questions and explore the meanings of disciplinary core ideas. They will use crosscutting concepts to meet performance expectations and to produce successful personalized and relevant projects.

This Project Based Science class will include experience with the following: 3D printing using different materials, 3D scanning, Quad Copter Drone design, electronics, build and programing, Unmanned Aerial System (AUS) laws and safety, flight simulator time and outdoor flight time.

ANATOMY & PHYSIOLOGY (Lab) (Course Number 345) **5 Credits * Full Year * CP1 * Grades 11-12**

Prerequisite: Passing grade in Biology; Chemistry recommended

This course will explore the biology of the human body. It examines the structure of cells, tissues, and organs that make up our bodies, and will examine how these components function. Basic biological and chemical principles vital to the understanding of the human organism will be introduced, followed by an introduction to the study of the structures and functions of the human body. Systems covered will be the skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, immune, digestive, urinary, and reproductive systems. Related topics such as diseases and clinical problems will be integrated where applicable.

ANATOMY & PHYSIOLOGY (Lab) (Course Number 345H) **5 Credits * Full Year * Honors * Grades 11-12**

Prerequisite: Grade of "C" or higher in Biology and Chemistry

Honors Anatomy & Physiology is an intensive, advanced level course designed for self-motivated students. This course will explore the biology of the human body. It examines the structure of cells, tissues, and organs that make up our bodies, and will examine how these components function. Basic biological and chemical principles vital to the understanding of the human organism will be introduced, followed by an introduction to the study of the structures and functions of the human body. Students will understand the skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, immune, digestive, urinary, and reproductive systems. Related topics such as diseases and clinical problems will be integrated where applicable.

ASTRONOMY (Course Number 363) **2.5 Credits * One Semester * CP1 * Grade 11-12**

Prerequisite: Grade of "C" or higher in Algebra II

This course will cover the history of astronomy from Aristotle until today; the development and use of telescopes and other tools of astronomers; the formation and current state of the solar system; basic astrophysics including planetary motion, Newton's law of gravitation, and Kepler's Laws; stellar evolution. Also covered is the electromagnetic spectrum and its use in studying celestial objects. The course will conclude with exciting contemporary topics such as black holes, the expansion of the universe and the search for extraterrestrial life.

ECOLOGY (Course Number 362) **2.5 Credits * One Semester * CP1* Grades 10-12**

Prerequisite: Passing grade in ninth grade science

This course is designed to build a student's appreciation of the delicate balance of nature through the study of contrasting environments such as desert, forest, tundra, grasslands, and wetlands. Emphasis will be placed on plant and animal adaptations as well as predatory/prey relationships. Man's effect on nature will also be researched through discussion on current environmental issues.

MARINE BIOLOGY (Lab) (Course Number 352) **2.5 Credits * One Semester * CP1* Grades 10-12**

Prerequisite: Passing grade in ninth grade science

Marine Biology is an introduction to the biology of marine organisms. Selected organisms will be used to develop an understanding of the biological principles common to marine organisms. The taxonomy, evolution, ecology, behavior, and physiology of marine life will be discussed. Lectures, demonstrations, videos, and local field trips will stress the identification of local marine forms.

FORENSIC SCIENCE (Lab) (Course Number 365) **2.5 Credits * One Semester * CP1* Grades 10-12**

Prerequisite: Passing grade in 9th grade science; recommendation of science teacher; passing grade in science MCAS

Students will use CSI-type laboratory techniques to explore the science behind crime scene investigation and evidence examination. Units of study include hair, soil and fiber analysis; fingerprinting techniques and analysis; blood and blood splatter patterns; dental, footwear and tire impressions; and DNA fingerprinting. Students will be expected to complete labs, reports, and demonstrate proficiency in exams and a capstone project. Due to the mature subject matter of this course and the equipment and supplies utilized, students must have the ability to work safely and independently in a lab. As the subject matter can be disturbing at times, parental consent is required to take this course.

