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Scheduling Principal: Peter Hartman

Secretary: Sherry Zander

				COURSE NAME	COURSE #	PAGE
9	10	11	12	TECHNOLOGY AND ENGINEERING		
X	X	X	X	Introduction to Woodworking & Furniture & Cabinetry	TEC 110	17
X	X	X	X	Introduction to Woodworking	TEC 113	17
X	X	X	X	Furniture and Cabinetry	TEC 123	17
	X	X	X	Advanced Furniture and Cabinetry	TEC 130	19
		X	X	Fine Woodworking	TEC 140	18
	X	X	X	Introduction to Construction	TEC 150	18
X	X	X	X	Consumer Auto	TEC 213	19
X	X	X	X	Outdoor Power Equipment Technology	TEC 219	19
X	X	X	X	Auto Technology 1 Engine Systems	TEC 223	20
	X	X	X	Auto Technology 2	TEC 230	20
		X	X	Auto Technology 3	TEC 240	20
		X	X	Auto Technology 4 Advanced Engines	TEC 250	20
		X	X	Auto Youth Apprenticeship Program	TEC 260	21
X	X	X	X	Design Drafting and Computer Graphics	TEC 310	22
X	X	X	X	Introduction to Engineering	TEC 320	22
	X	X	X	Principles of Engineering	TEC 330	22
		X	X	Civil Engineering & Architecture	TEC 340	22
			X	Engineering Design and Development	TEC 350	23
		X	X	Civil Engineering and Architecture 2	TEC 360	23
	X	X	X	Digital Electronics	TEC 370	23
		X	X	Computer Integrated Manufacturing	TEC 380	24
X	X	X	X	Home Maintenance and Improvement	TEC 413	24
			X	Co op Drafting	TEC 520	24
9	10	11	12	ART		
X	X	X	X	Drawing 1	ART 113	25
X	X	X	X	Drawing 2	ART 123	25
	X	X	X	Drawing 3	ART 133	26
X	X	X	X	Art Experiences	ART 143	26
X	X	X	X	Ceramics & Sculpture 1	ART 213	26
X	X	X	X	Ceramics & Sculpture 2	ART 223	26
	X	X	X	Ceramics & Sculpture 3	ART 233	27
X	X	X	X	Photography 1	ART 313	27
X	X	X	X	Photography 2	ART 323	27
	X	X	X	Photography 3	ART 333	27
X	X	X	X	Painting & Printmaking 1	ART 413	28
	X	X	X	Painting & Printmaking 2	ART 423	28
X	X	X	X	Art Metal & Glass 1	ART 513	28
X	X	X	X	Art Metal & Glass 2	ART 523	28
X	X			Computer Art Survey	ART 603	29
X	X	X	X	Computer Art: Digital Imagery	ART 613	29
X	X	X	X	Computer Art: Illustration	ART 623	29
X	X	X	X	Computer Art: Animation	ART 633	29
X	X	X	X	Communication Design	ART 643	30
	X	X	X	Community Art	ART653	30
9	10	11	12	BUSINESS & INFORMATION TECHNOLOGY		
X	X	X		Introduction to Business Careers	BUS 113	32
X	X	X	X	Keyboarding/Advanced Keyboarding	BUS 210	32
X	X	X	X	Keyboarding	BUS 213	32
X	X	X	X	Advanced Keyboarding	BUS 223	32
X	X	X	X	Computer Hardware/Software Essentials	BUS 133	33
X	X	X	X	Microsoft Office Suite	BUS 310	33

				COURSE NAME	COURSE #	PAGE
X	X	X	X	Word and Excel	BUS 330	33
X	X	X	X	Access and PowerPoint	BUS 340	34
X	X	X	X	PowerPoint and Web Development & Email Systems	BUS 350	34
X	X	X	X	Web 2.0-21 st Century Literacies and Adobe Dreamweaver	BUS 360	35
X	X	X	X	Personal Finance	BUS 403	36
X	X			Introduction to Accounting Concepts	BUS 413	36
		X	X	Accounting for Dual Transcribed Credit	BUS 420	36
		X	X	AP Accounting	BUS 430	37
		X	X	Business & Personal Law 1 & 2	BUS 440	37
		X	X	Business & Personal Law 1	BUS 441	37
		X	X	Business & Personal Law 2	BUS 442	37
	X	X	X	International Business	BUS 453	38
X	X	X	X	Medical Office Assistant	BUS 463	38
X	X	X	X	Desktop Publishing	BUS 470	38
		X	X	Business Information Technology and Career Skills	BUS 510	39
		X	X	Business and Career Internship	BUS 520	39
9	10	11	12	COMPUTER SCIENCE		
X	X	X	X	Introduction to Programming	CMP 110	40
X	X	X	X	Computer Science A AP	CMP 120	40
X	X	X	X	Computer Hardware/Software Essentials	CMP 133	40
	X	X	X	Networking Concepts 1	CMP 143	41
	X	X	X	Networking Concepts 2	CMP 153	41
9	10	11	12	ENGLISH/READING		
X				English 9	ENG 110	42
	X			Directed English 10	ENG 210	42
	X			English 10	ENG 220	42
	X			English 10 Honors	ENG 230	42
		X		Directed English 11	ENG 310	42
		X		English 11	ENG 320	43
		X		English Language AP	ENG 330	43
			X	Directed English 12	ENG 410	43
			X	English 12	ENG 420	43
			X	English Literature AP	ENG 430	43
	X	X	X	Drama 1 & 2	ENG 240	44
	X	X	X	Drama 1	ENG 241	44
	X	X	X	Drama 2	ENG 242	44
	X	X		Reading Fiction and Nonfiction	RDG 120	44
X	X			Read 50	RDG 150	44
X	X			Read 50	RDG 250	45
		X	X	Efficient Reading	RDG 313	45
9	10	11	12	ENGLISH AS A SECOND LANGUAGE		
X	X	X	X	Keyboarding	BUS 093	46
X	X	X	X	Newcomer Language Arts	ZSL 210	46
X	X	X	X	Language Arts 2	ZSL 220	47
X	X	X	X	Language Arts 3	ZSL 230	47
X	X	X	X	Language Arts 9	ZSL 450	47
X	X	X	X	Newcomer Social Studies	ZSL 310	47
X	X	X	X	Social Studies 2	ZSL 320	48
X	X	X	X	Social Studies 3	ZSL 330	48
X	X	X	X	Social Studies 9	ZSL 340	48
X	X	X	X	Advanced Writing 9	ZSL 410	48
	X	X	X	Advanced Writing 10	ZSL 420	48
		X	X	Advanced Writing 11	ZSL 430	48

				COURSE NAME	COURSE #	PAGE
			X	Advanced Writing 12	ZSL 440	49
X	X	X	X	Science Fundamentals	ZSL 610	49
X	X	X	X	ISP ELL Fundamentals	ZSL 650	49
X	X	X	X	Biology Fundamentals	ZSL 660	49
X	X	X	X	Applied Math	ZSL 720	49
X	X	X	X	Algebra 1	ZSL 730	50
	X	X	X	Geometry	ZSL 740	50
X	X	X	X	Spanish for Spanish Speakers 1 and 2	ZSL 810	50
X	X	X	X	Newcomer Literature	ZSL 910	50
X	X	X	X	Literature 2	ZSL 920	51
X	X	X	X	Literature 3	ZSL 930	51
X	X	X	X	Literature 9	ZSL940	51
9	10	11	12	FAMILY & CONSUMER SCIENCES		
X	X	X	X	Culinary Basics	FCS 113	52
X	X	X	X	International Cuisine	FCS 123	52
	X	X	X	Gourmet Chef 1 & 2 ProStart	FCS 130	52
	X	X	X	Gourmet Chef 1 ProStart	FCS 131	52
	X	X	X	Gourmet Chef 2 ProStart	FCS 132	53
	X	X	X	Family Life Ed/Child Development	FCS 210	53
		X	X	Community Studies	FCS 223	53
X	X	X	X	Fashion Design	FCS 233	54
			X	JMM Employment	FCS 310	54
			X	JMM Internship	FCS 320	54
	X	X	X	Health Science Occupations 1 & 2	FCS 410	54
	X	X	X	Health Science Occupations 1	FCS 411	54
	X	X	X	Health Science Occupations 2	FCS 412	55
		X	X	Nursing Assistant	FCS 423	55
X	X	X	X	Medical Office Assistant	FCS 463	55
9	10	11	12	GENERAL STUDIES		
	X	X	X	Human Relations	GEN 113	56
X				Interdisciplinary Honors Seminar	GEN 213	56
9	10	11	12	MARKETING EDUCATION		
	X	X	X	Marketing	MRK 110	57
	X	X	X	Starting Your Own Business	MRK 123	57
		X		Marketing Management	MRK 130	57
		X		Marketing Internship	MRK 140	57
	X	X	X	Sport and Entertainment Marketing	MRK 153	58
9	10	11	12	MATHEMATICS		
X	X	X	X	Algebra 1	MAT 110	59
X				Algebra 1 Honors	MAT 120	59
	X	X	X	Geometry	MAT 210	60
X	X			Geometry Honors	MAT 220	60
		X	X	Algebra/Geometry Survey	MAT 910	60
	X	X	X	Algebra 2/Trig	MAT 310	60
	X	X	X	Algebra 2/Trig Honors	MAT 320	61
			X	Algebra 3	MAT 410	61
		X	X	Algebra 3 Honors	MAT 420	61
		X	X	Algebra Concepts for Dual Transcribed Credit	MAT 510	61
	X	X		Pre-Calculus	MAT 360	62
		X	X	Statistics	MAT 920	62
		X	X	Statistics AP	MAT 540	62
	X	X	X	Calculus AB – AP	MAT 520	62

				COURSE NAME	COURSE #	PAGE
		X	X	Calculus BC – AP	MAT 530	62
9	10	11	12	MUSIC		
X	X			Concert Band 1	MUS 110	63
X	X			Concert Band 2	MUS 120	63
	X	X	X	Symphonic Band	MUS 130	63
		X	X	Wind Ensemble	MUS 140	64
X	X	X	X	Jazz Workshop/Jazz Combo	MUS 150	64
X	X			Concert Orchestra	MUS 210	65
	X	X	X	Philharmonic Orchestra	MUS 220	65
		X	X	Symphony Orchestra	MUS 230	65
X	X	X	X	Chorale	MUS 310	66
	X	X	X	Women's Choir	MUS320	66
	X	X	X	A-Cappella Choir	MUS 330	66
X	X	X	X	Music Appreciation	MUS 413	67
	X	X	X	Music Theory/History	MUS 423	67
9	10	11	12	PHYSICAL EDUCATION		
X				Phy Ed 9	PHY 113	68
X	X	X	X	Health	PHY 123	68
	X			Phy Ed 10	PHY 213	68
X	X	X	X	Lifestyle Changes & Choices	PHY 221	70
		X	X	Basic Life Support	PHY 321	70
		X	X	Individual Sports	PHY 332	70
		X	X	Racquet Sports	PHY 341	70
		X	X	Team Sports 1st Semester	PHY 351	71
		X	X	Team Sports 2nd Semester	PHY 352	71
		X	X	Racquet Sports and Team Sports	PHY 361	71
		X	X	Aerofit	PHY 372	71
		X	X	Social Dance	PHY 413	71
		X	X	Intermediate Weight Training	PHY 433	71
		X	X	Advanced Weight Training	PHY 443	72
		X	X	Rocks & Ropes/Outdoor Adventure	PHY 453	72
		X	X	Advanced Ropes	PHY 463	72
		X	X	Introduction to Athletic Training	PHY 523	72
9	10	11	12	SCIENCE		
X				Integrated Science	SCI 110	73
	X	X	X	Mechanical World	SCI 120	73
	X	X	X	Earth Science 1	SCI 210	74
		X	X	Earth Science 2	SCI 220	74
	X	X	X	Fundamentals of Biology	SCI 310	74
	X	X	X	Biology	SCI 320	74
		X	X	Conservation Biology	SCI 330	75
		X	X	Biology AP	SCI 340	75
		X	X	Biotechnology	SCI 350	75
		X	X	Anatomy and Physiology	SCI 360	76
	X	X	X	Forensic Science	SCI 373	76
	X	X	X	General Physics	SCI 410	76
		X	X	Math Physics	SCI 420	76
			X	Physics B AP	SCI 433	77
	X	X	X	Chem-Com Chemistry	SCI 510	77
	X	X	X	Math Chemistry	SCI 520	77
	X	X	X	Chemistry AP	SCI 530	77
		X	X	Aerospace Engineering	SCI 610	78
		X	X	Astronomy	SCI 620	78

				COURSE NAME	COURSE #	PAGE
		X	X	Environmental Science AP	SCI 630	78
		X	X	Advanced University Research	SCI 700	79
		X	X	Principles of the Biomedical Sciences (BSE)	SCI 710	79
		X	X	Human Body Systems (HBS)	SCI 720	80
9	10	11	12	SOCIAL STUDIES		
X				American Experience 1 & 2	SOC 110	81
X				American Experience 1	SOC 111	81
X				American Experience 2	SOC 112	81
	X			World History	SOC 210	82
	X	X	X	World History AP	SOC 220	82
		X		American Experience 3	SOC 353	82
		X		Basic Economics	SOC 313	83
		X		Economics	SOC 323	83
		X	X	Microeconomics AP	SOC 333	83
		X	X	Macroeconomics AP	SOC 342	84
		X	X	Ethnic Studies	SOC 410	84
		X	X	Ethnic Studies (semester 1)	SOC 411	84
		X	X	Ethnic Studies (semester 2)	SOC 412	84
	X	X	X	American Politics	SOC 423	84
	X	X	X	Americans and the World	SOC 433	85
	X	X	X	Women in U.S. History	SOC 510	85
	X	X	X	Women in U.S. History (semester 1)	SOC 511	85
	X	X	X	Women in U.S. History (semester 2)	SOC 512	85
	X	X	X	The Ancient World	SOC 520	86
	X	X	X	The Ancient World (semester 1)	SOC 521	86
	X	X	X	The Ancient World (semester 2)	SOC 522	86
	X	X	X	European History AP	SOC 530	86
	X	X	X	The Culture and Influences of African Societies	SOC 543	86
	X	X	X	Psychology	SOC 613	87
		X	X	Psychology AP	SOC 622	87
	X	X	X	Sociology of Sports	SOC 633	87
9	10	11	12	WORLD LANGUAGE		
X	X	X	X	Chinese 1	FOR 110	97
X	X	X	X	Chinese 2	FOR 120	97
	X	X	X	Chinese 3	FOR 130	97
		X	X	Chinese Language and Culture AP	FOR 140	98
X	X	X	X	French 1	FOR 210	98
X	X	X	X	French 2	FOR 220	98
	X	X	X	French 3	FOR 230	99
		X	X	French 4	FOR 240	99
			X	French Language AP	FOR 250	99
X	X	X	X	German 1	FOR 310	99
X	X	X	X	German 2	FOR 320	99
	X	X	X	German 3	FOR 330	99
		X	X	German 4	FOR 340	99
X	X	X	X	Spanish 1	FOR 410	100
X	X	X	X	Spanish 2	FOR 420	100
	X	X	X	Spanish 3	FOR 430	100
		X	X	Spanish 4	FOR 440	100
			X	Spanish Language AP	FOR 450	101
9	10	11	12	WORK EXPERIENCE		
		X	X	Work Experience - Semester 1	WRK 111	102
		X	X	Work Experience - Semester 2	WRK 112	10

2010-2011 CURRICULUM GUIDE

FRESHMAN INTRODUCTION

Ninth grade has some very unique arrangements to support students. The “Core” system keeps ninth graders with a group of 25 students and three teachers for three consecutive hours per day in English, social studies and science. Because of this, students usually experience a sense of community in their Core. The Core teachers meet regularly as a team to discuss students of concern, to assist them in a timely fashion and to coordinate curriculum issues. They pay particular attention to daily academic progress and personal adjustment issues. Members of our support staff are part of these meetings and are therefore immediately available for assistance.

To contact the specific counselor assigned to a freshman, or to contact any member of the support team, simply call the Student Services Office at 663-6054 or 663-6055. Routine questions can also be readily answered by visiting the Student Services homepage at

<http://memorialweb.madison.k12.wi.us/node/1347>

The ninth grade counselors meet freshman in classroom guidance units approximately once per quarter. Adjustment to high school is discussed, as is exploration and planning for high-school and post-high-school futures. Many resources are introduced to students to address these issues. Should a parent/guardian and ninth grader wish a conference with the counselor to carry these discussions further, simply call one of the above numbers. Also please consider the following general recommendations:

YOU WILL CREATE SUCCESS FOR YOURSELF IF YOU:

- Stay organized! Follow teacher recommendations for organizing your notebooks, folders, and materials.
- Manage your study time! Keep up on your homework. Use the assignment notebook.
- Improve your study habits. Visit the study skills part of the Student Services homepage. Ask your teachers for suggestions about studying for their particular classes. Don't be shy about requesting a tutor! See your counselor for general study skills information.
- Remember, every grade counts during high school. Your grade point average (GPA) starts now.

INCOMING FRESHMAN PARENTS/GUARDIANS: MAY WE SUGGEST....

- Monitor and encourage the above recommendations for success.
- Maintain regular communication with teachers by following up on progress reports (sent out the fifth week of each quarter) and on report cards (sent out after the ninth week of each quarter).
- Attend Go To School Night – usually held in late September.
- Attend parent teacher conferences in early November.
- Call teachers with questions/concerns at 663-5990 and follow up with the assigned counselor as needed.
- In February, watch for your child to bring home the course selection materials for sophomore year. Help with course selections and consult with your counselor.

INCOMING SOPHOMORES, JUNIORS, AND SENIORS INTRODUCTION

Your high school career is moving ahead. You will want to become acquainted with your counselor very soon if you haven't already. You and your counselor can talk about your courses and credits, seeing how they fit with your ideas for after graduation. Counselors have many resources which will give you up-to-date information. They are also ready to help you with questions you may have. Juniors will want to check with counselors to make certain your course selections for senior year will meet your graduation requirements. Seniors will definitely want to talk with counselors about study skills, time management, and personal concerns that affect their school performance.

One source of information that will answer many questions is the Memorial Student Services website at: <http://memorialweb.madison.k12.wi.us/node/1347>. Links on the page will take you to career sites, military homepages, technical school and college sites and to sections of the page with information about Memorial High School. Be sure to take advantage of the website. Your counselor can help you use the site effectively.

Course selection time is a good time to “connect” with your counselor. The Student Services secretaries can help students schedule time with counselors during study halls, before or after school. Families may call 663-6054 or 663-6055 to speak with your assigned counselor.

Troy Arneson	Wolf River Neighborhood
Amy Olson	Fox River Neighborhood
Dan Maloney	Rock River Neighborhood
Joe Hamel	Wisconsin River Neighborhood
Ying Vang	Counselor for bilingual students

REQUIRED COURSES

9th Grade

English 9
American Experience 1 and 2
Integrated Science Program (ISP)
Algebra 1 or higher
Physical Education 9 (one semester)
Health (one semester)
Electives

10th Grade

English 10
World History
Geometry or higher
*Science
Physical Education 10
Electives

11th Grade

English 11
American Experience 3/Economics
**Physical Education
Electives

12th Grade

English (one credit)
**Physical Education
Electives

*Two years of science are required for graduation, Integrated Science in grade 9 and one other course at the students discretion.

**One and one-half total credits of physical education are required in 4 years.

GRADUATION REQUIREMENTS

In order to graduate from Memorial High School, you must earn 22 credits and meet the following course and credit requirements:

- earn 4 credits of English.
- earn 3 credits of social studies.
- earn 2 credits of mathematics (Algebra 1 and Geometry).
- earn 2 credits in science (one life and 1 physical).
- earn 1.5 credits of physical education.
- earn .50 credit of health.

NOTES:

1. The physical education requirements may be waived for any semester for which you present a medical excuse from a physician. The physical education credit for that semester may be made up with credit from any other department. You will again enroll in and continue physical education in the first semester after the medical excuse has expired.
2. Summer School English, social studies, science, mathematics, and physical education courses count as .50 credit for each two-hour class. You may not work ahead in these areas.
3. Failure of a required course may be made up by the selection of another course in the same department. The exceptions to this are health, Algebra 1 and Geometry, which must be taken until they are passed. Failure of an elective course may be made up by completion of that or any other elective.
4. By Department of Public Instruction mandate, you must be enrolled in a class or school-approved activity each of the seven periods of every school day.

SELECTING COURSES FOR THE NEXT SCHOOL YEAR

It is very important that you read the Curriculum Guide carefully, talk to your teachers and counselor and discuss course choices with your parent(s) or guardian(s). If you are in English as a Second Language or in Special Education, staff in those departments will meet with you about your course selections.

Once course selections have been made it will not be possible for you to change your mind about those selections. Schedule changes will be made in the fall only to correct errors, resolve conflicts, or give each senior what he/she needs for graduation.

GRADUATION POLICY REGARDING TRANSFER STUDENTS

Transfer students enter Memorial from schools using a variety of different credit systems. Some require more and some fewer credits for graduation than Memorial. The following system is used when evaluating transfer credits:

1. Determine the credits required for graduation from the former school.
2. Calculate the percentage of graduation credits the student completed at the former school.
3. Calculate the number of Memorial credits represented by that percentage.
4. Using a combination formula, calculate the number of total credits required for graduation from Memorial.
5. Determine specific Memorial courses needed for graduation.

CREDIT FOR NON-MMSD COURSES

In SOME cases high school credit will be granted for pre-approved educational experiences undertaken outside the MMSD.

In ALL cases you must receive prior approval from both your Neighborhood principal and the chair of the Memorial department to which the non-MMSD educational experience is related. Pre-approval forms are available in the Student Services office.

NOTE: Requesting a course via the Youth Options Program and having that request denied by MMSD does not constitute prior approval. You must obtain prior approval as outlined above before the grade and credit for the course can be included on your transcript; grades will not be counted in your GPA.

Students who do not receive prior approval may request to have educational experiences recorded on their transcripts, but no credit will be granted for these experiences.

Credits earned for graduation will consist of Carnegie Units awarded by MMSD high schools or other accredited high schools in which you were physically enrolled. Credits will also be granted for the state-mandated extensions of MMSD credit such as Youth Option Program credits or Youth Apprenticeship Program credits. Credits awarded by any other institutions or because of a court mandate may continue to be listed in an appropriate fashion on the student's summary of courses taken. However, no credit will be granted by the District and the grade will not be calculated into your GPA.

