

WOBURN MEMORIAL HIGH SCHOOL

WOBURN PUBLIC SCHOOLS

www.woburnpublicschools.com

**SCHOOL COMMITTEE
2010**

Denis M. Russell, Chairperson
Patricia E. Chisholm Margarett Masotta
Joseph T. Crowley, Jr. Michael P. Mulrenan
Christopher Kisiel John M. Wells

Superintendent of Schools

Mark D. Donovan
781-937-8233 ext. 200

Assistant Superintendent for Curriculum and Instruction

Gary S. Reese, Ed.D.
781-937-8233 ext. 201

Assistant Superintendent of Finance and Operations

Joseph Elia
781-937-8233 ext. 202

Director of Special Education

Christine Lenahan
781-937-8233 ext. 250

WOBURN MEMORIAL HIGH SCHOOL

www.woburnhightanners.com

Principal

Joseph L. Finigan
781-937-8210 ext. 101

Assistant Principals

Ralph J. Deldon Edward F. Maguire
781-937-8210 ext. 303 781-937-8210 ext. 301

Barry Donovan
781-937-8210 ext. 311

Director of Guidance

Ellen H. Connell
781-937-8210 ext. 109

WOBURN MEMORIAL HIGH SCHOOL

**TO THE PARENTS AND GUARDIANS OF STUDENTS WHO WILL ATTEND
WOBURN MEMORIAL HIGH SCHOOL
DURING THE 2010 - 2011
ACADEMIC YEAR**

Students in Grade 8 at the John F. Kennedy Memorial Middle School, the Daniel L. Joyce Memorial Middle School, and the students in Grades 9, 10, and 11 at Woburn Memorial High School will soon begin to select their courses for the next school year. It is imperative that students and their parents/guardians give course selection a high priority during this time period.

Parents and guardians are urged to discuss courses with their children and their children's teachers and guidance counselors. This is your opportunity to share your concerns about your child's academic future. If you want your child to take a particular class, be sure he/she selects that course. However, you should realize courses with low enrollments will not be offered. Students will be notified as soon as possible if a course will not be offered. If a student fails a class, he/she will need to make up the entire class. It is strongly recommended that the student make up that class by enrolling in a program where full class credit can be given. Contact your guidance counselor for a list of sites.

All eligibility requirements are listed in the *Program of Studies*. Teachers will also discuss the requirements for each course. If you wish to discuss your child's program with his or her teachers or counselor, please make an appointment immediately. All of our staff members look forward to discussing these important issues with you. Woburn Memorial High School teachers are available by appointment.

The parents of students in private and parochial schools should contact the Guidance Office at Woburn Memorial High School (781-937-8210 extension 103).

We look forward to working with parents and students to provide a quality education for all students.

It is again our goal this year to give schedules to all students in June 2010.

Ellen H. Connell
Director of Guidance

WOBURN MEMORIAL HIGH SCHOOL

PROGRAM OF STUDIES 2010 - 2011

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WOBURN MEMORIAL HIGH SCHOOL

Welcome to Woburn Memorial High School

As the high school principal, I find it very gratifying to work with our enthusiastic students and dedicated faculty in our incredible facility. I am proud of our school and its continuing tradition of excellence. In our new building, whether it is the classrooms designed to match instruction, the impact of state-of-the-art technology, or the finest performance venues and athletic facilities, you, our students, will experience unparalleled opportunities. This Program of Studies has been prepared to give students and understanding on their courses available at Woburn Memorial High School. Challenge yourself as you select courses for next year. Make the most of your high school experience by choosing courses that will open doors for you upon graduation from WMHS. For an educator, there is no finer work than to be involved in helping students discover and develop their goals and dreams.

- If you are a ninth grader, coming for the first time, the adventure for which you have been waiting begins in earnest. Over the next ten months, you will make new friends, learn many things, and participate in activities that will stay with you for the rest of your life.
- To our returning sophomores, keep those promises about this year's academics and activities that I am sure you made to yourself last year. Get off to a quick start; get off to a good start. Take advantage of the high school experience that you now have to reach for greater success. Your high school years are too important to waste any one of them!
- To the juniors, you know the ropes. I hope you are returning to school with renewed purpose and commitment and the willingness to put forth the effort to be successful---not next year, but this year. Make good choices---this year!
- My seniors, this is your year. Do not fall for Senior Myths. Know that you will need to work hard to receive a WMHS diploma. But take advantage of the many opportunities that you will have this year to continue discovering yourself and planning your future. Our expectations are: Respect, Responsibility, and Honesty. Be the leaders in our classrooms and on the venues of our campus, and be the leader in your own life.

There are always ways to improve, and that is what WMHS is about. I encourage each of you to be fully involved in all facets of the school. Your participation in any of the wide range of activities offered will add to your overall development. You will enjoy the days more. Your involvement will also help to make Woburn Memorial High School a better place...an active place...a place where you will have created your niche.

Promoting a school atmosphere that is conducive to learning requires that we maintain certain rules and procedures. This handbook describes the operational procedures, provides you with the tone of our educational philosophy, and informs you of the services available to you here at WMHS. I know that you and your parents will take the time to review all of the information provided. This year, again we have placed our full handbook on the school web site. Please peruse this hard copy of the Program of Studies and the electronic handbook available at <http://woburnhightanners.com> for full notification of school policies, practices, and other pertinent information, as well as blank school and athletic forms for downloading.

On behalf of the administration, faculty, and staff, I extend our welcome and wish you a fulfilling school year.

Mr. Joseph L. Finigan
Principal of WMHS

EXCELLENCE IN ACADEMICS, ATHLETICS AND ACTIVITIES

WOBURN MEMORIAL HIGH SCHOOL

WOBURN MEMORIAL HIGH SCHOOL MISSION STATEMENT

The mission of Woburn Memorial High School is to provide academic and co-curricular programs that reflect the opportunities and challenges inherent in our rapidly changing society. We expect a commitment to excellence on the part of students, staff, parents, and community. We are committed to maintaining a safe, diverse, secure, and comfortable environment which promotes the physical and emotional well-being of students and staff.

ACADEMIC EXPECTATIONS

Students at Woburn Memorial High School will:

- Read effectively.
- Write effectively.
- Speak/Communicate effectively.
- Develop critical and analytical thinking skills.
- Exhibit skills and knowledge of current technology.

SOCIAL EXPECTATIONS

Students at Woburn Memorial High School will:

- Be accountable for their behavior and actions.
- Demonstrate an appreciation, understanding, and respect for all individuals.
- Be encouraged to resolve disagreements and conflicts.

CIVIC EXPECTATIONS

Students at Woburn Memorial High School will:

- Participate in meaningful community and school activities.
- Develop an awareness and understanding of individual rights and responsibilities in the community, state, and nation.
- Provide input on school policy.

WOBURN MEMORIAL HIGH SCHOOL

READING RUBRIC

Grades 9-12

Achievement Level	Student Displays All or Most of These Behaviors
4 Advanced	CONSISTENTLY <ul style="list-style-type: none">• Applies strategies to comprehend, interpret, analyze, and evaluate a variety of material including maps, graphs, charts, and tables• Reads for a determined purpose: critical analysis, research, information, and/or pleasure• Understands literal, figurative, formal, informal, and technical meanings of terms• Connects new reading to previous readings or experiences• Compares author’s ideas with own ideas to expand critical thinking skills and decision-making abilities
3 Proficient	USUALLY <ul style="list-style-type: none">• Applies strategies to comprehend, interpret, analyze, and evaluate a variety of material including maps, graphs, charts, and tables• Reads for a determined purpose: critical analysis, research, information, and/or pleasure• Understands literal, figurative, formal, informal, and technical meanings of terms• Connects new reading to previous readings or experiences• Compares author’s ideas with own ideas to expand critical thinking skills and decision-making abilities
2 Needs Improvement	OCCASIONALLY <ul style="list-style-type: none">• Applies strategies to comprehend, interpret, analyze, and evaluate a variety of material including maps, graphs, charts, and tables• Reads for a determined purpose: critical analysis, research, information, and/or pleasure• Understands literal, figurative, formal, informal, and technical meanings of terms• Connects new reading to previous readings or experiences• Compares author’s ideas with own ideas to expand critical thinking skills and decision-making abilities
1 Failing	RARELY/NEVER <ul style="list-style-type: none">• Applies strategies to comprehend, interpret, analyze, and evaluate a variety of material including maps, graphs, charts, and tables• Reads for a determined purpose: critical analysis, research, information, and/or pleasure• Understands literal, figurative, formal, informal, and technical meanings of terms• Connects new reading to previous readings or experiences• Compares author’s ideas with own ideas to expand critical thinking skills and decision-making abilities

WOBURN MEMORIAL HIGH SCHOOL

WRITING RUBRIC

Grades 9-12

Achievement Level	Student Displays All or Most of These Behaviors
4 Advanced	CONSISTENTLY <ul style="list-style-type: none">• Uses varied and complete sentence structure• Uses correct punctuation, standard spelling, and capitalization• Uses rich, appropriate, and varied vocabulary according to the task• Keeps paragraph(s) focused on single ideas• Employs accurate transitions to connect ideas in single or multi-paragraph writing• Demonstrates an understanding of the characteristics of the major types of writing: persuasive, informative, narrative, analytical, and investigative• Develops the topic thoroughly with specific details
3 Proficient	USUALLY <ul style="list-style-type: none">• Uses varied and complete sentence structure• Uses correct punctuation, standard spelling, and capitalization• Uses rich, appropriate, and varied vocabulary according to the task• Keeps paragraph(s) focused on single ideas• Employs accurate transitions to connect ideas in single or multi-paragraph writing• Demonstrates an understanding of the characteristics of the major types of writing: persuasive, informative, narrative, analytical, and investigative• Develops the topic thoroughly with specific details
2 Needs Improvement	OCCASIONALLY <ul style="list-style-type: none">• Uses varied and complete sentence structure• Uses correct punctuation, standard spelling, and capitalization• Uses rich, appropriate, and varied vocabulary according to the task• Keeps paragraph(s) focused on single ideas• Employs accurate transitions to connect ideas in single or multi-paragraph writing• Demonstrates an understanding of the characteristics of the major types of writing: persuasive, informative, narrative, analytical, and investigative• Develops the topic thoroughly with specific details
1 Failing	RARELY/NEVER <ul style="list-style-type: none">• Uses varied and complete sentence structure• Uses correct punctuation, standard spelling, and capitalization• Uses rich, appropriate, and varied vocabulary according to the task• Keeps paragraph(s) focused on single ideas• Employs accurate transitions to connect ideas in single or multi-paragraph writing• Demonstrates an understanding of the characteristics of the major types of writing: persuasive, informative, narrative, analytical, and investigative• Develops the topic thoroughly with specific details

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**SOLVE PROBLEMS
USING
CRITICAL AND ANALYTICAL THINKING SKILLS
RUBRIC
Grades 9-12**

Achievement Level	Student Displays All or Most of These Behaviors
4 Advanced	CONSISTENTLY <ul style="list-style-type: none">• Interprets evidence such as statements, graphics, maps, and questions accurately and independently• Draws logical conclusions and uses evidence objectively to justify those conclusions• Organizes and synthesizes useful information• Compares, contrasts, and critically evaluates information and major points of view
3 Proficient	USUALLY <ul style="list-style-type: none">• Interprets evidence such as statements, graphics, maps, and questions accurately and independently• Draws logical conclusions and uses evidence objectively to justify those conclusions• Organizes and synthesizes useful information• Compares, contrasts, and critically evaluates information and major points of view
2 Needs Improvement	OCCASIONALLY <ul style="list-style-type: none">• Interprets evidence such as statements, graphics, maps, and questions accurately and independently• Draws logical conclusions and uses evidence objectively to justify those conclusions• Organizes and synthesizes useful information• Compares, contrasts, and critically evaluates information and major points of view
1 Failing	RARELY/NEVER <ul style="list-style-type: none">• Interprets evidence such as statements, graphics, maps, and questions accurately and independently• Draws logical conclusions and uses evidence objectively to justify those conclusions• Organizes and synthesizes useful information• Compares, contrasts, and critically evaluates information and major points of view

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COMMUNICATION RUBRIC

Grades 9-12

Achievement Level	Student Exhibits the Following Behaviors through Class Participation and Formal Oral Presentations
<p align="center">4 Advanced</p>	<p>CONSISTENTLY</p> <ul style="list-style-type: none"> • Demonstrates the ability to craft language using well-developed, thoughtful, focused, and appropriate sentences • Enunciates clearly and confidently using correct pronunciation • Employs an appropriate level of voice projection and expression • Maintains eye contact and a suitable tone to enhance communication with the listener • Uses creatively a variety of mediums in the visual and performing arts for research assignments, projects, and presentations • Demonstrates proficient use of technology to communicate ideas and information
<p align="center">3 Proficient</p>	<p>USUALLY</p> <ul style="list-style-type: none"> • Demonstrates the ability to craft language using well-developed, thoughtful, focused, and appropriate sentences • Enunciates clearly and confidently using correct pronunciation • Employs an appropriate level of voice projection and expression • Maintains eye contact and a suitable tone to enhance communication with the listener • Uses creatively a variety of mediums in the visual and performing arts for research assignments, projects, and presentations • Demonstrates proficient use of technology to communicate ideas and information
<p align="center">2 Needs Improvement</p>	<p>OCCASIONALLY</p> <ul style="list-style-type: none"> • Demonstrates the ability to craft language using well-developed, thoughtful, focused, and appropriate sentences • Enunciates clearly and confidently using correct pronunciation • Employs an appropriate level of voice projection and expression • Maintains eye contact and a suitable tone to enhance communication with the listener • Uses creatively a variety of mediums in the visual and performing arts for research assignments, projects, and presentations • Demonstrates proficient use of technology to communicate ideas and information
<p align="center">1 Failing</p>	<p>RARELY/NEVER</p> <ul style="list-style-type: none"> • Demonstrates the ability to craft language using well-developed, thoughtful, focused, and appropriate sentences • Enunciates clearly and confidently using correct pronunciation • Employs an appropriate level of voice projection and expression • Maintains eye contact and a suitable tone to enhance communication with the listener • Uses creatively a variety of mediums in the visual and performing arts for research assignments, projects, and presentations • Demonstrates proficient use of technology to communicate ideas and information

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**TECHNOLOGY
RUBRIC
Grades 9-12**

Achievement Level	Student Displays All or Most of These Behaviors
4 Advanced	CONSISTENTLY <ul style="list-style-type: none">• Demonstrates proficient use of technology to communicate ideas and information• Uses current technologies appropriately for research assignments, projects, presentations, and portfolios
3 Proficient	USUALLY <ul style="list-style-type: none">• Demonstrates proficient use of technology to communicate ideas and information• Uses current technologies appropriately for research assignments, projects, presentations, and portfolios
2 Needs Improvement	OCCASIONALLY <ul style="list-style-type: none">• Demonstrates proficient use of technology to communicate ideas and information• Uses current technologies appropriately for research assignments, projects, presentations, and portfolios
1 Failing	RARELY/NEVER <ul style="list-style-type: none">• Demonstrates proficient use of technology to communicate ideas and information• Uses current technologies appropriately for research assignments, projects, presentations, and portfolios

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PROMOTION AND GRADUATION

REQUIREMENTS FOR PROMOTION AND GRADUATION:

For promotion to Grade 10	25 credits
For promotion to Grade 11	50 credits
For promotion to Grade 12	75 credits
Minimum required to graduate	100 credits

COURSE CREDITS:

All students must be enrolled in at least six full-time or equivalent academic subjects. Seniors must be passing in courses worth twenty (20) credits for graduation, irrespective of the total credits previously earned. A student who transfers into Woburn Memorial High School must be in attendance full-time on a daily basis for at least one semester to be eligible for a diploma from Woburn Memorial High School.