BIOTECHNOLOGY **2.5 Credits * One Semester * CP1* Grades 10-12**
(Course Number 326)

Prerequisite: Passing grade in Chemistry or currently enrolled in Chemistry with passing grade in Biology

This course provides an introduction to current biotechnology practices. The theory of biotechnology, along with hands-on laboratory experience, provides the student with a general background of the biotechnology industry. Biotechnology companies follow current good manufacturing practices (cGMP), which are regulated by the Food and Drug Administration (FDA). CGMP details quality management, buildings and design, equipment and personnel requirements, facility and equipment cleaning, production and process controls, packaging, labeling, complaint handling, and record keeping. Along with the theory and government regulations are general laboratory skills. These skills include preparation of solutions, pH measurements, microbiological techniques, spectroscopy, protein determination, and separation techniques (filtration, centrifugation, chromatography, and/or electrophoresis). In addition, students learn what job opportunities are available with a biotechnology education. Different careers offered in biotechnology companies are positions in manufacturing, Quality Control (QC), Quality Assurance (QA), Regulatory and /or Research and Development (R&D).

OCEAN STUDIES (Course Number 347) **5.0 Credits * Full Year * CP1 * Grades 10-12**

Prerequisite: Passing grade in Biology

This class will concentrate on the physical, chemical, geological, and biological aspects of the ocean. Students will gain an appreciation of the ocean and the role it plays in making life on Earth possible. Topics covered consist of: introductory oceanography topics, like water chemistry, topography, waves and tides. Other topics covered include: marine ecology, habitats, animal adaptations, and marine sustainability. The course will also incorporate a section of maritime and boat building.

PRINCIPLES OF TECHNOLOGY (Course Number 922) **5 credits * Full Year * Core Focus * Grades 9-11**

Prerequisite: Recommendation of the GHS Special Education Department

This class is only open to students by decision of the Special Needs department and is designed for students requiring specifically designed instruction and who are interested in the fields of technology and engineering. The course will use demonstrations, projects and hands-on laboratory experiences to reinforce the understanding of force, motion, energy, velocity, acceleration, momentum, work, power, simple machines, sound, light, and electricity. Students will prepare to take the Engineering and technology MCAS exam.

LIFE SCIENCE (Course Number 915b)	**5 Credits * Full Year * Core Focus * Grade 9**

Prerequisite: Recommendation of the GHS Special Education Department

This course is for students requiring specifically designed instruction in the study of life and living things. It focuses on patterns of thinking that apply to biological communities and individual organisms. Special topics include ecology, biomes, populations, communities and behavioral patterns.

BIOLOGY (Course Number 915a)	**5 Credits * Full Year * Core Focus * Grade 10**

Prerequisite: Life Science 915b; Recommendation of the GHS Special Education Department

Biology 915a is for students requiring specifically designed instruction. This laboratory-oriented class will explore the science of life through a molecular and cellular approach. Laboratory reports will be generated on a weekly basis as laboratory activities are performed. The same topics as CP Biology will be covered at a less rigorous pace. Students enrolled in this course will complete the Biology MCAS.

SOCIAL STUDIES DEPARTMENT

All students are required to take and pass three years of Social Studies including U.S. History 9, U.S. History 10 and World Regions and Cultures.

UNITED STATES HISTORY (Course Number 111U)	**5 Credits * Full Year * Honors * Grade 9**
UNITED STATES HISTORY (Course Number 112U)	**5 Credits * Full Year * CP1 * Grade 9**
UNITED STATES HISTORY (Course Number 113U)	**5 Credits * Full Year * CP2 * Grade 9**

United States History 9 is a concept-based approach to the study of the historical and intellectual origins of the United States from the year 1400 to 1877. Students will learn about important developments that helped shape American society during its early history. Study will include exploration of a new world, causes for colonial conflict, revolution for independence, the key ideas and writing of the United States Constitution, the sectional differences, causes, and consequences of the Civil War and Reconstruction.

UNITED STATES HISTORY (Course Number 913) **5 Credits * Full Year * Core * Grade 9**

**Prerequisite: Recommendation of the GHS Special Education Department*

UNITED STATES HISTORY Grade 10 (Course Number 121U)	**5 Credits*Full Year*Honors**
UNITED STATES HISTORY Grade 10 (Course Number 122U)	**5 Credits*Full Year*CP1**
UNITED STATES HISTORY Grade 10 (Course Number 123U)	**5 Credits*Full Year*CP2**

In United States History 10 students will study the time period beginning with the year 1877 up through the year 2000. They will analyze the causes and consequences of the Industrial Revolution and America's growing role in diplomatic relations. Other topics of study include the Progressive movement, the New Deal, World Conflict, the Cold War, and the Civil Rights movement. Students will also engage in a study of economic, social, and political issues of the second half of the 20th century.