FOUR YEAR PLANNING SHEET

SEMESTER 1-9 TH	SEMESTER 1-10 TH	SEMESTER 1-11 TH	SEMESTER 1-12 TH
English 9	English 10	English 11	English 12 or Elective
American Exp 1	World History	Economics or Am Exp 3	Phy Ed Elective
Int Science (ISP)	Science	Phy Ed Elective	Elective
Algebra 1 or higher	Geometry or higher	Elective	Elective
Phy Ed 9 & Core Support or Health	Phy Ed 10 or elective	Elective	Elective
Elective	Elective	Elective	Elective
Extra	Extra	Extra	Extra
SEMESTER 2 – 9 th	SEMESTER 2 – 10 th	SEMESTER 2 – 11 th	SEMESTER 2 – 12 th
English 9	English 10	English 11	English 12 or Elective
American Exp 2	World History	American Exp 3 or Econ	Elective
Int Science (ISP)	Science	Phy Ed Elective	Elective
Algebra 1 or higher	Geometry or higher	Elective	Elective
Phy Ed 9 & Core Support or Health	Elective or Phy Ed 10	Elective	Elective
Elective	Elective	Elective	Elective
Extra	Extra	Extra	Extra

Minimum Required:
6.00 Credits

Minimum Required:
5.50 Credits

Minimum Required:
5.50 Credits

Minimum Required:
5.00 Credits

PROCEDURES FOR A COURSE WHICH A STUDENT RETAKES

To increase proficiency/mastery, you may retake a course if you earn a grade of F, D, C or B. There are two (2) categories of course retakes--

1. The identical course (may be with a different instructor) taken during the school year at the next scheduled offering of the course or taken online via Madison Virtual Campus, unless an exception is granted by the principal.
2. A Summer School "equivalent" taken during the summer immediately following the school year in which the course was first taken. Each year, high school principals will determine the Summer School courses which are "equivalent", e.g. Summer School U.S. History – Semester 1 equivalent to American Experience 1.

The transcript reflects all the courses you take and grades you earn. Original and retake grades appear on the transcript. The higher of the two grades counts in the G.P.A. The lower grade is not included in the G.P.A., nor is additional credit granted. It is your responsibility to check with your counselor to be sure the grades and credits for courses you retake are recorded accurately on your transcript.

If you receive a semester grade of "Incomplete" for a class, you have 9 weeks of the following semester to make up the work and have your teacher change the "Incomplete" to the appropriate letter grade. If you do not make up the work and have your teacher change your "Incomplete" by the end of the next semester, the teacher will then change the "Incomplete" to a letter grade of F. For athletic purposes, a grade of "Incomplete" counts the same as a grade of F; and you, as a student athlete, will be under Athletic Code restrictions until you make up the work for the "Incomplete" and your teacher has changed the "Incomplete" to a passing letter grade.

COURSES OF INTEREST TO VARIOUS STUDENTS AT MEMORIAL

1. MMSD's Madison Virtual Campus

Is Online Learning Right For You?

To find out, please visit:

<http://oldweb.madison.k12.wi.us/tnl/mvc>

If you have questions,
please talk to your school's online teacher:

Ms. Stacy Eslick

James Madison Memorial HS Online Teacher

seslick@madison.k12.wi.us

Office: 608-663-6061

2. **Avid**

Avid is a college readiness program for qualifying students to receive support - academic and social - as they develop the faculty for advanced courses in high school. Students in the program enroll in an AVID course where they learn goal setting, note-taking, writing skills, and reading strategies for each of their high school years. Motivational activities include speakers, field trips, college visits, and seminars.

Prerequisites: AVID program students have average to high test scores, a 2.0-3.5 qualifying GPA, college potential with support, desire and determination. AVID students must also meet one or more of the following criteria: first to attend college, historically underserved in four-year colleges, low income, and/or have special circumstances. Students apply and are admitted into the program beginning with their freshman year. Please see a counselor for the application.

3. **Special Education and English as a Second Language Courses**

Memorial offers many special education and ESL courses which are listed in the Curriculum Guide. These courses are designed for and offered to students enrolled in these two programs.

4. **Advanced Placement (AP) Courses**

AP courses are college level courses taught in high school following a special curriculum. If you pass an exam in early May, many colleges grant college credit. Memorial offers AP courses in the following subjects:

Biology AP	Macroeconomics AP
Chemistry AP	Microeconomics AP
Environmental Science AP	Psychology AP
Physics B AP	European History AP
Calculus AB-AP	World History AP
Calculus BC-AP	Chinese Language & Culture AP
Statistics AP	English Literature AP
Computer Science A AP	French Language AP
English Language AP	Spanish Language AP

Further information may be obtained by contacting Mr. Hamel, counselor, at 663-6063 or you may go to <http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

5. **Advanced Standing (AS) Courses**

AS courses are Memorial courses for which arrangements have been made with the Wisconsin Technical College System to grant you college credit if you fulfill the course requirements with a grade of B or better. These credits are free and do not require you to take an exam. Since a significant number of Memorial graduates enroll in an MATC program within three years of graduation, you may find these AS credits useful. Advanced standing courses are available in the Business, Marketing and Family and Consumer Education Departments.

6. Internship Programs

Co-op programs are courses which include on-the-job training and for which you receive high school credit and wages for your work.

<u>Memorial Department</u>		<u>Co-op Course</u>
Business & Info. Tech.	-	Business Internship
Marketing Education	-	Marketing Internship
Family & Consumer Sciences	-	HERO Internship
Technology and Engineering	-	Drafting Internship

Co-op programs have 2 components, class and co-op work. They are meant to be taken together so that classroom activities and instruction are complementary. Classroom learning is applied on the job, and workplace experiences enrich the course content. You study one period each day in the classroom and then work at the job site after school.

Co-op programs cannot be taken at the same time as the Work Experience program offered through the school counselors, nor can Work Experience replace Co-op in the same semester.

7. Work Experience Program

Please see your counselor if you think you are eligible for Work Experience credit.

8. Youth Apprenticeship Program

The Dane County Area Youth Apprenticeship Program provides 11th and 12th grade students with industry specific courses and work-based learning in a one or two-year program. Students must apply by March of the year preceding enrollment in the program. Students successfully completing a youth apprenticeship will receive a State Skill certificate of occupational proficiency and may receive postsecondary credit in some programs. High school credit is awarded for all courses and work experience. This program allows you to move directly to the world of work or to continue your career focus in postsecondary education. Youth apprenticeships are available in Architecture, Automotive Technician, Biotechnology, Finance/Accounting, Health Services, Introduction to Protective Services, Introduction to Diagnostic Care, Information Technology, Pharmacy Technician, Printing/Graphic Arts and Tourism. Contact your counselor for details. More information and the application can be found at www.dcsc.org.

9. Youth Options Program

- a. The Youth Options Program (YOP) permits any 11th or 12th grade student to attend a Wisconsin institution of higher education for the purpose of taking one or more nonsectarian courses. The school district is required to pay for the course(s) if no comparable course is offered in any of the MMSD high schools and if the course is approved for high school credit. If the course is taken for post-secondary credit only, you, the student, pay the cost.
- b. **By March 1 for the fall semester and October 1 for the spring semester, you must notify the School Board of your intention to participate in the program.** The application for participation must arrive in the office of the MMSD Director of Alternative Programs by the deadline dates. **No exceptions for the deadline dates will be granted. A separate application must be processed for each semester that you apply to participate in YOP.** Applications and an envelope addressed to the Director of Alternative Programs may be obtained in Memorial's Student Service Department.

Please check the section entitled "Credit for Non-MMSD Educational Experiences" on page 6 for information about Youth Options applications and prior approval for educational experiences outside MMSD.

In cases where a Youth Options course conflicts with a Memorial course, the Memorial course takes precedence. You may not miss Memorial classes to attend Youth Options classes.

- c. This paragraph pertains to University of Wisconsin-Madison ONLY.
 - "Students may list one or more alternative courses on their YOP application form in the event their first choice is not available.
 - Students may not make changes in their YOP application after the deadline.
 - If the UW, based on the results of a placement test, recommends a different level of an already approved course, the recommendation will be honored if MMSD does not offer a comparable course.
 - Students must also apply for admission to the University through the Office of University Special and Guest Students. Applications are available from that office at 905 University Avenue, Madison WI 53715-1005, phone 262-2115. A "B" average is required for admission as a Special Student.
 - On occasion some students may be admitted for more than one UW-Madison course with the approval of the University. The district will pay for more than one YOP approved course if the UW-Madison allows the student to take more than one course for high school credit. If a student intends to apply for admission to more than one course at UW-Madison, that must be indicated on the YOP application.
 - Students attend a mandatory orientation meeting at MATC or UW-Madison."

- d. YOP does not apply to Summer School or to Independent Study.
- e. No changes may be made in a YOP application once it has been submitted to the MMSD Director of Alternative Programs.
- f. Appeals will be referred to the MMSD YOP Committee.
- g. A conflict within your high-school schedule is not by itself sufficient grounds for an appeal.
- h. Eleventh and twelfth grade students must carry the minimum high school required credit load each semester. The application of the credit equivalency to the YOP course plus your Memorial credits must at least equal the established credit requirement of your grade. Four (4) UW credits equal one (1) high-school credit. You must meet the minimum credit requirement of grade 12 to be eligible for scholarship consideration.
- i. YOP courses will be recorded on your transcript and will be figured into your GPA. **(NOTE: The YOP grade could affect consideration for certain scholarships including Academic Excellence and the Robert E. Byrd [All-State].**
- j. MMSD will pay only for courses that are successfully completed. If you drop a Youth Options course, you are responsible for paying the tuition.

POST HIGH SCHOOL PLANNING

Because of changing employment demands, most new jobs will require more than a high school diploma but less than a four-year degree. You will probably change jobs six to seven times in your lifetime. Although four-year-college graduates will be needed to some extent in the future, the nature of the current and projected job markets requires that you explore and gain knowledge of several career options, including the large number of careers which do not require a four-year college degree.

Memorial staff believe that an important part of our mission is to provide all students with the opportunities necessary to develop skills for the world of work. Many opportunities and resources are available to assist you in preparing for your career.

1. **The Career Resource Center (CRC)** contains data in various formats. There are computers that you may use to find career and college related information on the Internet. In addition, you may also investigate information using computer-related resources provided by MMSD. The CRC also has print materials, videotapes, CDs, and DVDs, covering various careers and educational programs. Students applying to technical schools or two-year or four-year colleges may arrange to use the CRC to apply on line. All campuses in the UW and Wisconsin Technical Education Systems, and many campuses around the country accept applications electronically. Each year over 100 colleges send representatives to Memorial; you can check the CRC to see which representatives are coming. You are encouraged to use the CRC to help you plan your future.
2. **Wisconsin Technical Colleges (MATC, etc)** specific high school requirements are:
 1. Students planning to enroll in the College Transfer Program should take the following:

English	4 credits
Mathematics (Algebra & above)	3 credits
Social Studies	3 credits
Natural Science	3 credits
Additional academic electives	4 credits
 2. Students enrolling in other programs will, for the most part, meet requirements by virtue of completing Memorial graduation requirements.
 3. Several programs at MATC require either the ACT exam or a specific exam given by MATC. It is your responsibility to check exam requirements for programs in which you are interested.
3. **Military Information**

Counselors provide military information as career information for students. All military materials are appropriately labeled and identified. Each fall and periodically throughout the year, military personnel supply information in the designated areas of the CRC. With the approval of the principal, per Board Policy 7541, Armed Forces representatives have access to students on school grounds on pre-announced military career days, no more than three times a year.

4. **Two-year U.W. Colleges**

The thirteen U.W. system colleges provide the freshman and sophomore college years, leading to either receiving the two-year associate degree or to transfer to a four-year campus.

A. Specific high-school course requirements:

English	4 credits
Mathematics	3 credits
Social Studies	3 credits
Natural Science	3 credits
Additional academic & other electives	4 credits.

B. Testing requirement: ACT or SAT.

C. Class rank requirement: You must be in the top 75% of the graduating class.

D. A guaranteed transfer program allows you to transfer to the U.W. four-year campus of your choice, using the transfer requirements in place when you entered the two-year college.

5. **Four-year college/university**

A. U.W. System Admission Requirements

1. A minimum of seventeen high school credits is required. Thirteen of the seventeen credits must be as follows:

English	4 credits
Social Studies	3 credits
Mathematics	3 credits (Algebra 1, 2, and Geometry)
Natural Science	3 credits

2. The remaining four credits may be from the above areas, world language, fine arts, computer science, or other academic areas.
3. U.W.-Madison and U.W.-Eau Claire require 2 levels of the same world language for admission. Each university may specify additional credit requirements for the remaining four credits and may specify required content for all seventeen credits. To see current requirements for each campus, check the [Introduction to the University of Wisconsin System](#) booklet, or check on-line at: www.uwhelp.wisconsin.edu .

The next section lists in detail the high school course requirements at U.W. - Madison, because Madison reflects the requirements of most highly selective U.S. four-year colleges and universities.

B. U.W. Madison Admission Policy

1. Madison considers both academic and non-academic indicators of success, the learning environment, and the applicant's potential for contribution to the University community. They have no prescribed minimum test score, GPA or class rank above which admission is guaranteed.

Rigor of courses, including senior year, is important. Admitted students have typically completed accelerated, honors, AP and/or IB courses. Approximately 70% of U.W.-Madison students receive credit for AP, IB, or college course work completed while in high school.

<u>Course</u>	<u>Minimum for Application</u>	<u>Typical for Admission</u>
English	4 units	4 + units
Algebra	1 unit	1 unit
Geometry	1 unit	1 unit
Advanced Math	1 unit	2 + units
Social Studies	3 units	4 + units
Science	3 units	4 units
Single world language	2 units	4 units
Additional academic/fine arts	2 units	2 + units
TOTAL	17 units	22 + units

2. World language course work completed in 7th and 8th grades will count toward the university world language requirement if work at the next higher level is completed in high school. For example, a student who takes the equivalent of first year Spanish in 7th and 8th grade and then completes second year Spanish in 9th grade will have fulfilled the world language requirement. (NOTE: Courses taken in 7th or 8th grades do not count toward the 22 credits required for graduation from Memorial.)

C. Other U.S. colleges and universities

There is no set standard of required high school courses for admission to the 3,000+ colleges and universities in the U.S. A comprehensive and balanced high school program in the major academic subjects will meet most college requirements. You are advised to consult regularly with your counselor about choosing a college and about admission requirements. It is your responsibility as a potential applicant to become familiar with specific college entrance requirements and to plan a high school program, with the assistance of parents, teachers, and your counselor, to meet the various entrance requirements.

D. Admission Testing

You are strongly advised to take the ACT/SAT exam(s) by the spring of your junior year. All University of Wisconsin System campuses require the ACT or the SAT exam for purposes of admission and placement. You should check with any four-year institution in which you are interested to find out if they prefer the ACT (with or without the writing component) or the SAT.

Students planning to apply to private or out-of-state campuses that require SAT Subject Tests may take the SAT Subject Tests after a given course is completed rather than waiting until the end of the junior year. For example, if you complete chemistry in 10th grade, you may take the SAT chemistry test at the end of your 10th grade year. You should check the catalogues in the CRC or on the Internet, for campuses in which you are interested to determine if SAT Subject Tests are required for admission.

TECHNOLOGY AND ENGINEERING

You are encouraged to elect courses from this department to better prepare yourself for life in our high-tech world. Technology and Engineering at Memorial emphasizes design, manufacturing, and transportation. You frequently work with equipment and materials in a lab environment. Appropriate safety rules are followed.

Intro to Woodworking & Furniture & Cabinetry **TEC 110** **1 Credit** **Elective 9, 10, 11, 12**

If after reading the course description of Intro to Woodworking and, Furniture and Cabinetry you wish to take both courses, sign up for TEC 110.

Introduction to Woodworking (WoodLINKS) **TEC 113** **½ Credit** **Elective 9, 10, 11, 12**

Prerequisite: None

In this hands-on course students will learn modern woodworking skills by building useful projects. The curriculum focuses on standard woodworking procedures, properties of wood, accurate measurement, and the safe use of hand and power tools. At the end of the semester, successful students take home attractive projects and many new skills. This course is part of the district's new initiative focusing on industry based training in wood products manufacturing known as *WoodLINKS*. Students are responsible for course supplies and materials.

Furniture and Cabinetry (WoodLINKS) **TEC 123** **½ Credit** **Elective 9, 10, 11, 12**

Prerequisite: Introduction to Woodworking

This course is a continuation of *Introduction to Woodworking*. Students will learn additional advanced skills related to cabinet making and architectural woodworking. Areas of study include: safety, wood material technology, woodworking design, project planning, woodworking machine operation, finishing methods and techniques, industry standards, and customizing. Students will also explore career opportunities and ways that woodworking applies to daily lives. Students will work independently or in groups to complete at least one major project. This course is part of the district's new initiative focusing on industry based training in wood products manufacturing known as *WoodLINKS*. Students are responsible for course supplies and materials.

Advanced Furniture And Cabinetry (WoodLINKS) **TEC 130** **1 Credit** **Elective 10, 11, 12**

Prerequisite: Furniture and Cabinetry

This course is the advanced study of wood product processing. Topics include: safety, project planning, design and understanding procedures, and using jigs and fixtures in woodworking. Areas of exploration include veneering, CNC technology and curved and circular work. There are assigned projects with additional time available for student-selected projects. Examples of projects include: shaker style furniture, cabinets, functional student furniture, and tables. This course is part of the district's new initiative focusing on industry based training in wood products manufacturing known as *WoodLINKS*. Students are responsible for course supplies and materials.

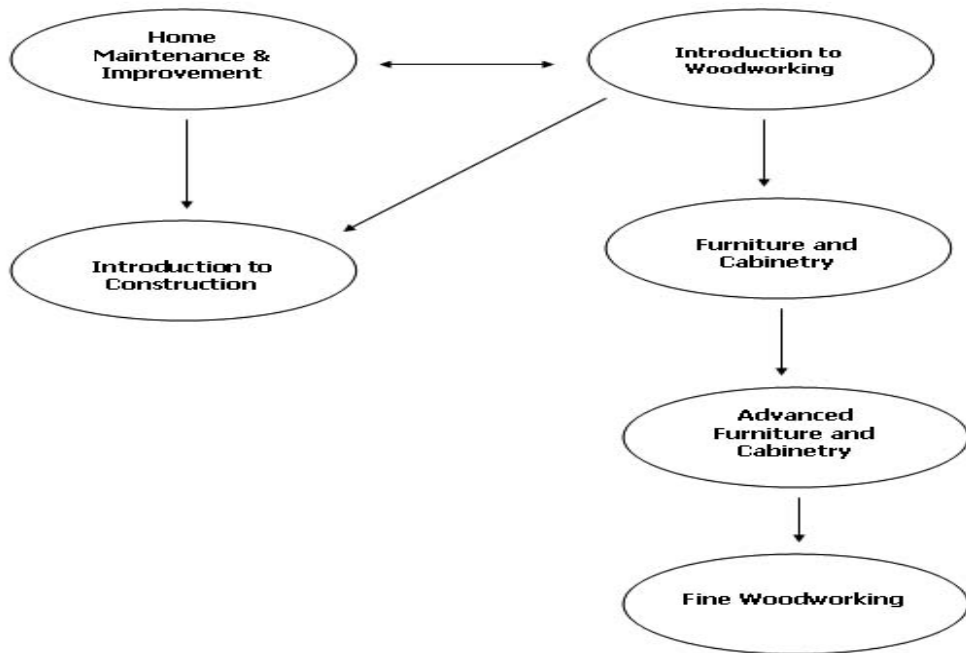
Fine Woodworking TEC140 1 Credit Elective 11, 12
(WoodLINKS)

Prerequisite: Advanced Furniture and Cabinetry
This course is the advanced study of wood product processing. Emphasis is on the production process, including project planning, designing, presenting, understanding procedures, and the use of jigs and fixtures in woodworking. Students explore related careers through assigned or student selected projects. Students research processes and materials for their projects. This course is part of the district's new initiative focusing on industry based training in wood products manufacturing known as *WoodLINKS*. Students are responsible for course supplies and materials.

Introduction to TEC 150 1 Credit Elective 10, 11, 12
Construction (WoodLINKS)

Prerequisite: Introduction to Woodworking or Home Maintenance & Improvement
This course is intended for students interested in construction, home building, remodeling, and other building trades. Class activities include project work in carpentry (framing and finishing), electrical, plumbing, drywall, siding, roofing, and HVAC (heating, ventilation, air conditioning). Home repairs and maintenance will also be studied. Students entering the work force after high school as well as students continuing post-secondary education (2 year or 4 year) in the construction field will benefit from this class. This course is part of the district's new initiative focusing on industry based training in wood products manufacturing known as *WoodLINKS*. Students are responsible for course supplies and materials.
This course is offered at: East, La Follette, West. See your counselor if interested.

Woods/Construction Course Sequences



Consumer Auto

TEC 213

½ Credit

Elective 9, 10, 11, 12

Prerequisite: None

This course is designed for the student who would like to own and maintain a personal vehicle. The course covers basic car care, under-hood inspection (fluids, belts, hoses), removal and replacement of common parts (wiper blades, bulbs, fuses), cooling system maintenance, battery/charging system diagnosis, lubrication system maintenance, tire information, brake inspection, minor ignition system maintenance (spark plugs, wires, firing order), car buying, car insurance, and service information. Students are responsible for course supplies and materials.

**Outdoor Power
Equipment Technology**

TEC 219

½ Credit

Elective 9,10,11,12

Prerequisite: None

Students will study the theory and operation of two- and four-stroke engines. They will gain hands-on experiences by disassembling, analyzing, and reassembling a small engine. Students will be encouraged to bring in repair projects from home. The course integrates and reinforces basic science principles and mathematical concepts while providing hands-on experiences. Students are responsible for course supplies and materials.

Auto Technology 1 TEC 223 ½ Credit Elective 9,10,11,12
Engine Systems

Prerequisite: Consumer Auto or Outdoor Power Equipment Technology
Automotive Technology 1 is an introduction to basic engine construction and operation. Students will disassemble an engine to study engine components, operation, testing procedures, and engine trouble diagnosis. Students will study the following automotive engine systems: cooling, lubrication, fuel, electrical, and ignition. Students are responsible for course supplies and materials.

Auto Technology 2 TEC 230 1 Credit Elective 10, 11, 12

Prerequisite: Automotive Technology 1/Engine Systems
This course is designed for students interested in entering the automotive profession or gaining a solid foundation of the automotive field. Students will learn how to diagnose and repair electrical/electronic systems, brake systems, suspension and steering systems, and engine performance systems. The three Cs of auto repair will be emphasized: Concern, Cause, and Correction of system problems. If this course is taken at Memorial, it is considered the first year of the Automotive Youth Apprenticeship Program. Students will be required to join SkillsUSA student organization as part of this course. Students are responsible for course supplies and materials.

Auto Technology 3 TEC 240 1 Credit Elective 11, 12

Prerequisite: Automotive Technology 2
This course is designed for further study of the automotive profession. It is an independent study course that offers further practice with automotive competencies in electrical/electronic systems, brake systems, suspension and steering systems, and engine performance systems. Students will be required to join SkillsUSA student organization as part of this course. Students are responsible for course supplies and materials.

Auto Technology 4 TEC 250 1 Credit Elective 11, 12
Advanced Engines

Prerequisite: Automotive Technology 2
This course is designed for further study of the automotive profession. It is the study of and further practice with automotive competencies in engine rebuilding, including engine removal, disassembly, inspection and measurement, cleaning, engine machining, re-assembly, test operation, welding basics, and torch operation. Students will be required to join SkillsUSA student organization as part of this course. Students are responsible for course supplies and materials.

