Waterford School District

High School Course Catalog

2023-2024

Kettering High School
Mott High School
Durant High School

KURZMAN ADMINISTRATION SERVICES
CRARY CAMPUS
501 N. Cass Lake Road
Waterford, Michigan 48328
PHONE: (248) 682-7800

Dear Waterford High School Students:

This booklet has been prepared by the staff to be used by you and your parents in the selection of the courses you will take during your Waterford high school education.

Use the booklet to its fullest extent. Read it carefully. Select your courses for both semesters in coordination with your Educational Development Plan (EDP) to enable you to reach your goals. In addition, your selections determine the schedule for next year.

Discuss your course interests with your parents, counselor, teachers, and mentors. Ask questions and make certain that your selections meet your future needs. Finally, once you have determined your schedule, do your best to put forth the time and effort that will guarantee a successful year.

Sincerely,

Waterford Kettering, Waterford Mott, and Waterford Durant Administrators

WATERFORD SCHOOL DISTRICT VISION:

Inspired, Educated, and Empowered to Thrive!

Mr. Scott Lindberg, Superintendent

Mrs. Lisa Eldredge, Assistant Superintendent of Teaching and Learning

Ms. Sandra Elka, Assistant Superintendent of Business and Operations

WATERFORD KETTERING HIGH SCHOOL

Ben Harwood, Principal
Lori Taylor, Assistant Principal
Kelly Weber, Assistant Principal
Allison Sartorius, Athletic Director

2800 Kettering Drive
Waterford, MI 48329
Phone: 248-673-1261
Fax: 248-673-1778

Counselor Assignments
A-E: Rachel Lane
F-La: Ashley Hudson
Le-Ro: Ken Hembree
Ru-Z: Katie Nicholls

WATERFORD MOTT HIGH SCHOOL

Craig Blomquist, Principal
Christina Harding, Assistant Principal
Kevin Kokoszka, Assistant Principal
Allison Sartorius, Athletic Director

1151 Scott Lake Road
Waterford, MI 48328
Phone: 248-674-4134
Fax: 248-674-2825

Counselor Assignments
A-Ej: Mary Shelton
Ek-Ld: Carrie VanGorder
Le-Rt: Derek Wiley
Ru-Z: Maria Bell

2023-2024 Waterford High Schools Course Catalog is on the Waterford School District Website: https://www.waterford.k12.mi.us/

WATERFORD DURANT HIGH SCHOOL
CRARY CAMPUS

Kristen Woods-Helms, Principal
Linda Jackman, Counselor

501 N. Cass Lake Road
Waterford, MI 48328
Phone: 248-674-3145
Fax: 248-674-6320

Do you want to play SPORTS in High School?

Below is information you need to know for School Year 2023-2024.

- A completed **Sports Physical dated 4/15/23 or after by a medical professional**, a signed **Concussion Information Form**, signed **Code of Conduct**, and signed **Transportation Release are REQUIRED** for all practices/tryouts that take place after June 14, 2023. The forms are available at the Athletic Offices and on the Waterford School District website under **Athletics**, select "**Athletics Main**" (then scroll down to "**Athletic Resources**").
- **Physical Forms are two sided** and need to be **completely filled out to be valid** and should be given directly to the coach or to the Athletic Secretary (it is recommended that physicals are not turned in at the Main office or at Registration). **Please make a copy of the physical and file at home** for safe keeping and future reference.
- **Fall Dance Team and Fall Sideline Cheer Tryouts** are held at the end of May or beginning of June at each High School. Please check with your high school athletic department for specifics.
- **Most Fall sports and some Winter sports have pre-season conditioning during the summer**; information can be found by sport at the WSD website under Athletics Main.
- **All Fall Sports begin and have competitions BEFORE school is in session.** 2023 Football officially begins August 7, 2023. Girls Swim and Girls Volleyball, Cross Country, Girls Golf, Boys Soccer and Boys Tennis begin on August 7, 2023. **Winter Sports start dates**: Figure Skating October 7, Gymnastics and Hockey on Oct. 30, Girls Basketball & Competitive Cheer on November 13, Boys Basketball, Ski, Wrestling & Bowling on November 13; Boys Swim November 20, 2023. All **Spring Sports begin March 11, 2024** (Baseball, Boys Golf, Lacrosse, Girls Soccer, Softball, Girls Tennis and Track & Field).
- **First Semester Academic Eligibility:** All 9th graders are considered academically eligible for first semester; however, athletes are held to a weekly grade check. **Eligibility criteria**: athletes must have a passing grade in each class OR if they are failing 1 class the other classes must average at least a 2.0. Failure to meet this criteria results in the athlete sitting out competitions for a minimum of one week or until they meet the criteria on a week to week basis.
- **Second Semester Academic Eligibility** is based on 1st semester final grades. Winter athletes' final grades are checked at the beginning of 2nd semester. Students whose 1st semester final grades do not meet the academic criteria are not eligible to compete the remainder of winter season and the beginning of Spring. Grades can be rechecked the 60th day of the 2nd semester if the student passed at least 66% of their 1st semester classes and can regain semester eligibility to possibly finish out the spring season.