In addition, to graduate from Woburn Memorial High School, a student must successfully complete:

- Four years of English
- Four years of History and Social Science, one of which must be American History
- Four years of Science and Technology
- Four years of Mathematics
- 7.5 credits of Physical Education
- Required Business Courses
- Required World Language Courses
- Required Wellness Courses
- Required Art Courses
- Required Music Courses

Students under individual education plans or 504 plans may have any of the above requirements waived if the student's team feels he/she has achieved the goals of the individualized education plan or 504 plan.

Students who have failed to pass the math, English, or science MCAS entering their senior year must take a class in math and/or English and/or science even if they have met the math and/or English and/or science requirement for graduation.

Woburn Memorial High School recognizes scholarship by publishing a scholastic honor roll each term and by the annual election of members to the National Honor Society of Secondary Schools, Woburn Memorial High School Chapter. Honor Societies have also been established in many departments. Often these are branches of National Honor Societies.

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PREREQUISITES FOR PROMOTION AND CONTINUATION IN COURSES

The following prerequisites for promotion and continuation in sequential courses have been adopted for the Woburn School System in Grades 9 through 12:

1. In addition to existing requirements for promotion, all students must pass English each year.
2. All students should pass each course with a grade of D or better to continue to the next course in the sequence.
3. To proceed sequentially at the honors level a student should earn a minimum grade of B.

If a student is not recommended for a course he/she desires, the student and parent may:

1. Write a letter to the principal.
2. Show an improvement in work and ask for reconsideration in June.

ACADEMIC RECOGNITIONS STANDARDS

I. Honor Roll Eligibility

A. High Honors Eligibility

Students who have received all A's or all A's and one B based on all courses taken. To qualify a student must have at least six full time courses. Students who have difficulty scheduling six courses in a term, through legitimate scheduling problems, can be qualified for High Honors by permission of the principal.

B. Honors Eligibility

Students who have received all A's and B's based on all courses taken. To qualify a student must have at least six full time courses. Students who have difficulty scheduling six courses in a term, through legitimate scheduling problems, can be qualified for Honors by permission of the principal.

Note: Students enrolled in pass/fail courses are not eligible for High Honors and Honors unless they are enrolled in six full time subjects.

II. Graduating Summa Cum Laude, Magna Cum Laude, Cum Laude

A. Summa Cum Laude: Students who graduate in the top 10% of their class.

1. Class Rank is based on the student's letter grades. Courses are weighted by their level: Advanced Placement, Honors, Academic, and E.C.
2. Class Rank calculations are the sum of a student's cumulative weighted grades, divided by the number of credits attempted.

B. Magna Cum Laude: Students who graduate in the second 10% of their class.

1. All Class Rank requirements and calculations are the same as those for graduating Summa Cum Laude.

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C. Cum Laude

1. Eligibility for this category will be for students who attain the High Honor Roll, the Honor Roll, or a combination of the two in each of the four years of cumulative grades or a cumulative grade point average of 5.25 or better, based on the Class Rank calculation.
2. This category is for students who have strong letter grade marks in lower-weighted courses; thus, they do not fall into the top 20% of their class.

III. Add/Drop Policy

Students who withdraw from a course after 10 class days will be graded as follows:

WP – Withdraw Pass, or **WF** – Withdraw Fail. The WP or WF will appear on the permanent record and may be a determinant in class rank.

ATHLETIC CO-CURRICULA ELIGIBILITY

A student must accrue twenty-five (25) credits each term in order to be eligible for participation in athletics and co-curricula activities.

IMPORTANT: To be eligible for participation for fall sports and activities, a student must have passed courses valued at 25 credits during the fourth term of the previous school year. Also, a student must receive passing final grades to the equivalent of at least 25 credits. Students are allowed to attend an approved summer school to regain eligibility for fall sports and co-curricula activities.

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HARLOW LIBRARY

The Harlow Library is the library/media center of Woburn Memorial High School. It is named in memory of Dr. John Harlow, a prominent physician during the nineteenth century, who was involved in a famous case in which a railroad worker, Phineas Gage, had a metal rod blown through his head. This man lived, but his personality changed greatly. Dr. Harlow correlated Gage's behavioral changes with the area of frontal damage to the brain. (*Science*, 20 May 1994 p. 1102.) Dr. Harlow and his wife left bequests in their wills to buy books for the high school library.

Today the Harlow Library contains a variety of print and non-print information. The library has 26 on-line computers (work stations) and 2 printers. The library has access to many on-line services as well as the resources of the Woburn Public Library. As a member of the Metrowest Massachusetts Regional Library System, the library computers provide access to many databases that can be used for class research projects.

The library has a variety of audio visual equipment such as CD players, TV's with DVD/VCR combination and projectors to be loaned to classes. The library facility is also equipped with a video projector with a computer. Teachers and students are able to do power point, show DVDs or videos to classes. There are also two smart boards for project use as well as four small project rooms used for small class assignments. The library has also added a professional collection of materials for staff use. These materials feature the latest handbooks and manuals on a variety of subjects for teachers to use with their classes.

The library is open Monday through Thursday from 7:00 a.m. to 3:00 p.m., and on Friday from 7:00 a.m. to 1:50 p.m. Students may use the library during study periods or before or after school. Classes also come to the library to work on projects.

A major aim of the library/media center is to provide materials and individualized instruction to help develop the research and critical skills of students. Another aim of the library/media center is to encourage reading. To support this endeavor, the library has many books and magazines for pleasure reading. The Harlow Library is a busy place.

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STUDENT SERVICES

LEARNING CENTER

The purpose of the Woburn Memorial High School Learning Center is to strive for high standards in student achievement. The Center provides a sense of community, which guides students toward creativity and independent thinking. Innovative educational strategies and technologies are incorporated into the center to complement these efforts.

By promoting communication and collaboration among students, staff, and faculty, the Center strives to inspire educational excellence and to ensure the success of undergraduates at Woburn Memorial High School.

The support program at the Learning Center promotes academic success by combining a team of faculty members and highly qualified undergraduates who assist in tutoring their peers. Support is available both during the school day and after school until 2:25 p.m. on a drop-in basis Monday through Thursday. Support is provided in the following areas:

- The writing process
- Math computation and application
- Reading comprehension
- Fundamentals of science and technology
- Second language acquisition

The Center also provides:

- Academic Support
- Semester exam reviews
- Library of texts
- Computer center
- Computer software

The Learning Center with its low student-teacher ratio can help students maximize their academic performance. Students have the opportunity to learn, develop and enhance study skills such as:

- Listening and note taking
- Test taking strategies
- Textbook comprehension
- Research paper development
- Memory strategies
- Study skills
- Organizational skills
- Homework strategies

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SPECIAL EDUCATION

The Woburn Public Schools, in accordance with Federal Individuals with Disabilities Education Act (IDEA-04) and the Code of Massachusetts Regulations (CMR)-Title 603 P.L. 94-142 and Chapter 766, offer a diversified and comprehensive network of special education services to students with special needs. Access to special education programs is determined by the High School Evaluation Team. Referrals for a team evaluation may come from school personnel, parents, or a physician. State and Federal regulations govern the procedures of the evaluation team.

The High School also has a Student Support Team comprised of administration, guidance, and special education staff. The team meets weekly to discuss student issues. Parents are encouraged to first use this process if they have a concern regarding their child's progress. Referrals should be made directly to the Building Principal.

Programs and Services

Special Education services are offered in three ways: teaming with general education, individualized special education classes and programs, and the Learning Center.

Team teaching is offered through the Enhanced Competence (EC) courses in Grades 9 - 11. The Enhanced Competence program is for those special and regular education students who require assistance with remedial skills as well as organizational and study skills. Courses are offered in the areas of English, math, history, and social science, as well as science and technology. Recommendation for student placement is made at the student's team meeting.

The Learning Center is a regular and special education offering. The Center provides academic support in all areas with a specific focus on study skills and strategies. A more specific description is provided under Student Services.

There are specific programs offered at Woburn Memorial High School, they are:

The **Transition/Launch Program** for grades 9 through 12 and post graduates to age 22, which is offered for those students with cognitive special needs who require a pre-vocational program. Students receive academics, as part of including pre-vocational programming in a small group setting. Students may also participate in regular education offerings including the team-taught enhanced courses. Entrance to the program is by recommendation of the Evaluation Team. Students have the opportunity to participate in the pre-employment placements with the support of a job coach.

High Expectations is offered for those students who, because of psychological and/or emotional needs, require a small therapeutic placement. A strong academic and emotional support component is provided to students. Parent involvement is a key component of the program. The Evaluation Team in conjunction with High Expectations staff and the Building Principal determine entrance to the program.

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The Academic Support Center (TASC)/Next Wave is for students with disabilities in the language areas of either verbal or nonverbal. Students receive intensive academic and organizational support to foster success in their inclusion classes. Students may participate in pre-vocational/vocational training, counseling, social pragmatics and job coaching.

Remedial reading is also available as a specialized class for recommended students.

More information regarding the Transition Program, TASC, and High Expectations can be obtained from the Woburn Memorial High School Chairperson, Mrs. Christine Kimmelman.

Special Education students are expected to take the same number of credits per year for graduation as non-special education students. Further, they are expected to take required courses for graduation, except when stated in the IEP. Federal and State regulations require that all students participate in the regular education program to the extent that their abilities allow. Through the student's IEP, accommodations will be made that are commensurate with the student's abilities, and disabilities, thereby promoting successful participation in the regular education program.

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LEVELS OF INSTRUCTION

All of the courses at Woburn Memorial High School are offered at levels of instruction to meet the varying needs of students as they progress through the high school. The levels of instruction are not fixed but change as the individual needs of the students change. The different abilities a student may have in various subjects are accommodated by placing the student in courses that are at different instructional levels. Thus, each student's program is challenging and provides the student with a variety of opportunities to explore and expand his/her education opportunities.

The level of instruction a student selects in each subject should be determined by the following:

1. The ability of the student.
2. Previous achievement in related courses.
3. Recommendations of subject area teachers and guidance counselors.
4. The expressed wish of the student and parents or guardian in terms of the student's interests and life aims.
5. The necessary sequence of courses required for graduation and entrance into specialized programs.

Advanced Placement Courses

The Advanced Placement courses (AP) allow high school students the opportunity to study college level courses while still in high school and offer them the possibility of receiving Advanced Placement credit in college on the basis of the AP examination. Students are selected for AP courses after applying for the courses through the department chairperson. It is strongly recommended that students take no more than three Advanced Placement courses in the same year. Students taking AP courses **must** take the AP exam in that subject.

Honors Courses

Honors level courses are intensive academic courses. They require students to have a high level of proficiency in the subject. Honors level courses require students to be involved in high-level study through extensive project, reading and writing assignments outside of the classroom.

Academic Courses

Academic courses are the preferred level courses for post secondary school. All academic courses at Woburn Memorial High School demand a high degree of achievement; students are expected to complete a wide range of reading, writing and project assignments.

Enhanced Competence Courses

Enhanced Competence (EC) courses are for those students who test below grade level in English, mathematics, science and technology, or history and social science. Teachers will work with students in the enhanced competence courses to increase the students' skills so they can enter the academic program and graduate from high school with demonstrated competency in English, mathematics, science, and history and social science.

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WEIGHTING OF LETTER GRADES FOR RANK IN CLASS

The different levels of instruction require different numbers and types of assignments. Thus, the letter grades students earn in each subject at each level are weighted with different point values to insure fairness in determining rank in class. The point values are shown on the following chart

WEIGHTED FORMULA FOR DETERMING CLASS RANK

Instructional Levels and Letter Grades
(Point Value for Determining Rank in Class)

<u>Letter Grade</u>	<u>Level 5 Adv. Pl.</u>	<u>Level 4 Honors</u>	<u>Level 3 Academic</u>	<u>Level 2 E.C.</u>
A+	7.8	6.8	5.8	4.8
A	7.5	6.5	5.5	4.5
A-	7.2	6.2	5.2	4.2
B+	6.8	5.8	4.8	3.8
B	6.5	5.5	4.5	3.5
B-	6.2	5.2	4.2	3.2
C+	5.8	4.8	3.8	2.8
C	5.5	4.5	3.5	2.5
C-	5.2	4.2	3.2	2.2
D+	4.8	3.8	2.8	1.8
D	4.5	3.5	2.5	1.5
D-	4.2	3.2	2.2	1.2
F+	0	0	0	0
F	0	0	0	0

A+ 100-97	B+ 89-87	C+ 79-77	D+ 69-67	F+ 59-50
A 96-93	B 86-83	C 76-73	D 66-63	F 49-0
A- 92-90	B- 82-80	C- 72-70	D- 62-60	

ACCREDITATION

Woburn Memorial High School is a fully accredited member of the New England Association of Schools and Colleges (NEASC.) The accreditation is an expression of the confidence the NEASC has in Woburn Memorial High School's purpose, resources, and performance. It attests to the judgment of educators from NEASC that Woburn Memorial High School is guided by well defined and appropriate educational objectives; that the objectives are being achieved; and that the school is organized, staffed, and supported in such a way that it will be able to continue to reach the objectives for some time.

WOBURN MEMORIAL HIGH SCHOOL

COLLEGE ADMISSION

Many changes have occurred in the college admissions process in recent years. Increasing numbers of colleges are requiring students to take the College Entrance Examination Board (CEEB) tests. The tests are of two types. The first, SAT Reasoning Test, is designed to show how well a student reasons by assessing the student's abilities in reading, vocabulary, mathematics, and writing. The second, SAT Subject Tests, measures the student's knowledge in subjects such as English, social studies, mathematics, chemistry, physics, biology, French, Spanish, and Latin.

The American College Testing (ACT) program is also becoming popular in this area. Colleges may use this testing program instead of the CEEB testing program. The ACT program also consists of an aptitude/reasoning section and an achievement section. The writing section is optional but is required by most colleges.

College admissions officers place emphasis on the high school academic record, the rigor of the student's curriculum, recommendation of teachers and the guidance counselor, results of the CEEB or ACT tests, personal interviews and extracurricular activities.

Students who are applying to college must make an appointment with their guidance counselor to review the requirements for college. By meeting frequently with their guidance counselor students will make more informed choices about the colleges that would best fulfill their academic needs and career goals.

THE EXTRACURRICULAR PROGRAM

Woburn Memorial High School provides a wide range of extracurricular activities to meet the needs and interests of pupils. Included in these activities are Yearbook, National Honor Society, Student Council, Connecting Activities, Drama Club, Show Choir, Band, Jazz Choir, Jazz Band, Marching Band, Public Speaking, Key Club, Leo Club, Dance Team, History Club, Interact Club, International Club, the *Bull's Eye, Lit* (literary magazine), Book Club, Best Buddies, Math Team, Science Team, LEARN, Peer Mediator, SRO Mentors, S.A.D.D., Shakespeare Society, Spectrum, Youth in Government, and the Ski and Snowboard Club.

Woburn is a member of the Middlesex League. A full range of athletic activities is provided during each season. Students may participate in football, basketball, soccer, baseball, hockey, tennis, track, cross country, wrestling, gymnastics, golf, swimming, softball, lacrosse, and field hockey. Students participating in sports and extracurricular activities must secure, during the last marking period preceding an activity, a passing grade in at least 25 credits of prepared work in classes meeting five days per week to be eligible to participate in the activity or competition (see page 10).