**Auto Youth
Apprenticeship Program**

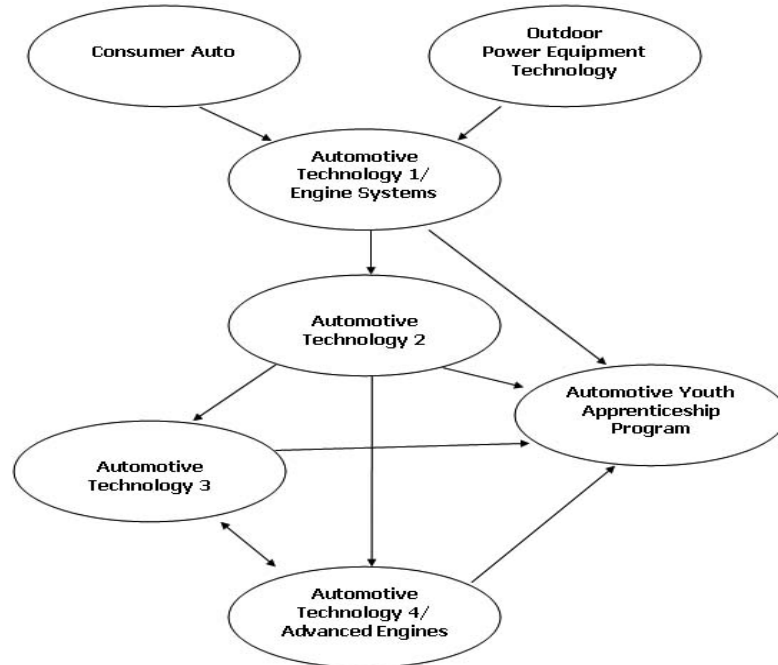
TEC 260

1 Credit

Elective 11, 12

Prerequisite: On track for high school graduation, Automotive Technology 1/Engine Systems. Automotive Youth Apprenticeship (YA) is a rigorous two-year elective program for high school juniors and seniors that combine academic and technical classroom instruction with mentored on-the-job learning. This statewide program gives students the opportunity to experience a career while still in high school. Students attend Memorial High School for the first period of the day during the first year of the Youth Apprenticeship program. Second year students continue courses at Madison Area Technical College. Please see your counselor and your automotive teacher if you are interested in this program. Student is responsible for transportations and other course supplies and materials.

Transportation Course Sequences



Design Drafting & Computer Graphics **TEC 310** **1 Credit** **Elective 9,10,11,12**

Prerequisite: None

This introduction to design and drafting covers the basics of creating a technical drawing using both sketching and computer-aided drafting systems. This course will introduce students to a variety of design areas including mechanical engineering, architectural design and computer graphics. Software for the class includes M.S. Office, M.S. Publisher, Autodesk Inventor and Autodesk Revit.

Introduction to Engineering (Project Lead The Way) **TEC 320** **1 Credit** **Elective 9, 10, 11, 12**

Prerequisite: Algebra recommended **or** concurrent enrollment

This course introduces students to the design process and the tools used in product development. Students will experience first-hand the activities in which engineers engage throughout the design cycle. Development of design briefs, sketching, 3D solid modeling, and prototyping through computer-aided drafting are part of the course. Students will have the opportunity to learn ways in which design techniques apply to many fields such as healthcare, business, art and animation, manufacturing, and engineering. Problem solving and math as it applies to products and services for today's society are emphasized. Students are responsible for course supplies and materials. This course is part of the district initiative in Engineering known as Project Lead The Way. College credit is available.

Principles of Engineering (Project Lead The Way) **TEC 330** **1 Credit** **Elective 10, 11, 12**

Prerequisite: Geometry recommended **or** concurrent enrollment

Students will experience engineering and design technology and use various technological systems and manufacturing processes that demonstrate ways in which engineers and technicians use math, science and technology to benefit people. This course will be a mix of hands-on and academic activities including computer-aided design projects, research activities, case studies, team product development, and discussions on the social and political consequences of technological change. Students are responsible for course supplies and materials. This course is part of the district initiative in Engineering known as Project Lead The Way. College credit is available.

Civil Engineering & Architecture (Project Lead The Way) **TEC 340** **1 Credit** **Elective 11, 12**

Prerequisite: Geometry recommended or concurrent enrollment

Recommendation: Introduction to Engineering or Principles of Engineering

In this class you will learn about Civil Engineering and Architecture, using the design process to solve real world problems and apply your creative skills to hands-on-projects. You will use state-of-the-art software to design residential and commercial buildings. This course covers topics such as the roles of civil engineers and architects, project planning, site planning, building design, project documentation and presentation, and interior design. Students are responsible for course supplies and materials. This course is part of the district initiative in Engineering known as Project Lead The Way. College credit is available.

Engineering Design & Development (Project Lead The Way)

TEC 350

1 Credit

Elective 12

Prerequisite: At least one Project Lead The Way course and teacher's signature
Engineering Design & Development is the capstone research and development course for all of the engineering courses. Engineering Design and Development is an engineering research course in which students work in teams to research, design, and construct a solution to an open-ended engineering problem. Students apply principles developed in the preceding engineering course(s) and are guided by the teacher and community mentor / professional engineers. At the end of the course, students must submit a final written report and defend their solutions to a panel of outside reviewers. Students are responsible for course supplies and materials. This course is part of the district initiative in Engineering known as Project Lead The Way. College credit is available.

Civil Engineering & Architecture 2

TEC 360

1 Credit

Elective 11, 12

Prerequisite: Civil Engineering & Architecture
This is an Architectural Design class where students design commercial residence units that use advanced structural procedures. You also will design a light commercial building and create a presentation of your project. Units include passive solar systems, foundation, framing, floor plans, elevations, perspectives, site plans, presentation drawings, including walk-through and fly-over movies. You will use state-of-the-art software to design residential and commercial buildings and have an opportunity to have your design work critiqued by a professional architect. Student is responsible for obligations. **This course is offered at La Follette HS. See your counselor if interested.**

Digital Electronics (Project Lead The Way)

TEC 370

1 Credit

Elective 10, 11, 12

Prerequisite: Algebra I
Digital electronics and micro-computers are in every product that is either plugged into a wall or operated by batteries. This is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. Students are responsible for course supplies and materials. This course is part of the district initiative in Engineering known as Project Lead The Way. College credit is available. **This course is offered at East HS. See your counselor if interested.**

Computer Integrated Manufacturing **TEC 380**

1 Credit

Elective 11, 12

(Project Lead The Way)

Prerequisite: Completion of Introduction to Engineering and Principles of Engineering with a passing grade OR completion of Metals Manufacturing 1 and Metals Manufacturing 2 with a passing grade.

Students will take the three-dimensional modeling skills they learned in *Introduction to Engineering* and combine them with the building and manufacturing processes learned in *Principles of Engineering* to a whole new level that includes rapid prototyping and using a three-dimensional printer. Using Autodesk Inventor and other computer programs, students will create actual models and prototypes with Computer-Numeric-Control machines, robotic arms and automated manufacturing. Students are responsible for course supplies and materials. This course is part of the district initiative in Engineering known as Project Lead The Way. College credit is available. **This course is offered at East HS. See your counselor if interested.**

Home Maintenance & Improvement (WoodLINKS) **TEC 413**

½ Credit

Elective 9, 10, 11, 12

Prerequisite: None

Students will learn and practice techniques and skills used in maintaining a home. Students will be exposed to basic home construction principles and the functions of related building trade areas. Students will learn about power and hand tools used in the building industry and gain hands-on experience with repairing a leak in copper pipe, patching a hole in a wall, wiring a switch or an outlet, diagnosing fuse problems, and unplugging a drain. Safety practices and procedures are demonstrated, and practiced. This course is part of the district's new initiative focusing on industry based training in wood products manufacturing known as *WoodLINKS*. Students are responsible for course supplies and materials.

Co-op Engineering

TEC 520

1 Credit

Elective 12

Prerequisite: Two other Memorial drafting courses **and** teacher's signature

This course gives you on-the-job experience, field observation, or classroom projects that parallel your tentative career plan in the engineering field. This course requires 10 – 15 hours per week of engineering related work experience. You must also be enrolled in an Applied Technology Engineering course.

ART

Memorial art courses are designed to foster self-confidence, technical abilities, and academic achievement to our students while imparting a creative perspective with lifelong learning skills. Current research on brain development emphasizes the unique and valuable role visual arts courses play in the maturing process of the “whole child.” Plus, many colleges are requiring a fine arts credit for incoming freshmen. When making course selections please be aware of the following:

1. All art courses are one semester in length. A full year of art requires you to select one course for first semester and another for second semester.
2. All art courses require a lab/materials fee. See the individual course description for this information.
3. You may elect either a letter grade or a pass/fail with instructor’s permission and a B average. Please discuss this with your teacher.
4. Studio courses are performance-based. Daily attendance is required. Most assignments are in-class. Extra studio time is often available.
5. Some courses may be repeated for grade and credit. These courses will be indicated in the course descriptions. *To do so requires teacher permission.*
6. Assistance in developing a portfolio and researching colleges for an art-based career is available from the art teachers.
7. Lab Assistant positions offer unique learning experiences. If interested, see a teacher.
8. People wishing to learn more about the art department and our course offerings can contact any of the teachers (emails found with each course description) and/or visit our website: <http://memorialartdept.wikispaces.com/>

Drawing 1

ART 113

½ Credit

Elective 9, 10, 11, 12



Prerequisite: None

This course assumes that everyone can and should learn to draw. The ability to express ideas visually through drawing is a marketable skill. You create a wide variety of drawings using pencil, ink, brush, charcoal, colored pencil, pastels, etc. Lab fee \$10.00.

For more information contact jfrontier@madison.k12.wi.us or tparrisford@madison.k12.wi.us

Drawing 2

ART 123

½ Credit

Elective 9, 10, 11, 12



Prerequisite: Drawing I

This course allows you to refine and expand skills learned in Drawing I while offering new experiences and challenges. Projects are more complex and may include observational drawing, figurative drawing, cartooning, illustration, etc. Projects can be adapted to your interests. You may use this course to prepare works for a college portfolio. Artists are expected to keep a sketchbook both in and out of class. Lab fee \$15.00.

For more information contact jfrontier@madison.k12.wi.us or tparrisford@madison.k12.wi.us

Drawing 3**ART133****½ Credit****Elective 10, 11, 12**

Prerequisite: Drawing 2

This course is specifically designed for you to work on a college portfolio.

You work on theme based art projects using media of choice

(graphite, charcoal, pastel, ink, etc). Possible themes are family, heritage, symbolic self-portraiture, community, public art, community involvement, media communication, literary art reflections, historical studies, large scale works, etc. You work individually and in groups.

Sketchbook/journal as well as group critiques are an integral part of this class. Lab fee \$20.00.

For more information contact jfrontier@madison.k12.wi.us or tparrisford@madison.k12.wi.us**Art Experiences****ART 143****½ Credit****Elective 9, 10, 11, 12**

Prerequisite: None

Description—Students participate in various artistic activities, projects, field trips and art events. Students will be able to work in a broad range of art materials. There are approximately 9 two week projects including: drawing with ink, charcoal, pastel, and craypas; painting with tempera work in art metals, photography, ceramics, and mixed media experiences as well. Students are welcome to add after the 7th week, but will earn only ¼ credit. Lab fee \$15.00.For more information, contact mwinker@madison.k12.wi.us or tparrisford@madison.k12.wi.us**Ceramics & Sculpture 1****ART 213****½ Credit****Elective 9, 10, 11, 12**

Prerequisite: None

This course benefits all students who want to advance their abilities with clay as an artistic and expressive material. Challenges help develop your creative thinking skills too. Hand building and wheel throwing assignments encourage you to use new techniques, tools and your imagination. Lab fee \$15.00.

For more information, contact herman@madison.k12.wi.us**Ceramics & Sculpture 2****ART 223****½ Credit****Elective 9, 10, 11, 12**

Prerequisite: Ceramics and Sculpture 1

You refine your ceramic skills while learning new ones, with numerous opportunities for self-expression and invention. Hand-building assignments are more complex and adaptable to your imagination, while challenging you to envision new forms and communicate new ideas. Wheel-throwing exercises include popular functional: platters, handled mugs, pitchers, bowls, vases and more. Lab fee \$15.00.

For more information, contact herman@madison.k12.wi.us

Ceramics & Sculpture 3



ART 233

½ Credit

Elective 10, 11, 12

Prerequisite: Ceramics and Sculpture 2

This course is for the student-sculptor who wants to develop a true artistic “style” and artistic “voice.” 3-D challenges are both skill-oriented and idea driven. You have the artistic liberty to decide on how to best solve each assignment. Alternative firing techniques, multi-section wheel forms, field trips, ceramics curation, and much more are available in this unique course. This course may be repeated with teacher’s permission. Lab fee \$20.00.

For more information, contact herman@madison.k12.wi.us

Photography 1



ART 313

½ Credit

Elective 9, 10, 11, 12

Prerequisite: **You must have a 35 mm SLR film camera**

You will work toward well-crafted and creative photography with the camera and in the dark room. Effective picture taking emphasize camera operation, composition, film selection and lighting. Studio work include film processing, contact printing, dark room enlarging, hand coloring, and other creative techniques. Lab fee \$20.00.

For more information contact jfrontier@madison.k12.wi.us or tparrisford@madison.k12.wi.us

Photography 2



ART 323

½ Credit

Elective 9, 10, 11, 12

Prerequisite: Photography I **and you must have a 35 mm SLR film camera**

This course allows you to expand and refine your ability to take, develop, print, and manipulate high-quality creative images. You complete specific photo assignments as well as concentrate on areas of personal interest. Projects may include large-scale printing, photo journalism, book making, photo montage, computer manipulation, and research/ paper writing. Lab fee \$20.00.

For more information contact jfrontier@madison.k12.wi.us or tparrisford@madison.k12.wi.us

Photography 3



ART 333

½ Credit

Elective 10, 11, 12

Prerequisite: Photography 2 **and you must have a 35 mm SLR film camera**

This course is designed for you to work on a college portfolio. You work on theme-based art projects while you continue to work on dark-room techniques. Possible themes are family heritage, symbolic self-portraiture, community, public art, digital photography, film, media communication, large scale works, etc. Work is done individually and in groups. Lab fee \$20.00.

For more information contact jfrontier@madison.k12.wi.us or tparrisford@madison.k12.wi.us

Painting & Printmaking 1



ART 413

½ Credit

Elective 9, 10, 11, 12

Prerequisite: Drawing 1 **or** Intro to Art: Art in World Culture

In this course, you will study color theory, light and value, sketchbook research, portraiture, and still life... to name a few topics. Possible media include acrylic, watercolor, printmaking, and water-based oil. This course is for the artist interested in expanding his/her skills and exploring a variety of painting techniques and subjects. Lab fee \$20.00.

For more information, contact mwinker@madison.k12.wi.us

Painting & Printmaking 2



ART 423

½ Credit

Elective 10, 11, 12

Prerequisite: Painting & Printmaking 1

You work on topics such as series work, mixed media, portfolio work acrylic, watercolor, printmaking, and water-based oil. This course may be taken again for credit with teacher permission. Lab fee \$20.00.

For more information, contact mwinker@madison.k12.wi.us

Art Metal & Glass 1



ART 513

½ Credit

Elective 9, 10, 11, 12

Prerequisite: None.

In this course you will design and construct a metal ornament and a ring using sheet metals of silver, copper or nugold. You will explore wirework (in chain mail, sculpture, and/or jewelry), glass bead-making and glass artwork (fused glass pendant and/or stained glass ornament). The \$20.00 lab fee covers all materials needed for this class except sketchbook and pencil.

For more information, contact tparrisford@madison.k12.wi.us

Art Metal & Glass 2



ART 523

½ Credit

Elective 9, 10, 11, 12

Prerequisite: Art Metal & Glass 1

In this course you create metal artwork with set stones and/or inlay work and use a lost wax casting method to create a silver or nugold ring. You use glass to create a fused glass platter, mosaic artwork, and/or stained glass panel. This course may be taken again for credit with teacher permission. The \$20.00 lab fee covers all materials needed for this class except sketchbook and pencil.

For more information, contact tparrisford@madison.k12.wi.us

Computer Art Survey **ART 603** **½ Credit** **Elective 9, 10**

Prerequisite: None

This course is for 9th and 10th grade students who want to quickly and efficiently increase their knowledge of computers and creative software. No computer experience is required. Learn to create with the software professionals use: Adobe Photoshop, Illustrator, Flash, Indesign, Sony Acid and Vegas. No prerequisite required. Further training is available through the other Computer Art courses we offer.

Computer Art: Digital Imagery **ART 613** **½ Credit** **Elective 9, 10, 11, 12**



Prerequisite: None

This course uses Adobe Photoshop, an image manipulation program, to solve artistic and design challenges. Possible projects may include new species creation, filtered hero, informational design, digital painting, magazine design, web page design, and CD packaging design. This course may be repeated for credit with teacher permission. Lab fee \$15.00.

For more information, contact tparrisford@madison.k12.wi.us or mwinker@madison.k12.wi.us

Computer Art: Illustration **ART 623** **½ Credit** **Elective 9, 10, 11, 12**



Prerequisite: None

Graphic design is the fastest growing visual arts based career field today. This course focuses on learning Adobe Illustrator to solve artistic and design challenges. Topics may include: logo design, corporate identity, informational design, and artistic image creation. Possible projects may include a self portrait, poster design, interior space design, and logo design. This course may be repeated for credit with teacher permission. Lab fee \$15.00.

For more information, contact tparrisford@madison.k12.wi.us or mwinker@madison.k12.wi.us

Computer Art: Animation **ART 633** **½ Credit** **Elective 9, 10, 11, 12**



Prerequisite: None

This course is designed for students who want to learn to use software to integrate text, audio and graphics to develop compelling animations. Students will use Flash 8, an industry-standard software used by professionals. Prior animation knowledge is not required; however the curriculum can accommodate skilled animators. Sony ACID software is used to create music. *This course may be repeated for credit with teacher permission.* Lab fee \$10.00.

For more information, contact herman@madison.k12.wi.us

**Communication
Design**

ART 643

½ Credit

Elective 9, 10, 11, 12



Prerequisite: 1/2 Credit of either Intro to Art, Drawing, Computer Art & Design: Illustration, Computer Art & Design; Digital Imagery, Computer Art & Design: Animation
Artists interested in graphic design and visual communication as a potential career, and/ or expanding their artistic skills should elect this course. You will build on your drawing and design skills and apply them in new ways. Projects may include: typography, logo design, illustration, poster design, computer-generated imagery, screen printing/t-shirt design, etc. Lab fee \$20.00.

For more information, contact jfrontier@madison.k12.wi.us

**Community
Art**

ART 653

½ Credit

Elective 10, 11, 12



Prerequisite: None
This course is for the student who wants to create public art for our school. This unique Community Art course involves teamwork, proposal creations, field trips, research, presentations to administrators, grant writing, as well as many other areas. Some examples of projects are an art sculpture park, directional signs throughout the school, large group sculptures, and art benches. This course may be taken again for credit with teacher permission. Lab fee \$10.00.

For more information, contact mwinker@madison.k12.wi.us

BUSINESS & INFORMATION TECHNOLOGY



When making course selections, you should be very aware of the tremendous employment opportunities in the many business-related fields. Students who have taken business courses simply have a greater ability to get better, higher-paying jobs over the short-term and long-term in comparison to students who have not taken advantage of these curriculum offerings.

1. The quarter-credit course structure makes it easier for you to receive computer instruction specific to your individual interests. See the courses listed with the logo displayed at the left.
2. An A.P. Accounting pilot curriculum is available in coordination with the Wisconsin Department of Public Instruction beginning in the 2009-2010 school year. Contact Mr. Thomas for additional information about this new curriculum offering. No prerequisite is required, however, the Accounting for Dual Transcribed Credit course is recommended.
3. The INTERNATIONAL BUSINESS COURSE is an exciting opportunity for students. This course helps prepare you for the challenges that you face in applying business concepts to a rapidly changing global economy. A vast number of resources are available within our building and community to prepare you for your future travels.
4. If you plan on majoring in Business, you need to take Accounting, Business Law, International Business and Personal Finance to prepare yourself for the challenging curriculum at the university level. You are fortunate that you have a strong choice of nationally recognized business schools available in Wisconsin.
5. Advanced Standing at MATC is available for courses in Accounting, Keyboarding, and the Microsoft Office Suite (designated with an "AS" notation). The College Level Examination Program (CLEP) is available in the areas of Accounting and Law. A Dual Transcribed Credit course is available in Microsoft Excel, Hardware/Software Essentials, and Accounting which is granted at no cost to students through an annual articulation renewal with MATC.
6. You may elect either a letter grade or pass/fail with a C average in any computer course by meeting minimum course requirements as identified in the course description.
7. For more information, please see <http://memorialweb.madison.k12.wi.us/business> or contact one of the following instructors:
Dave Thomas (office phone: 442-2231) dmthomas2@madison.k12.wi.us
Sacia Wheeler (office phone: 442-2232) spieper@madison.k12.wi.us.

Introduction to Business Careers	BUS 113	½ Credit	Elective 9, 10, 11
	<p>Prerequisite: None This is an introductory course that previews many business-related fields, careers and new technologies used in businesses today. It explores the potential job market and employment opportunities available in businesses. The Internet is used to explore and research various employment opportunities and the necessary job qualifications.</p>		
Keyboarding/ Adv Keyboarding	BUS 210	1 Credit	Elective 9, 10, 11, 12
	<p>Prerequisite: None If after reading the course description of Keyboarding and Adv Keyboarding, you wish to take both courses, sign up for BUS 210.</p>		
Keyboarding	BUS 213	½ Credit	Elective 9, 10, 11, 12
	<p>Offered: 1st and 2nd semester</p>		
	<p>Prerequisite: None The beginning of this course helps you master touch operation of the keyboard, and develop correct key stroking techniques. Students also become efficient computer users as they apply keyboarding skills as they learn basic document formatting of memos, letters, reports, and tables related to high school and career requirements. THIS IS AN INTRODUCTORY COURSE. You may elect a letter grade or pass/fail.</p>		
Adv Keyboarding	BUS 223	½ Credit	Elective 9, 10, 11, 12
	<p>Offered: 1st and 2nd semester</p>		
	<p>Prerequisite: Keyboarding or instructor consent In this continuation of the Keyboarding course, the primary focus is on increasing keyboarding speed and accuracy, the formatting of college level documents such as personal and business letters, reports, and agendas with tables. Emphasis is also given to proofreading, spelling, punctuation, basic grammar, numbers, symbols, and the continued development of keyboarding speed and accuracy. You will also be introduced to voice-recognition software. You may elect a letter grade or pass/fail. For instructor consent, please contact spieper@madison.k12.wi.us if there is a desire to test out of the keyboarding prerequisite.</p>		

INFORMATION TECHNOLOGY:

Computer Hardware/Software Essentials

BUS 133

½ Credit

Elective 9, 10, 11, 12

Prerequisite: None

This course presents an in-depth exposure to Personal Computer (PC) hardware and operating systems. Students learn the functionality of hardware components as well as suggested best practices for safely maintaining and repairing PC's. Through hands on activities and labs, students learn how to assemble and configure a computer, install and work with an operating system, connect up to a network, and troubleshoot computer hardware and software problems using a variety of diagnostics. This course prepares students for CompTIA's A+ Essentials exam and is the equivalent of the first course in the Information Technology programs at Madison Area Technical College. Students can take this course for Transcribed Credit with MATC as well as receiving high school credit.

Microsoft Office Suite

BUS 310

1 Credit

Elective 9, 10, 11, 12

Prerequisite: None

This course provides a full year of computer instruction in Word, Excel, Access, and PowerPoint. See the individual course descriptions below for more details about each program

The following computer courses meet for one semester and incorporate two quarter credit courses of the computer topics represented by the computer logo. Each topic is taught over a 9-week quarter.