UNITED STATES HISTORY (Course Number 914) **5 Credits * Full Year * Core * Grade 10**

**Prerequisite: Recommendation of the GHS Special Education Department*

WORLD REGIONS AND CULTURES (Course Number 185) **5 Credits * Full Year * Honors * Grade 11**
WORLD REGIONS AND CULTURES (Course Number 186) **5 Credits * Full Year * CP1* Grade 11**
WORLD REGIONS AND CULTURES (Course Number 187) **5 Credits * Full Year * CP2 * Grade 11**

The purpose of this course is to present the student with an overview of the world we live in. The course will begin with a study of political and economic systems. Within each regional study, the student will be exposed to the major historical events that have influenced its development, with a focus on 20th century events as well as contemporary issues. In addition, the course will examine cultural features including government, religion, language, and traditions. Students will engage in interactive exercises to evaluate the impact of the new global paradigm within the world's regions.

WORLD REGIONS AND CULTURES (Course Number 919) **5 Credits * Full Year * Core * Grade 11**
**Prerequisite: Recommendation of the GHS Special Education Department*

Social Studies Electives for Juniors and Seniors

ADVANCED PLACEMENT® U.S. HISTORY **5 Credits * Full Year * AP * Grades 11-12**
(Course Number 143)

Prerequisites: Teacher Recommendation

AP U.S. History is an in-depth examination of United States History: Colonization, Revolution, Constitution, Jacksonian Democracy, Civil War, Industrialization, Westward Expansion, Imperialism, Progressive Era, WW I, Depression, New Deal WW II, Cold War, Vietnam and Reagan to Clinton. - Students can expect a demanding schedule of reading, writing, research and discussion designed to prepare them for the A.P. U.S. History exam. Assessment will be based on oral and written presentations including research, interpretation, and analysis as well as tests and quizzes.

ADVANCED PLACEMENT® PSYCHOLOGY **5.0 Credits * Full Year * AP * Grades 11-12**
(Course Number 153-A)

Prerequisites: Teacher Recommendation

This academically challenging full-year course will examine research methods and ethics, personality theories, motivations of behavior, the aging process, abnormal psychology, therapies and testing. There will be an extensive focus on writing and preparation for success on the AP exam in the spring.

PSYCHOLOGY (Course Number 153) **2.5 Credits * One Semester * CP * Grades 11-12**

Psychology is a survey course focusing on answering the basic question "Why do we do what we do?" Topics include: Personality Theories, Principles of Learning, Memory and Thought, Emotions, States of Consciousness, and Abnormal Psychology. Students are encouraged to make connections between concepts discussed and their own life to make the knowledge more meaningful.

SOCIOLOGY (Course Number 162) **2.5 Credits * One Semester * CP* Grades 11-12**

Through the study of human behavior and interactions, sociology examines the relationship of individuals to society and to each other. Major areas of emphasis include culture, crime, the family, gender issues, socialization, schools, politics, and current "hot social issues". Students examine culture through its various institutions and practices that define, teach, and control social behavior. Students analyze social relationships and the challenges presented by an ever-changing society leading to a deeper understanding of themselves and others.

INTERNATIONAL RELATIONS (Course Number 141) **2.5 Credits * One Semester * Honors *Grades 11-12**

International Relations is a one-semester elective which examines "World Hot Spots". Areas of investigation may change but include Northern Ireland, Middle East, Pakistan-India, terrorism and nuclear threats to global peace. Students will be required to relate all previous social studies to current day political problems.

GLOBAL ISSUES (Course Number 150) **2.5 Credits * One Semester * CP * Grades 11-12**

Prerequisites: Passing grade in two or more required history courses

Global Issues is an elective course in which students study the cultural, religious, economic, and political issues of the major trouble spots in today's complex world. The course will give students a working knowledge of an ever-changing world. Students will discuss, compare, and contrast major issues facing world leaders.