WOBURN MEMORIAL HIGH SCHOOL

SUMMER SCHOOL

The Woburn Summer School program provides a wide range of courses for all students. All summer study for the purpose of reviewing courses previously pursued must receive the approval of the principal through the Guidance Department prior to registration for the course. Any course taken outside the Woburn Summer School Program must be approved in advance by the principal.

A course being taken in summer school that was not previously taken will be approved only when the time requirement and scope of the course are equivalent to the study of the course during the school year.

Summer study grades are recorded on the transcript. The original grade for a course will not be changed. The summer study grade may upgrade the original grade on a transcript by one grade only and may upgrade rank in class.

Students with questions concerning the summer school program should contact Ralph Deldon at Woburn Memorial High School (781-937-8210 extension 303).

Students with questions about how the summer school program will affect their grades and class standing should contact the Guidance Office.

IMPORTANT

In order to qualify to attend summer school the following conditions must met.

1. You must have achieved a grade of at least 50% (or F+) to qualify for summer school. If your grade is less than 50% (or F) you must repeat the entire course.*
2. You must have attended at least 75% of the classes in order to qualify to take a failed course in summer school. If your absences exceed 25%, you must repeat the entire course. Appeals of the attendance requirement may be made to the Woburn Memorial High School Appeals Committee.

***Note:** In lieu of repeating the entire course students can choose to take a double class during summer school.

WOBURN MEMORIAL HIGH SCHOOL

DESCRIPTION OF COURSES 2010 - 2011

STUDENTS PLEASE NOTE

The selection of courses listed in this booklet will be subject to enrollment requests and budgetary allowances as determined by the fiscal constraints imposed for the 2009 - 2010 academic year.

BUSINESS EDUCATION

The Business Education Department's mission is to introduce and prepare all students for the many business or educational challenges they may encounter throughout their careers.

We at Woburn Memorial High School believe that a strong background in business creates a foundation that lasts a lifetime. The curriculum is designed to benefit both business and college bound students. Students who plan on entering the business world are encouraged to take advantage of the multitude of diversified courses that are offered to enable them to develop or enhance marketable skills for employment upon graduation. Courses such as word processing, advanced computer applications, accounting, marketing, and banking are recommended. Students continuing on to college will find these courses useful in order to prepare them for their next level of learning.

A Business course is mandatory for all students in Grades 9 and 10. Microsoft Word 1 is strongly recommended for all students.

All students should take advantage of the many computer courses offered in the Business Education Department.

The following courses may be elected to fulfill one of the four years of math required for graduation: Accounting or College Accounting.

We have recently entered into an articulation agreement with Middlesex Community College. Students who take Accounting 1 and Accounting 2, College Accounting, Advanced Computer Applications, or Word 1, receive a grade of B or better and meet certain college requirements, are eligible for college credit for those courses if they enroll in the business program at Middlesex Community College.

COURSE TITLE: Introduction to Business (full year course)

LEVEL OFFERED: Academic 500

PREREQUISITES: A strong interest in the business environment and a possible business career.

DESCRIPTION: Introduction to Business introduces students to the business environment and economic system from the viewpoint of activities as a consumer and a worker. It provides an overview of the entire field of business and gives background information that is necessary for those who may desire a business career. Course content includes the fundamentals of buying, selling, banking and financial services, managing money, using credit wisely, insurance, and other business activities.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Banking 1 / Personal Finance (full year course)

LEVEL OFFERED: Academic and Honors 502

PREREQUISITES: Available to juniors and seniors only; a strong math background and an interest in the banking industry.

DESCRIPTION: Personal finance, an introduction to the banking industry, and all phases of entry-level banking will be taught. Students who would like to work in the school bank their senior year need to have taken Banking 1.

COURSE TITLE: Banking 2 (full year course)

LEVEL OFFERED: Honors 505

PREREQUISITES: Available to seniors only; Banking 1 or recommendation of present instructor

DESCRIPTION: Students enrolled in Banking 2 will have the opportunity to work during the scheduled class period as bank tellers.

COURSE TITLE: Microsoft Word 1 (semester course)

LEVEL OFFERED: Academic - Fall 514, Spring 515

PREREQUISITES: None

DESCRIPTION: This course is for all students who have little or no formal word processing skills and is **mandatory** for students planning on taking any computer course in the Business Department. Students will learn the keyboard by the touch method. After mastering the keyboard, students will learn the basic features of Microsoft Word including creating, editing, spell checking, using the thesaurus, printing, and saving documents, copying and moving blocks of text, formatting, page setup, margins, tab positions, fonts, indenting, alignment, headers, footers, and page numbering. A placement test, before the class begins, will be given to students who wish to begin word processing at a higher level.

COURSE TITLE: Microsoft Word 2 (semester course)

LEVEL OFFERED: Academic - Fall 516, Spring 517

Honors - Fall 518, Spring 519

PREREQUISITES: Microsoft Word 1 or recommendation of present instructor.

DESCRIPTION: Microsoft Word 2 continues the study of computer word processing. Students will be taught advanced word processing techniques including working with multiple documents, using template files, creating tables, using table styles and formulas, performing mail merges, working in outline mode, document protection, macros, creating hyperlinks, columns, clip art, word art, borders and shading, and text boxes.

This class is an excellent selection for either business or college bound students.

COURSE TITLE: Advanced Computer Applications - A (semester course)

LEVEL OFFERED: Academic and Honors 546

PREREQUISITES: Microsoft Word 1 or 2 and recommendation of present instructor, available to juniors and seniors.

DESCRIPTION: Advanced computer concepts will be taught with an emphasis on spreadsheet analysis and database management. Students will learn Microsoft Excel and Microsoft Access. Students will be required to complete projects with a high level of difficulty.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Advanced Computer Applications – B (semester course)

LEVEL OFFERED: Academic and Honors 547

PREREQUISITES: Microsoft Word 1 or Microsoft Word 2 and recommendation of present instructor, available to juniors and seniors. *Please note: Advanced Computer Applications - A is **not** a prerequisite for this course.*

DESCRIPTION: Advanced computer applications will be taught with an emphasis on desktop publishing and presentation skills. Students will learn to develop effective slide presentations using Microsoft PowerPoint. Desktop publishing projects will be completed using Microsoft Publisher and Microsoft Word. Students will also create a web page.

COURSE TITLE: Accounting 1 (full year course)

LEVEL OFFERED: Academic 552

PREREQUISITES: Available to sophomores, juniors, and seniors.

DESCRIPTION: Accounting 1 teaches students basic accounting skills and provides a general overview and understanding of the accounting cycles for both a sole proprietorship service business and a partnership merchandising business. Emphasis is placed on developing good work habits, analyzing problems, and applying accounting principles to problem solving.

COURSE TITLE: College Accounting (full year course)

LEVEL OFFERED: Honors 553

PREREQUISITES: Available to sophomores, juniors, and seniors. A previous keyboarding course is highly recommended.

DESCRIPTION: College Accounting is a comprehensive, accelerated course. Students establish a solid foundation in accounting principles and procedures upon which they can build their studies in college. It includes hands-on experience in computerized accounting procedures. Students who successfully complete the course may, with their teacher's recommendation, enter Accounting 3.

COURSE TITLE: Accounting 2 (full year course)

LEVEL OFFERED: Academic 554

PREREQUISITES: Accounting 1 and recommendation of present instructor. A previous word processing course is highly recommended.

DESCRIPTION: Accounting 2 prepares students for accounting courses at an advanced vocational or college level. Emphasis is on the accounting cycle and related problems as they apply to partnership and corporate forms of business. Computerized accounting procedures are taught as well.

COURSE TITLE: Accounting 3 (full year course)

LEVEL OFFERED: Academic 557 - Honors 555

PREREQUISITES: Accounting 2 or College Accounting, and recommendation of present instructor. A previous keyboarding course is highly recommended.

DESCRIPTION: Accounting 3 is an automated course that explores the concepts of cost and management accounting. Partnership and corporate accounting cycles are reviewed. This course places a heavy emphasis on the role of computers in business.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Accounting 4 (full year course)

LEVEL OFFERED: Honors 556

PREREQUISITES: Accounting 3 and recommendation of present instructor.

DESCRIPTION: College-level materials will be used by students to study the following areas within the field of accounting: cost accounting, corporations, taxes, and financial analysis. Emphasis is placed on using spreadsheets as well as other automated accounting software.

COURSE TITLE: Marketing (full year course)

LEVEL OFFERED: Academic 570, Honors 569,

PREREQUISITES: Available to sophomores, juniors, and seniors.

DESCRIPTION: Marketing is designed to teach students about retail merchandising, management, business ownership, selling, advertising, and promotions. Students develop an awareness of the career opportunities available to them in these fields.

DRIVER EDUCATION

This eight-week course offers instruction in the classroom and behind the wheel in a dual controlled automobile. It emphasizes safety and demands familiarity with requirements for the legal operation of motor vehicles. Certificates issued by the Registry of Motor Vehicles are granted to those who successfully complete the course.

Driver Education is offered on a tuition basis. The class meets after school. No academic credit is given.

WOBURN MEMORIAL HIGH SCHOOL

ENGLISH

The goal of the English Department is to develop facility in all areas of language arts - reading, writing, listening, and speaking. The English teachers use the Massachusetts English Language Arts Curriculum Framework Learning Standards as their guide for classroom instruction. Students must successfully complete four years of English to graduate from Woburn Memorial High School.

The English Department offers a sequential program in grammar, vocabulary, composition, and literature. At each grade level, students examine novels, plays, poems, short stories, and essays by classical and contemporary authors. All students also write persuasive, narrative, descriptive, and analytical essays as well as a research paper each year. All students must meet prerequisite requirements or recommendation of present instructor or department chairperson for the course(s) they select.

ENGLISH 9

COURSE TITLE: English 9

LEVELS OFFERED: Enhanced Competence 012, Academic 014, Honors 015

PREREQUISITES: Honors: Students must have achieved a grade of A in English 8 or have the recommendation of present instructor or department chairperson.

DESCRIPTION: English 9 stresses the introduction to principles of writing, vocabulary building, grammar, speaking, and listening, as well as, introducing students to new authors and their works. All students are required to keep a writing folder and will write a minimum of 12 essays. A research paper is also required for all freshmen.

ENGLISH 10

COURSE TITLE: English 10

LEVELS OFFERED: Enhanced Competence 022, Academic 024, Honors 025

PREREQUISITES: Honors: Students must have achieved a grade of A in English 9 Academic, or B or better in English 9 Honors, or recommendation of present instructor or department chairperson.

DESCRIPTION: English 10 provides the student with further instruction in the principles of writing, vocabulary building, grammar, speaking, and listening. Continued emphasis on reading and its interpretation is stressed through short stories, drama, novels, poetry, and essays. All students are required to keep a writing folder and will write a minimum of 12 essays as well as a research paper.

ENGLISH 11

COURSE TITLE: English 11

LEVELS OFFERED: Enhanced Competence 032, Academic 034, Honors 035

PREREQUISITES: Honors: Students must have achieved a grade of A in English 10 Academic, or B or better in English 10 Honors, or recommendation of present instructor or department chairperson.

DESCRIPTION: English 11 provides the student with the ability to refine skills associated with grammar, writing, speaking, listening, and reading. The techniques of narration, description, exposition, and argumentation are developed. American literature is studied in depth. All students are required to keep a writing folder and will write a minimum of 12 essays as well as a research paper.

EXCELLENCE IN ACADEMICS, ATHLETICS, AND ACTIVITIES

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Profiles of Women in Literature and History

LEVEL OFFERED: Honors 036

PREREQUISITES: Students must have achieved a grade of A or better in English 10 Academic, or a B or better in grade English 10 Honors, or recommendation of present instructor or department chairperson.

DESCRIPTION: This course will examine the woman's role in history and literature. By studying women as protagonists in literature, historical role models, and accomplished authors, students can understand the woman's struggles, frustrations, and achievements with the understanding that life was and is challenging for women. Students will realize that through perseverance, many women have and can make positive contributions to the world. The readings of this course include novels, plays, poems, articles, essays, speeches, and short stories. Writing is also a major component of this course. All students will be required to keep a writing folder and will write a minimum of 12 essays as well as a research paper.

ENGLISH 12

COURSE TITLE: English 12

LEVELS OFFERED: Enhanced Competence 042, Academic 044, Honors 045,
Advanced Placement 055

PREREQUISITES: Advanced Placement: Students must have achieved a grade of B or better in English 11 Honors or approval of department chairperson.

Honors: Students must have achieved a grade of A- or better in English 11 Academic, or B or better in English 11 Honors, or recommendation of present instructor or department chairperson.

DESCRIPTION: In the senior year intensive instruction, geared to the student's life after graduation, is given through the study of world literature. All students are required to keep a writing folder and will write a minimum of 12 essays as well as an extensive research paper.

COURSE TITLE: The Heroine's Journey in Literature

LEVEL OFFERED: Academic 041

PREREQUISITES: Students must have achieved a grade of C or better in English 11 or recommendation of present instructor or department chairperson.

DESCRIPTION: The course will explore literature with a special focus on the "heroine's" perspective – obviously in relation to that of the "hero," but also particularly as a window on the unique, changing landscapes of a woman's life. In addition, students will also focus on the perception of women and their struggles through various texts and current events. The works studied – fiction, drama, autobiography, poetry, essays – will draw on a variety of authors from Shakespeare to Alice Walker and will represent diverse eras and cultures. The writing program, standards and aims will be identical to that of the regular English 12 course.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Sport, Literature, and American Society

LEVEL OFFERED: Honors 049

PREREQUISITES: Students must have achieved a grade of B or better in Academic or Honors English 11 and recommendation of present instructor based on writing ability and consistent work ethic.

DESCRIPTION: This project-based course focuses on eras and individuals in sports and their effects on American society. The historical significance of how individuals used their sports stature to influence and change American society outside of their sports context will be researched. The theme of sports helping to give an identity to America's multicultural society will also be explored. Reading assignments will vary from novels, memoirs, biographies, historical literature, and newspaper articles. Student writing assignments will include thematic essays from novels, research papers, and newspaper writing for both event coverage and personal profiles. All students are required to keep a writing folder and will write a minimum of 12 essays.

ENGLISH ELECTIVES

(These courses must be taken in addition to regular English courses.)

COURSE TITLE: MCAS Review - Grade 10 (semester course)

LEVEL OFFERED: Academic 020

PREREQUISITES: Recommendation of present instructor.

DESCRIPTION: This course is required for students who failed the ELA MCAS test, or who are in danger of failing the MCAS test. It will be taken in addition to the Grade 10 English course.

COURSE TITLE: MCAS Review - Grade 11 (semester course)

LEVEL OFFERED: Academic 020

PREREQUISITE: Recommendation of present instructor.

DESCRIPTION: This course is required for students in Grade 11 who failed the ELA MCAS test in Grade 10. Students in Grade 11 who wish to up-grade their scores may also take this course. It will be taken in addition to the Grade 11 English course.

COURSE TITLE: Introduction to Theater

LEVEL OFFERED: Academic 039, Honors 040

PREREQUISITES: Open to juniors and seniors

DESCRIPTION: This course provides an over view of all the various aspects of the theater. Students will learn about the performance and technical sides of theater, and will also read a survey of major theatrical works. Students will participate in various acting exercises, and will also be expected to read and discuss plays, complete research activities on theater history, and complete various technical/design projects.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Journalism 10

LEVEL OFFERED: Academic 028, Honors 029

PREREQUISITES: Recommendation from present instructor.