BUS 330 Word (AS) and Excel (AS)

BUS 340 Access (AS) and PowerPoint (AS)

BUS 350 PowerPoint (AS) and Web Development & Email Systems

BUS 360 Web 2.0--21st Century Literacies and Adobe Dreamweaver

Word (AS)

¼ Credit

Elective 9, 10, 11, 12



Prerequisite: None

Microsoft Word is a full-featured word processing program that allows you to create and revise professional looking documents. Word has many features designed to simplify the production of documents; these features are introduced through the following units: 1) creating and editing a document; 2) creating a research paper; 3) creating a resume and cover letter; 4) creating a document with a table, chart, and watermark; 5) generating form letters, mailing labels, envelopes, and directories; 6) creating a professional newsletter. This course may be taken for pass/fail credit.

Excel (AS)**¼ Credit****Elective 9, 10, 11, 12**

Prerequisite: None

Microsoft Excel is a powerful spreadsheet program that allows you to organize numeric data, complete calculations, graph data, make decisions, develop professional looking reports, and import real-time data from the Internet. Your experience with Excel consists of the following units: 1) worksheet and embedded chart; 2) formulas, functions, formatting, and web queries; 3) what-if analysis, charting, and working with large worksheets; 4) financial functions, data table, amortization schedules, and hyperlinks; 5) creating, sorting, and querying a worksheet database; 6) working with multiple worksheets in workbooks. This course may be taken for pass/fail credit.

Access (AS)**¼ Credit****Elective 9, 10, 11, 12**

Prerequisite: None

Microsoft Access is a database management system that allows you to create and process data. Many people unknowingly access database information each day when visiting the library, school resources, and internet resources to name a few. Learn more about how these database management systems are setup to service your everyday needs. Your experience with Access consists of the following units: 1) creating a database; 2) querying a database 3) maintaining a database 4) developing reports, forms, and combo boxes; 5) enhancing forms with object linking and embedding fields, hyperlinks, and subforms; 6) creating an application system using macros, wizards, and the switchboard manager. This course may be taken for pass/fail credit.

PowerPoint (AS)**¼ Credit****Elective 9, 10, 11, 12**

Prerequisite: None

Microsoft PowerPoint is a presentation graphics program that allows you to produce professional looking interactive audio/visual presentations. PowerPoint allows you the flexibility to make presentations using a data projector attached to a computer system, develop overhead transparencies with handouts, take advantage of the World Wide Web to run virtual presentations over the Internet, and convert presentations into a DVD format. This course may be taken for pass/fail credit.

**Web
Development &
Email Systems****¼ Credit****Elective 9, 10, 11, 12**

Prerequisite: None

This class is a starting point for users seeking to understand the complexities of creating web pages and using an email system. You develop a greater historical understanding of the global expansion and legal concepts that surround the Internet. You gain experience developing web sites using a variety of approaches that include the following: (1) integration of application-based web tools; (2) use of commercial user-friendly web development applications; (3) and a brief introduction to web-based programming that leads you to other courses in the field of computer science. You also gain experience using a variety of features that are practical and useful in association with personal email systems. This course may be taken for pass/fail credit.

**FrontPage Web Page Design
(Microsoft)**

¼ Credit

Elective 9, 10, 11, 12



Prerequisite: None – This course will not be offered for the 2010 – 2011 school year. This course is an introduction to web page design concepts using FrontPage web-authoring software. FrontPage provides the professional design, authoring, data, and publishing tools needed to create dynamic and sophisticated web sites. FrontPage is used to create interactive websites with graphics, animations and components; use tables, frames, forms and templates to enhance web pages; and publish a functional website. This course may be taken for pass/fail credit.

**Web2.0--21st Century Literacies
(Social Networking, Youtube, Wikis & more)**

¼ Credit

Elective 9, 10, 11, 12



YOU ARE A 21ST CENTURY LEARNER, LEVERAGE THE POWER OF THE WEB & APPLY IT TO YOUR ACADEMIC LIVES.

Innovation continues to occur on the internet faster than most can keep pace. This course is designed to directly address the use of technology in the classroom and help students become proficient with a suite of applications and model skills that will help them be better 21st century students. Some of the Web 2.0" technologies covered in this course include: social networking (ex. Facebook), YouTube, wikis, blogs, RSS, smartphones, social bookmarking tools, photo sharing tools, mapping tools, audio and video podcasts, screencasts and everything Google. **Leverage the power of the web! You will blog, collaborate, navigate, analyze, question, think, create, connect and learn! Are you ready?**

Adobe Dreamweaver

¼ Credit

Elective 9, 10, 11, 12



Prerequisite: none

Through this course you will learn about Adobe Dreamweaver by completing projects that provide countless tips and techniques to help you become more productive with the program. Design, develop, and maintain standards-based websites and applications. Build world-class websites and applications with one of the industry's leading web authorizing tools. Adobe®. Dreamweaver software is ideal for web designers, web developers, and visual designers. Your experience with Dreamweaver consists of the following units: Creating a Dreamweaver Web Page and Local Site; Adding Web Pages, Links, and Images; Tables and Page Layout; Forms; Templates and Style Sheets; Layers, Image Maps, and Navigation Bars; Animation and Behaviors; Media Objects; Page Layout with Frames & Dreamweaver Web Photo Album.

Personal Finance	BUS 403	½ Credit	Elective 9, 10, 11, 12
	<p>Prerequisite: None</p> <p>Personal finance is one of the most useful classes a high school student can take in order to prepare for their future. This one-semester class will teach students: how to prepare themselves for the job market, how taxes impact their lives, how to create and use a budget, how to build wealth, the pros and cons of home ownership versus renting, how credit can be both your best friend and your worst enemy, how financial institutions work, and about the different types of insurance. Students will also learn about investing in stocks, bonds, and mutual funds, as well as how to save money and why it is important to save money. Don't be left at a disadvantage in life due to a lack of basic financial knowledge. A Wisconsin state sponsored Youth Apprenticeship program is available in the area of finance. You may also see your building internship coordinator for potential career employment opportunities. ALL STUDENTS WILL PARTICIPATE AT NO COST IN THE National Financial Literacy Challenge, an initiative recommended by the President's Advisory Council on Financial Literacy.</p>		
	Introduction to Accounting Concepts BUS 413	½ Credit	Elective 9, 10
	<p>Prerequisite: None</p> <p>Start learning the international language of business. Many of the same topics taught in the Personal Finance course will be covered from the business perspective. Students will acquire a better understanding about how accounting is tied to a diverse field of careers. Having an accounting background gives students access to a future with 360 degrees of possibilities. Every business in our society is directly impacted by accounting based decisions. All employees are being asked to better understand the fiscal responsibilities and roles associated with the arts, medical, environmental, entertainment, criminal, as well as many additional career areas. By participating in this course, students will have a better understanding of the role that accounting has in our society. Students will be better prepared to succeed in future accounting courses, other business courses, and potentially other educational opportunities.</p>		
	Accounting for Dual Transcribed Credit BUS 420	1 Credit	Elective 11, 12
	<p>Prerequisite: Instructor Approval Required</p> <p>This course is designed to help you understand basic accounting principles and procedures. Objectives include preparation for: (1) an accounting career or any business-related field and (2) using accounting in your everyday life. Major concepts include: recording perpetual business transactions, determining a business profit or loss, preparing financial reports and budgets, and analyzing financial statements for personal and business decisions. Students enrolled in this course will be eligible to receive college transcribed credit pending an MMSD and a Wisconsin technical college annually reaching and fulfilling an agreement on course curriculum, teacher requirements, textbooks, etc. Students will generally know in the first quarter whether transcribed credit is planned to be available for students with a B or better in the course. A Wisconsin state-sponsored Youth Apprenticeship program is available in the area of finance.</p>		

AP Accounting **BUS 430** **1 Credit** **Elective 11, 12**

Prerequisite: none

Recommended: Accounting for Dual Transcribed Credit

This new curriculum is a pilot offering in coordination with the Department of Public Instruction and numerous other states. As a pilot, the AP test and college agreements are still under development. College Level Examination Programs (CLEP) are currently available at four-year universities for Accounting. This course has been developed to match the accounting competencies at the university level. Students that may benefit most from this course may be non-accounting majors or students desiring to minor in business who are required to take at least one college level accounting course.

Business & Personal Law 1 & 2 **BUS 440** **1 Credit** **Elective 11, 12**

Prerequisite: None

If after reading the course description of Business and Personal Law 1 & 2, you wish to take both courses, sign up for BUS 440.

Business & Personal Law 1 **BUS 441** **½ Credit** **Elective 11, 12**

Offered 1st semester

Prerequisite: None

The first semester of the course is designed to give you a background into how laws affect you and your everyday actions, with an emphasis on increasing your legal knowledge and awareness. This involves two major areas of law: **Criminal and Civil Law**. These two areas are presented in terms of how crimes and interference with your personal and property rights (civil law) affect you directly and how they have a spiraling effect on society and business. This course makes you aware of your legal rights, remedies, and obligations. You may elect a letter grade or pass/fail.

Business & Personal Law 2 **BUS 442** **½ Credit** **Elective 11, 12**

Offered: 2nd semester

Prerequisite: None

This second semester law course provides an in-depth study from both a business and personal point of view of the legal areas of the following topics: (a) **Contract Law** - to include specific study of sales contracts, warranty contracts, apartment lease contracts, contracts of employment and automobile purchase contracts. (b) **Consumer Law** - to include specific study of consumers' legal rights and remedies in various legal situations such as defective products, personal injuries, deceptive selling and advertising practices, and the appropriate agencies to use for consumer assistance. You may elect a letter grade or pass/fail.

International Business	BUS 453	½ Credit	Elective 10, 11, 12
	Prerequisite: None		
	This course provides you with the opportunity to reflect on various business issues as they relate to your academic studies in world languages and social studies. This is a program for developing full participation and responsibility in our worldwide society, promoting social, cultural, political, economic, and ecological awareness. You have the opportunity to focus your studies on a region of interest such as Asia, Latin America, or Europe.		
Medical Office Assistant	BUS 463	½ Credit	Elective 9, 10, 11, 12
	Prerequisite: Keyboarding or instructor approval		
	This inter-departmental course is team-taught by the Family and Consumer Education and Business Education Department. You spend one quarter in each department and may select the program by signing up for BUS 463 or FCS 463.		
	This course is for anyone interested in a health care career that does not involve direct patient care. It prepares you for work in office settings for an individual doctor, clinic, hospital, or long-term care agency. Career opportunities also extend to employment wherever knowledge of medical terminology, professional procedures, and ethics is required such as public health, insurance companies, etc. Topics include the medical office, the application of technology and computers in healthcare, medical records and transcription, insurance and coding, related medical terminology, communication and organizational skills, professionalism, and career studies.		
Desktop Publishing	BUS 470	1 Credit	Elective 9, 10, 11, 12
	Prerequisite: None		
	BE A PART OF MEMORIAL HIGH SCHOOL'S YEARBOOK AND/OR NEWSPAPER STAFF. This course is driven by student decision making along with rigorous curriculum to learn industry standard software packages, production processes, and deadline achievement. The focus is producing a quality publication for the student body. Students learn to write concise body copy/captions, understand color printing theory, develop photographic composition, design layouts using modern dynamic concepts, and are introduced to advertising concepts to make their publication a success. This course is great for those students who work well independently and within a team environment. Independent projects will allow students to identify specific works of interest while creating a portfolio of real-world projects that may incorporate event programs, newsletters, and other school related publications. A major student goal is to obtain skills that are beneficial and align with potential job goals while building interpersonal skills that are socially advantageous.		

Business, Information Technology, and Career Skills BUS 510 1 Credit Elective 11, 12

Prerequisite: Students are expected to be currently employed or seeking future employment
YOU'RE HIRED! Words everyone wants to hear when interviewing. This course is especially valuable for anyone interested in a business career. Units covered include desktop publishing, multimedia presentations, internet usage, records management, telecommunications, international business, banking, human relations and further skill development with computer-based technologies. This project-oriented course stresses a business-like atmosphere concluding with a unit on managing and running your own business. **NOTE: This cooperative school/work course must be taken concurrently with Business and Career Internship – BUS 520.**

Business and Career Internship BUS 520 1 Credit Elective 11, 12

Prerequisite: Students must complete a program application and interview
GET PAID, RECEIVE CREDIT AND GAIN EXPERIENCE! Learn while you earn by linking your classroom knowledge to paid employment in a business environment in the Madison area. Build decision making and leadership skills while applying classroom knowledge in a real business setting. You may be employed in areas relating to Accounting, Business Support Services, Finance, Information Technology, Law, Marketing, and Real Estate to name a few. Students that have employment interests outside the business area will be interviewed by instructors to determine career interests and suitable entry level opportunities. These are employment opportunities students would have difficulty securing on their own. At the completion of the course and 180 on-the-job-hours, you will be awarded a State Certified Employability Skills Certificate. This course may be scheduled outside the regular school day, providing you with a method for earning 2 credits for one period of classroom instruction.
NOTE: This cooperative school/work course must be taken concurrently with Business, Information Technology, and Career Skills (BUS510).

COMPUTER SCIENCE (see <http://memorialweb.madison.k12.wi.us/business> for additional details about these course offerings)

Introduction to Programming	CMP 110	1 Credit	Elective 9, 10, 11, 12
	Suggested: Web Development & Email Systems Prerequisite: none This is the entry level course for anyone wishing to learn to write and run computer programs. No previous programming experience is necessary; however, you are expected to have a basic knowledge of graphic user interfaces. You learn how to program in JAVA over the course of two semesters, with an introduction to advanced software engineering techniques in different programming environments. A final project is done at the end of the year.		
Computer Science A AP	CMP 120	1 Credit	Elective 10, 11, 12
	Prerequisite: Introduction to Programming or teacher's signature This course emphasizes structured program design and object-oriented software engineering, using the Java programming language. You have the opportunity to take the AP Computer Science exam in the spring. The class progresses through to advanced programming techniques, with a final project at the end of the year. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html		
Computer Hardware/ Software Essentials	CMP 133	½ Credit	Elective 9, 10, 11, 12
	Prerequisite: None This course presents an in-depth exposure to Personal Computer (PC) hardware and operating systems. Students learn the functionality of hardware components as well as suggested best practices for safely maintaining and repairing PC's. Through hands on activities and labs, students learn how to assemble and configure a computer, install and work with an operating system, connect up to a network, and troubleshoot computer hardware and software problems using a variety of diagnostics. This course prepares students for CompTIA's A+ Essentials exam and is the equivalent of the first course in the Information Technology programs at Madison Area Technical College. Students can take this course for Transcribed Credit with MATC as well as receiving high school credit.		

**Networking
Concepts 1**

CMP 143

½ Credit

Elective 10, 11, 12

Prerequisite: Computer Hardware/Software Essentials or Instructor Approval
This is the first class of a sequence of 4 using the Cisco's Networking Academy curriculum (Discovery). This unit is entitled Setting up a Home or Small Business Network. Students will do on-line and lab work to learn how to plan, setup and install, configure, and maintain a network. Successful completion of the classes and passing of the certification exam could result in the student receiving the Cisco Certified Network Associate (CCNA) certification or the Cisco Certified Network Entry Network Technician (CCNET) designation.

**Networking
Concepts 2**

CMP 153

½ Credit

Elective 10, 11, 12

Prerequisite: Networking Concepts I
This is the second class of sequence of 4 using Cisco's Networking Academy curriculum. This unit is entitled Working at a Small Business or ISP. Through the on-line curriculum and hands-on labs, students will learn how to configure and troubleshoot a variety of Cisco equipment, plan and set up a wired infrastructure to support network traffic, and configure servers for sharing resources. Successful completion of the classes and passing of the certification exam could result in the student receiving the Cisco Certified Network Associate (CCNA) certification or the Cisco Certified Network Entry Network Technician (CCNET) designation.

ENGLISH/READING

Memorial offers a sequential English program, skills and concepts build from one year to the next. Once you complete the Memorial 9-12 Language Arts curriculum, you should be an effective consumer and producer of language for academic purposes and everyday living.

English 9	ENG 110	1 Credit	Required 9
	Prerequisite: None English 9 introduces basic analysis of literature and offers practice in expository and creative writing. Typical units include exposition, Shakespeare, short literature, creative writing, mythology, the novel, and independent reading.		
Directed English 10	ENG 210	1 Credit	Required 10
	Prerequisite: English 9 and recommendation of English 9 teacher The standard curriculum as described for English 10 is completed and is supplemented as needed by skill-development assignments in reading and writing.		
English 10	ENG 220	1 Credit	Required 10
	Prerequisite: English 9 English 10 curriculum focuses on improving reading, writing, viewing, and speaking skills, as well as group discussion skills. Two novels, one at the start and one at the end of the year, are used to evaluate your success with the critical reading and writing processes. Expository writing skills are emphasized. In addition to novels, feature films are studied as a form of literature, and as the subject matter for improving expository writing skills.		
English 10 Honors	ENG 230	1 Credit	Required 10
	Prerequisite: Recommendation of English 9 teacher English 10 Honors is for students with exceptional reading and writing ability. The standard curriculum as described for English 10 is completed and is supplemented by discussions and projects which require more sophisticated analysis and synthesis skills.		
Directed English 11	ENG 310	1 Credit	Required 11
	Prerequisite: English 10 or Directed English 10 or recommendation of English 10 teacher The standard curriculum for English 11 is completed and is supplemented as needed by skill-development assignments in reading and writing.		

English 11	ENG 320	1 Credit	Required 11
	Prerequisite: English 10 or English 10 Honors, or concurrent enrollment in English 10. The primary focus of English 11 is the study of American literature. Skills are developed through written and verbal analysis of the literature and through the study of the English language and its usage. Writing focus is on the Comparison Contrast Essay. Speaking and listening skills are developed through group discussions and/or panel presentations.		
English Language AP	ENG 330	1 Credit	Required 11
	Prerequisite: English 10 teacher's signature. Check with English 10 teacher for details of required summer project.		
	English Language AP is a college-level introductory course in (1) the writing of formal exposition, analysis, and argumentation and (2) the reading of mature prose, primarily non-fiction, by classic writers. You will share your writing with others in a workshop setting. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html		
Directed English 12	ENG 410	1 Credit	Elective 12
	Prerequisite: English 11 or Directed English 11 or recommendation of English 11 teacher The standard curriculum for English 12 is completed and is supplemented as needed by skill-development assignments in reading and writing.		
English 12	ENG 420	1 Credit	Elective 12
	Prerequisite: English 11 or English 11AP, or concurrent enrollment in English 11. Students read challenging world literature written by distinguished authors. Students continue development of skills in verbal reasoning, literary analysis, and composition. The expository format for college academic writing is emphasized.		
English Literature AP	ENG 430	1 Credit	Elective 12
	Prerequisite: English 11 teacher's signature. The English Literature AP course is a college-level course in the critical analysis of literature. The composition portion stresses that you master the skill of ordering ideas into a logical pattern, developing them with pertinent and valid detail, and communicating them to the reader with clarity and fluency. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html		

Drama 1&2 ENG 240 1 Credit Elective 10, 11, 12

Prerequisite: None
If after reading the course description of Drama 1 and Drama 2, you wish to take both courses, sign up for ENG 240.

Drama 1 ENG 241 ½ Credit Elective 10, 11, 12

Prerequisite: None
Students explore the world of theater, participate in performance and technical aspects, and learn about theater history. Students participate in projects and activities that allow the pursuit of interests in acting, directing, design, and production. You have the opportunity to write, perform, produce, and direct your own film. Students view plays and films, with discussion aimed toward a high level of enjoyment and understanding of the cultural aspects of our society.

Drama 2 ENG 242 ½ Credit Elective 10, 11, 12

Prerequisite: None
Students develop the skills to analyze, describe, and enjoy film as a dramatic form. Students will study several films from the American Film Institute's list of the 100 best films made during the past 100 years. Selections will include some of the best dramatic directors and actors in the American cinema.

Reading Fiction and Nonfiction RDG 120 1 Credit Elective 10, 11

Prerequisite: None
This course is for below average readers who need to improve skills in order to be successful in school. The class focus is on reading comprehension, vocabulary building, and study/reading techniques. The use of high – interest literature is stressed.

Read 50 RDG 150 1 Credit Elective 9, 10

Prerequisite: Student must meet MMSD screening criteria.
This class meets 1 class period per day.
This is an intensive intervention course in which students receive explicit instruction in reading and writing strategies. They also benefit from adaptive instructional computer software and high-interest literature. This course consists of large group strategy instruction, an individualized computer program, independent reading, and small group support. This is the first year of a possible 2 year reading program.

Read 50

RDG 250

1 Credit

Elective 10

Prerequisite: Student must meet MMSD screening criteria.

This class meets 1 class period per day.

This is an intensive intervention course in which students receive explicit instruction in reading and writing strategies. They also benefit from adaptive instructional computer software and high-interest literature. This course consists of large group strategy instruction, an individualized computer program, independent reading, and small group support.

This is the second year of a 2 year reading program.

**Efficient
Reading**

RDG 313

½ Credit

Elective 11, 12

Prerequisite: None

Efficient Reading is an advanced course for average or above-average readers. Students acquire post-secondary learning skills that improve their opportunity for academic success.

Speed reading, college level lecture note taking, textbook use, study strategies, comprehension, test taking, and vocabulary are emphasized. ACT and SAT preparation are included.

ENGLISH AS A SECOND LANGUAGE

The English as a Second Language program at Memorial High School provides classes and tutoring for the 10% of Memorial students who are English Language Learners. Students can sign themselves up for ESL classes or their parents and teachers can recommend ESL classes. Any student whose English ability is at DPI (ELL) Levels 1 through 5 can sign up for ESL classes. Students are offered ESL classes to become proficient in English, and also to advance in other high school academic studies. They can take some ESL and some mainstream classes or all ESL classes. Additionally, there is tutoring support for academic classes. Memorial's ESL department offers support for students with a guidance counselor, classroom teachers, ESL teachers, bilingual resource specialists, and social workers.

When scheduling English Language Learners, the priority is to respect the requirement that students be placed in the least restrictive environment. This means that ELLs should learn other subjects as they are learning English. Primarily, the ESL classes aim to develop skills in English language, reading, and writing, and also to enhance a multicultural awareness of all the varieties of students in the school. In addition, there are ESL classes in English, Social Studies, Science, and Math. Health, Keyboarding, and Computer Applications are taught with the support of Bilingual Resource Specialists. For ELLs who need help in mainstream classes, ESL teachers offer support classes in writing for every grade. ESL also offers Spanish for Spanish Speakers.

Keyboarding	BUS 093	½ credit	Elective 9, 10, 11, 12
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Prerequisite: Completion of Language Arts Two, ZSL220
See course description of BUS 101. This is the same class, modified for the ESL learner.