Please feel free to contact your High School Athletic Department with any questions you may have regarding participating in sports during the 2023-24 school year.

Laurie Ankoviak, Kettering Athletic Secretary – ankovl01@wsdmi.org Office: 248-674-0113

Kim Grinnell, Mott Athletic Secretary – GrinnK01@wsdmi.org Office: 248-674-3847

Allison Sartorius, District Athletic Director SartoA01@wsdmi.org

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STEM Geometry	MA-1025	1 credit/full year	10	36
STEM Algebra II	MA-1031	1 credit/full year	11	37
STEM Technical Mathematics	MA-1091	1 credit/full year	11, 12	38
STEM Conceptual Science with Earth Science Integration	SC-1005	1 credit/full year	9, 10	40
STEM Biology	SC-1015	1 credit/full year	10	41
STEM Physics	SC-1031	1 credit/full year	11,12	41
STEM Research and Design	SC-1091	1 credit/full year	11, 12	44
STEM AC Project Development	AL-1001	1 credit/full year	11, 12	52
Architecture and Construction:				
Architectural Computer Aided Drafting & Design	EM-1015	1 credit/full year	9, 10, 11, 12	15
Architectural Computer Aided Drafting & Design Lab	EM-1021	1 or 2 credit/full year	10, 11, 12	16
Arts and Communication:				
Introduction to Art	PV-1001	1/2 credit/semester	9, 10, 11, 12	16
Ceramics I	PV-1011	1/2 credit/semester	9, 10, 11, 12	16
Ceramics II	PV-1021	1/2 credit/semester	10, 11, 12	16
Ceramics III	PV-1025	1/2 credit/semester	10, 11, 12	17
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Digital Photography I	PV-1101	1/2 credit/semester	10, 11, 12	18
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Jewelry II	PV-1131	1/2 credit/semester	10, 11, 12	19
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Theatre Arts II - Acting	PV-1161	1/2 credit/semester	9, 10, 11, 12	19
Theatre Arts III – Advanced Acting & Directing	PV-1171	1/2 credit/semester	10, 11, 12	19
AP 2-D Art and Design	PV-3461	1 credit/full year	11, 12	19
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AP Drawing	PV-3481	1 credit/full year	11, 12	20
Beginning Instrumental Music	PV-1251	1/2 credit/semester	9, 10, 11, 12	20
Piano Keyboard I	PV-1261	1/2 credit/semester	9, 10, 11, 12	20
Piano Keyboard II	PV-1271	1/2 credit/semester	9, 10, 11, 12	20
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Advanced Placement Music Theory	PV-1451	1 credit/full year	10, 11, 12	21
Treble Chorus	PV-1281	1/2 credit/semester or 1 credit/full year	9, 10, 11, 12	21
Concert Choir	PV-1291	1/2 credit/semester or 1 credit/full year	9, 10, 11, 12	21
Treble Select	PV-1431	1/2 credit/semester or 1 credit/full year	9, 10, 11, 12	21
Chamber Singers (Madrigal Ensemble)	PV-1301	1/2 credit/semester or 1 credit/full year	10, 11, 12	21
Study of Jazz Improvisation	PV-1311	1 credit/full year	10, 11, 12	22
History of Rock & Popular Music Styles I	PV-1321	1/2 credit/semester	9, 10, 11, 12	22
History of Rock & Popular Music Styles II	PV-1521	1/2 credit/semester	9, 10, 11, 12	22
Introduction to Music Technology I	PV-1331	1/2 credit/semester	9, 10, 11, 12	22
Introduction to Music Technology II	PV-1341	1/2 credit/semester	9, 10, 11, 12	22
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Advanced Concert Band	PV-1361	1 credit/full year	9, 10, 11, 12	23
Advanced Jazz Band	PV-1391	1 credit/full year	9, 10, 11, 12	23
Orchestra	PV-1401	1 credit/full year	9, 10, 11, 12	23
Advanced Orchestra	PV-1411	1 credit/full year	9, 10, 11, 12	23