DESCRIPTION: This yearlong course will provide instruction in basic and applied journalism writing skills. Students will focus on all kinds of news writing: columns, features, editorials, and both standard and in-depth news articles. While the bulk of the course will consist of the development of writing skills, there will also be an opportunity to establish more familiarity with computer skills such as word processing, desktop publishing, and layout/design. In addition, students will be able to capitalize on skills in the arts such as illustration, photography, and graphic design. During the first quarter, students will build a foundation by studying current journalism techniques. During the second quarter, students will assume positions on the editorial board and focus their attention on the creation of a school newsmagazine that will be published consistently during the second half of the year. This class is recommended only to those students who are committed to developing their writing skills on a consistent and intense level.

COURSE TITLE: Journalism 11

LEVEL OFFERED: Academic 051, Honors 052

PREREQUISITES: Recommendation of present instructor.

DESCRIPTION: This yearlong course will provide instruction in basic and applied journalism writing skills. Students will focus on all kinds of news writing: columns, features, editorials, and both standard and in-depth news articles. While the bulk of the course will consist of the development of writing skills, there will also be an opportunity to establish more familiarity with computer skills such as word processing, desktop publishing, and layout/design. In addition, students will be able to capitalize on skills in the arts such as illustration, photography, and graphic design. During the first quarter, students will build a foundation by studying current journalism techniques. During the second quarter, students will assume positions on the editorial board and focus their attention on the creation of a school newsmagazine that will be published consistently during the second half of the year. This class is recommended only to those students who are committed to developing their writing skills on a consistent and intense level.

COURSE TITLE: Journalism 12

LEVEL OFFERED: Academic 062, Honors 063

PREREQUISITES: Recommendation of present instructor.

DESCRIPTION: This yearlong course will provide instruction in basic and applied journalism writing skills. Students will focus on all kinds of news writing: columns, features, editorials, and both standard and in-depth news articles. While the bulk of the course will consist of the development of writing skills, there will also be an opportunity to establish more familiarity with computer skills such as word processing, desktop publishing, and layout/design. In addition, students will be able to capitalize on skills in the arts such as illustration, photography, and graphic design. During the first quarter, students will build a foundation by studying current journalism techniques. During the second quarter, students will assume positions on the editorial board and focus their attention on the creation of a school newsmagazine that will be published consistently during the second half of the year. This class is recommended only to those students who are committed to developing their writing skills on a consistent and intense level.

WOBURN MEMORIAL HIGH SCHOOL

ENGLISH AS A SECOND LANGUAGE For English Language Learners

COURSE TITLE: ESL Tutorial

LEVEL OFFERED: Academic 069

DESCRIPTION: This is a non-credit course designed for non-English or very limited English proficient students grades 9 – 12. The goal is to provide tutoring and academic support for English language learners (ELL) in their academic classes.

COURSE TITLE: ESL 1 Grammar (basic beginner level)

LEVEL OFFERED: Academic 070

DESCRIPTION: This course is designed for those non-English or very limited English proficient students in grades 9 – 12. The goal of literacy development is achieved by introducing vocabulary, grammar usage, listening, and speaking for the purpose of basic academic communication.

COURSE TITLE: ESL 1 Reading/Writing (basic beginner level)

LEVEL OFFERED: Academic 074

DESCRIPTION: This course is designed for non-English speakers and very limited English proficient students in grades 9 – 12. The goal of academic literacy development is achieved by introducing new authors through the use of the short story. Emphasis will be on reading comprehension. This course will also stress the principles of introductory writing and paragraph development.

COURSE TITLE: ESL 2 Grammar (advanced beginner level)

LEVEL OFFERED: Academic 071

PREREQUISITES: Students must have passed ESL 1 Grammar or grade 8 students who have completed ESL 1 at the middle school.

DESCRIPTION: This course is designed for the limited English proficient students in grades 9 – 12. The goal of literacy development is achieved by introducing vocabulary, grammar usage, listening, and speaking for the purpose of optimum communication.

COURSE TITLE: ESL 2 Reading/Writing (advanced beginner level)

LEVEL OFFERED: Academic 075

PREREQUISITES: Students must have passed ESL 1 Reading/Writing or grade 8 students who have completed ESL 1 at the middle school.

DESCRIPTION: This course is designed for limited English proficient students in grades 9 – 12. It is a continuation of ESL 1 Reading/Writing with increased emphasis on developing communicative and critical thinking skills. This course will also stress the principles of paragraph development and essay writing. Students will read short stories, novels, and poetry. All students will be required to write essays, keep a writing folder, and create their own personal dictionary. Preparation for the MCAS test will be a major component of this course.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: ESL 3 Grammar (intermediate level)

LEVEL OFFERED: Academic 072

PREREQUISITES: Students must have passed ESL 2 Grammar or grade 8 students who have completed ESL 2 at the middle school.

DESCRIPTION: This course is designed for non-native speakers of English grades 9 – 12. It is a continuation of ESL 2 Grammar. Advanced grammar skills will be introduced as well as listening and speaking for the purpose of proficient fluency.

COURSE TITLE: ESL 3 Reading/Writing (intermediate level)

LEVEL OFFERED: Academic 076

PREREQUISITES: Students must have passed ESL 2 Reading/Writing or grade 8 students who have completed ESL 2 at the middle school.

DESCRIPTION: This course is a continuation of ESL 2 Reading/Writing with increased emphasis on academic communication and critical thinking skills. The necessary skills required to succeed academically will be developed through reading a variety of classic novels modified from the English curriculum. This course will also stress the principles of essay and academic report writing. In addition, all students will be required to write essays, keep a writing folder, and create their own personal dictionary. Preparation for the MCAS test will be a major component of this course.

COURSE TITLE: ESL 4 Grammar (advanced level)

LEVEL OFFERED: Academic 073

PREREQUISITES: Students must have passed ESL 3 Grammar or grade 8 students who have completed ESL 3 at the middle school.

DESCRIPTION: This course is designed for limited English proficient students in grades 9 – 12. It is a continuation of ESL 3 Grammar. A more polished working knowledge of American English literacy is achieved through emphasis on advanced grammar. In addition, focus will be on listening and speaking for the purpose of optimum fluency.

COURSE TITLE: ESL 4 Reading/Writing (advanced level)

LEVEL OFFERED: Academic 077

PREREQUISITES: Students must have passed ESL 3 Reading/Writing or grade 8 students who have completed ESL 3 at the middle school.

DESCRIPTION: This course is designed for non-native speakers of English in grades 9 – 12. It is a continuation of ESL 3 Reading/Writing. The primary goal is to provide students with the skills necessary to succeed in an unmodified English course. Students will read a variety of classic novels, short stories, plays, poems, information texts, and more. Some literature will be modified from the English curriculum. This course will also stress the principles of various types of advanced academic writing. In addition, all students will be required to write essays, keep a writing folder and create their own personal dictionary. Preparation for the MCAS test will be a major component of this course.

WOBURN MEMORIAL HIGH SCHOOL

FINE ARTS

A. VISUAL ART

The Visual Art Department offers artistic opportunities for all students, from traditional drawing and painting to classes in photography and computer graphics. For students who are interested in pursuing an art career after high school, the department offers a comprehensive, four year program for building a strong portfolio.

COURSE TITLE: Art Experience (semester course)

LEVEL OFFERED: Academic 809

PREREQUISITES: None - Open to freshman and sophomores. Students may elect to take Art I instead of this course.

DESCRIPTION: The emphasis in Art Experience is on experimenting with a variety of processes that may include drawing, painting, and sculpture. This course incorporates studio projects with art history and theory. **Note: This course fulfills the Art requirement.**

COURSE TITLE: Art I (full year course)

LEVEL OFFERED: Academic 811

PREREQUISITES: Open to all students.

DESCRIPTION: Art I is the foundation for all other courses in the visual arts department. Art I uses a wider variety of materials that includes pencil, charcoal, paint, and clay. This is a studio course which incorporates projects, art history, and theories of art.

Note: Freshmen may elect to take this course instead of Art Experience if they would prefer a year-long course.

COURSE TITLE: Art II (full year course)

LEVEL OFFERED: Academic 821

PREREQUISITES: Art I or recommendation of present instructor.

DESCRIPTION: Using the skills acquired in Art I, students will begin to work on more complex studio assignments. This course continues to focus on developing observational skills and expanding the students' ability to express themselves creatively. There is a heavy emphasis on Art History and Art Analysis in this course.

COURSE TITLE: Art II Honors (full year course)

LEVEL OFFERED: Honors 822

PREREQUISITES: Art I or recommendation of present instructor

DESCRIPTION: In addition to the Art II curriculum, work is required outside of the classroom in the form of studio projects and presentations. Work will be evaluated at a higher standard than for Art II Academic

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Art III (full year course)

LEVEL OFFERED: Academic 831

PREREQUISITES: B- in ART II or recommendation of present instructor.

DESCRIPTION: This is a course for students who are interested in a more challenging study of visual art. An emphasis will be on developing observational skills to problem-solve assignments using a variety of art tools. In addition to class assignments, students will be expected to work outside the classroom on personal projects and themes.

COURSE TITLE: Art III Honors (full year course)

LEVEL OFFERED: Honors 832

PREREQUISITES: B+ in Art II Academic or recommendation of present instructor.

DESCRIPTION: Work is expected outside the classroom in the form of a weekly visual diary, extended outside projects, and written assignments each term. The quality and amount of work will be graded at a higher level than that of the academic students.

COURSE TITLE: Art IV Honors (full year course)

LEVEL OFFERED: Honors 842

PREREQUISITES: B- in Art III or recommendation of present instructor.

DESCRIPTION: Most art departments at the collegiate level require a well-organized portfolio that consists of 10 – 15 pieces for admission to their programs. The first semester of this course will concentrate on organizing and presenting a well-developed portfolio. The second semester will involve developing projects in painting, drawing, or graphic design. As a final project, students will have the opportunity to leave their mark at Woburn Memorial High School. Extensive outside work is expected from students.

Note: Students may sign up for this course even if they do not plan to major in art in college.

COURSE TITLE: Computer Graphics (Illustrator) - Part I (semester course)

LEVEL OFFERED: Academic and Honors - Fall 851, Spring 852

PREREQUISITES: Open to sophomores, juniors, and seniors.

DESCRIPTION: Explore the exciting world of Computer Graphics. Students will learn the software Adobe Illustrator which is the industry standard for print and multimedia. They will create "real world" projects such as CD covers, magazine covers, corporate logos, and posters. This course will emphasize advertising and marketing techniques along with Principles of Design.

Honors level - Entrance paper and teacher approval needed for acceptance into the honors level. Students are expected to do work outside of the classroom. A research paper will be given for each project assigned. Students will be held to a higher standard in their overall performance in class.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Computer Graphics (Photoshop) - Part II (semester course)

LEVEL OFFERED: Academic and Honors - Fall 853, Spring 854

PREREQUISITES: Open to sophomores, juniors, and seniors earning a C average or better in Computer Graphics part I.

DESCRIPTION: This is a continuation of Computer Graphics Part I. Students will learn the fundamentals of the software program Adobe Photoshop. Photoshop is one of the top software programs used by computer artists. Students will use their own photos and apply them to projects that relate to the "real world" projects such as movie posters, photo restoration, family history, self portraits, and postcards.

Honors level - Entrance paper and teacher approval is needed for acceptance into the honors level. Students are expected to do work outside of the classroom. A research paper will be given for each project assigned. Students will be held to a higher standard in their overall performance in class.

COURSE TITLE Computer Animation (semester course)

LEVEL OFFERED: Academic and Honors - Fall 850

PREREQUISITES: Open to sophomores, juniors, and seniors.

DESCRIPTION: This course introduces students to the world of computer animation. Students will work with the Flash software, which is the professional standard for producing high impact web graphics. Students will design pop up messages, company intros, commercials, web sites, and games. They will learn how to import sound effects, music tracks, videos, and create special effects.

Honors level - Entrance paper and teacher approval needed for acceptance into the honors level. Students are expected to do work outside of the classroom. A research paper will be given for each project assigned. Students will be held to a higher standard in their overall performance in class.

COURSE TITLE: Digital Media - Video Production (semester course)

LEVEL OFFERED: Academic and Honors - Spring 858

PREREQUISITES: Open to sophomores, juniors, and seniors.

DESCRIPTION: Students will learn all the basics of video production by shooting and editing their own videos. Students will learn how to edit their work on Avid Express Pro software. They will learn how to add sound effects, narration, and music tracks to their video. Students will be trained on camera equipment in partnership with the Woburn Public Media Center. There will be an emphasis on all production levels including story boarding, scriptwriting, camera techniques, and the final presentation.

Honors level - Entrance paper and teacher approval is needed for acceptance into the honors level. Students are expected to do work outside of the classroom. A research paper will be given for each project assigned. Students will be held to a higher standard in their overall performance in class.

COURSE TITLE: Photography - Part 1 (semester course)

LEVEL OFFERED: Academic - Fall 855, Spring 856

PREREQUISITES: Open to sophomores, juniors, and seniors.

DESCRIPTION: Photography 1 is an introduction to the manual camera and elementary darkroom and non-darkroom techniques, including some digital photography projects. Students will learn the parts of the camera, how to take photographs with outdoor lighting, and how to develop exposed film. Students will also learn how to develop black and white prints. Outside work is expected. **Students must have access to a manual 35 MM camera.**

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Photography - Part 2 (semester course)

LEVEL OFFERED: Academic - Spring 857

PREREQUISITES: C+ or better in Photography Part 1. Open to sophomores, juniors, and seniors.

DESCRIPTION: Photography 2 builds upon the skills introduced in Photography 1 and begins to integrate more digital media into the curriculum. Both photography's place in history and its place in current issues, such as the news media, will be explored. Projects are more self-directed and work outside of the classroom is expected. **Students must have access to a manual 35 MM camera.**

COURSE TITLE: Television Production I (semester course)

LEVEL OFFERED: Academic - Fall, Spring 845 (Pass/Fail)

PREREQUISITES: Open to all students.

DESCRIPTION: This introductory course will offer students the opportunity to learn television production. It will inform students of the techniques of television production through application of theory and methods. Students will implement all aspects of television production from camera operation, lighting, producing, directing, on camera talent, and designing community bulletin messages. Students will also learn basic elements of production such as scriptwriting, set design, interview techniques, preparing scripts for the teleprompter, and generating graphics for productions.

COURSE TITLE: Television Production II (semester course)

LEVEL OFFERED: Academic - Spring 846 (Pass/Fail)

PREREQUISITES: Television Production I. Must have a passing grade in Production I course.

DESCRIPTION: This advanced course offers the student more comprehensive opportunities to assist in the direction and production of instructional television programs. Practical application of theory and techniques will be emphasized in a "real world" setting. Students will be working with the school faculty, coaches, and fellow students with the production of school-related television programs in the television studio and within Woburn Memorial High School.

B. MUSIC

Music is many things. It is part science, part math, part history and even part physical education. But, most of all music is art. Music allows us to create. Everyone who takes a music course will not go on to become a professional musician but everyone will become more appreciative of the beauty in the world around us.