Newcomer Language Arts	ZSL 210	1 credit	English 9, 10, 11, 12
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Prerequisite: none.
Specifically for students new to the country, this is also a class for beginners who speak little or no English. It provides an introduction to the Madison School District, to Memorial High School and to the English language. There is particular emphasis on mastery of spoken skills, social use of English and vocabulary, life and work skills. Students will learn reading and writing skills as they become relevant to the spoken skills. By the end of the year, students will be able to communicate questions and answers in the present tense. (This is for beginners or students whose test score shows them to be on DPI Level K.0)

Language Arts 2	ZSL 220	1 credit	English 9, 10, 11, 12
<p>Prerequisite: Newcomer Language Arts, DPI Level 1.0 or more, or teacher recommendation.</p> <p>This is a class for students developing communication, school, life and work skills. It is geared towards the high beginner students who understand some English, but do not speak, read or write it. By the end of the year, the students will have been exposed to the Present Simple & Progressive (Continuous), and the Past Simple. They will be able to write a paragraph.</p>			
Language Arts 3	ZSL 230	1 credit	English 9, 10, 11, 12
<p>Prerequisite: Language Arts Two, DPI Level 2.0 or more, or teacher recommendation.</p> <p>This is an intermediate course for students who speak, read and write a limited amount of English. It focuses on language structure and skills. By the end of the year, students will have been exposed to the Present Simple & Progressive, the Past Simple and Progressive, the Present Perfect Simple & Progressive, Gerunds & Infinitives. They will have had to write at least one 5-paragraph essay, have read at least 6 short poems and have learned to identify plot, character and setting. (DPI Level 2)</p>			
Language Arts 9	ZSL 450	1 credit	English 9, 10, 11, 12
<p>Prerequisite: DPI Level 2.5 or higher or teacher recommendation.</p> <p>This course should be taken in conjunction with ESL Lit 9. It provides a sheltered version of the syllabus covered in English 9 at Memorial, for students who can read, write and speak English with comfort, but who do not read or write fast enough to keep up with a mainstream class. It includes most of the English 9 curriculum, but allows the students time to complete the assignments at a more leisureed pace. By the end of the year, in language development, students will have reviewed the English Tense system, including modals, conditionals, passives and clause combination. In literature they will have covered expository writing, mythology, preparing a research speech, Shakespeare, poetry and the novel.</p>			
Newcomer Social Studies	ZSL 310	1 credit	Social Studies 9,10,11,12
<p>Prerequisite: None</p> <p>This is a beginner level course in basic Social Studies vocabulary and skills. The emphasis of this course is Community Studies, with an introduction to Social Studies language and concepts.</p>			

Social Studies 2	ZSL 320	1 credit	Social Studies 9,10,11,12
Prerequisite: Newcomer Social Studies, DPI Level 1 or teacher recommendation This is a class for ESL high beginners. This course covers U.S. History from the first Americans to the Civil War.			
Social Studies 3	ZSL 330	1 credit	Social Studies 9,10,11,12
Prerequisite: Social Studies Two, DPI Level 1.5 or teacher recommendation. This course is the study of World Cultures and Geography.			
Social Studies 9	ZSL 340	1 credit	Social Studies 9,10,11,12
Prerequisite: Social Studies Three, DPI Level 2.5 or teacher recommendation This course is the study of Modern American History from the Civil War to the present.			
Advanced Writing 9	ZSL 410	1 credit	Elective 9
Prerequisite: Registered in English 9 CORE. This course will teach advanced English grammar, reading, and writing skills. It will also support the English 9, Social Studies 9 and ISP curricula. Students will learn complex sentence and verb structures, and also paragraph and essay development. They will have tutoring in literary writing and appreciation, Social Studies, Science, and Math.			
Advanced Writing 10	ZSL 420	1 credit	Elective 10, 11, 12
Prerequisite: Registered in English 10. This course will support the English 10, Social Studies 10, Science, and Math curricula. It will also teach advanced English grammar, reading, and writing skills. Students will learn complex sentence and verb structures, and also paragraph and essay development. They will have tutoring in literary writing and appreciation, Social studies, Science and Math.			
Advanced Writing 11	ZSL 430	1 credit	Elective 11, 12
Prerequisite: Registered in English 11. This course will support the English 11, Social Studies 11, Science and Math curricula. It will also teach advanced English grammar, reading and writing skills. Students will learn complex sentence and verb structures, and also paragraph and essay development. They will have tutoring in literary writing and appreciation, Social Studies, Science, and Math.			

Advanced Writing 12	ZSL 440	1 credit	Elective 12
<p>Prerequisite: Registered in English 12. This course will teach advanced English grammar, reading and writing skills. It will also support the English 12, Social Studies, Science, and Math curricula. Students will learn complex sentence and verb structures, and also paragraph and essay development. They will have tutoring in literary writing and appreciation, Social studies, Science and Math.</p>			
Science Fundamentals	ZSL 610	1 credit	Elective 9, 10, 11, 12
<p>Prerequisite: None This is a beginner level course to introduce students to basic Science vocabulary, skills, and methods.</p>			
ISP ELL Fundamentals	ZSL 650	1 credit	Science 9, 10, 11, 12
<p>Prerequisite: DPI Level 2.5, Passed Biology Fundamentals, or teacher recommendation. This course is available for intermediate level students as an option for fulfilling science credit requirements. The class will cover the scientific method, cells, & cellular processes, human systems and the kingdoms of life. Students will learn from textbooks, labs, class handouts, and activities.</p>			
Biology Fundamentals	ZSL 660	1 credit	Science 9, 10, 11, 12
<p>Prerequisite: Passed Science Fundamentals or DPI Level 2 ISP is the foundation science course at Memorial, where the major concepts and skills used in all other science courses are introduced. This laboratory-based class illustrates the nature of science by examining the connections among the major disciplines of science, such as physics, chemistry, biology, geology, and astronomy. The rules of nature are deduced from the analysis of data generated from frequent laboratory experiments. In addition to being the foundation science course for future course work here at Memorial, the content is consistent with the Wisconsin State Science Standards. This class is taught by a bilingual teacher with bilingual resource specialist support.</p>			
Applied Math	ZSL 720	1 Credit	Elective 9, 10, 11, 12
<p>Applied Math is designed to help Newcomer students understand the language of math and math-related topics such as time, measurement, money, temperature, etc. The class also serves to review Pre-Algebra skills focusing on the vocabulary of Addition, Subtraction, Multiplication, Division, Percents, Fractions and Decimals.</p>			

Algebra 1	ZSL 730	1 Credit	Required 9, 10, 11, 12
<p>Prerequisite: A passing grade in 8th grade math. The topics covered in Algebra 1 will include multiple representations of linear, quadratic, polynomial, and exponential functions. There is an emphasis on problem solving. This course satisfies the MMSD graduation requirement of one credit of mathematics in Algebra. A scientific calculator is required. A graphing calculator (TI-83 or TI-84) is recommended.</p> <p>* Students will have the benefit of a bilingual teacher and a bilingual resource specialist in the classroom.</p>			
Geometry	ZSL 740	1 Credit	Required 10, 11, 12
<p>Prerequisite: Algebra 1 or Algebra 1A, and the recommendation of your Algebra 1 or Algebra 1A teacher. This course includes a combination of plane, coordinate, and solid geometry with emphasis on logical reasoning, problem solving, the application of algebraic techniques and writing geometric proofs. Topics covered include fundamental assumptions, concept of formal proof, congruency, similarity, parallel and perpendicular lines, polygons, circles, 3-D geometry, area, volume, transformations, and right triangle relations. The Geometry requirement for graduation and college entrance is satisfied by this course. A scientific calculator is required.</p> <p>*Students will have the benefit of a bilingual teacher and a bilingual resource specialist in the classroom.</p>			
Spanish for Spanish Speakers 1 and 2	ZSL 810	1 credit	Elective 9, 10, 11, 12
<p>Prerequisites: Native speakers of Spanish or teacher recommendation This course is a heritage language class that celebrates the linguistic, literary and cultural legacy of Latino students at the same time as it helps ease their adaptation to Memorial and local life. Just as English speaking students must continue to develop their use of English throughout their school years, so too, should their Spanish-speaking counterparts. To those ends, course work revolves around texts, literature and film chosen to stimulate discussion and writing that often includes cross-cultural analysis. Class is also available three days per week.</p>			
Newcomer Literature	ZSL 910	1 credit	Elective 9, 10, 11, 12
<p>Prerequisite: none. This course MUST be taken in conjunction with ESL Newcomer Language Arts. It will strengthen student skills in English language reading and vocabulary. Students will be exposed to a variety of reading strategies. Materials selected for this course relate to themes of immigration, American culture and history, and include literature, popular song lyrics and close-captioned videos. Evaluation will be based on assignment completion, class participation and written assessments.</p>			

Literature 2	ZSL 920	1 credit	Elective 9, 10, 11, 12
<p>Prerequisite: ESL Introduction to Literature 1 or teacher recommendation. This course MUST be taken in conjunction with ESL Language Arts Two. It is a high beginner reading course intended for students who have very limited ability to read in English. It introduces concept skills such as Plot and Main Characters. Students will learn how to read simple texts and to work independently on their assignments.</p>			
Literature 3	ZSL 930	1 credit	Elective 9, 10, 11, 12
<p>Prerequisite: ESL Introduction to Literature 2 or teacher recommendation. This course MUST be taken in conjunction with ESL Language Arts Three. It is an Intermediate ESL reading class for students who read short, simple materials with ease, but need more practice in reading longer texts. Students will read a variety of simplified texts and books. They will identify the difference between fiction and non-fiction; learn how to write a book report, how to compare film-productions with books, and how to isolate features of setting, character and plot.</p>			
Literature 9	ZSL 940	1 credit	Elective 9, 10, 11, 12
<p>Prerequisite: ESL Language Arts Three, DPI Level 3.0 or more, or teacher recommendation. This class MUST be taken in conjunction with ESL English 9 (ZSL 510). Students will cover all the textbooks from mainstream English 9 that are not covered in ESL English 9 (mainly 20th century fiction). By the end of the year, students will also have reviewed all the Verb Tenses, including gerunds, modals and conditionals. They will have had one introduction to the Passive. They will have written at least five 5-paragraph essays and will have been required to discuss a variety of thought-provoking reading materials. They will also have had some experience in research in the LMC.</p>			

FAMILY AND CONSUMER SCIENCES

Do you want exposure to real-life experiences that prepare you for global diversity beyond the school walls? Do you want to practice skills that focus on improving relationships and working with people? Welcome to Family and Consumer Sciences (FCS). FCS is a department that offers unique courses and hands-on activities. FCS provides opportunities for leadership development and advanced standing within business and the community in the following industries:

- Child Care and Education
- Culinary Arts
- Family/Community Service
- Health Care
- Hospitality and Entertainment
- Retail/Merchandising

Culinary Basics	FCS 113	½ Credit	Elective 9, 10, 11, 12
	Prerequisite: None Learn basic food preparation and good nutrition. Topics also include healthy food selection and diet, microwave cooking, basic food preparation, introduction to equipment, menu planning, and table service.		
International Cuisine	FCS 123	½ Credit	Elective 9, 10, 11, 12
	Prerequisite: None Sample food and culture around the world cooking international cuisine. Explore geographical regions and ethnic cuisine.		
Gourmet Chef 1 & 2 ProStart	FCS 130	1Credit	Elective 10, 11, 12
	Prerequisite: One year of Science and Algebra 1 Elect both semesters. Streamline your study of culinary arts by taking Gourmet Chef ProStart all year long. We accommodate vegetarians.		
Gourmet Chef 1 ProStart	FCS 131	½ Credit (1st semester)	Elective 10, 11, 12
	Prerequisite: One year of Science and Algebra 1 Turn and interest in foods into an art or an occupation. Practice cooking techniques that include stone-baked pizzas, appetizers, egg cookery I, breakfast foods, desserts, pastries, sandwiches, poultry/meats, and herbs/spices. Capstone projects include seasonal gourmet buffets and catered school events. Affiliation with the National Restaurant Association and ProStart instructor, offers a variety of scholarships and entry into culinary competitions. We accommodate vegetarians.		

Gourmet Chef 2 ProStart	FCS 132	½ Credit (2nd semester) Elective 10, 11, 12
	<p>Prerequisite: One year of Science and Algebra 1</p> <p>Sharpen your culinary skills preparing restaurant quality cuisine. Fine tune your sense of flavor. Cooking techniques include cake decorating, stone-baked artisan yeast breads, salads, soups, sauces, poultry/meats, and side dishes. Capstone projects include seasonal buffets and catered school events. You learn from demonstrations by guest speakers and a field trip to local gourmet businesses. We accommodate vegetarians.</p>	
Family Life Ed - Child Development	FCS 210	1 Credit Elective 10, 11, 12
	<p>Prerequisite: Sophomore status is REQUIRED by the Department of Public Instruction for ACCT certificate</p> <p>1st Semester</p> <p>Family Life tackles communication skills, relationship choices, human sexuality issues, family crisis, pregnancy/birth and the newborn, personal finance, and many other interesting real life issues. This class has many hands on opportunities, including the option to be a part of a three-day parenting simulation with "Baby Think It Over."</p> <p>2nd Semester</p> <p>In Child Development you study the child from 1-5 years of age. The class operates a play school for 5 weeks in which each student is expected to observe and teach preschoolers.</p> <p>You may earn the <u>Assistant Child Care Teacher</u> (ACCT) certificate through Family Life/Child Development if you meet grade and attendance requirements. This certificate, issued by the Dept of Public Instruction (DPI), allows you to work in child care centers at 17 instead of 18 years of age. Seniors may earn credit for this paid work experience through JMM Internship.</p> <p>The ACCT may entitle you to 3 elective credits at MATC if you meet grade and attendance requirements.</p> <p>Seniors who are 17 and who have already acquired the ACCT may receive the second-level Department of Health & Family Services employment designation as a child care teacher. You may enroll in JMM Employment Study and JMM Internship and will be placed in an area child care center, where you will work and be paid while completing the State Skills in Child Services.</p>	
Community Studies	FCS 223	½ Credit Elective 11, 12
	<p>Prerequisite: Junior or Senior</p> <p>Prepare for leadership roles in schools, the community and as future teachers. Be a positive role model and interact with younger kids. Teaching teams are trained to deliver a drug and alcohol prevention curriculum, create fun, hands-on educational activities, and become peer educators for sixth graders. Project Aware is an exciting collaboration between Toki, Jefferson, and Spring Harbor Middle schools. Experience the impact of a teaching career.</p>	

Fashion Design **FCS 233** **½ Credit** **Elective 9, 10, 11, 12**

Prerequisite: None
Fashion design is a highly technical industry, requiring great attention to detail, patience and ability to work as a team. Students will study textiles and fabrics, research and understand designers and trends, and design and construct patterns. In addition, students will learn and improve upon sewing and fabric construction skills while working on garment and accessory projects such as handbag/tote, scarves, hats, skirts, and dresses.

There will be a lab fee of \$20 for this course and certain fabrics will cost an additional fee.

JMM Employment **FCS 310** **1 Credit** **Elective 12**

Prerequisite: Senior
Polish the communication skills and personal marketing strategies required for successful career entry. Guest speakers, field trips, school, community, and global service projects provide hands-on activities for you to network with professionals.
JMM Employment must be taken concurrently with JMM Internship. (See below).

JMM Internship **FCS 320** **1 Credit** **Elective 12**

Prerequisite: Senior
Earn while you learn! Work a minimum of 15 hours per week in a job chosen by you and earn credit. You are employed, paid and trained by a cooperating business in an entry-level position related to your career interest(s). Gain valuable professional work-experience as you prepare for life after high school. JMM Internship must be taken concurrently with JMM Employment. (See above).

Enrollment in either Health Science Occupations 1 or 2 and/or interest in a health-related career allow you to become a member of Health Occupations Students of America (HOSA), a national organization committed to providing leadership training, service work, and competitive events to test healthcare knowledge and skills at state and national conferences.

Health Science Occupations 1 & 2 **FCS 410** **1 Credit** **Elective 10, 11, 12**

If after reading the course description of Health Science Occupations 1 & 2, you wish to take both courses, sign up for FCE 410.

Health Science Occupations 1 **FCS 411** **½ Credit** **Elective 10, 11, 12**

Prerequisite: None
If you are considering a medical or health career, this semester course explores the 300 occupations in this field to see the ones you may be best suited for. You study health care trends, medical terminology, infection and disease control, legal issues, medical ethics, and the use of technology in health care.

**Health
Science
Occupations 2**

FCS 412

½ Credit

Elective 10, 11, 12

Prerequisite: Health Science Occupations 1

Hands-on activities, including CPR and First Aid (for certification if desired), body mechanics and patient transport, reporting, charting, etc., give you a sampling of the tools and skills required in health care careers, as well as help you become a better consumer of health care information, products, and services. You study safety issues, medical terminology, basic physiology and anatomy, therapeutic diets, communication issues dealing with the aged, disabled, or terminally ill, and job-seeking skills. Lab fee \$10 for CPR training materials.

**Nursing
Assistant**

FCS 423

¾ Credit

Elective 11, 12

Prerequisite: Successful completion of Health Science Occupations or instructor signature required. This course is recommended for students 16 years old and above.

This course is team taught by a vocationally certified teacher and a registered nurse.

Students learn and apply care giving skills in lab and professional settings. Students seeking employment in any health care field will find this a valuable first step! Nursing Assistant is a pre-requisite to all Wisconsin Technical College System nursing programs and highly regarded in 4-year college admissions. Units of study and skills include: human development, infection control, patient transfer, health and disease, personal care and hygiene, nutrition, and special care.

To meet certification requirements, students must complete clinical experiences in a local health care agency arranged by the teacher, maintain a grade of 75% or better, and meet attendance requirements. The high school is not responsible for transportation. A medical checkup, TB skin tests, successful background check, and \$115 certification test fee are required. Class meets for additional hours of lab and clinical time on weekends, evenings, and/or breaks.

**Medical
Office Assistant**

FCS 463

½ Credit

Elective 9, 10, 11, 12

Prerequisite: Keyboarding **or** instructor approval

This inter-departmental course is team-taught by the Family and Consumer Education and Business Education Department. You spend one quarter in each department and may select the program by signing up for FCE 463 or BUS 463.

This course is for anyone interested in a health care career that does not involve direct patient care. It prepares you for work in office settings for an individual doctor, clinic, hospital, or long-term care agency. Career opportunities also extend to employment wherever knowledge of medical terminology, professional procedures, and ethics is required such as public health, insurance companies, etc. Topics include the medical office, the application of technology and computers in healthcare, medical records and transcription, insurance and coding, related medical terminology, communication and organizational skills, professionalism, and career studies.

GENERAL STUDIES

Human Relations

GEN 113

½ Credit

Elective 10, 11, 12

Prerequisite: None

This course gives you the opportunity to get to know who you are, why you are a unique individual, and how you can become the person you would like to be. You also learn skills that aid you in small group communications and conflict resolution. Finally, you are exposed to societal problems such as discrimination, prejudice, labeling, and stereotyping. The major goal is to learn from one another by relating personal experiences. The atmosphere in this class is crucial to its success; so we keep it relaxed, confidential, and accepting.

Interdisciplinary Honors Seminar

GEN 213

¼ Credit

Elective 9

This one-semester interdisciplinary class meets two days one week and three days the next, often opposite Phy Ed 9. The class provides an environment for motivated students to interact with faculty and one another, encouraging sophisticated intellectual understanding of complex ideas, and demonstrating how different disciplines approach significant concepts and issues.

MARKETING

Advanced Standing credits may be granted by MATC. Check with your instructor.

Marketing **MRK 110** **1 Credit** **Elective 10, 11, 12**



Prerequisite: None

You learn about marketing, retailing, and service activities. Topics include marketing, free enterprise, selling, loss prevention, visual merchandising, advertising, and career management. Activities include small group discussions, guest speakers, and hands-on projects. Upon completion of the course you should be qualified for an entry-level position in business or continuation into a college marketing/business program.

Starting Your Own Business **MRK 123** **½ Credit** **Elective 10, 11, 12**



Prerequisite: None

Have you thought about starting your own business? Would you like to learn the steps in creating a small business or write your own business plan and present it to business owners? Learn about developing your business idea, location, marketing, financing, managing people, and legal guidelines. You will practice business and economic principles in this interactive course that will take you beyond the school building and into the business community. This is a great course for college-bound students pursuing business or marketing or students thinking about opening a business right after high school. The course is team taught with community, business, and government leaders through the Business & Education Partnership and Junior Achievement.

Marketing Management **MRK 130** **1 Credit** **Elective 12**



Prerequisite: Marketing **and** teacher's signature

Taken with Marketing Internship, this course gives special attention to human relations, sales promotion, and management. Emphasis is on topics relating to marketing research, entrepreneurship, human relations, and sports/entertainment. The course is offered for anyone interested in sales, marketing, and business management.

Marketing Internship **MRK 140** **1 Credit** **Elective 12**



Prerequisite: Marketing **and** teacher's signature

Taken with Marketing Management, this course involves you in employment and supervision by a cooperating business firm, according to an organized training program related to your career interests. You work a minimum of 10-15 hours per week to gain experience in areas such as specialty stores, department stores, financial services, hotels/motels, sports products, service businesses, and other marketing occupations. You are employed with the assistance of the instructor and must provide your own transportation to the place of employment.

**Sport &
Entertainment
Marketing**

MRK 153

½ Credit

Elective 10, 11, 12

Prerequisite: None

Billions of dollars are spent each year on sports and other forms of entertainment. This fascinating service area is a growing industry, which employs athletes, musicians, stage crew, advertising agents, promotion agents, personal attendants, sports agents, even planners, and numerous other related professionals. The purpose of this course is to provide students with the fundamental principles and concepts identified with sports and entertainment marketing, and to develop critical thinking and decision-making skills through the application of sports and entertainment marketing principles in these industries. Classroom instruction will be reinforced through the use of outside guest speakers, case studies, field trip experiences, job shadowing, current periodicals, computers, in-house projects, and constructive/discovery learning.



MATHEMATICS

COMMON MATHEMATICS COURSE SEQUENCES (This is a suggested guide-Other combinations are possible)

Grade 9	Grade 10	Grade 11	Grade 12
Algebra 1	Geometry	Algebra 2/Trig	Algebra 3
Algebra 1	Geometry	Algebra 2/Trig	Statistics/AP Statistics
Algebra 1	Geometry	Algebra/Geometry Survey	Algebra 2/Trig
Algebra 1	Geometry	Algebra/Geometry Survey	Algebra Concepts for Transcribed Credit
Algebra 1	Geometry		Algebra Concepts for Transcribed Credit
Algebra 1 Honors	Geometry Honors	Algebra 2/Trig Honors	Algebra 3 Honors
Algebra 1 Honors	Geometry Honors	Algebra 2/Trig Honors	Statistics/AP Statistics
Algebra 1 Honors	Geometry Honors	PreCalculus	Calculus AB - AP
Algebra 1 Honors	Geometry Honors	PreCalculus	Statistics/AP Statistics
Geometry Honors	Algebra 2/Trig Honors	Algebra 3 Honors	Calculus AB - AP
Geometry Honors	Algebra 2/Trig Honors	Algebra 3 Honors	Statistics/AP Statistics
Geometry Honors	Algebra 2/Trig Honors	Statistics/AP Statistics	
Geometry Honors	PreCalculus	Calculus AB - AP	Calculus BC - AP
Geometry Honors	PreCalculus	Calculus AB - AP	Statistics/AP Statistics
Geometry Honors	PreCalculus	Statistics/AP Statistics	

Algebra 1 **MAT 110** **1 Credit** **Required 9, 10, 11, 12**

Prerequisite: 8th grade math.

The topics covered in Algebra 1 will include multiple representations of linear, quadratic, polynomial, and exponential functions. There is an emphasis on problem solving. This course satisfies the MMSD graduation requirement of one credit of mathematics in Algebra. A scientific calculator is required. A scientific calculator is required.