MASS MEDIA IN THE MODERN AGE **2.5 Credits * One Semester * CP * Grades 11-12**
(Course Number 155)

This is a semester elective designed to examine and analyze the media and its impact on American society. The course will focus primarily on the role of film and will also include other forms of media such as music, TV, radio, and the internet. Students will study the history of the media and the psychological, sociological, and political impact of mass media, as well as the critical examination of film and film production. Students may be asked to analyze issues as presented by the media, as well as analyze the way in which the media portrays issues. Students will view movie presentations of these issues to critique, draw conclusions and establish connections.

COMPARATIVE RELIGIONS (Course Number 158) **2.5 Credits * One Semester * CP * Grades 11-12**

Comparative Religions is a one-semester course designed to survey the world's great religions. Discussion will include the origins, rituals, theology, and teachings of Hinduism, Taoism, Shintoism, Confucianism, Judaism, Christianity, and Islam. Speakers from Christian Science, Jehovah's Witness, Islam, Roman Catholicism, Judaism, and Hinduism are invited to speak.

WOMEN'S ISSUES (Course Number 161) **2.5 Credits * One Semester * CP * Grades 11-12**

This study includes the exploration of women's roles in society. Included will be an investigation of the role of women in the household, business world, and government. Controversial discussion will include sexual harassment, date rape, domestic abuse, the glass ceiling, women in management positions, gender discrimination and affirmative action.

ISSUES IN AMERICAN SOCIETY (Course Number 151) **2.5 Credits * One Semester * CP * Grades 11-12**

This course focuses on the challenges of American life. Crime, drugs, violence, health care and welfare reform are some of the issues that will be analyzed. Contemporary politics will be a key feature of this class.

SEI US HISTORY I **5 Credits * Full Year * CP * Grades 9-11**
(Course Number 122E)

SEI/ US History I is an introduction to major events and themes in American History from the exploration of the Americas through Reconstruction. This year-long course is designed for English Language Learners who need expansion of their academic vocabularies in addition to content knowledge about the key ideas of American political culture. This course will begin with the vocabulary of mapping and geography and emphasize the principles in our Constitution as well as the causes, course and consequences of the American Revolution and the US Civil War. Students will make illustrated timelines and other creative projects that allow them to access the curriculum and produce academic vocabulary in speech and writing.

SPECIAL EDUCATION DEPARTMENT

ACADEMIC SUPPORT (Course Number 928) **2.5 credits * One Semester * Core Focus * Grades 9-12**

Academic Support is a study skills program designed for students who have been identified with special academic needs. The goal is to provide a practical, effective conduit for accomplishing school-wide improvement by learning and implementing executive function strategies and transition of post-secondary goals. The objective of the program is to improve students' independent study skills. This will enable students to be more successful in their content subjects, to be active and organized learners, and to be better prepared for independent learning. The program uses a study skills portfolio that incorporates test taking, note taking, effective communication and study strategies. Target skills include time management, goal setting, textbook and instructional resource skills, note taking test preparation, test taking, active listening, note taking, and self-advocacy. Students are required to apply the target skills to their actual content course work.

NOTE: English, Mathematics, Science, Social Studies and Health (Core-900) classes offered by the Special Education department are listed within those sections

VISUAL and PERFORMING ARTS

VISUAL ARTS

STUDIO ART I (Course Number 707) **2.5 Credits * One Semester * CP * Grades 9-12**

Exploring the visual experience: In this course, students are introduced to the elements and principles of design and are presented with a broad range of materials, techniques and themes that train and encourage creative exploration. Students will begin to develop the fundamental basics for portfolio preparation and development. This course is for first year art students and a sketchbook is required.

STUDIO ART II (Course Number 723) **5 Credits * Full Year * CP * Grades 10-12**

Prerequisite: A passing grade in Studio Art I or Drawing I

Developing the visual experience: In this full year course, students pursue an in-depth study of the art elements of design and principles of composition to develop greater creative, technical and aesthetic skills. As part of their artistic development, students are expected to seek, recognize and implement their own visual voice. Students will begin to assemble a portfolio that demonstrates technical and aesthetic proficiency in a wide variety of media. This course is geared towards, but not limited to, students whose love of the arts will allow for this kind of concentrated effort. A sketchbook is required for this course.