COURSE TITLE: Contemporary Music in America (semester course)

LEVEL OFFERED: Academic 866

PREREQUISITES: Open to freshman and sophomores

DESCRIPTION: Contemporary Music in America allows students to become critical and thoughtful consumers of music through extensive listening and analysis. Students become aware of the inherent links between the music around them and the elements of the past. The course emphasizes music as it reflects cultural, social and technological change.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Music Theory I

LEVEL OFFERED: Academic 875

PREREQUISITES: None

DESCRIPTION: Music Theory I deals with the basics of rhythm, notation, pitch, the staff, clefs, and note formation. Students progress through the beginning stages of harmony (intervals and chords including jazz structures.) The study of melody involves analysis and simple composition. Introduction to instrumental arranging involves students with the families of instruments and writing techniques for the instruments. Modal scales and harmonies introduce students to the techniques used in contemporary music including improvisation. The theory classroom provides a laboratory workshop where students will be involved in a variety of rhythmic, listening, and sight reading activities to enhance the components of rhythm, harmony, melody, and musical form. Functional keyboard experiences are provided. Students work with notation, arranging, and ear training software programs.

With the recommendation of middle school music teachers and the approval of the Fine Arts Director, **9th grade students** with strong musical interests **may elect Music Theory I as freshmen.** Semester courses would be waived, as they are for Art I, Concert Choir and Concert Band.

COURSE TITLE: Music Theory II

LEVEL OFFERED: Honors 877

PREREQUISITES: Music Theory I

DESCRIPTION: Music Theory II introduces the student to harmonic techniques in the 18th and 19th century tradition, especially the figured bass and simple modulation (key change.) Traditional musical forms (simple 2- and 3-part form, rondo and theme and variation) are studied as models for musical composition. Arranging techniques for vocal and instrumental media are explored. Students are involved in correlated analysis of traditional and modern music, including modal harmony, and continue with training in sight-reading and ear training. Work in the computer-based laboratory involves students with advanced music software programs dealing with sequencing.

COURSE TITLE: Music Theory III

LEVEL OFFERED: Honors 878

PREREQUISITES: Music Theory I and Honors Music Theory II

DESCRIPTION: Music Theory III deals with advanced concepts of harmony, musical composition (melodic, harmonic and formal) and arranging for a variety of media, including vocal and instrumental combinations and keyboards.

Through extensive use of computer hardware and software, students will enhance their reading, listening and analysis skills and acquire a wide range of arranging and compositional techniques, allowing them to create, arrange, publish, and perform their own compositions. Students will utilize Print Music, Band-In-A-Box, Cakewalk Home Studio, Auralia, and Practica Musica.

COURSE TITLE: Contemporary Ensemble and Improvisation (full year course)

LEVEL OFFERED: Honors 863

PREREQUISITES: Music Theory 1

DESCRIPTION: Through study and performance of contemporary music in a wide range of styles, students will learn songwriting, improvisation, harmony, form, and aspects of sound production. This class will be open to students who play any instrument, including guitar, bass, or piano.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Concert Choir

LEVEL OFFERED: Academic 870

PREREQUISITES: None

DESCRIPTION: Concert Choir is a selected group of mixed voices from Grades 9 - 12 whose objective is to perform the finest types of choral music. Students are involved in public performances. Students must enroll for the entire year and participate in in-school and out-of-school performances as outlined on the yearly performance schedule. No audition is required. An interview with the Choral Director is required of all students prior to selection of this course.

COURSE TITLE: Concert Choir - Honors

LEVEL OFFERED: Honors 871

PREREQUISITES: Concert Choir Academic, vocal audition and high school Choral Director's approval.

DESCRIPTION: Grade 9 – 12 students seeking additional challenges in choral performance may elect Honors-level Concert Choir. Students must audition to be selected for the course. In addition to meeting all course and performance requirements of Concert Choir, students must perform a recital piece that will be evaluated by Music Department staff. This recital serves as a final examination for honors status.

COURSE TITLE: Show Choir/Jazz Choir

PREREQUISITES: None

DESCRIPTION: Membership in the Show Choir/Jazz Choir is determined by audition. Selection for the eighteen to twenty member group is made on the basis of the student's reading ability, vocal proficiency, and potential for solo work. Students perform a wide variety of accompanied and a cappella music of all types, including contemporary jazz literature. Rehearsals are conducted after school hours for two hours weekly. Students must be active members of Concert Choir.

COURSE TITLE: Band

LEVEL OFFERED: Academic 860

PREREQUISITES: Ability to read and understand musical notation.

DESCRIPTION: Music performance skills will be taught through individual and group performance of a variety of band literature and styles. Students will be active participants in school and community events including concerts, patriotic holidays, football games, and music festivals.

COURSE TITLE: Honors Band

LEVEL OFFERED: Honors 861

PREREQUISITES: Recommendation of instructor.

DESCRIPTION: Students who play an instrument at an advanced level will have the option of enrolling in Band for honors credit. Honors students will participate in band just like academic students, but will also undertake extra individual study on their instrument. Honors students will also perform a recital at the end of the school year.

COURSE TITLE: Jazz Band

PREREQUISITES: Audition

DESCRIPTION: The Jazz Band rehearses once a week in the evenings and plays mostly swing, dance band, rock, Latin, and fusion music. Instrumentation is set and membership is determined by audition. Students are asked to make a serious commitment to the group, and each student's level of playing and preparation for rehearsal will be taken very seriously.

EXCELLENCE IN ACADEMICS, ATHLETICS, AND ACTIVITIES

WOBURN MEMORIAL HIGH SCHOOL

FOREIGN LANGUAGES

The study of a world language is considered basic to the student's high school experience. There are general educational values as well as practical values to be considered. The United States is a multicultural community and on an everyday basis we need people who are tolerant and knowledgeable of other cultures. Our international interests require citizens who are able to deal with linguistic and cultural differences. Most of the issues we will be dealing with in the future have global implications, again requiring citizens who are able to move beyond a limited national perspective to make decisions concerning wider issues.

Communication in a foreign language requires that a student accept differences. Coupled with the study of the foreign language culture, it is hoped the student will develop tolerance and strategies for dealing with differences as well as accept the opportunity to look at his/her own language and culture from a different perspective.

All students must pursue at least 2 years of study in one foreign language at the high school level. Foreign Language study is part of the core curriculum of both the Massachusetts Frameworks and the Federal Elementary and Secondary Education Act.

FOREIGN EXCHANGE PROGRAM: The department makes every effort to plan student exchanges and/or trips to **FRANCE, SPAIN and ITALY**. These programs provide the students and their families the opportunity to become involved in the language and culture outside the classroom.

SUGGESTIONS FOR COURSE SELECTION:

- A. A student should continue to study the language in which he/she has built a satisfying experience at the middle school level.
- B. The student who has experienced satisfaction with the study of one foreign language is encouraged to start a second foreign language.
- C. Some students who have been very successful in the study of one foreign language may be invited to start a second Foreign Language Honors program as freshmen.
- D. Honors level courses work at a faster pace and do more sophisticated orals, readings, projects and compositions.

NOTE:

- A. A student may begin French, Spanish, or Latin in Grades 9 through 11, provided the order chosen is sequential, i.e. French 1 before French 2. A senior requires special permission to start Level 1 of a language.
- B. A language course will not be offered unless there is a sufficient enrollment.

**PREREQUISITES FOR ALL LANGUAGES:
EXCELLENCE IN ACADEMICS, ATHLETICS, AND ACTIVITIES**

WOBURN MEMORIAL HIGH SCHOOL

In order to proceed to the next level of the language sequence, unless otherwise stated, for the **ACADEMIC** level, the student must have a C or better or recommendation of present instructor. To enter the **HONORS** level, the student must have an A- and to continue in the **HONORS** level, the student must have a B or better or recommendation of present instructor.

CLASSICAL LANGUAGE – LATIN

COURSE TITLE: Latin 1

LEVELS OFFERED: Honors 410

PREREQUISITES: None

DESCRIPTION: This course is designed for students interested in learning the basic fundamentals of the Latin language. The study of Roman history, mythology, and derivatives fill out the picture of Rome and its people. The study of derivatives will also supplement the study of English vocabulary in other courses.

COURSE TITLE: Latin 2

LEVELS OFFERED: Honors 413

PREREQUISITES: Latin 1 or the recommendation of present instructor.

DESCRIPTION: This is a continuation of the approach begun in Latin 1. Constant vocabulary growth and usage are presented to coincide with the literature. Knowledge of culture and mythology is expanded through readings.

COURSE TITLE: Latin 3

LEVELS OFFERED: Honors 415

PREREQUISITES: Latin 2 or recommendation of present instructor.

DESCRIPTION: This course continues the basic foundation established in Latin 2. Readings from various Roman authors of prose form the framework of the course. The readings have, as a backdrop, the history, times, and people during the Roman Republic.

COURSE TITLE: Latin 4

LEVELS OFFERED: Honors 417

PREREQUISITES: Latin 3 or recommendation of present instructor.

DESCRIPTION: Latin 4 completes the study of the advanced forms in grammar and develops vocabulary so that students can read the original works of Roman poets and authors and become familiar with various literary styles and genres of the imperial period.

WOBURN MEMORIAL HIGH SCHOOL

MODERN LANGUAGE

COURSE TITLE: French 1

LEVELS OFFERED: Honors 430

PREREQUISITES: None

DESCRIPTION: This course is designed to enable students to understand, speak, read, and write simple patterns of the language within the experiences of home, school, and social life. Related aspects of French culture are studied. This course can be taken as a second language only.

COURSE TITLE: French 2

LEVELS OFFERED: Academic 432, Honors 433

PREREQUISITES: Grade 8 French or recommendation of present instructor.

DESCRIPTION: This course is designed to help the student attain proficiency in expressing himself/herself using basic vocabulary and grammatical structures to discuss present and past events. Short readings and limited composition exercises will be introduced.

COURSE TITLE: French 3

LEVELS OFFERED: Academic 434, Honors 435

PREREQUISITES: French 2 or recommendation of present instructor.

DESCRIPTION: The French 3 program continues to develop the student's ability to understand the spoken language and to speak it accurately and fluently. The student completes the basic grammatical concepts and increases his/her reading comprehension and vocabulary through the use of supplementary materials. Through controlled writing exercises the student's writing skills are developed. French is the language of the classroom.

COURSE TITLE: French 4

LEVELS OFFERED: Academic 436, Honors 437

PREREQUISITES: French 3 or recommendation of present instructor.

DESCRIPTION: This course continues to develop the student's reading, writing, listening, and speaking skills. There is a review of grammar with emphasis on the more difficult structures. The student reads for comprehension, vocabulary building, and discussion. Various selections concerning French culture, geography, history, literature, music, and art are used. French is the means of communication in the classroom.

In French 4 Honors the students will engage in activities that will prepare them for the French 5 AP program.

COURSE TITLE: French 5

LEVELS OFFERED: Honors 438

PREREQUISITES: French 4 or recommendation of present instructor.

DESCRIPTION: This course emphasizes the use of French for active communication. Students electing the course should have a reasonable proficiency in the basic listening comprehension, speaking, reading, and writing skills. The readings will be taken from various sources reflecting aspects of French culture and society.

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COURSE TITLE: Advanced Placement French 5

LEVELS OFFERED: Advanced Placement 439

PREREQUISITES: Final grade of A- or better in French 4 Honors and recommendation of present instructor and department chairperson.

DESCRIPTION: The Advanced Placement Program is a highly intensified French Language Course equivalent to that offered in the French intermediate course in college in structure and content. French is the language of the classroom. Projects, written and oral, are required. The course is designed to prepare students for the Advanced Placement Language Examination.

COURSE TITLE: Spanish 1

LEVELS OFFERED: Honors 464

PREREQUISITES: None

DESCRIPTION: This course is designed for the **beginner** in Spanish, who has a strong academic background. The fundamental sound patterns of Spanish will be presented and vocabulary and structures that will allow the student to communicate on a basic level will be practiced. Related aspects of Hispanic culture will also be studied.

COURSE TITLE: Spanish 2

LEVELS OFFERED: Academic 476, Honors 477

PREREQUISITES: Middle School Spanish program or recommendation of present instructor.

DESCRIPTION: This program is designed to allow the student to build on skills acquired in the Middle School Spanish program. The students will learn to communicate past and future experiences. They will develop reading and writing skills based on new and familiar vocabulary and sentence structures.

COURSE TITLE: Spanish 3

LEVELS OFFERED: Academic 459, Honors 460

PREREQUISITES: Spanish 2 or recommendation of present instructor.

DESCRIPTION: At this level, the student completes the introduction to the basic Spanish grammatical structures and increases his/her reading comprehension and vocabulary through the use of supplementary materials. Through controlled writing exercises the student's writing skills are developed. Spanish is the principal means of communication in the classroom so that the student's oral and listening comprehension skills are further enhanced. The student will continue to explore the culture of the Hispanic world.

COURSE TITLE: Spanish 4

LEVELS OFFERED: Academic 470

PREREQUISITES: Spanish 3 or recommendation of present instructor.

DESCRIPTION: This course is designed to continue development of the student's listening comprehension, speaking, reading, and writing skills. There is a review of grammar with emphasis on the difficult structures. The student reads for comprehension, vocabulary building, and discussion. A variety of sources concerning Hispanic culture, geography, history, literature, music, and art are used. Spanish is the principal means of communication

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Spanish 4

LEVELS OFFERED: Honors 471

PREREQUISITES: Spanish 3 Honors or recommendation of present instructor.

DESCRIPTION: In the Spanish 4 Honors program, the student will continue to develop understandings concerning the formation and use of the Spanish subjunctive. The student will also review other basic grammatical structures. Spain is the principal unit of culture and is studied in detail along with Spanish literary works. This course contains many pre-AP activities including oral and written presentations. Spanish IS the language in the classroom.

COURSE TITLE: Spanish 5

LEVELS OFFERED: Honors 472

PREREQUISITES: Final grade of B- in Spanish 4 Academic or Honors; recommendation of present instructor.

DESCRIPTION: This course emphasizes Spanish for active communication. Group discussion is emphasized. The students electing the course should have a reasonable proficiency in basic listening comprehension, speaking, reading and writing skills. The course is organized around discussion topics such as stereotypes, human rights, and family. Vocabulary, grammar, reading, writing, cultural, and project activities are used to develop the topic.

COURSE TITLE: Advanced Placement Spanish 5

LEVELS OFFERED: Advanced Placement 473

PREREQUISITES: Final grade of A- in Spanish 4 Honors and recommendation of present instructor.

DESCRIPTION: The Advanced Placement Program is an intensified Spanish language course equivalent to that offered at a university. The focus is on preparation for the AP Language exam in May. Throughout the year students will do independent readings, conversations, and textbook exercises. Vocabulary is presented daily and at least two major literary works will be read, analyzed, and discussed. It is a total immersion classroom. Every student is expected to take the AP exam.

COURSE TITLE: Italian 1

LEVELS OFFERED: Honors 491

PREREQUISITES: A- in Middle School Spanish or French; B+ at High School honors level and recommendation of present instructor.

DESCRIPTION: This course is designed to introduce students to the basic structures and vocabulary of Italian. Students will also become familiar with the significant areas of Italy.

COURSE TITLE: Italian 2

LEVELS OFFERED: Honors 492

PREREQUISITES: Italian 1 Honors or recommendation of present instructor.

DESCRIPTION: Through Italian 2 students continue their study of the basic sentence structures and vocabulary of Italian. Students read articles from Italian magazines and begin the study of Italian literature. The culture of Italy is emphasized.

COURSE TITLE: Italian 3

LEVELS OFFERED: Honors 493

PREREQUISITES: Italian 2 Honors or recommendation of present instructor.

DESCRIPTION: Italian 3 continues to develop the student's ability to understand the spoken language and to speak and write accurately in Italian. There is a greater emphasis on reading, writing, and speaking.

EXCELLENCE IN ACADEMICS, ATHLETICS, AND ACTIVITIES

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Italian 4

LEVELS OFFERED: Honors 494

PREREQUISITES: Italian 3 Honors or recommendation of present instructor.