Algebra 1 Honors **MAT 120** **Credit** **Elective 9**

Prerequisite: A grade of A or B in 8th grade math or Algebra 1 **and** teacher recommendation. This course is for students who have a good mastery of math. All of the traditional topics of Algebra 1 are covered in greater depth and at an accelerated pace. Additional topics are also included. A scientific calculator is required.

Geometry	MAT 210	1 Credit	Required 10, 11, 12
<p>Prerequisite: Algebra 1 or Algebra 1Honors, and the recommendation of your Algebra 1 or Algebra 1Honors teacher.</p> <p>Note: Freshmen should select Geometry Honors. If you are not recommended for Geometry Honors, select Algebra 1Honors or Algebra 1.</p> <p>This course Includes a combination of plane, coordinate and solid geometry. There is an emphasis on logical reasoning, problem solving, the application of algebraic techniques and writing geometric proofs. A scientific calculator is required.</p>			
Geometry Honors	MAT 220	1 Credit	Elective 9, 10
<p>Prerequisite: Algebra 1Honors and the recommendation of your Algebra 1Honors teacher.</p> <p>Note: This course is recommended for students who intend to take Algebra 2/Trig Honors or Pre-Calculus.</p> <p>All of the topics of Geometry are covered at a greater depth and at an accelerated pace. Additional topics are also included. A scientific calculator is required.</p>			
Algebra/Geometry Survey	MAT 910	1 Credit	Elective 11, 12
<p>Prerequisite: Algebra 1 and Geometry and the recommendation of your Geometry teacher.</p> <p>Note: This course does not complete the graduation requirement of Algebra 1 and Geometry. It is a third year elective math course but is not meant to be a substitute for Algebra 2. This course is recommended for students who have completed their Algebra/Geometry requirement by attending Summer School. Not all colleges and universities accept this as a math credit beyond Geometry. Please check with the schools you are thinking applying to.</p> <p>The topics covered in Algebra 1 and Geometry are reviewed and expanded in order to enhance skills and improve the understanding of concepts for students who may not be prepared for Algebra 2. Additional topics from the Algebra 2 curriculum will be introduced as time permits. A scientific calculator is required.</p>			
Algebra 2/Trig	MAT 310	1 Credit	Elective 11, 12
<p>Prerequisite: Algebra 1 or Algebra 1Honors, Geometry and the recommendation of your Geometry teacher.</p> <p>Note: Freshman and Sophomores who have completed Geometry Honors should enroll in Algebra 2/Trig Honors or Pre-Calculus per teacher recommendation. This course is not recommended for students who have completed their Algebra/Geometry requirement by attending Summer School.</p> <p>The topics covered in Algebra 1 and Geometry are reviewed and expanded upon. Additional topics introduced are manipulating, graphing, and solving polynomial expressions, logarithms and exponential relationships,, complex numbers, series and sequences and advanced concepts of trigonometry. A scientific calculator is required. A graphing calculator (TI-83 or TI-84 series) may be useful but cannot be used on all exams.</p>			

Algebra 2/Trig Honors	MAT 320	1 Credit	Elective 10, 11, 12
<p>Prerequisite: Geometry Honors with a B or better average and the recommendation of your Geometry Honors teacher.</p> <p>The topics covered in Algebra 1 Honors and Geometry Honors are reviewed and expanded upon. All of the topics of Algebra 2/Trig are covered at greater depth and at an accelerated pace. Additional topics are also included. A scientific calculator is required: A graphing calculator (TI-83 or TI-84 series) may be required by some teachers.</p>			
Algebra 3	MAT 410	1 Credit	Elective 12
<p>Prerequisite: Algebra 2/Trig or Algebra 2/Trig Honors with a C or better average and the recommendation of your Algebra 2/Trig or Algebra 2/Trig Honors teacher.</p> <p>This is an excellent preparation for a college precalculus course. In this course topics from Algebra 2/Trig are reviewed and expanded. A scientific calculator is required: A graphing calculator (TI-83 or TI-84 series) may be required by some teachers.</p>			
Algebra 3 Honors	MAT 420	1 Credit	Elective 11, 12
<p>Prerequisite: Algebra 2 /Trig Honors with a B or better average and the recommendation of your Algebra 2/Trig Honors teacher.</p> <p>The topics covered in Algebra 2/Trig are reviewed and expanded. All the topics Algebra 3 are covered at greater depth and at an accelerated pace. Additional topics are also included. Additional material, intended to prepare students for Calculus is covered. A scientific calculator is required: A graphing calculator (TI-83 or TI-84 series) may be required by some teachers.</p>			
Algebra Concepts for Transcribed	MAT 510	1 Credit	Elective 12
<p>Prerequisite: Successful completion of Algebra 1 and Geometry or Integrated Math 1 Credit and 2.</p> <p>Algebra Concepts for Transcribed Credit provides a thorough coverage of topics in an introductory college-level algebra course. The course focuses on skills and techniques used to simplify and solve linear, polynomial, exponential, radical and rational expressions and equations, with an emphasis on solving problems with real-world applications. Upon completion of this course with a passing grade, you will receive both 1 elective mathematics credit from MMSD and 3 technical college credits from a Wisconsin technical college. You will receive an official transcript from the technical college verifying the grade and the granting of technical college credit. There is no cost to you for the college credits. 1 credit + 3 technical college credits.</p> <p>* TC - Transcribed credit is dependent on the annual renewal and successful completion of an agreement for credit between MMSD and a Wisconsin technical college.</p>			

Pre-Calculus MAT 360 1 Credit Elective 10, 11

Prerequisite: An “A” average in both Algebra 1 Honors and Geometry Honors **and** teacher recommendation.

This is an accelerated course for those who intend to take Calculus in high school. The content includes the topics of Algebra 2/Trig Honors and Algebra 3 Honors. Very little time is spent reviewing material learned in Algebra 1 Honors or Geometry Honors. A graphing calculator is required. A TI-83 or TI-84 series is strongly recommended since this model will also be used in Calculus. A scientific calculator is also required.

Statistics MAT 920 1 Credit Elective 11, 12

Prerequisite: Algebra 2/Trig with a grade of “C” or better **and** the recommendation of your Algebra 2/Trig teacher.

This course introduces you to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This is an excellent preparation for students interested in pursuing careers in the social sciences. Broad conceptual themes involve exploring data, planning a study, anticipating patterns, and using statistical inference. A TI-83 or TI-84 series graphing calculator is required.

Statistics AP MAT 540 1 Credit Elective 11, 12

Prerequisite: Algebra 2/Trig with a grade of “B” or better **and** the recommendation of your Algebra 2/Trig teacher.

Statistics AP follows the AP curriculum in order to prepare you for the Statistics AP exam. The course is non-calculus in its orientation, with a major focus on data analysis. A TI-83 or TI-84 series graphing calculator is required. More information is available at:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.htm>

Calculus AB - AP MAT 520 1 Credit Elective 10, 11, 12

Prerequisite: PreCalculus or Algebra 3 Honors with a grade of “B” or better **and** teacher recommendation.

Calculus AB (AP) is an Advanced Placement course which prepares you for the Advanced Placement AB exam. The emphasis is on the basic concepts of differential and integral calculus as well as on problem solving techniques. This course is the equivalent of MATH 221 at the UW-Madison. You must pass a placement/credit exam to receive college credit for this course. A TI-83 or TI-84 graphing calculator is required. TI-89 or TI InSPire calculators are not allowed for use on tests. More information is available at:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

Calculus BC – AP MAT 530 1 Credit Elective 11, 12

Prerequisite: Recommendation of Calculus AB (AP) teacher

This is the continuation of MAT 520 and prepares you for the Advanced Placement BC examination. You are expected to take the AP exam. This course is equivalent to Math 222 at the UW-Madison. A TI-83 or TI-84 graphing calculator is required. TI-89 or TI-InSPire calculators are not allowed for use on tests. More information is available at:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>



MUSIC

BAND

Concert Band 1 MUS 110

1 Credit

Elective 9, 10

Prerequisite: Middle school band **and/or** demonstrated ability to play a wind or percussion instrument, and the ability to read music

This ensemble is open to grade 9 students or less-experienced students who play a wind or percussion instrument. Stress is placed on increasing technical ability, tone production, and perception of quality performance. Attendance at all functions is required for credit. Placement in this ensemble is by audition, and/or instructor approval.

Concert Band 2 MUS 120

1 Credit

Elective 9, 10

Prerequisite: Advanced middle school performer **and/or** demonstrated ability to play a wind or percussion instrument, **and** teacher's signature

This ensemble is open to all who demonstrate a measure of success and understanding on a wind or percussion instrument. Stress is placed on increasing technical ability, tone production, and perception of quality performance. Attendance at all functions is required for credit. Placement in this ensemble is by audition for 9th grade and/or instructor approval. Generally for students in grade 10.

Symphonic Band

MUS 130

1 Credit

Elective 10, 11, 12

Prerequisite: Intermediate playing ability, audition, **and** teacher's signature

This performing organization is open to all students who have played their instruments for two or more years at the high school level. Stress is placed upon the reading of music and the application of pattern perception to quality performance of band music. Attendance is required at all functions for credit. Placement in this ensemble is by audition and/or instructor approval. Generally for students in grade 11.

Wind Ensemble MUS 140**1 Credit****Elective 11, 12**

Prerequisite: Teacher's signature **and** audition

Membership in this organization is open to all wind and percussion players who have successfully completed an advanced course of study on their instrument. This ensemble pursues an advanced musical repertoire and a heavier performance schedule. Emphasis is placed upon the stylistic and artistic performance aspects of band music. In addition to the regular performance schedule, the Wind Ensemble may tour schools in Madison and/or participate in outside music festivals. Attendance at all functions is required for credit. Placement in this ensemble is by audition and instructor approval and is for the more advanced performer.

**Jazz Workshop/MUS 150
Jazz Combo****½ Credit****Elective 9, 10, 11, 12**

Prerequisite: Teacher's signature, **and** enrollment in one of the concert bands **and** audition

Some knowledge of jazz style and instrumental technique is necessary. Basic knowledge of improvisation, style and rhythmic control is extremely desirable for success in this course. The Jazz Workshop Ensemble activities may include concerts, participation in jazz festivals, and service to the community. Attendance at all functions is required for credit. Jazz Workshop may be taken in addition to other band courses. Auditions and enrollment for this class will take place in the fall.



ORCHESTRA

Concert Orchestra MUS 210 1 Credit Elective 9, 10

Prerequisite: Middle/high school orchestra **or** conductor's signature
This course is for students in grade 9 or the less experienced student. A continuation of technical and musical development is stressed through string orchestra literature. Attendance at all functions is required for credit.

Philharmonic Orchestra MUS 220 1 Credit Elective 10, 11, 12

Prerequisite: High school orchestra **or** conductor's signature
This course is for students in grade 10. Further development of technical and musical skills is pursued with more advanced string orchestra literature. Attendance at all functions is required for credit.

Symphony Orchestra MUS 230 1 Credit Elective 11, 12

Prerequisite: High school orchestra **or** conductor's signature
This orchestra continues to increase musical and technical skills through the performance of the finest full orchestra and string orchestra repertoire. Woodwind, brass, and percussion students are selected from the Wind Ensemble. Attendance at all functions is required for credit.



VOCAL

Chorale **MUS 310** **1 Credit** **Elective 9, 10, 11, 12**

Prerequisite: Teacher's signature **and** audition
This ensemble is designed for ninth grade students and other less experienced students. Emphasis is placed on improving technical ability, tone production, reading skills, and perception of quality performance. Participation in all scheduled concert performances is required for credit.

Women's Choir **MUS 320** **1 Credit** **Elective 10, 11, 12**

Prerequisite: Teacher's signature **and** audition
This ensemble is designed for female singers with intermediate musical ability. Emphasis is placed on improving technical ability, tone production, reading skills, and perception of quality performance. Participation in all scheduled concert performances is required for credit.

A-Cappella Choir **MUS 330** **1 Credit** **Elective 10, 11, 12**

Prerequisite: Teacher's signature **and** audition
This ensemble is designed for the advanced singer. A cappella choir pursues an advanced musical repertoire and a heavier performance schedule. Emphasis is placed on the stylistic and artistic performance aspects of choral music. Participation in all scheduled concert performances is required for credit.



GENERAL MUSIC

Music Appreciation **MUS 413** **½ Credit** **Elective 9, 10, 11, 12**

Prerequisite: None

This elective involves the study of basic music theory and an overview of music history from the Middle Ages to the present. All styles, including ethnic and popular music, are explored. Classroom activities involve listening to examples, reading about music, and demonstrating knowledge of course material.

**Music Theory/
History** **MUS 423** **½ Credit** **Elective 10, 11, 12**

Prerequisite: Familiarity with major scales **and** ability to read music

The study of written and aural music is open to all students who are proficient in music reading and have a working knowledge of major scales. Emphasis is placed on ear training, analysis, and composition. This class covers most material found on the AP Music Theory exam. Music Theory/History may be taken in addition to other music courses.

PHYSICAL EDUCATION

One and one-half credits of Physical Education plus one semester of Health Education (1/2 credit) are required for graduation. ALL Physical Education classes are traditionally graded (A through F). By the end of the third week of each semester, parents/guardians will decide whether or not the grade will be counted as part of their student's grade point average (GPA).

Health class is traditionally graded (A thru F), and is included in the GPA.

CORE PROGRAM

The Core curriculum is required of all 9th and 10th graders and is based on the philosophy that a physically educated student needs the experience of a wide variety of activities before the junior year. As a result, no student will be able to take an elective course without first completing the Core program. Exceptions may be made for 10th graders in Lifestyle Changes & Choices.

Phy Ed 9	PHY 113	¼ Credit	Required 9
	Prerequisite: None The emphasis of this course is on developing and improving skills in several team sports and individual activities. Units include the following activities: tennis, volleyball, badminton, basketball, gymnastics and a fitness unit. This class meets 2 ½ days per week for one semester and may only be taken once for credit.		
Health	PHY 123	½ Credit	Required 9 Elective 10, 11, 12
	Prerequisite: None Health is designed to help you improve your health knowledge and attitudes in ways that assist personal decision making and positive health behaviors. The course meets daily for one semester and provides classroom and activity experiences. The course features units on physical health including fitness and nutrition, mental and emotional health, human sexuality, and alcohol and other drugs. Activity sessions may include jogging, cycling, walking, swimming, and weight training. They are designed to reinforce classroom presentations.		
Phy Ed 10	PHY 213	½ Credit	Required 10
	Prerequisite: None Activities included are touch football, basketball, volleyball, soccer, dance, floor hockey, and softball. This course meets daily for one semester and may only be taken once for credit. Emphasis is on increasing skill levels and further developing the concepts of teamwork.		

ELECTIVE PROGRAM

The Board of Education policy requires that junior and senior students elect $\frac{3}{4}$ credit of Physical Education, in addition to their other required courses. Some courses may be offered only one semester depending on demand.

The structure of the course offerings plus course descriptions are as follows:

FIRST SEMESTER		SECOND SEMESTER	
Basic Life Support	$\frac{1}{2}$ credit		
Racquet Sports	$\frac{1}{4}$ credit	Individual Sports	$\frac{1}{4}$ credit
Team Sports	$\frac{1}{2}$ credit	Team Sports	$\frac{1}{2}$ credit
Racquet and Team Sports	$\frac{1}{2}$ credit	Aerofit	$\frac{1}{2}$ credit
Lifestyle Changes & Choices	$\frac{1}{2}$ credit		
Rocks & Ropes/Outdoor Adv.	$\frac{1}{2}$ credit	Rocks & Ropes/Outdoor Adv.	$\frac{1}{2}$ credit
Advanced Ropes	$\frac{1}{2}$ credit	Advanced Ropes	$\frac{1}{2}$ credit
Intermediate Weight Training	$\frac{1}{2}$ credit	Intermediate Weight Training	$\frac{1}{2}$ credit
Advanced Weight Training	$\frac{1}{2}$ credit	Advanced Weight Training	$\frac{1}{2}$ credit
Social Dance	$\frac{1}{2}$ credit	Social Dance	$\frac{1}{2}$ credit
Intro to Athletic Training	$\frac{1}{2}$ credit	Intro to Athletic Training	$\frac{1}{2}$ credit

Lifestyle Changes & Choices	PHY 221	½ Credit (1st Semester)	Elective 9, 10, 11, 12
	Prerequisite: Recommendation from counselor, school nurse, and/or PE teacher This course is a unique class designed to meet your needs if you do not make exercise part of your lifestyle. The class meets every day for one semester.		
	Goals for the class are:		
	<ol style="list-style-type: none"> 1. Increase your cardiovascular fitness through low-impact aerobic activities such as jogging, walking, water aerobics, aerobic dance, step aerobics, weight training, and other aerobic activity. 2. Find lifetime fitness activities in which you can participate, such as volleyball, basketball, tennis, badminton, Frisbee, and more. Activities vary with the class skills. 3. Reduce body fat and increase lean muscle mass. 		
	The course may include other activities such as motivational speakers, periodic diet analysis, field trips to health clubs and sports medicine clinic. Information will be provided on the choices and changes you can make in your life and how they influence and/or improve your health and fitness.		
Basic Life Support	PHY 321	½ Credit (1st semester)	Elective 11, 12
	Prerequisite: High intermediate swimming skills Textbook: <u>Lifeguarding Today</u> The course gives you cognitive and practical experience in the areas of lifeguard training, First Aid, and CPR. These skills are necessary for, and may lead to employment at an aquatic facility. The Red Cross requires a \$60 fee for the course; this fee is collected by the teacher. Upon successful completion of the course, you receive Lifeguard, First Aid, and CPR cards. This course may only be taken once for credit.		
Individual Sports	PHY 332	¼ Credit (2nd semester)	Elective 11, 12
	Prerequisite: Junior or senior standing Cross-country skiing, bowling, and golf are offered. All equipment is provided by the school. A fee of up to \$40.00 is charged for bowling and possibly for golf. You are required to come prepared for winter weather (hats, gloves, etc.) for the cross-country ski unit. This course may be repeated for credit.		
Racquet Sports	PHY 341	¼ Credit (1st semester)	Elective 11, 12
	Prerequisite: Junior or senior standing This course consists of units in tennis, racquetball, pickleball, table tennis, and badminton. You travel via school bus to local racquetball facilities for one unit. A charge of \$2.00/day is required during the racquetball unit. This course may be repeated for credit.		

Team Sports	PHY 351 PHY 352	$\frac{1}{2}$ Credit (1 ST Semester) $\frac{1}{2}$ Credit (2 nd Semester)	Elective 11, 12 Elective 11, 12
	Prerequisite: Junior or senior standing Activities: Fall: touch football, ultimate frisbee, soccer, stx-ball, volleyball, floor hockey, and basketball. You bowl on alternate Fridays, and a \$2.50 fee is required. Spring: floor hockey, volleyball, softball, ultimate Frisbee, basketball, and soccer. You bowl on alternate Fridays, and a \$2.50 fee is required. The course emphasizes participation, with instruction focusing on team concepts and skills. This course may be repeated for credit.		
Racquet Sports and Team Sports	Phy 361	$\frac{1}{2}$ Credit (1 st semester)	Elective 11, 12
	Prerequisite: Junior or senior standing This course combines components of both Team and Racquet Sports.		
Aerofit	PHY 372	$\frac{1}{2}$ Credit (2 ND semester)	Elective 11, 12
	Prerequisite: Junior or senior standing The course provides you the opportunity to gain information about long-term health and fitness. MWF are aerobic activities with T TH core and strength activities. Activities may include running, low impact aerobics, step aerobics, cross country skiing, water aerobics, kick boxing, rollerblading, spinning, snow shoeing and biking. This course may be repeated for credit. A fee of up to \$5.00 may be required for equipment rental and field trip to health club.		
Social Dance	PHY 413	$\frac{1}{2}$ Credit	Elective 11, 12
	Prerequisite: Junior or senior standing Learn the basics of movement through dance. This course is designed to provide the beginning social dance student with a variety of dance experiences which may include: fox trot, swing, polka, cha-cha, waltz, tango, rumba, Texas two step, cumbia and a variety of country line dances.		
Intermediate Weight Training	PHY 433	$\frac{1}{2}$ Credit	Elective 11, 12
	Prerequisite: Junior or senior standing The curriculum includes units in basic anatomy, physiology of strength development, the effect of nutrition on performance and strength development, and the importance of flexibility. You develop your own program with supervision from the teacher. Grading is traditional. The course meets five days per week for a semester. This course may not be repeated for credit. Classroom lecture occurs once per week.		

Advanced Weight Training	PHY 443	½ Credit	Elective 11, 12
	<p>Prerequisite: Intermediate Weight Training</p> <p>This class is geared to the highly-motivated student with increased conditioning, strength, and personal fitness as main goals. You participate in a variety of training methods to help improve your fitness levels. The weight room and gym space are utilized.</p> <p>Advanced Weight Training also includes a classroom lecture which occurs once per week. Lecture topics include nutrition, supplementation, basic injury prevention and more through study of anatomy and physiology as it pertains to muscles, their actions, and relevance to resistance training exercises.</p>		
Rocks & Ropes/ Outdoor Adventure	PHY 453	½ Credit	Elective 11, 12
	<p>Prerequisite: Good physical health</p> <p>This course requires a transportation fee of up to \$35.00. Two one-day field trips to the outdoor ropes course, and a “caving experience” are required. The class takes advantage of the ropes course in our field house, the field house itself, and the outdoor ropes course. It is intended to provide an approach to physical education based on taking safe physical risks, using a variety of problem-solving techniques, and thereby achieving specified objectives that are determined by each class of students and their instructor. You will learn belaying skills and participate in the required climbing activities. As you overcome the challenges of these courses you have fun while you learn about yourself and others, and grow physically, mentally, and emotionally! The outdoor adventure aspect of the class is lecture/presentation based. Units include compass/orienteering, camping, “Leave No Trace” principles, First Aid and outdoor survival. The class may only be taken once for credit and may not be audited.</p>		
Advanced Ropes	PHY 463	½ Credit	Elective 11, 12
	<p>Prerequisite: Good physical health, and completion of Rocks & Ropes/Outdoor Adventure with a grade of “B” or better</p> <p>This course has a fee of \$50 to help cover costs of trips and transportation. The class is designed for the enthusiastic climbers and belayers who want to grow emotionally and physically through some non-traditional activities. Climbing elements and becoming belay-trained are mandatory for this course. Increasing personal confidence, being a team member, and displaying strong leadership skills are major goals in the class. Several mandatory trips occur during the semester. You learn facilitation skills while working with elementary-; middle-; and high-school students on our ropes course. This class may only be taken once for credit and may not be audited.</p>		
Introduction to Athletic Training	PHY 523	½ Credit	Elective 11, 12
	<p>Prerequisite: Junior or senior standing</p> <p>This is an upper-level elective designed for the highly-motivated student with an interest in healthcare professions. This course has both lecture and laboratory components. Units of study include basic anatomy, evaluation and care of common sports-related injuries, first aid, injury prevention, rehabilitation techniques, and administrative responsibilities. This course meets five days per week and is traditionally graded. This course may only be taken once for credit.</p>		

SCIENCE

Planning your science course sequence:

To help you plan your high school science courses, the following course descriptions are provided. The Memorial graduate should have a well balanced science experience that includes elements from biological, earth/space, and physical sciences. If at any time you are not certain which pathway to follow, or which course to take, see your science teacher or the science department chair with your questions.

Requirements:

Two (2) credits of science, which incorporate instruction in the biological and physical sciences are required for graduation from a Madison high school.