HONORS STUDIO ART (Course Number 712-U) **5 Credits * Full Year * Honors * Grades 11-12**

Prerequisite: A passing grade in Studio Art IIB or permission from the instructor

Enhancing the visual experience: Students will enhance their technical and aesthetic skills by focusing on craftsmanship, originality, creative problem solving and the study of historic connections to visual art. Students will experiment with personal themes and styles. Students will develop a portfolio that accurately reflects their technical and aesthetic expertise. This course is intended, but not limited to, students who are considering art school or an art-related career. A sketchbook is required for this course.

DRAWING I (Course Number 702) **2.5 Credits * One Semester * CP * Grades 9-12**

This introductory course allows students to explore the techniques of basic drawing. Using media such as graphite, charcoal, pen and ink, conte crayons, colored pencils and markers, students are encouraged to draw using observation techniques., Students will be encouraged to find their personal expression through line. The elements of design, principles of art and relevant 20th century artists will be studied. A sketchbook is required for this course.

DRAWING II (Course Number 702-B) **2.5 Credits * One Semester * CP * Grades 9-12**

Prerequisite: A passing grade in Drawing I

An extension of Drawing I, students will continue to explore the techniques of drawing with an emphasis on the human figure, portraiture and perspective. Students will be encouraged to strengthen their visual vocabulary and skill level through more in depth study of the principles of composition and elements of design. The critique process will also be introduced and practiced during this semester. A sketchbook is required for this course.

PAINTING I (Course Number 705) **2.5 Credits * One Semester * CP * Grades 10-12**

Prerequisite: A passing grade in Studio Art I or Drawing I

This course is based on color theory and technique. With a focus on simple uncomplicated forms and still life painting, students will create realistic and abstract paintings using a variety of materials such as mixed media, acrylic, and watercolor. An survey of techniques will be explored. Students will reflect upon and refine their work, explore cultural and historical connections and the paintings of the great masters. A sketchbook is required for this course.

PAINTING II (Course Number 705-B) **2.5 Credits * One Semester * CP * Grades 10-12**

Prerequisite: A passing grade in Painting I

An extension of Painting I, students will continue with a focus on landscape painting and portraiture. With regard to the human figure, students will be asked to capture feeling and color rather than rendering. The qualities of light and space will be explored through color and composition. Students will explore controlling paint on various surfaces and develop their own personal painting style. A sketchbook is required for this course.

CLAYWORKS I (Course Number 709) **2.5 Credits * One Semester * CP * Grades 9-12**

Prerequisite: Studio Art I

Students will explore the medium of clay using a variety of methods to make both functional and sculptural objects. Projects will be assigned throughout the semester to build the skills necessary to be successful at working with clay. Assignments are linked to historical periods and cultures discussed in class or researched independently.

CLAYWORKS II (Course Number 719) **2.5 Credits * One Semester * CP * Grades 10-12**

Prerequisite: Clayworks I

Students will develop their abilities with clay through projects using the hand-building techniques learned in Clayworks I and improve upon their wheel throwing skills through working on sets of pieces as a cohesive body of work. Projects will be linked to the history of ceramics both classical and contemporary through homework research assignments.

ADVANCED CLAYWORKS (Course Number 704) **5 Credits * Full Year * Honors * Grades 11-12**

Prerequisite: Clayworks II

In this full year course, students will continue to develop their skills and individual interests through the medium of clay. Projects will be designed to inspire creative problem solving and technical proficiency. Students will develop a cohesive body of work worthy of an exhibition. Students will be expected to use their written and oral communication skills to "market" their work as well as maintaining a high level of independent artistic inquiry.

GRAPHIC DESIGN (Course Number 685) **2.5 Credits * One Semester * CP * Grades 10-12**

Prerequisite: A passing grade in Studio Art I, Photography I or permission of the instructor

Have you ever driven don the road and had a flashy billboard catch your eye? Have you ever wondered how your favorite magazine or book cover was created? Wonder no more! Learn ho to create visual communication by using industry standard software, including *Illustrator*, *In Design* and *Flash*. Graphic Design will focus on typography, branding, design layout, package design, and graphic design career options. Students will learn the principles of art and design to improve their use of color and composition.