DESCRIPTION: This course is for students who have successfully completed Italian 3 Honors with a B- or above. This course will concentrate on the communicative skills of speaking, reading, and writing. The readings for this course will be chosen for their value as authentic insights into Italian culture and history. Emphasis will be placed on Italy's contributions to the arts. Grammar will be studied as an aid to more accurate communication. Students will be expected to use the target language in class and in all of their assignments.

CLASSICAL/ MODERN LANGUAGES TWO and THREE YEAR SEQUENCE COURSES

The Two Year Sequence Modern Language courses are designed to fulfill the language requirement at Woburn Memorial High School and it also fulfills the college entrance requirements for the state college system.

COURSE TITLE: Spanish Language and Culture 1

LEVELS OFFERED: Academic 420

PREREQUISITES: None

DESCRIPTION: This course is for those who have never studied a foreign language or who need a review of the basic principals. It will develop the student's reading, writing, listening, and oral skills using Spanish as the target language. A great emphasis will be placed on the study of cultures where Spanish is the primary spoken language through a multi-media approach.

COURSE TITLE: Spanish Language and Culture 2

LEVELS OFFERED: Academic 421

PREREQUISITES: A grade of C or better in Spanish Language and Culture 1.

DESCRIPTION: This course is a continuation of Spanish Language and Culture 1. It will build on the reading, writing, listening, and oral skills developed in Spanish Language and Culture 1 and again a great emphasis will be placed on the study of cultures where Spanish is the primary spoken language through a multimedia approach. The grammar will be more complex and there will be a greater development of vocabulary to aid in everyday communication.

COURSE TITLE: Spanish Language and Culture 3

LEVEL OFFERED: Academic 422

PREREQUISITES: A grade of C or better in Spanish Language and Culture 2 or Spanish 2 Academic.

DESCRIPTION: Spanish Language and Culture 3 is an initial review and continuation of Spanish Language and Culture 2. Students will be introduced to an expanded vocabulary designed to foster every day communication in the target language. The ability to situate actions in time will be enhanced by further study of the past, present, and future in Spanish. Readings will be at a more in depth level than Spanish Language and Culture 2. At the end of this course students will be able to function communicatively in every day situations.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Latin Language and Culture 1

LEVELS OFFERED: Academic 418

PREREQUISITES: None

DESCRIPTION: This course is designed for those who have never studied a foreign language. Emphasis will be placed on mastering the basic concepts of Latin grammar and vocabulary. Particular emphasis will be placed on vocabulary that will enrich the student's vocabulary in English. Roman culture and history will be closely examined. Further enrichment will come from an introduction to Greco-roman mythology.

COURSE TITLE: Latin Language and Culture 2

LEVELS OFFERED: Academic 419

PREREQUISITES: A grade of C or better in Latin Language and Culture 1.

DESCRIPTION: This course is a continuation of Latin Language and Culture 1. It will build and expand upon the Latin grammar and vocabulary concepts developed in Latin Language and Culture 1. It will also offer a more complex appreciation of Roman culture and history. Students will continue their study of Greco-roman mythology. Some important works of Roman literature will be read in translation.

COURSE TITLE: Italian 1

LEVELS OFFERED: Academic 488

PREREQUISITES: Open to sophomores and juniors only.

DESCRIPTION: This course is designed for the beginner in Italian. The fundamental sound patterns of Italian will be presented and the vocabulary and structures that will allow the student to communicate on a basic level will be practiced. Related aspects of Italian culture will also be studied. A minimum of a two-year commitment is expected.

COURSE TITLE: Italian 2

LEVELS OFFERED: Academic 489

PREREQUISITES: Open to juniors and seniors who have successfully completed Italian 1 Academic with a grade of C- or better or recommendation of present instructor.

DESCRIPTION: This course will build upon the listening, speaking, reading, and writing skills developed in Italian 1. Students will learn to communicate in the present and past about the world around them. They will deepen their knowledge of Italian culture.

WOBURN MEMORIAL HIGH SCHOOL

HISTORY and SOCIAL SCIENCE

The History and Social Science Program is designed to provide each student with a firm foundation in American History, American Government, and World History. It provides students with an understanding and appreciation of historical themes and trends as well as an appreciation of the diverse cultures that have an impact on our daily lives.

The History and Social Science Program is a five-year sequence that begins with the study of American History in grade eight. The study of American History and the documents on which our country is based continues through grades nine and ten. Eleventh grade students will pursue the study of World History. Seniors will study the inner workings of American Government, specifically our Constitution. Twelfth grade students will also have the opportunity to explore a variety of electives.

Students will complete map activities related to our nation's geography as well as identifying nations and key features of the world. Essay writing in all levels, throughout the curriculum, is required.

COURSE TITLE: American History 9

LEVELS OFFERED: Enhanced Competence 115, Academic 116, Honors 117

PREREQUISITES: For the Honors level, students must have achieved an A average in grade eight social studies and have recommendation of present instructor.

DESCRIPTION: American History 9 students will be introduced to the historical, cultural, geographical, economic, political, and social trends from the mid-19th Century to the mid-20th Century. Students will read primary source material related to the industrialization of America, the emerging role of America in international affairs, World War I, the Great Depression and World War II.

COURSE TITLE: Advanced Placement United States History

LEVELS OFFERED: Advanced Placement 128

PREREQUISITES: An A- or better average in American History 9 Honors and an A- or better in English 9 Honors. In addition, the recommendation of present instructor, current AP instructor, and department chairperson are required. **This course is for Grade 10 students only.**

DESCRIPTION: The AP program in United States History is designed to provide students with the analytical skills and factual information necessary to deal critically with the problems and issues in American history. Students enrolled in the course are responsible for the assessment of historical materials with respect to their relevance to a given interpretive problem, their reliability and importance. This course is the equivalent to a freshman course at a college or university. The AP US History exam is required to be taken. This course has a limited enrollment.

COURSE TITLE: American History 10

LEVELS OFFERED: Enhanced Competence 125, Academic 126, Honors 127

PREREQUISITES: For the Honors level, students must have achieved a B or better in grade 9 Honors, or an A in grade 9 Academic. Recommendation of present instructor is also required.

DESCRIPTION: American History 10 students will continue their study of our nation's history from the Mid-20th Century to current time. This course is the continuation of the American History 9 course. An emphasis is placed on the primary source documents related to this period. This course also provides a review of the major events in America's history to prepare the students for their MCAS test which will be taken in their sophomore year.

EXCELLENCE IN ACADEMICS, ATHLETICS, AND ACTIVITIES

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: World History

LEVELS OFFERED: Enhanced Competence 162, Academic 163, Honors 164

PREREQUISITES: For the honors level the student must have achieved a B or better in American History 10 Honors, or an A in American History 10 Academic, and have the recommendation of present instructor. **This course is for Grade 11 students only.**

DESCRIPTION: This is a survey course that covers the period of time from the fall of Rome to modern time. Students will study the history of major civilizations and major political leaders of this period. The causes and consequences of the great military events along with the political, economic, ethnic and religious developments and conflicts in the world today will be discussed. Through the use of maps, students will have familiarization with the names and locations of the countries in the world.

COURSE TITLE: Advanced Placement World History

LEVELS OFFERED: Advanced Placement 130

PREREQUISITES: An A- or better average at the honors level American History 9 and 10, a B or better average in Advanced Placement American History, and an A- or better in honors level English 9 and 10. The recommendations of present instructor, current AP instructor and department chairperson are also required. **This course is for Grade 11 students only.**

DESCRIPTION: The AP World History course will introduce the student to the understanding of the evolution of global processes and contacts in interaction with different types of human societies. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. There will be an emphasis on understanding political, social, economic, and religious development on a global scale. The course will cover the time period from 8000 B.C.E. to present time. The course is the equivalent to a freshman course at a college or university. The AP World History exam is required to be taken. The course has a limited enrollment.

COURSE TITLE: American Government

LEVELS OFFERED: Enhanced Competence 170, Academic 171, Honors 172

PREREQUISITES: For the honors level a student must have achieved a B or better in honors level World History or have an A in academic level World History. The recommendation of present instructor is also required. **This course is for Grade 12 students only.**

DESCRIPTION: American Government is designed for seniors who desire an in-depth study of American Government beginning with our founding fathers. World affairs and the problems related to citizenship are discussed. A familiarity with the immediate and long-range conflicts and problems in the current national scene and the cultural, social, and political forces that influence them are essential parts of the course.

COURSE TITLE: Sociology (semester course)

LEVELS OFFERED: Academic 147

PREREQUISITES: This course is for Grade 12 students only.

DESCRIPTION: Sociology is a half-year course that introduces the student to the study of human societies, their patterns and arrangements, their development and change. The interplay of these factors with respect to the behaviors of individuals and groups are discussed. Students will study how their behaviors apply to families, communities, religious groups, political organizations, and professional and civic associations. This course has a limited enrollment.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: School and Society

LEVELS OFFERED: Academic 150, Honors 151

PREREQUISITES: Recommendation of present instructor and department chairperson. **This course is for Grade 12 students only.** This is a 10-credit course.

DESCRIPTION: School and Society is a 10-credit course that meets during periods two through six for two consecutive periods each day. The primary component of the course is to introduce seniors to a career in education through collaboration with assigned elementary school teachers. The student will work as an assistant to a teacher in a local elementary school. Each student will take an active role in the learning experiences of the assigned school as well as working with and teaching the elementary students in class. Students will learn to develop lesson plans and classroom projects. The current instructor will visit the schools to monitor the student's progress. In addition, students will keep a daily journal and learn from their textbook.

They will meet with the current instructor during seminar classes to share their observations and common experiences. The course is conducted in conjunction with Tufts University. Admittance to the program will be based on academic transcripts, attendance records, a written application, a student's private means of transportation, and recommendation of the current instructor and department chairperson. This course has a limited enrollment.

COURSE TITLE: State and Local History (semester course)

LEVELS OFFERED: Academic 166

PREREQUISITES: Successful completion of World History. **This course is for Grade 12 students only.**

DESCRIPTION: This half-year course is designed to familiarize students with Massachusetts and Woburn history. Relationships to national events, trends, and politics will be discussed. The organization, operation and functions of local government will also be studied. Several local field trips to historical and governmental sites will be taken if time allows. Guest speakers from various city departments, committees, boards, and commissions also visit the students. This course has limited enrollment.

COURSE TITLE: Advanced Placement Human Geography

LEVEL OFFERED: Advanced Placement 168

PREREQUISITES: An A- or better average in honors level World History, a B average or better in Advanced Placement World History, or an A- or better average in honors level American History 9 and 10. An A- or better average in honors level English 10 and 11 is also required. The recommendations of present instructor, current AP instructor, and the department chairperson are also required. **This course is for Grade 12 students only.**

DESCRIPTION: Advanced Placement Human Geography will introduce the student to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. The student will be taught the use of spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. The student will also learn about the methods and tools geographers use in their science and practice. This course is the equivalent to a freshman course at a college or university. The AP Human Geography exam is required to be taken. This course has a limited enrollment.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: The Vietnam War (semester course)

LEVELS OFFERED: Academic 169, Honors (Honors students must fill out an application and be approved by both the student's current junior teacher and the current instructor of the course).

PREREQUISITES: This course is for Grade 12 students only.

DESCRIPTION: The Vietnam War is a semester course designed to give students an in-depth study into the modern history of the Vietnam conflict beginning with the French colonization. This course will focus on America's involvement in the Vietnam conflict and its effect on our American society. Political, cultural, and military aspects of the war will be discussed from both an American and Vietnamese perspective. America's role in the war and its links and comparisons to the war in Iraq and Afghanistan will also be discussed. Students will be expected to take an active role in class discussions and debates. Weekly assignments for a portfolio project and outside reading are also requirements for the course. This course has a limited enrollment.

MATHEMATICS and COMPUTER SCIENCE

The Mathematics and Computer Science Department provides courses to meet the needs of all students. At Woburn Memorial High School students study mathematics for the obvious intellectual rewards as well as to prepare themselves for our increasingly technological world. In addition to pursuing the regular course of studies in mathematics, everyone is encouraged to take a programming course.

Students in the regular academic program will take Algebra 1, Geometry, Algebra 2, and Pre-Calculus, or Senior Math. Students who have completed the mathematics requirements through Algebra 2 will also have the opportunity of choosing a course from a number of electives.

Students in the honors program will continue to take Algebra 1, Geometry, Algebra 2, Pre-calculus, and Calculus (if Pre-calculus is completed in grade 11.)

There is a four-year mathematics requirement for graduation.

COURSE TITLE: Algebra 1A

LEVEL OFFERED: Enhanced Competence 208, Academic 210

PREREQUISITES: Recommendation of present instructor or department chairperson.

DESCRIPTION: Algebra 1A is the first half of a two-year Algebra 1 course. The course covers selected topics from Algebra 1 as well as selected topics from geometry, statistics, and data analysis. This is a course for Grade 9 students only.

COURSE TITLE: Algebra 1B

LEVEL OFFERED: Enhanced Competence 209, Academic 211

PREREQUISITES: Algebra 1A and Informal Geometry or recommendation of present instructor.

DESCRIPTION: Algebra 1B is a continuation of Algebra 1A. The course includes topics traditionally covered in the second semester of Algebra 1 as well as selected topics from geometry, statistics, and data analysis. This is a course for Grade 11 students who have successfully completed Algebra 1A and Informal Geometry.

EXCELLENCE IN ACADEMICS, ATHLETICS, AND ACTIVITIES

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COURSE TITLE: Algebra 1

LEVEL OFFERED: Academic 206, Honors 214

PREREQUISITES: Academic - A grade of C or better in grade 8 mathematics and/or permission of present instructor or department chairperson. Honors – A grade of B or better in Grade 8 advanced mathematics or have the recommendation of present instructor or department chairperson.

DESCRIPTION: Algebra 1 includes a thorough treatment of the fundamental processes of elementary algebra as well as selected topics from statistics and discrete mathematics. Problem solving, reasoning, communication skills, and technology are emphasized.

COURSE TITLE: Math MCAS Review

LEVEL OFFERED: Academic 221

PREREQUISITES: None

DESCRIPTION: This is a one (1) semester course designed for students in grades 10, 11, and 12 who require a review of all subject matter in algebra I and geometry to help them in taking the MCAS test. This course should be taken by students who failed the grade 10 test and are preparing to take the MCAS retest.

COURSE TITLE: Informal Geometry

LEVEL OFFERED: Academic 220

PREREQUISITES: Successful completion of Algebra 1A or recommendation of present instructor.

DESCRIPTION: Informal Geometry will follow Algebra 1A. The course will cover most traditional geometry topics as well as many algebra topics. The emphasis will be on numerical and algebraic applications instead of formal proof. Use of technology will be included.

COURSE TITLE: Geometry

LEVEL OFFERED: Academic 225, Honors 224

PREREQUISITES: Academic - A grade of C or better in Algebra 1 or permission of present instructor or department chairperson. Honors – A grade of B or better in Algebra 1 Accelerated (Grade 8), have a grade of B or better in Algebra 1 Honors (Grade 9), or have permission of present instructor or department chairperson.

DESCRIPTION: Geometry develops the properties of geometric figures in two and three dimensions. Numerical applications are given considerable treatment. Although all results are derived using deductive methods, the emphasis on formal proof depends on the level of geometry taken.

COURSE TITLE: Intermediate Algebra and Trigonometry

LEVEL OFFERED: Academic 230

PREREQUISITES: Successful completion of Informal Geometry or recommendation of present instructor.