Students pursuing 2 or 4 year college degrees should take a minimum of 3 science credits. This coursework should include a broad background from biology, chemistry, earth science, and physics.

Students interested in careers directly related to science, technology, or engineering should take at least one course from each of biology, chemistry, earth sciences, physics and as many elective courses in their area of concentration as is possible.

Prerequisites: Please note that students must meet the requirements for a course prior to enrolling in the course. These are the minimum requirements and students that do not meet this standard for preparation are at significant risk of struggling throughout the course and reduced academic achievement.

Integrated Science

SCI 110

1 Credit

Required 9

Prerequisite: None

Integrated Science is Memorial's foundation science course, where the major concepts and skills used in all other science courses are introduced. This laboratory-based class illustrates the nature of science by examining the connections among the major disciplines of science such as physics, chemistry, biology, geology, and astronomy. The course content is consistent with the Wisconsin State Science Standards.

Mechanical World

SCI 120

1 Credit

Elective 10, 11, 12

Prerequisite: Students with significant challenges in literacy and mathematics are encouraged to take Mechanical World.

The Mechanical World course offers a mix of physics and chemistry. The course will emphasize earth science concepts pertaining to environmental issues. Students taking this course should be prepared to take Biology, Chemistry in the Community or Earth Science the following year.

This course is designed to help students develop an understanding of the physical world around them and its relationship to everyday life. Emphasis will be placed on concrete examples to make the subject relevant and understandable. Time in class will provide reinforcement in reading skills, a hands-on learning environment and the development of analytical thinking

Earth Science 1	SCI 210	1 Credit	Elective 10, 11, 12
	Prerequisite: Science teacher's signature This course focuses on the processes that shape planet Earth and their interconnectivity, which forms the Earth System. Subjects studied may include: geology, weathering and erosion, hydrology, volcanology, plate tectonics, seismology, meteorology, glaciology, cartography, and astronomy. Students will experience and explore these scientific fields through a variety of pathways, including hands-on labs, computer simulations, classroom discussions, presentations, projects, and direct instruction. The goal of the Earth Science course is for students to develop an understanding and appreciation for the natural processes that occur on our planet and how they impact and affect our environment. Grades will be determined through a combination of homework, labs, group projects, and unit tests.		
Earth Science 2	SCI 220	1 Credit	Elective 11, 12
	Prerequisite: Grade of "C" or better in Earth Science 1 and Earth Science teachers Signature. This course takes an in-depth approach to studying the processes that shape our planet. It uses a hands-on lab environment that investigates the Earth System. You will be expected to maintain a portfolio of your work and present it at the end of each semester for evaluation as a part your semester grade.		
Fundamentals of Biology	SCI 310	1 Credit	Elective 10, 11, 12
	Prerequisite: Science teacher's signature This is a course for students who demonstrate the ability and willingness to learn but are still honing their organization, laboratory, and study skills. Semester One topics are selected from those covered in Biology (SCI 320). These topics include: biological themes, characteristics of life, ecology, and cell biology. Semester Two is devoted to the study of the human body and genetics. This credit counts towards the science requirement for graduation and also counts as a science requirement for admission to most colleges. TRANSFERRING FRESHMAN MAYBE ADMITTED IF PREVIOUSLY ENROLLED IN A FRESHMAN LEVEL BIOLOGY COURSE. COURSE CAN BE TAKEN FOR SEMESTER CREDIT.		
Biology	SCI 320	1 Credit	Elective 10, 11, 12
	Prerequisite: Science teacher's signature This course begins with the study of the scientific method and cells and cell processes. Current biological issues are researched and discussed. A survey of all six kingdoms of life, and of viruses is offered second semester. In the spring, the study of aquatic ecology includes fieldwork at Lake Wingra. This course emphasizes hands-on lab work and demonstrations. Other activities include group projects, presentations, computer research and modeling.		

Conservation Biology	SCI 330	1 Credit	Elective 11, 12
	<p>Prerequisite: Biology or AP Biology</p> <p>Conservation Biology is a one-year course emphasizing biodiversity. You learn about the diversity of organisms that inhabit our planet, and the ecosystems they live in. You also learn about the threats to biodiversity and solutions for protecting biodiversity.</p> <p>Emphasis is on hands-on work and real-world case studies of work being done on different ecosystems in Wisconsin and around the world. You have opportunities to hear lectures from people involved in conservation biology and to practice techniques used in conservation biology.</p>		
Biology AP	SCI 340	1 Credit	Elective 11, 12
	<p>Prerequisite: Chem-Com or Math Chemistry strongly recommended or teacher's signature</p> <p>Biology AP serves as a high-level, introductory course in biology. The course includes basic and advanced studies of plants, animals, human biology, and human systems. The course is designed for those who want a strong background for college. The course prepares you for the Advanced Placement biology exam, possibly resulting in biology credit at some colleges/universities if your score is high enough. More information is available at:</p> <p>http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html</p>		
Biotechnology	SCI 350	½ Credit	Elective 11, 12
	<p>Prerequisite: Biology, or concurrent enrollment in AP Biology</p> <p>This course is an introduction to the world of biotechnology. The course will provide a background in basic molecular biology in addition to exploring topics such as genetic engineering, cloning, stem cells, DNA fingerprinting, and immunity (ELISA). Students will learn lab skills such as cloning cells using sterile technique, DNA sequencing, and microarray technology.</p> <p>This course is geared toward any student with an interest in the latest discoveries/debates in biotechnology and gaining proficiency in basic laboratory techniques.</p>		

Anatomy & Physiology

SCI 360

1 Credit

Elective 11, 12

Prerequisite: ISP AND a passing grade in Biology or AP Biology AND Math Chemistry or Chemistry in the Community.

Anatomy and Physiology is an intensive course that examines both the anatomy and Physiology of the human body. Through lecture, virtual laboratory, and wet laboratory experiences, students will understand the structures that make up the human body and how these structures work. As an integral part of this study, students will also perform a few dissection activities. Major topics covered include cell chemistry, cell structure, tissues, the organ systems of the body, and genetics. This is a course for students who seek a strong background in the biological sciences, who are self-motivated, and who are prepared to do daily study outside of the classroom.

Forensic Science

SCI 373

½ Credit

Elective 10, 11, 12

Prerequisite: ISP or Mechanical World and Biology (Biology may be concurrently) and Science teacher's signature

This course is an introduction to the world of forensic science. Students will gain an understanding of the fundamentals of crime scene investigation by learning how to analyze blood and other body tissues and learning how to interpret physical crime scene evidence using basic biology, chemistry and physics principals. Aspects of sociology and physical anthropology will also be integrated into the course content.

This course is geared toward any student with an interest in crime scene investigation, medical technology, or law enforcement.

General Physics

SCI 410

1 Credit

Elective 10, 11, 12

Prerequisite: Geometry **and** science teacher's signature

The ideas of physics are presented primarily from a conceptual basis with extensive use of demonstrations, model building, labs, and projects. The traditional book is replaced by a digital, computer-based text that allows self-paced, interactive learning from classroom, LMC, or home computers. You research real-world applications of physics in fields such as communications, defense, medicine, etc. Content for the course is chosen from the areas of motion and mechanics, gravitation and astrophysics, momentum energy, electricity and magnetism, waves, sound, music, light and optics, and relativity.

Math Physics

SCI 420

1 Credit

Elective 11, 12

Prerequisite: Science teacher's signature **and** math beyond Algebra 2, **or** signature of math teacher for students concurrently Algebra 2. Integrated Science recommended Math Physics is for you if you plan a college major in engineering, science, medicine, architecture, etc. Course content is chosen from the subjects of mechanics, electricity and magnetism, light, and sound. The course combines lectures, group work, labs, and engineering problems as methods of studying each topic in depth. In addition to receiving an AP-level knowledge of the physics topics covered, you gain skills in problem-solving, team work, and data analysis.

Physics B AP**SCI 433****½ Credit****Elective 12**

Prerequisite: Math Physics **or** General Physics, **and** Calculus A/B **or** teacher's signature. Integrated Science recommended

Physics B AP is for those on a science, engineering, or medical track who would like a more well-rounded background in physics before college, and are planning to take the Physics B AP exam. The class is lecture- and project-lab-based, with opportunities for you to take practice AP exams. More information is available at:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

Chem-Com Chemistry**SCI 510****1 Credit****Elective 10, 11, 12**

Prerequisite: Integrated Science **and** Algebra I. Sophomores must have consent of Chem-Com teacher

Chem-Com Chemistry includes units in fundamental chemistry, nuclear chemistry, organic chemistry, water chemistry, air chemistry, and materials chemistry. Instruction is provided through laboratories, modeling activities, lectures, computer laboratories, and other chemistry-related activities. The course emphasizes the understanding of verbal descriptions of chemical concepts, rather than pure mathematical or analytical descriptions of the concepts of chemistry.

Math Chemistry**SCI 520****1 Credit****Elective 10, 11, 12**

Prerequisite: Integrated Science, Algebra I with grade of C, **and** a math course to be taken concurrently

Math Chemistry covers fifteen major concepts in basic chemistry with emphasis on mathematical problem-solving, laboratory experiments, and experimental technique. Grades are determined by laboratory work, quizzes, and exams.

Chemistry AP**SCI 530****1 Credit****Elective 10, 11, 12**

Prerequisite: Science teacher's signature; **and** one year of chemistry or the equivalent with a grade of B (Math Chemistry recommended).

Chemistry AP is a one-year course which completes the study of basic concepts in chemistry begun in Math Chemistry, and which relies heavily on extended laboratory experiences. Successful completion of the objectives outlined in the course syllabus should ensure a passing score on the AP exam. More information is available at:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

Aerospace Engineering SCI 610
(Project Lead The Way)

1 Credit

Elective 11, 12

Prerequisite: Freshman level science and teacher's signature
Recommendation: Physics and Algebra 2 or concurrent enrollment
Aerospace is a two-semester advanced level, integrated, project-based science course with an emphasis on the application of the biological, chemical and physical principles inherent in aviation and space studies. Units of instruction include aviation history, aerodynamics, aircraft stability and design, physiology of flight, aerospace materials science, space exploration, and autonomous vehicle design. Most lessons are reinforced through the use of computer technology and software such as Flight Simulator, Inventor, and AERY. Field trips during the year offer the opportunity to pilot single-engine aircraft under the guidance of certified flight instructors and to experience kit built aircraft manufacturing, the EAA museum, and aircraft restoration. Students are responsible for course supplies and materials. This course is part of the district initiative in Engineering known as Project Lead The Way.

Astronomy

SCI 620

1 Credit

Elective 11, 12

Prerequisite: Integrated Science **and** geometry
The primary aim of the course is to trace the developing views of the astronomical universe and to communicate a sense of the incredible growth this discipline has undergone over the last 2000 years. A secondary goal is to give you some understanding of the methods, goals, and limitations of science. Throughout this course we emphasize not only what we believe to be true, but also why we think it is so.
The class meets daily in the Planetarium, for an outstanding simulation of the objects to be studied and the motions to be analyzed. In addition, you verify these presentations with your own observations of the night sky.

**Environmental
Science AP**

SCI 630

1 Credit

Elective 11, 12

Prerequisite: Biology **or** teacher's signature.
AP Enviro uses a multidisciplinary approach to study the environment, how it works, and the issues associated with the environment. Some of the topics covered include ecology, climate, population studies, energy and alternative energy, and pollution. The course includes traditional lab activities, outside research, class discussion, readings and research to address the many topics covered. Although taking the AP Exam is not required, the course topics discussed during the year prepares you for the AP Environmental Science exam, possibly resulting in college credit. More information is available at:
<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

½ MMSD Summer School
¼ MMSD Fall Term Credit
1 UW Madison Independent Study Credit (additional credits at discretion of professor)

Prerequisites: Current sophomore or junior, GPA of 3.6, Successful completion of 1-2 years of science and math.

This course is available to students from all MMSD high schools, for a total of 16 students each year. Students are chosen based on a written application and two teacher recommendations. Applications are available from the Science Department at the beginning of each calendar year. Participants are placed in a UW Madison research laboratory for approximately 9 weeks and work there on research projects assigned by the professor of each lab. You are expected to spend between 25 and 35 hours in the lab weekly. During the summer you meet in small discussion groups to give updates of your work-in-progress. In addition, you meet individually with the coordinator at least once during the summer. In the fall, you prepare scientific research papers and present your work in poster format at a district-wide event. Fall work is independent, with the exception of 2 or 3 informal meetings.

For more information please contact the program coordinator, Rachel Egan, 772-3253 or at regan@madison.k12.wi.us

**PLTW: Principles
Of the Biomedical Sciences (BSE)**

SCI 710

1 Credit

Elective 11, 12

****Project Lead The Way Global Academy science courses to be offered at the MATC Gammon Road Campus.**
(See your counselor)

Length: One Semester. Can be taken first semester or second semester

Prerequisite: Completion of high school science requirements in grades 9 and 10 or consent of high school administrator.

This course provides an introduction to the biomedical sciences through exciting “hands-on” projects and problems. Student work involves the study of human medicine, research processes and an introduction to bio-informatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person’s life. Key biological concepts including: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease are embedded in the curriculum. Engineering principles including: the design process, feedback loops, fluid dynamics, and the relationship of structure to function are incorporated in the curriculum where appropriate.

**PLTW: Human
Body Systems (HBS)**

SCI 720

1 Credit

Elective 11, 12

****Project Lead The Way Global Academy science courses to be offered at the MATC Gammon Road Campus.
(See your counselor)**

Length: One semester. Offered second semester only

Prerequisite: Completion of high school science requirements in grades 9 and 10 or consent of high school administrator.

Students will examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structures and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operations. Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense, and protection.

SOCIAL STUDIES

Board of Education graduation requirements for social studies are as follows:

1. Three years of required courses,
2. One and a half years of which are U.S. History courses

Social Studies required courses:

9th	American Experience 1 (1900 - 1930) American Experience 2 (1930 - 2000)	first semester second semester
10th	World History	one year
11th	Economics American Experience III	one semester one semester

NINTH GRADE

American Experience 1 & 2

SOC 110

1 Credit

Required 9

If after reading the course description of American Experience 1 & 2, you wish to take both courses, sign up for SOC 110.

American Experience 1 (1900-1930)

SOC 111

½ Credit (1ST Semester)

Required 9

Prerequisite: None

This course covers topics and themes in U.S. History from the end of the 19th century to the Great Depression. It includes units about industrial development, immigration, labor reform, and foreign-policy developments. Evaluations may include exams, position papers, simulations, and oral presentations.

American Experience 2 (1930-2000)

SOC 112

½ Credit (2nd Semester)

Required 9

Prerequisite: American Experience I

This course covers the political, social, and economic changes in the U.S. from the 1930s to the present. Topics include the Great Depression, World War II, the Cold War, and Vietnam. Evaluations may include exams, position papers, simulations, and oral presentations.

TENTH GRADE

World History

SOC 210

1 Credit

Required 10

Prerequisite: None

World History is a year-long course that covers key themes and significant events from the emergence of early humans to the present. You should leave the course with a broad understanding of chronological world events. Course units include geography, early humans and civilizations, exchange and encounter, revolutions, industrialism for empires, global conflicts, and current world events. You do oral presentations, research papers, and in-class discussions.

World History AP

SOC 220

1 Credit

Elective 10, 11, 12

Prerequisite: Signature of American Experience I and II teacher; Student **and** PARENT signature on summer project handout.

Project due during Registration in August.

This course has been created for students with exceptional reading and writing ability and the desire to study World History at a college level. You may substitute this course for World History (SOC 210) in 10th grade, or take it in 11th or 12th grade. You will develop a greater understanding of global processes and contacts, as well as of different types of human societies and their interactions. In addition, the readings and discussions will be college level in difficulty and will require sophisticated analysis and synthesis skills. The course will prepare you for the AP exam in World History. If you earn a passing grade on the AP exam of a 3, 4, 5, you may qualify for college credit. More information is available at:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

ELEVENTH GRADE

American Experience 3

SOC 353

½ Credit (either semester)

Required 11

Prerequisite: None

This course examines a selected number of significant, contemporary, and unresolved political, social, and moral issues in our society through the study of Modern US History. Your performance is evaluated using graded discussions, formal and informal speaking assignments, written tests, and daily classroom work.

Economics

You may choose to satisfy this requirement by selecting from Economics (SOC 323), Basic Economics (SOC 313), or Microeconomics AP (SOC 333). The description of Microeconomics is included with the social studies electives.

Basic Economics	SOC 313	½ Credit	Required 11
Prerequisite: Enrollment by teacher recommendation only. Please see your social studies teacher.			
This course emphasizes consumer skills and theory to assist you in post-high-school life.			
Economics	SOC 323	½ Credit	Required 11
The course develops an understanding and the vocabulary of the American and world economic systems. The distribution of goods and services, money, business organizations, government policies, international trade, and taxes are among topics covered. Activities may include reading, lectures, videos, simulations, discussion, writing, and speaking. Grades are based on quizzes, homework, examinations, written work, and oral participation.			
Microeconomics AP	SOC 333	½ Credit (1st Semester)	Elective 11, 12
Prerequisite: Signature of World History teacher			
Recommended: Completion of Algebra 3 or concurrent enrollment in Algebra 3.			
The following topics are included: basic economic concepts, nature and function of product and factor markets, efficiency, equity, and the role of government in the economy. This course is designed for anyone interested in pursuing careers in economics, business, finance, or commerce. The course prepares you for the Advanced Placement exam in Microeconomics. Students who earn a passing grade on the AP exam may qualify for college credit. All U.W. System campuses grant credit for a passing grade on the AP exam. More information is available at:			
http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html			

SOCIAL STUDIES ELECTIVES

Macroeconomics AP	SOC 342	½ Credit (2nd Semester)	Elective 11, 12
Prerequisite: Microeconomics AP (SOC 333) or Economics (SOC 323) This course is NOT a substitute for Economics (SOC 323). Topics covered include the measurement of economic performance, national income and price determination, monetary and fiscal policy, and international economics. This course is designed for anyone interested in pursuing careers in politics, economics, business, finance, or commerce. The course prepares you for the Advanced Placement exam in Macroeconomics. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html			
Ethnic Studies	SOC 410	1 Credit	Elective 11, 12
Prerequisite: None This course examines the history and culture of diverse ethnic groups in American society. You may take the class for one-half credit (one semester) with teacher permission.			
Ethnic Studies	SOC 411	½ Credit (1st Semester)	Elective 11, 12
Prerequisite: None The first semester introduces the traditional historical values and heroes of the United States, current demographic trends, and discrimination and prejudice issues. Native American history, literature, and values are also covered during this semester.			
Ethnic Studies	SOC 412	½ Credit (2nd Semester)	Elective 11, 12
Prerequisite: None Second semester units explore the history, values, literature, art, and culture of African-Americans, Asian-Americans, and Hispanic-Americans.			
American Politics	SOC 423	½ Credit	Elective 10, 11, 12
Prerequisite: None This course is about how American politics works. It emphasizes current political issues. Topics include campaigns and elections, voter turnout, voting patterns, political decision-making, lobbying and interest groups, party politics, and the criminal justice system. Grades are based on tests, in-class essays, and simulations.			

**Americans
And the World**

SOC 433

½ Credit

Elective 10, 11, 12

Prerequisite: None

This course concerns relations among nations and how they attempt to achieve their goals. It concentrates on issues of American national security. Diplomatic, military, and international institutions that affect national politics and international relations are covered, as are topics of current interest: terrorism, nuclear weaponry, the Middle East, American intervention abroad, etc. Grades are based on homework, tests, and essays.

**Women In
U.S. History**

SOC 510

1 Credit

Elective 10, 11, 12

Prerequisite: None

This one- or two-semester course examines the history of women in the United States. You examine where women have power and where they do not, as well as how they go about empowering themselves. Special attention is paid to the lives of actual women and the differences among them as a result of race, ethnicity, religion, sexual orientation, social class, and geography. You may take the course for one-half credit (one semester) or for one credit (2 semesters).

**Women in
U.S. History**

SOC 511

½ Credit (Semester 1)

Elective 10, 11, 12

Prerequisite: None

First semester covers Native American women, the colonial period, prostitution, witchcraft trials, the Victorian Era, women's health and sexuality, the Civil War, women in the west and the suffrage movement from 1848 to the Equal Rights Amendment.

**Women in
U.S. History**

SOC 512

½ Credit (Semester 2)

Elective 10, 11, 12

Prerequisite: None

Second semester covers women in the labor movement and social reform, immigration, World War I, The Roaring 20's and the Harlem Renaissance, World War II and the New Deal, and the Civil Rights and feminist movements of the 1950s and 1960s.

The Ancient World	SOC 520	1 Credit	Elective 10, 11, 12
	Prerequisite: None This course examines the history and archaeology of the ancient and medieval worlds. You may take the class for one-half credit (one semester) or for one credit (2 semesters).		
The Ancient World	SOC 521	½ Credit (1st Semester)	Elective 10, 11, 12
	Prerequisite: None This course covers 25,000 BC to the fall of the Western Roman Empire.		
The Ancient World	SOC 522	½ Credit (2nd Semester)	Elective 10, 11, 12
	Prerequisite: None This course covers the rise of Barbarian Europe to the fall of Constantinople in 1453.		
European History AP	SOC 530	1 Credit	Elective 10, 11, 12
	Prerequisite: None While this course is designed for students wanting to take the AP exam, all students interested in European history or western civilization are encouraged to select the course. European political movements, cultural, economic, and social history are emphasized in both semesters. Independent study is required. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html		
	Semester 1:	Rise of nation-state, Reformation, Renaissance, Enlightenment, and French Revolution	
	Semester 2:	Industrial Revolution to the present	
The Culture and Influences of African Societies	SOC 543	½ Credit	Elective 10, 11, 12
	This semester-long course will examine the diverse cultures of people in Africa. The 2 major emphases will be to 1) learn about and compare/contrast the cultural creations of people in different regions in Africa. This means studying musical forms and instruments, literature, visual art and language within a historical context. 2) To understand the historical reasons why African cultural forms have spread to other continents and what those influences are in contemporary societies around the world. Topics will include reggae, jazz, gospel music, masks and literature.		

Psychology	SOC 613	½ Credit	Elective 10, 11, 12
	Prerequisite: None The human mind and human behavior are explored in this survey course. Topics include biological bases for behavior, states of consciousness including dreaming and hypnosis, learning, development, personality, and mental disorders. You examine psychology in the world today and how it impacts people's behavior. Class activities include experiments, observations, discussions, and speakers.		
Psychology AP	SOC 622	1 Credit	Elective 11, 12
	Prerequisite: None This course is for students wanting a more in depth view of psychology. Through the use of psychological methods, students will explore psychology in learning/intelligence theory, development, mental disorders, group behavior, the biological bases of behavior, sensation and perception, cognition, and memory. Through labs, lectures and presentations this class is structured to provide support and success on the AP Psychology exam. . All U.W. System campuses grant credit for a passing grade on the AP exam. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html		
Sociology of Sports	SOC 633	½ Credit	Elective 10, 11, 12
	Sports have a major impact on our society. Through projects, readings, videos and discussions, students will explore the political and economic importance in our society and issues surrounding its growth such as, gender, race and medical issues.		

**SPECIAL EDUCATIONAL
(Replaced and Supplemental Course Offerings)**

Introduction

The special education program at Memorial High School provides services for students who have been determined, through an Individual Educational Team assessment, to have special education needs. In addition to supporting many regular education courses, the special education staff has developed, replaced, and supplemental course offerings which provide the framework for meeting group and individual student needs.