PHOTOGRAPHY I (Course Number 714) **2.5 Credits * One Semester * CP* Grades 9- 12**

Do you love taking photos? Would you like to learn how to capture GREAT images? Students will learn both the art and science of photography. As an art, photography is a marvelous tool for creative, self-expression. As a science, it is a wonderful technical tool for lessons in light, math, and computer skills. Photography encourages a whole new way of looking at the world. In addition to exploring how it can be used in our everyday lives, students will explore career options in photography. Students will use Adobe Photoshop as a digital dark room to produce high quality prints for display.

PHOTOGRAPHY II (Course Number 715) **2.5 Credits * One Semester * CP* Grades 10- 12**

Prerequisite: Passing grade in Photography I

This course will focus on developing a deeper understanding of digital cameras, photographic styles, tools and techniques of Adobe Photoshop. Students learn advanced image editing techniques by focusing on conceptual projects to hone and strengthen their unique voice. Students will present their work and have the opportunity to discuss their artistic and creative choices. Photography II includes an exploration of the portrait, documentary, architectural, illustrative and action styles. Students will have the opportunity to begin building a client network.

ADVANCED PHOTOGRAPHY (Course Number 716) **5 Credits * Full Year * Honors * Grades 11- 12**

Prerequisite: Passing grade in Photography II

Students develop their own creative responses as they continue to explore the world of photography. Students will continue to explore career options in photography as they build a client network. Students are required to create a cohesive portfolio of work to submit to the Scholastic Art and Writing Show and exhibit their works at the end of the year. Students will research past and contemporary photographers, especially those that speak to their style of work.

MUSIC and PERFORMING ARTS

STAGE BAND (Course Number 770 or 770-H) **5 Credits * Full Year * CP/Honors* Grades 9-12**

Prerequisite: Ability to read music and completion of one or more years of training on instrument.

This course is for any instrumental student interested in being part of the school's stage band, ***The Docksiders.*** Students who sign up for the course are subject to a final audition with the director. During the course of the school year, there will be numerous local and regional performances, including occasional performances at internationally known locations. Attendance at all performances is mandatory. Rehearsals center on whole band practice as well as in smaller sections. The emphasis is on the music of modern stage bands. This class requires the highest degree of "professionalism" of all students, who are expected to come to class prepared. Considerable at home practice is expected. Students who need an instrument can be provided a "loaner" or "rent to buy" arrangements can be made. ****To enroll in Band for Honors credit, the student must prepare for and participate in MASS All- District Band auditions, and if selected, participate in All-District/State, serve as a role model and leader for the band, present various projects throughout the year, and participate in solo & small ensemble performances as arranged by the director.***

CHORUS (Course Number 762 or 762-H) **5 Credits * Full Year * CP/Honors* Grades 9-12**

This class focuses on singing. Students learn the basics of singing including breath control, importance of tone quality, sight singing, musical terms, how to better read music, and the importance of individual and group development. Music from throughout the different eras of music history will be selected and performed. The ability to read music is not required. This is an exciting, fun-filled course for people who enjoy singing. Assessment is based on individual effort and positive participation in class and at concerts. Attendance at public performances is mandatory.****To enroll in Chorus for Honors credit, the student must prepare and participate in MASS All-District auditions, and if selected, participate in All-District/State, serve as a role model and leader for the chorus, present various projects throughout the year, and participate in solo & small ensemble performances as arranged by the director.***

MUSIC FUNDAMENTALS and THEORY **2.5 Credits * One Semester * CP * Grades 9-12**
(Course Number 754)

This is an introductory course in the development and writing of music. Topics will include music notation, scales, key signatures, musical expressions, ear training, and composition. The course of study will be "Alfred's Essentials of Music Theory".

MUSIC HISTORY: BACH TO ROCK I **2.5 Credits * One Semester * CP * Grades 9-12**
(Course Number 756)

This class involves the study of the history of music and is taught using recordings and videos to aid in study and comprehension. Students will gain a greater understanding of the impact of rock and roll in America and overseas during the decades of the 1950's and 1960's by experiencing and understanding the music of the Classics, the roots of rock 'n' roll from 1954 through 1963, the "British Invasion" of the 1960's, and much more. Additional topics will include the history of musicals and the evolution of jazz, swing, and "big bands". Students will learn the musical forms used to create the compositions, instrumentation, and the historical significance of each style. Assessment is based on class participation, quizzes and a variety of "hands-on" projects.