DESCRIPTION: Intermediate Algebra is a course designed for students who have completed Algebra 1A, Algebra 1B, and informal geometry. This course will review basic algebra topics and continue on to second year algebra topics with an emphasis on applications of algebraic methods to real world problems.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Proficiency in Mathematics

LEVEL OFFERED: Academic 201

PREREQUISITES: Must be a junior or senior.

DESCRIPTION: Proficiency in Mathematics is a course for juniors and/or seniors that allows them to continue their study of algebra at the next highest level. This course emphasizes problem solving techniques, algebraic applications, and demonstrates how mathematics connects to other subject areas.

COURSE TITLE: Algebra 2

LEVEL OFFERED: Academic 233, Honors 234

PREREQUISITES: Academic - successful completion of Geometry academic or permission of present instructor or department chairperson. Honors - successful completion of Geometry honors or permission of present instructor or department chairperson.

DESCRIPTION: Algebra 2 is a continuation of the study of algebra begun in Algebra 1. It covers many topics of advanced algebra and includes the introduction of trigonometry. Algebra 2 emphasizes the development of algorithms as problem solving tools and introduces students to the use of functions. Students taking Algebra 2 honors must have complete mastery of Algebra 1 topics.

COURSE TITLE: Pre-Calculus

LEVEL OFFERED: Academic 244, Honors 246

PREREQUISITES: Academic – A grade of C or better in Algebra 2 or permission of present instructor or department chairperson. Honors – A grade of B or better in Algebra 2 Honors or permission of present instructor and/or department chairperson.

DESCRIPTION: Pre-calculus prepares students for a first course in calculus. It centers around the function concept and it provides a thorough treatment of the algebra of functions. Pre-calculus concentrates on two major topics – Analytic Geometry and Trigonometry. It discusses and extends the concepts of solid geometry.

Pre-calculus proceeds rapidly and makes extensive demands on the student. Students electing the course must be willing to invest a substantial amount of time on homework assignments.

COURSE TITLE: Introduction to Calculus

LEVEL OFFERED: Academic 253

PREREQUISITES: Successful completion of Pre-Calculus by the end of junior year.

DESCRIPTION: Introduction to Calculus is a full year course for seniors who have completed Pre-calculus. Term one will consist of preparation for the SAT as well as a review of analytic geometry and trigonometry. The remaining three terms will introduce the study of calculus and its applications.

COURSE TITLE: Calculus

LEVEL OFFERED: Honors 256

PREREQUISITES: Pre-Calculus must be completed by the end of the junior year or recommendation of present instructor.

DESCRIPTION: Honors Calculus provides students with a review of analytic geometry and trigonometry before proceeding to topics from elementary calculus.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Advanced Placement Calculus

LEVEL OFFERED: Advanced Placement 255

PREREQUISITES: A grade of A- or better in Pre-calculus Honors or recommendation of present instructor or department chairperson.

DESCRIPTION: AP Calculus provides students with a knowledge of the important results from elementary calculus and analytic geometry. The course is the equivalent of a freshman calculus course at a university. The purpose of the course is to prepare students to take the AP Calculus exam.

COURSE TITLE: College Prep Senior Mathematics

LEVEL OFFERED: Academic 242

PREREQUISITES: A grade of C or better in Algebra 2 or recommendation of present instructor or department chairperson.

DESCRIPTION: Senior Mathematics is a one (1) semester course that begins with an intensive review for the SAT. The course also covers topics selected from statistics, solid geometry, analytic geometry, advanced algebra, and pre-calculus.

COURSE TITLE: Trigonometry

LEVEL OFFERED: Academic 243

PREREQUISITES: A grade of C or better in Algebra 2 or recommendation of present instructor or department chairperson.

DESCRIPTION: Trigonometry is a one (1) semester course that is offered second semester. It is a complete course in trigonometry. The trigonometric functions, fundamental identities, basic formulas, and graphing techniques are treated. Emphasis is placed on numerical techniques and applications. Students not taking pre-calculus but who want to specialize in engineering or a scientific discipline should take trigonometry.

COURSE TITLE: Discrete Mathematics

LEVEL OFFERED: Academic 240

PREREQUISITES: Successful completion of Algebra 2 or recommendation of present instructor or department chairperson.

DESCRIPTION: Discrete Mathematics is a one (1) semester course for seniors that is offered second semester. Discrete Mathematics is the study of topics with integral solutions. Topics will include matrix algebra, graph theory, social choice, counting, and probability. Problem solving and technology are emphasized.

COURSE TITLE: Probability and Statistics

LEVEL OFFERED: Academic 247

PREREQUISITES: Successful completion of Algebra 2 or recommendation of present instructor or department chairperson.

DESCRIPTION: Probability and Statistics is a one (1) semester course for seniors that is offered second semester. This course will show how both probability and statistics are used in every-day life. Students will work on group and independent projects. Technology will be used extensively.

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COURSE TITLE: Applications of Mathematics (Math 12)

LEVELS OFFERED: Academic Semester 1 - 238, Semester 2 - 239

PREREQUISITES: Recommendation of present instructor.

DESCRIPTION: Applications of Mathematics is a one (1) semester course for seniors. The course will focus on problem solving in real-world situations. Specific applications may vary depending on the interests of the students enrolled in the class. Technology will be used extensively.

COURSE TITLE: Introduction to Computer Programming

LEVELS OFFERED: Academic Semester 1 - 248, Semester 2 - 249

PREREQUISITES: Recommendation of present instructor or department chairperson.

DESCRIPTION: Introduction to Computer Programming is a one (1) semester programming course. Selected topics from algebra, geometry, statistics, number theory, data processing, linear algebra, and advanced mathematics are studied using QBASIC.

COURSE TITLE: Advanced Programming

LEVELS OFFERED: Honors Semester 1 - 250, Semester 2 - 251

PREREQUISITES: Introductory Computer Mathematics or recommendation of present instructor or department chairperson.

DESCRIPTION: Advanced Programming is a one (1) semester course covering advanced programming in QBASIC. Topics might include advanced data processing problems, graphics, number theory, simulations, programming style, and algorithm efficiency.

SCIENCE and TECHNOLOGY

A. SCIENCE

The goal of the Science Department is to help students to develop a sense of the form and function of nature in all its variety. Through the use of logic, experimentation, and exposure to the modern-era knowledge base, students will study the underlying concept of any science - cause and effect.

Courses are offered in a variety of disciplines: Life Sciences, Analytic Sciences, Terrestrial Sciences, and Technology. Several academic options are offered to suit the needs and abilities of all students.

Graduation requires the successful completion of four years of Science and Technology. All students must pass the MCAS Science test.

Incoming Grade 9

Enhanced Competence	Physical Science - 316	Plus Technology - 390
Academic	Physical Science - 317	Plus Technology - 390
Honors	Physical Science - 318	Plus Technology - 390
Accelerated	Biology - 326	Plus Technology - 390

EXCELLENCE IN ACADEMICS, ATHLETICS, AND ACTIVITIES

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Incoming Grade 10

Enhanced Competence	Biology – 322
Academic	Biology – 323
Honors	Biology – 324
Accelerated	Honors Chemistry – 334

Incoming Grade 11

Enhanced Competence	Earth Science-312
Academic	Academic Chemistry-333 or Academic Physics-343 or Academic Earth Science-313
Honors or Accelerated	Honors Chemistry – 334 or Honors Physics – 344 AP Biology – 355

Any student taking a science AP in 11th grade must also take Honors Physics in 11th grade.

Incoming Grade 12

Academic	Chemistry-333, Physics-343, Environmental Science-373, Human Anatomy and Physiology-346, Earth Science-313, Oceanography/Meteorology-Astronomy-336-337
Honors	Honors Chemistry-334, Honors Physics-344, Environmental Science-374, Honors Human Anatomy and Physiology-347, AP Biology-355, AP Physics-345, AP Chemistry-335

NOTE: The Engineering the Future courses 381 and 382 count as science courses to satisfy one (1) year of the science requirement for graduation.

All course selections require present science teacher approval.

COURSE TITLE: Grade 9 Physical Science

LEVELS OFFERED: Enhanced Competence 316, Academic 317, Honors 318

PREREQUISITES: For Honors level (318) a student must have achieved a B or better in eighth grade science or have the recommendation of present instructor.

DESCRIPTION: This course is an introductory physical sciences course.

COURSE TITLE: Grade 9 Accelerated Biology

LEVELS OFFERED: Honors 326

PREREQUISITES: A grade of B or better in Grade 8 Accelerated Algebra 1 and an A- or better in Grade 8 science or have the recommendation of present instructor.

DESCRIPTION: Biology is the study of plants, animals, and microorganisms and their environments through classroom and laboratory experiences. This course helps students develop an appreciation and understanding of the roles of classification, reproduction, heredity, evolution, and ecological relationships. Students taking this course are expected to follow a science sequence leading to advanced placement study.

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COURSE TITLE: General Biology

LEVELS OFFERED: Enhanced Competence 322

PREREQUISITES: Recommendation of Grade 9 science instructor or department chairperson.

DESCRIPTION: General biology presents the fundamental concepts and principles of biology through discussion, study, classroom demonstrations, and laboratory experiences.

COURSE TITLE: College Preparatory Biology

LEVELS OFFERED: Academic 323, Honors 324

PREREQUISITES: For Honors level (324) a student must have achieved a B or better in Grade 9 science.

DESCRIPTION: College Preparatory Biology is the study of plants, animals, and microorganisms through classroom and laboratory experiences. The course helps students develop an appreciation and understanding of the role of classification, reproduction, heredity, evolution, and ecological relationships

COURSE TITLE: Advanced Placement Biology

LEVELS OFFERED: Advanced Placement 355

PREREQUISITES: Biology 324, Chemistry 334 or Physics 344, and approval of the department chairperson.

DESCRIPTION: There is a change in this course, please note. Incoming juniors who have successfully completed honors chemistry are now eligible for this course. It is recommended that these students register for this class as juniors. Advanced Placement Biology is a second year course in biology offered primarily for students who are planning a career related to biology. The course is intensive and its content corresponds to a college freshman biology course. Some colleges will permit the students to have advanced standing in biology after students have successfully completed the course and passed the AP exam. Includes a double laboratory period.

COURSE TITLE: Academic Chemistry

LEVELS OFFERED: Academic 333

PREREQUISITES: C or better in Academic Algebra 1 and Academic Biology or the recommendation of the department chairperson.

DESCRIPTION: Academic Chemistry surveys the concepts and principles of chemistry. Topics studied include measurement, matter and energy, atomic structure, nuclear chemistry, formulas, and equations, solutions, electrochemistry, acids and bases, and gases. However, the topics are covered in a less rigorous manner than they are in Honors Chemistry.

COURSE TITLE: Honors Chemistry

LEVELS OFFERED: Honors 334

PREREQUISITES: B or better in Honors Algebra 1 and Honors Biology or a recommendation of the department chairperson.

DESCRIPTION: Honors Chemistry surveys the concepts and principles of chemistry with emphasis on the physical and mathematical analysis of chemical systems. Topics studied include measurement, matter and energy, atomic structure, nuclear chemistry, formulas, and equations, solutions, electrochemistry, acids and bases, and gases.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Advanced Placement Chemistry

LEVELS OFFERED: Advanced Placement 335

PREREQUISITES: A grade of A- in Honors Chemistry (334), a B+ or better in Honors Algebra 2 (234) or Pre Calculus (246), and permission of the department chairperson.

DESCRIPTION: Advanced Placement Chemistry is a problem-solving course open to all students. Students will participate in college style lectures and will use their lab periods to solve chemical based problems in Woburn. The course is intensive and its content corresponds to a college freshman chemistry course. Some colleges will permit the students to have advanced standing in chemistry after students have successfully completed the course and passed the AP exam.

COURSE TITLE: Earth Science

LEVELS OFFERED: Enhanced Competence 312, Academic 313, Honors 314 (Honors level – seniors only.)

PREREQUISITES: None

DESCRIPTION: Earth Science is the study of astronomy, geology, geography, oceanography, and meteorology through discussion, reading, project work, and classroom demonstrations. Students participate in laboratory exercises on issues and topics related to earth science.

COURSE TITLE: Academic Physics

LEVELS OFFERED: Academic 343

PREREQUISITES: Algebra 1 or Integrated Mathematics 2A with a C or better or recommendation of department chairperson.

DESCRIPTION: Physics is the study of natural phenomena. This course presents a variety of topics such as motion, light (waves), heat, and electricity. Since some emphasis is placed on mathematical analysis and real-life problem scenarios, this course will help to develop individual problem-solving skills. This course will be helpful in the future study of the sciences

COURSE TITLE: Honors Physics

LEVELS OFFERED: Honors 344

PREREQUISITES: Algebra 2 or Pre-calculus with a B+ or better. Exceptions must be approved by the physics teacher **AND** the Algebra 2 or Pre-calculus teacher. This course requires strong algebra and graphing skills.

DESCRIPTION: This course is designed to introduce students to scientific investigation and computation. Mechanics (motion and energy) is the main topic since it is the foundation of all natural phenomena, and it is covered in great detail along with real-life problem scenarios. Electricity follows as time permits. All Honors topics are studied using mathematics as a scientific language; therefore, good algebra and trigonometry skills are a must. Above all, the course encourages logical thinking, and it stresses a cause-and-effect view of Nature's Laws

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Advanced Placement Physics

LEVELS OFFERED: Advanced Placement 375

PREREQUISITES: A grade of A- or better in Honors Physics AND A- or better in Algebra 2 or Pre-calculus; extremely powerful mathematical skills, especially algebra; desire to challenge yourself; a strong work ethic. Concurrent calculus is recommended. Exceptions approved by physics instructor, Science Department chairperson and recent mathematics instructor.

DESCRIPTION: This course simulates a first-year college physics course at many universities and is designed for those students who plan to study physics or engineering or other sciences. We use mathematical analysis and interpretation to study a variety of topics; we begin with a review of mechanics and complex systems, then veer into electricity and magnetism. About halfway into the year we start to explore a variety of topics such as heat transfer, thermal expansion, gas laws, wave phenomena, and atomic and nuclear physics. The course requires much dedication, but it will prepare the student for the SAT II Physics Examination and the AP Physics examination.

COURSE TITLE: Environmental Science (seniors only)

LEVELS OFFERED: Academic 373

PREREQUISITES: Biology.

DESCRIPTION: Environmental Science explores the effects of the every increasing number of people who inhabit our planet. The various methods of preserving the earth's natural resources will be presented and studied. Special emphasis will be placed on water and air quality.

COURSE TITLE: Environmental Science (seniors only)

LEVELS OFFERED: Honors 374

PREREQUISITES: Honors Biology 324 and any Chemistry or permission of instructor.

DESCRIPTION: This course will use the fundamental elements of environmental science as a springboard to in-depth exploration of current environmental issues. Study will encompass local, state, national, and worldwide concerns, which will be analyzed, discussed, and debated using the Environmental Decision-Making Model as a foundation. A wide range of topics, including global warming, sustainability, and biodiversity will be covered.

COURSE TITLE: Human Anatomy and Physiology (seniors only)

LEVELS OFFERED: Academic 346, Honors 347

PREREQUISITES: For academic level, students must have completed Biology 323. For Honors level, students must have achieved a B or better in Biology 324, Chemistry 334 or Physics 344.

DESCRIPTION: Human Anatomy and Physiology explores the structure and function of the human body. Topics include the study of the skeletal, muscular, nervous, circulatory, immune, endocrine, and reproductive systems as well as current scientific literature. In addition the honors level will study the lymphatic system and the regulation of fluids and electrolytes. Human Anatomy and Physiology is designed to help prepare students for careers in the medical field, allied health, sports training, and biology as well as those who simply wish to develop a better understanding of their bodies.