The student should review all course options (regular and Special Education) and select courses which will best prepare him/her for post-high school goals. The student is encouraged to consult with parents, school counselor, case manager and teachers before making final decisions.

*** Special Education Courses (XIC, XIE, XIL, XIS, prefix) may:**

1. **Replace** regular education courses. (Sets a different learning standard than is usually set at the high school level). Note: These courses do not meet DPI/MMSD graduation standards but will count towards graduation by IEP.
2. **Supplement** courses taught by regular education. (Special education courses such as Resource Room, Study Skills, Career/Vocational Education, etc., supplement required and elective regular education courses). Note: These special education courses are identified as elective and are counted toward graduation elective requirements.

RECOMMENDATION BY CASE MANAGER REQUIRED PRIOR TO ENROLLMENT.

ADAPTIVE SKILLS

Daily Living Skills

XIC 100

1 - 5 Credits

Elective 9, 10, 11, 12

Daily living skill classes give students the opportunity to gain skills that are needed to increase independence. Domestic skills are taught by giving the students the opportunity to learn to care for themselves in the areas of grooming, health, clothing care, food planning and preparation and housekeeping. Community skills are taught by giving the students the opportunity to explore and utilize the Madison community in the areas of public transportation, shopping, restaurant and public facilities. Finally, leisure/recreation skills curriculum give students the opportunity to learn appropriate use of free time in individual and group activities using in-school and community resources. Individual student objectives are based on individual students needs.

Basic Food Preparation

XIC 180

1 Credit

Elective 9, 10, 11, 12

This class will give students the opportunity to gain the skills that are needed to increase their independence in the kitchen. Skills are taught by giving the students the opportunity to learn to care for themselves in the following areas: kitchen safety, recipe/menu planning, general nutrition, health care as relates to food/cooking, and basic food preparation including preparation of pre-packaged and/or homemade foods. Individual student objectives are based on individual student needs.

ENGLISH

Applied English

XIC 200

1 Credit

Elective 9, 10, 11, 12

Students in this course need to further develop the four language processes of listening, reading, speaking and writing. Emphasis will be placed on solving communication problems encountered in daily living relating to work, personal business, social interaction and leisure time activities. Level of materials and instructional methods will be based on current level of functioning as stated in the individual respective IEP.

English Skills

XIS 210

1 Credit

Elective 9, 10, 11, 12

This course is designed for students who need to continue to develop skills in the areas of reading, writing and spelling. Instruction utilizes short novels, plays, stories and job-related materials to teach basic English skills. Work-related skills and attitudes needed to obtain and maintain employment will be included. Level of materials will be based on current level of functioning as stated in the individual IEP. Daily participation is required.

English 9-10**XIS 220****1 Credit****Elective 9, 10**

This course is designed for students who have basic reading skills but need to improve reading strategies and basic language arts skills including written expression, spelling, speaking and vocabulary. Writing complete sentences and developing paragraphs and essays are covered. This course also includes the analysis and comprehension of novels, short stories and plays. Included in this course will be a unit on career exploration. Ninth graders will assess learning styles and interests in preparation for tenth grade career exploration. Tenth graders will begin to develop skills needed to obtain and maintain employment.

English 11-12**XIS 230****1 Credit****Elective 11, 12**

This course is designed for the development of more advanced reading and writing skills. These skills include vocabulary improvement, application of literary terms and higher level comprehension skills. This course also includes the development of writing skills through the expository essay, poetry, short story writing, a research paper and practice in mechanics. This course requires participation in the areas of listening, speaking and viewing. Functional and vocational skills will be taught with the development of a resume, filling out forms, writing a business letter and completing a research paper on a career of interest. In addition, there may be opportunity for service learning projects.

Read to Succeed**XIS 250****1 Credit****Elective 9, 10, 11, 12**

This course is designed for students who read at or below the sixth grade level and need a direct instruction/multi-sensory approach to improve their basic reading decoding, reading comprehension, writing and spelling skills. Upon enrollment, students will be assessed and placed in appropriate ability groups as possible. The course requires daily participation in reading and discussion, listening, speaking and spelling. This course may be taken concurrently with another English course.

Read 50**RDG 150****1 Credits****Elective 9, 10**

Prerequisite: Student must meet MMSD screening criteria.

This class meets for 1 class period per day.

This is an intensive intervention course in which students receive explicit instruction in reading and writing strategies. They also benefit from adaptive instructional computer software and high-interest literature. This course consists of large group strategy instruction, an individualized computer program, independent reading, and small group support. This is the 1st of a possible 2 year reading program.

Read 50	RDG 250	1 Credit	Elective 9, 10
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Prerequisite: Student must meet MMSD screening criteria.
 This class meets for 1 class period per day.
 This is an intensive intervention course in which students receive explicit instruction in reading and writing strategies. They also benefit from adaptive instructional computer software and high-interest literature. This course consists of large group strategy instruction, an individualized computer program, independent reading, and small group support. This is the second of a 2 year reading program.

Read 90	RDG 190	2 Credits	Elective 9, 10
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Prerequisite: Student must meet MMSD screening criteria.
 This class meets for 2 class periods per day.
 This is an intensive intervention course in which students receive explicit instruction in reading and writing strategies. They also benefit from adaptive instructional computer software and high-interest literature. This course consists of large group strategy instruction, an individualized computer program, independent reading, and small group support. This is the 1st of a possible 2 year reading program.

Read 90	RDG 290	2 Credits	Elective 9, 10
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Prerequisite: Student must meet MMSD screening criteria.
 This class meets for 2 class periods per day.
 This is an intensive intervention course in which students receive explicit instruction in reading and writing strategies. They also benefit from adaptive instructional computer software and high-interest literature. This course consists of large group strategy instruction, an individualized computer program, independent reading, and small group support. This is the second of a 2 year reading program.

HEALTH/PHYSICAL EDUCATION

Life Long Recreation Skills	XIC 300	½ Credit	Elective 9, 10, 11, 12
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This course is specially designed to meet the needs of students who need moderate-intensity physical activity to promote their general fitness and social skill development. The individualized or small group instructional format emphasizes change in student health habits through a variety of fun, supportive group activities. Use of individualized and team lifetime recreational games promotes improvement in the student's general muscle strength, muscle endurance, joint flexibility, and aerobic fitness. Emphasis is placed on social interaction, the ability of each student to become involved with his/her peers and adults, and preparing each student for his/her future physical education and community/vocational opportunities.

Health Awareness	XIC 320	1 Credit	Elective 9, 10, 11, 12
<p>This course will provide students with information on the importance of good health by studying the basic body systems, exercise and nutrition, first aid, AODA issues, adolescent physical, psychological and emotional development, plus other issues related to teens. Students will be expected to participate in physical activities such as swimming, weight training, basketball, aerobic walking and /or other activities designed to meet the students' individual educational needs.</p>			
Health & Wellness and PE 9	PHY 080	¾ Credit	Elective 9, 10, 11, 12
<p>See course description below and course description for Phy Ed 9 (PHY 113) under the regular education physical education section of the curriculum guide.</p>			
Health & Wellness	PHY 083	½ Credit	Elective 9, 10, 11, 12
<p>Prerequisite: Consent of EEN department. See EEN case manager. This course closely follows the regular education Health and Wellness Curriculum, but modifications are made in daily activities, tests and in evaluation. Attendance, participation, completion of daily assignments, and passing test scores are needed to earn credit.</p>			
MATH			
Applied Math	XIC 400	1 Credit	Elective 9, 10, 11, 12
<p>The course focuses on the development and application of basic math skills. Topics include addition, subtraction, telling time, introduction to decimals, money values and measurement. Student work is individualized according to their IEP.</p>			
Math Skills	XIS 410	1 Credit	Elective 9, 10, 11, 12
<p>This course is for students who have not mastered computational skills of whole and rational numbers, fractions, decimals, and percents and need continued practice and practical application of these skills as identified in the students Individual Education Plan. The course is individualized and self-paced. Students work on each skill until mastery, then progress to the next. Functional math skills including use of money, measurement, and graphing will also be emphasized.</p>			
Vocational/ Consumer Math	XIS 440	1 Credit	Elective 11, 12
<p>Prerequisite: Two years of high school math The Vocational/Consumer Math course may be taken two years in a row. The curriculum combines practical applications of fractions, decimals, percents, measurement and geometry and consumer mathematics. The pace of instruction is flexible and makes accommodations for individual needs. Successful completion of the course will help prepare students for mathematics at technical school or at work and in independent living.</p>			

SOCIAL STUDIES

United States History

XIS 710

1 Credit

Elective 9, 10, 11

The Social Studies course offerings for 9th and 10th graders alternate yearly between U.S. History and World Cultures, with an emphasis in geography. The U.S. History course is designed to help students develop an understanding of American history from 1900 to present. The World Cultures/Geography class will focus on regional geography, history and culture. The 2010-2011 school year class will be U.S. History.

Civics

XIS 720

1 Credit

Elective 11, 12

First Semester this course covers the history of American government, Declaration of Independence, Bill of Rights, responsibilities of citizens, and the U.S. citizenship test. Second semester the course focuses on the powers of the federal branches, state and local governments, elections, court systems (adult and juvenile), and supreme court cases. Throughout the school year current events are discussed in relationship to class topics.

Focus	XIS 740	1 Credit	Elective 9, 10
	<p>Prerequisite: <u>Consent of EEN department chair and be enrolled in English 9-10 (XIS 220) and United States History (XIS 710)</u></p> <p>The goal of this course is to facilitate school success by exploring more constructive ways of interacting with staff and peers and through exposure to a variety of study skills. Students will increase their understanding of self and others and will apply basic theories in psychology and sociology to their lives. Topics to be covered include reframing, verbal/non-verbal communication, relaxation techniques, anger management, listening skills and self-talk strategies. In addition, students will learn various styles of note-taking from both oral and written information and strategies to aid memorization, spelling and test-taking.</p>		
DIRECTED STUDY			
Study Skills 9	XIS 810	1 Credit	Elective 9
	<p>This course is designed to provide support for students enrolled in the 9th grade Core courses of English and American Experience. Students are given strategies to improve note taking, assignment preparation and test taking. Material from the Core courses is reviewed and adapted to meet the needs of individual students.</p>		
Study Skills 10	XIS 820	1 Credit	Elective 10
	<p>This course is designed to provide support for students enrolled in 10th grade courses of English and World History. Students are given strategies to improve study and test-taking skills. Materials from these courses are reviewed and adapted to meet the needs of individual students.</p>		
Resource Room	Credit assigned by EEN Case Manager 1 Credit		Elective 9, 10, 11, 12
	<p>The Resource Room is available to provide academic assistance and learning strategies to all students with exceptional educational needs. Services include such things as reading tests and assignments, note taking and organizational strategies and proofreading. Tape recorders, CD players, spell checkers, computer software, scanner, portable keyboards that save text, textbooks on tape and supplies are available for students.</p> <p>All EEN students using the Resource Room must follow the rules. Students are not assigned to the Resource Room. Students attend on a voluntary basis by reporting to the room on time instead of their study hall or by obtaining a pass from their classroom teacher. Students have the opportunity to earn ¼ elective credit for every 45 class hours.</p>		

VOCATIONAL

Basic Keyboarding/ Basic Computer Applications	BUS 080	1 Credit	Elective 9, 10, 11, 12
	See course descriptions below.		
Basic Keyboarding	BUS 081	½ Credit	Elective 9, 10, 11, 12
	Prerequisite: Consent of EEN Department. See EEN case manager This first semester course will teach students a basic keyboarding skill using an adapted curriculum. It will help students master touch operation of keyboard characters, correct key stroking and techniques and proper manipulation of computer parts. Students are exposed to skills, which might be usable in a volunteer or competitive job setting. It will prepare students for additional business courses in the regular curriculum. It will also provide tutorial/practice help for students enrolled in a regular business class.		
Basic Computer Applications	BUS 082	½ Credit	Elective 9, 10, 11, 12
	Prerequisite: Consent of EEN Department and minimum 1 semester keyboarding This second semester course is designed to teach students basic computer skills and procedures commonly performed with computers. The course will introduce computer word processing (Word), spreadsheets (Excel), database (Access) and presentation software (PowerPoint). For some students the word processing software will be used to do basic business writings that should help the student to strengthen his/her language arts skills. Selective applications will be used to provide a foundation for students to discover functional uses for computers in their own lives. Specific course content will depend on student needs.		
Introductory Vocational Skills	XIC 900	1 Credit	Elective 9, 10, 11
	This course is designed for students who are interested in obtaining employment skills. Emphasis will be on hands-on jobs and activities within the school environment. Students will experience a variety of jobs. These experiences will serve as the beginning of a functional vocational assessment. Teachers help students identify vocational interest, work-related strengths and weaknesses, and the level of vocational services needed as they progress.		

Community Vocational Experience	XIC 910	1 Credit	Elective 9, 10, 11, 12
	Community Vocational Experience is designed to give students the opportunity to gain on-the-job work training and/or exploratory experiences (short term work experiences, job shadowing, etc.) in non-paid work environments in the community during the school day. Experiences are structured to meet the students individual educational needs. This experience will also serve as part of a functional vocational assessment for students. Information gathered would assist in identifying vocational interests, work related strengths and weaknesses and needed transition services.		
Transitional Supported Employment	XIC 920	1 Credit	Elective 12
	Prerequisite: Consent of instructor and requirements listed below Transitional supported Employment is designed for students who will be at least eighteen years old during the 07-08 school year, will qualify for Dane County Supported Employment Services, and will need school staff support to find learn and maintain a job. Training will directly relate to the job site and employer expectations. Students will learn how to find a job, maintain the job, advocate for their needs, and coordinate their daily schedules around the job. School job support will continue until the student is transitioned to Dane County Supported Employment Services at the end of the school year in which the student turns twenty-one years old.		
Cooperative Work Experience	XIC 930 XIE 930 XIL 930	1 Credit 1 Credit 1 Credit	Elective 11, 12 Elective 11, 12 Elective 11, 12
	Cooperative Work Experience is an opportunity for students to earn a credit for successful part-time employment. Its goal is to develop employability skills and give students a chance to explore job opportunities in a supportive setting. The students must work an average of ten hours per week, meet periodically with the Work-Ed counselor, keep a time sheet and have successful work evaluations. This experience will also serve as part of a functional vocational assessment for students. Information gathered would assist in identifying vocational interests, work related strengths and weaknesses and needed transition services.		
Transitional Skills-Competitive Employment	XIS 961	¼ Credit	Elective 11, 12
	Prerequisite: Must be enrolled in Cooperative Work Experience concurrently This course will meet first semester for 2 ½ periods per week. The course is recommended for students who are planning on going directly into <u>unsupported competitive employment</u> after graduation from high school. Students who do not have a job will focus on job seeking activities including completing applications, interviewing, and developing a job search plan. Students who have jobs will focus on skills and attitudes needed to succeed in employment. Career awareness and identification of interests and abilities will be emphasized for all students.		

WORLD LANGUAGES

In addition to providing the opportunity to learn basic study skills and the structure of language and grammar, foreign language study offers insight into the history and culture of other countries and increases opportunities for employment.

Most colleges recommend, and some require, high school language study for admission. A foreign language is required for the completion of many college majors. The U.W. Madison and many other colleges grant college graduation credit for high-school foreign-language study.

Chinese 1 FOR 110 1 Credit Elective 9, 10, 11, 12

Prerequisite: None

In Chinese 1 the emphasis is on speaking, but you also learn to write approximately 150 characters in traditional and simplified forms. The class explores Chinese internet sites, does word processing in Chinese, writes to pen pals, and learns about some aspects of China's geography, culture, traditional poetry, and current events.

Chinese 2 FOR 120 1 Credit Elective 9, 10, 11, 12

Prerequisite: Chinese I **or** teacher's signature

This course is a continuation of Chinese I. Emphasis is on the spoken language, but reading recognition of characters (both simplified and traditional), as well as the ability to write characters are cultivated. Cultural aspects of China are explored through short units on history, classical poetry, and philosophy. You correspond with pen pals, exchanging information on their interests, talents, lives inside and outside of school, fashions, endangered animals, ethnic groups, and more.

Chinese 3 FOR 130 1 Credit Elective 10, 11, 12

Prerequisite: Chinese 2 **or** teacher's signature

You study topics such as traveling to China, environmental and economic issues, selected periods of history, careers open to speakers of Chinese, traditional and modern culture, and the ethnic and geographic diversity of China. Readings from text books and authentic texts such as internet, childrens books, etc. are in both traditional and simplified characters`. Projects include communicating with students in China through blogs or letters, doing presentations to community members, and writing/creating projects to be shared with youth in China.

**Chinese
Language &
Culture AP**

FOR 140

1 Credit

Elective 11, 12

Prerequisite: Chinese 3 **or** teacher's signature
Chinese 4 is a continuation of Chinese 3 and also preparation for taking the AP Chinese exam. Many topics are shared with the previous year, but you work at a higher level. Activities may include writing and performing shadow puppet plays, researching crane species of China, studying the impact of rapid modernization and economic development, traditional art forms, Chinese history, and the ethnic and geographic diversity of China.

Projects include communicating with students in China through blogs or letters, reading internet, newspaper articles, children's literature, and historical tales, doing presentations to community members, and writing/creating projects to be shared with youth in China. More information is available at:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

French 1

FOR 210

1 Credit

Elective 9, 10, 11, 12

Prerequisite: None (Read introductory paragraph on world languages)
You will learn the French sound system and basic vocabulary and grammar in order to understand, read, speak and write simple French. You will learn about the people, geography and cultures of countries where French is spoken with special emphasis on France and French-speaking Africa. You will develop the habit of speaking only French in this class.

French 2

FOR 220

1 Credit

Elective 9, 10, 11, 12

Prerequisite: French 1 **or** two years of middle school French **and** recommendation of previous teacher. You will build on the skills and knowledge from French 1 with the goal of speaking only French. You will increase your vocabulary and learn to express yourself in the present, future and past both orally and in writing. You will learn more about francophone countries and cultures.

French 3

FOR 230

1 Credit

Elective 10, 11, 12

Prerequisite: Successful completion of French 2 **and** teacher's signature.
You will build on the skills and knowledge from French 1 and 2 with the goal of speaking only French in class. You will subsequently increase your vocabulary and further develop your ability to use present, past, future and subjunctive to understand, read, speak and write in French at the intermediate level. You will learn more about France and francophone cultures.

French 4 FOR 240 1 Credit Elective 11, 12

Prerequisite: Successful completion of French 3 **and** teacher's signature.
You will build on the skills and knowledge from French 1, 2 and 3 in this advanced-level course. You will increase your vocabulary and further develop your ability to understand and communicate only in French, engaging in more speaking and reading activities to build your proficiency to a higher intermediate level. You will learn more about France, French culture and francophone countries.

French Language AP FOR 250 1 Credit Elective 12

Prerequisite: Successful completion of French 1, 2, 3 and 4 in this college-level course. You will increase your vocabulary and further develop your ability to understand and communicate in French, engaging in much more reading and many speaking activities to build your proficiency to an advanced-level. You will learn more about the people and cultures of the French-speaking world. This class will prepare you for the French Language AP exam. More information is available at: <http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

German 1 FOR 310 1 Credit Elective 9, 10, 11, 12

Prerequisite: None (Read introductory paragraph on world languages)
You will learn basic language patterns, vocabulary, and German sound system in order to understand, speak, read, and write simple German. In addition you will learn about the people, geography, cultures, and countries where German is spoken.

German 2 FOR 320 1 Credit Elective 9, 10, 11, 12

Prerequisite: German 1 with a grade of C **or** teacher's signature
You will review and expand your skills and knowledge from German 1. You will study the geography and cultures of German-speaking countries.

German 3 FOR 330 1 Credit Elective 10, 11, 12

Prerequisite: German 2 with a grade of C **or** teacher's signature
You will review and expand your skills and knowledge from German 2, taking them from the beginning to the intermediate level. You will explore German culture through readings, tapes, and films.

German 4 FOR 340 1 Credit Elective 11, 12

Prerequisite: German 3 with a grade of C **or** teacher's signature
You will review and expand your skills and knowledge of German in this advanced-level course. You will have opportunities for consult with the teacher on individual-study reading, listening, and writing projects.

Spanish 1 FOR 410 1 Credit Elective 9, 10, 11, 12

Prerequisite: None (Read introductory paragraph on world languages)
 You will learn the Spanish sound system and basic vocabulary and grammar in order to understand, read, speak and write simple Spanish in the present and past tenses. You will learn about the people, geography and cultures of countries where Spanish is spoken. You will develop the habit of speaking only Spanish in this class.

Spanish 2 FOR 420 1 Credit Elective 9, 10, 11, 12

Prerequisite: Successful completion (recommended grade of C or better) of Spanish 1 and teacher's signature.
 You will build on the skills and knowledge from Spanish 1, speaking only Spanish in this class. You will substantially increase your vocabulary and learn many new tenses and grammatical structures in order to further develop your ability to understand, read, speak and write Spanish. You will learn more about the people and cultures of Spanish-speaking countries.

Spanish 3 FOR 430 1 Credit Elective 10, 11, 12

Prerequisite: Successful completion (recommended grade of C or better) of Spanish 2 and teacher's signature.
 You will build on the skills and knowledge from Spanish 1 and 2, speaking only Spanish in this class. You will substantially increase your vocabulary and further develop your ability to use all tenses and the subjunctive to understand, read, speak and write Spanish to an intermediate level. You will learn more about the people and cultures of the Spanish-speaking world.

Spanish 4 FOR 440 1 Credit Elective 11, 12

Prerequisite: Successful completion (recommended grade of C or better) of Spanish 3 and teacher's signature.
 You will build on the skills and knowledge from Spanish 1, 2 and 3 in this advanced-level course. You will increase your vocabulary and further develop your ability to communicate in Spanish, engaging in many more speaking and reading activities to build your proficiency to a higher intermediate level. You will learn more about the people and cultures of the Spanish-speaking world.

**Spanish
Language AP**

FOR 450

1 Credit

Elective 12

Prerequisite: Successful completion (recommended grade of C or better) of Spanish 4 AND teacher's signature.

You will build on the skills and knowledge from Spanish 1, 2, 3 and 4 in this college-level course. You will increase your vocabulary and further develop your ability to communicate in Spanish, engaging in much more reading and many speaking activities to build your proficiency to an advanced level. You will learn more about the people and cultures of the Spanish-speaking world. This class will prepare you for the Spanish Language AP exam. More information is available at:

<http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html>

WORK EXPERIENCE

Work Credit	WRK 111	½ Credit	(1 st Semester)	Elective 11, 12
	WRK 112	½ Credit	(2 nd Semester)	Elective 11, 12

Prerequisites:

- Be at least 16 years old,
- Be a 3rd year student with no more than 10 credits,
- Be a 4th year student with no more than 16 credits,
- Have a job with at least 10 hours of work per work, and
- Have your counselor's signature

You must see your counselor to make sure you qualify for Work Experience. You must pick up materials in the Student Services Office two weeks before the end of the semester, have your work supervisor complete his/her part of the materials, complete your part of the materials, and return the completed forms to your counselor in order to receive your credit. Failure to return the completed forms will result in failing the course.

You may NOT take Work Experience if you are in a Co-op Program in HERO, Business, or Marketing.

You may NOT have more than 2.0 total credits in Work Experience and Co-op programs in your 22 total credits.