MUSIC HISTORY: BACH TO ROCK II **2.5 Credits * One Semester * CP * Grades 9-12**
(Course Number 757)

Prerequisite: Successful completion of Music History: Bach to Rock I

This class is a continuation of the study of the history of music. The course is taught using a variety of audio and video recordings to aid in study and comprehension. Students will experience the music of the 1970's and 1980's and understand the historical relationship of the music to the events of the time period. Additional topics will include New Age Music, Electronic Music, music from Soundtracks, and International Music. Students will also study the use of comedy in music as both entertainment and a venue for political commentary and change. Studies will also include composition styles and instrumentation for each genre. Assessment is based on class participation, quizzes and several individual and group projects.

AUDIO and VIDEO MUSIC TECHNOLOGY **2.5 Credits * One Semester * CP * Grades 9-12**
(Course Number 758)

Students will explore the rapidly expanding career paths resulting from the intersection of music with audio and video technology. Areas of study will include history of technology, terminology, audio recording, and editing and finalization using state of the art sequencing and performance software. The course offers considerable individual and group opportunities for creativity as students work in studio, performance, and concert scenarios.

ACTING I **2.5 Credits * One Semester * CP * Grades 9-12**
(Course Number 784)

This course introduces students to the basics of theatre and acting. Using theatre games, improvisation, and text studies, students will discover building blocks for creating believable characters. Topics covered in this course will include partner scene study, monologue performance, text and character analysis, and physicality.

THEATRE HISTORY **2.5 Credits * One Semester * CP * Grades 9-12**
(Course Number 780)

This course involves the study of the history of theatre around the world. Students will explore history through text and plays of the time period, as well as interactive activities. Topics covered include Greek theatre, Shakespeare, Commedia dell'arte, Japanese theatre, and 20th century playwrights and musicals.

MUSICAL THEATRE **2.5 Credits * One Semester * CP * Grades 9-12**
(Course Number 790)

This course introduces students to the basic aspects of musical theatre. Students enrolled in this class are expected to participate in the Spring Musical. Topics include character creation through song and dance, vocal care and performance, and the history of Broadway and the American Musical.

INTRODUCTION to CINEMATIC STUDIES **2.5 Credits * One Semester * CP * Grades 9-12**
(Course Number 780A)

Through a combination of lectures and film viewing, this class discusses the history, theory, aesthetics, and production behind cinematic arts. Utilizing film guides from the Academy of Motion Picture Arts and Sciences, students will discuss topics such as art direction, animation, cinematography, costumes and makeup, special effects, sound and music, and editing. In addition, students will learn how to write script coverage, log lines, and reviews through journaling activities.

TECHNICAL THEATRE and DESIGN **2.5 Credits * One Semester * CP * Grades 9-12**
(Course Number 790T)

This course introduces students to the technical aspects of theatre and design for theatre. Students enrolled in this class are expected to participate in stage crew. Through video, images, and text analysis, students will develop their skills in the "backstage" aspects of theatre. Topics include basic safety, set design, lighting design, make-up, and costume design.

PHYSICAL THEATRE AND PLAYMAKING **2.5 Credits * One Semester * CP * Grades 9-12**
(Course Number 788A)

Physical theatre is a genre of theatrical performance that pursues storytelling through primarily physical means. Physical theatre is about space; space being used in different ways and changing our relationship with space. Devising physical theatre is also thinking about where am I going to perform this and how. The below quote provides a synopsis of the engaging approach of this course:

"I often tell actors that imagination is in the body: rather than being limited to a space in the brain, it lies in the movements of fingers and toes, in the contraction and relaxation of muscles. In improvisation, imagination is the response of the body to space, time, music and human dynamic that fuels the thinking brain, not the other way around." -- Christian Darley

**Fulfills 2.5 credits toward Physical Education Requirement*

ADVANCED PERFORMANCE **2.5 Credits * One Semester * CP/Honors * Grades 10-12**
(Course Number 785)

Prerequisite: Acting I

This course is intended as a continuation of study in acting and theatrical performance. Students will continue to develop their skills as actors, exploring more advanced characters and performance text. Topics covered in this course will include classical texts, basic dialects, audition techniques, headshots and resumes, and stage combat.