COURSE TITLE: Meteorology (semester course - must be taken in conjunction with Oceanography.)

LEVELS OFFERED: Academic 336

PREREQUISITES: Only for seniors.

DESCRIPTION: Weather factors will be discussed and evaluated. Weather station models will be developed leading to weather forecasting. The elements of climate will be discussed and climates of the world analyzed.

WOBURN MEMORIAL HIGH SCHOOL

COURSE TITLE: Oceanography & Fisheries (semester course—must be taken in conjunction with Meteorology.)

LEVELS OFFERED: Academic 337

PREREQUISITES: Only for seniors.

DESCRIPTION: This course will be taught by using concept mapping and other learning style strategies. The following resources would be used in determining the course and effects of the subject matter. Different charts, maps, data recording, instrument reading, data analysis, graphing, models examined, cycles, observations, and experimentation while using math computation. Each course will examine the practical aspect as applied in real world situations.

COURSE TITLE: Science MCAS Review

PREREQUISITES: Academic 301 (Grades 10, 11 and 12)

DESCRIPTION: This is a one (1) semester course designed for students in grades 10, 11, and 12 who require a review of the biology subject matter to help them in taking the MCAS Biology test. This course should be taken by students who have failed the MCAS Biology test and are preparing to take the MCAS Biology retest.

COURSE TITLE: Science Project Independent Study 300

PREREQUISITES: Approval of department chairperson.

DESCRIPTION: This course is designed for students who wish to compete in regional, state, and national science fairs. Guidance will be provided to help students design and complete competitive projects. It will be taken in addition to the regular science course.

B. TECHNOLOGY EDUCATION

Technology education is an important part of the experience available at Woburn Memorial High School. The courses include career and occupational opportunities as well as developing interests and appreciation for consumer knowledge and enhancement through the application of scientific principles.

COURSE TITLE: Technology (semester course)

LEVELS OFFERED: Academic 360 (Grade 9 and 10 only)

PREREQUISITES: None

DESCRIPTION: Students will develop proficiency in the design process and in the usage and impact of technology in society. Some topics that are covered include the following: communications, construction, manufacturing ideas (including robotic mechanisms), transportation, electrical power, thermal systems, and bio-related systems. This course will adequately prepare students for the Technology MCAS test as an alternative to the more traditional BIOLOGY MCAS test or the Introductory Physics MCAS test.

COURSE TITLE: Technical Drawing and Beginning AutoCAD (full year course)

LEVELS OFFERED: Academic 358, Honors 359

PREREQUISITES: Open to sophomores, juniors, and seniors

DESCRIPTION: Technical drawing provides students with hands-on experiences in drafting multi-view drawings and pictorials. Beginning AutoCAD introduces the students to the power of the Computer-Aided-Design software, which allows students to begin drafting immediately with impressive results. Students will learn to draw, letter, dimension, etc. on the computer. This course is strongly recommended for students interested in engineering, design, architecture, or any of the trades.

EXCELLENCE IN ACADEMICS, ATHLETICS, AND ACTIVITIES

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COURSE TITLE: Advanced AutoCAD (semester course)

LEVELS OFFERED: Academic 363, Honors 364

PREREQUISITES: Technical Illustration, open to juniors and seniors

DESCRIPTION: In Advanced AutoCAD students will enhance their designs by building on what they have learned in Technical Drawing and Beginning AutoCAD. Projects will include designing, drawing, and landscaping things such as dream homes, malls, office buildings, bridges, retail stores, cars, etc. This course is strongly recommended for students interested in engineering, design, architecture, or any of the trades.

COURSE TITLE: Engineering the Future (full year course)

LEVELS OFFERED: Academic 381, Honors 382

PREREQUISITES: Open to juniors and seniors

DESCRIPTION: Sponsored by the Museum of Science, Engineering the Future is a beginning engineering course that will introduce different types of engineers and basic skills necessary to succeed in the field of engineering. Through research about practicing engineers and through hands-on design activities (projects), students learn the role of engineers in society. Using math and science concepts, students will solve real-life problems, which is what engineers do. This course is designed to appeal to all students, whether or not they are interested in the field of engineering. Note that this course satisfies one year of the WMHS science requirement for graduation.

COURSE TITLE: Architecture – Residential drawing and design (semester course)

LEVELS OFFERED: Academic 361, Honors 362

PREREQUISITES: Open to sophomores, juniors, and seniors

DESCRIPTION: An introductory course in residential architecture that will include preliminary design and planning, area planning, basic architectural plans, technical architecture plans, and architectural support services.

COURSE TITLE: Engineering, Design, and Prototyping

LEVELS OFFERED: Academic 380

PREREQUISITES: Technology

DESCRIPTION: This course acquaints students with design and construction techniques through the use of every hand tool in the shop and the acquisition of entry-level skills involved with each tool and process.

COURSE TITLE: Design and Manufacturing Process (seniors only)

LEVELS OFFERED: Academic 376

PREREQUISITES: A grade of C or better in Engineering, Design, and Prototyping

DESCRIPTION: This course provides students with extensive training in technology engineering work. The students will explore the job market and industrial conditions in construction and manufacturing. Plan development and machine operation are stressed.

WOBURN MEMORIAL HIGH SCHOOL

WELLNESS

A. FAMILY and CONSUMER SCIENCES

Awareness of what contributes to a well-rounded viewpoint is vital to students preparing to enter the adult world whatever their vocation. In Family and Consumer Sciences the students will receive valuable information and insights about such subjects as child development, family systems, decision-making, personal finances, and nutrition. These subjects promote respect for the rights of others and of the individual. Students are encouraged to work to their full potential and to develop a positive self-image. Students are required to elect one Family and Consumer Science course before graduation.

COURSE TITLE: Life Skills I (semester course)

LEVELS OFFERED: Academic - 752, Honors (Honors students will be approved by department chairperson after meeting criteria.)

PREREQUISITES: Available to juniors and seniors.

DESCRIPTION: This course will prepare students to live on their own after getting out of school. It is a "hands-on" course divided in to two (2) sections. The first section will include life skills centered on managing money, personal budgeting, renting an apartment, and making purchases (buying a car, shopping for clothing, and groceries). The second section will focus on learning about healthy eating, reading nutrition labels, and basic food preparation techniques. This course focuses on real-life situations and decision-making.

COURSE TITLE: Child Development I (semester course)

LEVELS OFFERED: Academic- 744, Honors (Honors students will be approved by department chairperson after meeting criteria.)

PREREQUISITES: Available to sophomores, juniors, and seniors.

DESCRIPTION: Through the observation of children, the students will better understand the interactions between parent, child, and other children. Concepts are combined with practical application to help the students work with children and/or become a parent. Positive parenting tips are stressed. This course is divided into three units:

1. Child, Parenting, and You – provides perspective on the importance of childhood and the responsibility of those who care for children.
2. Pregnancy and Birth – explores the many changes that take place from the time of conception through the baby's birth and the first days at home.
3. Infancy and Early Childhood – examines the physical, emotional, social, and intellectual development.

COURSE TITLE: Child Development II (semester course)

LEVELS OFFERED: Academic - 747, Honors (Honors students will be approved by department chairperson after meeting criteria.)

PREREQUISITES: Child Development I. Available to sophomores, juniors, and seniors.

DESCRIPTION: After introducing students to the importance of studying the stages of child development and parenting skills in Child Development I, Child Development II gives the student the opportunity to develop lesson plans for preschool children. Original hands-on activities are presented by the students to their classmates as well as preparing theme bulletin boards and learning materials. Using the guidelines in class, each student will create a unique children's book.

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B. HEALTH

The Health program provides students with factual knowledge of a person's physical, mental, and social well-being. Within the frameworks, current and historic issues of personal, family and community health are discussed for the purpose of helping students make healthful decisions and establish wholesome values. Prevention is stressed. All students must pass the required health courses to graduate.

COURSE TITLE: Health 9/10 (semester course)

LEVEL OFFERED: Academic 922

PREREQUISITES: None

DESCRIPTION: Through class discussion, research projects, and use of the Internet, students will learn about mental health, emotional feelings, peer pressure, harassment, and stress. Positive decision-making skills and responsible relationships are emphasized. Current topics and up-to-date information is the foundation to this successful course. In all aspects of the program emphasis is placed on the development of the whole child through self-concept enhancement and personal skill building. The key is to distribute information and have students develop self-responsibility to make effective decision making choices in their daily lives.

COURSE TITLE: Health 11/12 (semester course)

LEVEL OFFERED: Academic 944

PREREQUISITES: This class is for juniors and seniors only

DESCRIPTION: Health 11/12 focuses on health literacy, self-management skills, and health promotion. Health literacy focuses on acquisition of information, comprehension of information, and understanding of health services. Healthy self-management enables students to integrate and apply knowledge and skills to health decisions, actions and conduct, assume health responsibilities, and consider consequences and outcomes of their decision. Health promotion helps students to demonstrate competence in using health information and services with the ability to respond to health concerns and emergencies. CPR is taught. This course will prepare students with life long skills necessary for their future.

C. PHYSICAL EDUCATION

Physical Education is a required course for all students. They must pass three semesters (7.5 credits) to graduate. Students are expected to change and participate in all class activities to the best of their ability. Our goal is for students to acquire the skills necessary to promote and maintain the concept of wellness in their daily lives. Wellness captures the combination of physical activities, fitness, and a healthy lifestyle.

COURSE TITLE: Physical Education Grade 9 (semester course)

COURSE NUMBER: 910

PREREQUISITES: None

DESCRIPTION: Through carefully arranged programs and experiences, the students will attain the desired goals of fitness, good health, resiliency, and basic motor skills to perform daily tasks.

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COURSE TITLE: Physical Education Grade 10 (semester course)

COURSE NUMBER: 920

PREREQUISITES: None

DESCRIPTION: Students will work to achieve this goal by demonstrating a wide variety of team and individual sports, lifelong fitness activities, and cooperative games.

COURSE TITLE: Physical Education Grade 11 (semester course)

COURSE NUMBER: 930

PREREQUISITES: None

DESCRIPTION: Students will achieve this goal through a wide variety of individual fitness and lifelong activities and experiences.

COURSE TITLE: Physical Education Grade 12 (semester course)

COURSE NUMBER: 940

PREREQUISITES: None

DESCRIPTION: Students learn the importance of physical fitness in their overall level of health and wellness. Students are encouraged to incorporate these activities after high school into their daily lives.

COURSE TITLE: PE Cardio (semester course)

COURSE NUMBER: 932

PREREQUISITES: Passing grade in Physical Education 9.

This class is for juniors and seniors only

DESCRIPTION: Students will experience a wide variety of cardiovascular activities that will satisfy their daily recommended activity for a healthy individual (Examples: treadmill, walking, and stationary bike).

COURSE TITLE: Physical Education/ Personal Fitness (semester course)

COURSE NUMBER: 941

PREREQUISITES - This class is for sophomores, juniors, and seniors only.

DESCRIPTION: This elective course will address individual fitness needs based on the student's ability level. Activities that will be offered are cardiovascular fitness (treadmill, bike, and Stairmaster), core training (abdominal, stability and balance), resistance training (free weights and resistance bands), and circuit training for a full body workout and flexibility (stretching).

COURSE TITLE: Physical Education/ Weight Training (semester course)

COURSE NUMBER: 943

PREREQUISITES - This class is for juniors and seniors only.

DESCRIPTION: This elective course will address strength training based on the student's individual needs and level of ability. The activities will include upper and lower body strength training with a variety of free weights. This course is a great way to increase muscular strength and muscular endurance.

COURSE TITLE: Advanced Physical Education (semester course)

COURSE NUMBER: 939

PREREQUISITES: Successful completion of course number 910 and 920.

DESCRIPTION: This elective course is offered to males and females that have displayed a high level of skills in prior physical education classes. It will consist of challenging individual, team, and lifelong activities (examples: volleyball, eclipse ball, badminton, strength training, and cardiovascular fitness).

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WORK STUDY PROGRAM

COURSE TITLE: Work Study

LEVEL OFFERED: 991

DESCRIPTION: The Work Study Program permits high school students to prepare for the world of work and future careers. Through the program, students gain valuable experience and job skills as they explore possible careers.

The Work Study Program is open to seniors who are in good standing. Underclassmen that are in special or extenuating circumstances may also be admitted. Students must elect four full-time subjects including English.

Note: Work Study students are not eligible for High Honors and Honors unless they are enrolled in six full time subjects.

PEER MEDIATION and CONFLICT RESOLUTION

The Peer Mediation Program is comprised of a diverse group of students selected from the school population. All students entering grades ten, eleven, and twelve may submit an application for the program. The program is designed to teach students to mediate the interpersonal conflicts of their peers. It is the most effective programmatic approach to teaching conflict resolution skills to students. Peer mediation puts the responsibility for resolving conflicts in the hands of the students themselves. After intensive training, the student mediators meet with peers in conflict and help them work together to create a satisfactory resolution to their disputes.

Y.E.S.

Youth Engaged in Service

Youth Engaged in Service is a community service program sponsored by the Woburn Public Schools. All students who have completed 150 hours of documented community service will receive a plaque to recognize their commitment to others at the Honors Assembly. In addition, the students will be distinguished at graduation by a gold tassel.

INTERNSHIPS

Woburn Memorial High School

Several internships are available at Woburn Memorial High School that will provide interested students with work experience in a variety of educational and office settings. Students may complete an internship at the school bank, guidance office, lunch office, principal's office, the athletic director's office, or in the offices of the assistant principals. In addition, Connecting Activities offers various internships in the community with the prior approval of the principal. Each internship will provide the students with experience that will help them make a more informed career decisions.

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REGULATIONS PERTAINING TO STUDENT RECORDS

A parent or a student who has entered the ninth grade or is at least fourteen years old has the right to inspect all portions of the student record upon request. The record must be made available to the parent or student no later than two days after the request unless the student or parent consents to a delay.

The parent and student have the right to receive copies of any part of the record, although a reasonable fee may be charged for duplicating the materials.

The parent and student may request to have parts of the record interpreted by a qualified professional of the school or may invite anyone of their choosing to inspect and interpret the record with them.

POLICY STATEMENT OF WOBURN PUBLIC SCHOOLS

It is the policy of Woburn Public Schools not to discriminate on the basis of race, color, sex, religion, national origin, or handicap in its educational programs, activities or employment practices as required by title IX, Chapter 622 and section 504 of the Public Law 94-142. Title IX of the Education Amendments of 1972 says, "No person...shall, on the basis of sex, be excluded from participation in, be denied benefits of, or be subjected to discrimination under and education program or activity receiving federal financial assistance...Chapter 622 of the Acts of 1971 Massachusetts General Laws states...Every person shall have a right to attend the public schools of the town where he actually resides, subject to the following section. No person shall be excluded from or discriminated against in admission to a public school of any town, or obtaining the advantages, privileges, courses of study, extracurricular activities or services of such school on account of race, color, sex, religion, or national origin. Section 504 of Public Law 94-142 assures non-discrimination of handicapped students in the public schools.

Inquiries regarding compliance with above-mentioned laws may be directed to:

Mr. James Duran
Woburn Memorial High School
88 Montvale Avenue
Woburn, MA 01801
781-937-8210 ext. 119

Or you may contact the following:

Chapter 622
Bureau of Educational Opportunity
178 Tremont Street
Boston, MA 02111

Title IX and Section 504

The Office of Civil Rights
Department of Health Education and Welfare
Washington, D.C. 20201