To enroll in Advanced Performance for Honors credit, the student must audition for, and if selected participate in, the Fall Play or Spring Musical, and participate in an approved performance competition through to all levels selected, in addition to heightened classroom expectations and advanced assignments.

ADDITIONAL PROGRAMS and LEARNING OPPORTUNITIES

COOPERATIVE INTERNSHIP- *Credits: various*

Prerequisite: Written plan pre-approved by administration; prior successful enrollment in CTE program

Senior students are eligible to earn high school credit if they work outside of school in a job related to their CTE course of study. Interested students should speak with their CTE program teacher and their guidance counselor for more information. Student internships provide students in good standing with exposure to the real world of work related to their post-secondary interests. A student is matched with a community learning opportunity that matches his/her educational preparation and post-secondary aspirations. At the work site the student's progress is monitored by a site-supervisor, who acts as a mentor and evaluates the student's progress and provides the student with written feedback of strengths and weaknesses. A teacher at GHS will serve as a Highly Qualified Teacher (HQT) in communicating with the site supervisor. Students who complete internships are often eligible to receive high school credit for their work experience. Students also acquire a variety of work skills that are in demand in the modern work environment. Internships must include a written plan pre-approved by the administration.

GLOUCESTER ALTERNATIVE PROGRAM (GAP)- *Credits: as required*
This program is designed to enable alternative ways to meet graduation requirements by providing a highly structured academic program designed to help students overcome academic and life obstacles to be successful in school. Courses are offered in academic disciplines as well as occupations, independent studies and internships. Students are selected for this program on the basis of faculty and administrative recommendation.

ACTION, INC. COMPASS PROGRAM (COMPASS)- *Credits: as required*
This program is designed to enable alternative ways to meet graduation requirements by providing a highly structured academic program designed to help students overcome academic and life obstacles to meet success in school. Courses are offered in all academic disciplines as well as occupations, independent studies and internships. Students are selected for this program on the basis of faculty and administrative recommendation.

GLOUCESTER POLICE YOUTH ACADEMY PROGRAM- *Credit: 1*
Collaboration between the Gloucester Police, Gloucester High School, Healthy Gloucester Collaborative and *Gloucester U* after-school program makes this program available to community service minded students who are interested in committing outside of school hours to complete the program. Program completers will gain knowledge and insight into their own decision-making and the role law enforcement plays in our daily lives

PATHWAYS FOR CHILDREN TEEN MENTORING PROGRAM- *Credits: 2.5*
This program is described by Pathways as "A chance to make a difference in the life of a child from your own community". Volunteer mentors are matched with children from the Cape Ann community, aged 5-12, who could benefit from a positive role model. The child may need help increasing his/her self-confidence, raising his/her self esteem, extra support in school, etc. This program requires a commitment to many out of school hours and a passion for making a difference in the lives of others.

DUAL ENROLLMENT PROGRAM- *Level: College Prep Credits: by course*
(*Also see page 10*) This program enables seniors to attend local colleges on a full or part-time basis. A student enrolled in this program would receive both high school and college credit for courses taken at a college. The program is based on the premise that qualified seniors have opportunities to be exposed to college level work with the possibility of transferring credits toward their college degree. Students are responsible for providing the high school with college transcripts. Students must have the approval of their guidance counselor and administration before entering this program. Credits vary from 2.5 to 15 credits based on the number of courses and requirements of the program. Students may pursue summer study for credit in other institutions, such as community colleges or other high schools under the same conditions as for the Gloucester summer school program. **Students who enroll at other institutions for summer study and who expect to receive credit are required to receive prior written approval from the principal.**

SUMMER SCHOOL- *Credits: Variable*
Summer school coursework is open to students as an opportunity to earn credit in a course they have previously failed. Remedial coursework is offered trough a computer-based, online learning platform. High school students may register for summer school coursework **only if they have previously taken a course during the regular school year, have completed the course, and have received a failing grade in the course between 50 and 64**. Students who fail courses with grades below 50 may be eligible to partially remediate a course, but not for summer school credit. When a student successfully completes a course through summer school, a final grade of 65 will be recorded on his/her transcript, with a designation that this course had been remediated through summer school.