CAREER PATHWAYS & COURSE NAMES	COURSE NUMBER	# OF CREDITS	GRADES	PAGE #
Arts and Communication:				
Honors Concert Band	PV-2351	1 credit/full year	9, 10, 11, 12	23
Honors Jazz Band	PV-2391	1 credit/full year	9, 10, 11, 12	24
Guitar Ensemble	PV-1551	1/2 credit/semester	9, 10, 11, 12	24
Honors Orchestra	PV-2401	1 credit/full year	9, 10, 11, 12	24
Business, Management, Marketing & Technology:				
Accounting I	BT-1001	1 credit/full year	10, 11, 12	24
Advanced Accounting	BT-1021	1/2 credit/semester	11, 12	24
Building Wealth	BT-1031	1/2 credit/semester	9, 10, 11, 12	25
Entrepreneurship	BT-1041	1/2 credit/semester	10, 11, 12	25
Computer Skills for College & Career Success	BT-1051	1/2 credit/semester	9, 10, 11, 12	25
Advanced Computer Skills for College & Career Success	BT-1061	1/2 credit/semester	9, 10, 11, 12	25
Business Capstone Experience (Co-op)	BT-1071	1 credit/full year	11, 12	25
Business Capstone Experience (Co-op)	BT-1071	2 credits/full year	11, 12	25
Business Internship	BT-1081	1/2 credit/semester	10, 11, 12	25
Applied Computer/Business Skills	BT-1091	1/2 credit/semester	9, 10, 11, 12	26
Work Experience	BT-1101	1/2 credit/full year	10, 11, 12	26
Sports and Entertainment Marketing	BT-1121	1 credit/full year	10, 11 12	26
Marketing I (Foundations and Functions)	BT-1131	1 credit/full year	9, 10, 11, 12	26
Marketing II (Marketing Management)	BT-1141	1 credit/full year	10, 11, 12	27
Marketing Capstone Experience (Co-op)	BT-1151	1 credit/full year	11, 12	27
Marketing Capstone Experience (Co-op)	BT-1151	2 credits/full year	11, 12	27
Marketing Internship	BT-1161	1/2 credit/semester	10, 11, 12	27
Programming I	BT-1171	1/2 credit/semester	9, 10, 11, 12	27
Programming II	BT-1181	1/2 credit/semester	9, 10, 11, 12	27
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Networking II	BT-1231	1/2 credit/semester	10, 11, 12	28
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Advanced Placement Computer Science	BT-1391	1 credit/full year	11, 12	29
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Manufacturing & Industrial Technology:				
Woodworking I	EM-1041	1/2 credit/semester	9, 10, 11, 12	29
Woodworking II	EM-1051	1/2 credit/semester	9, 10, 11, 12	29
Advanced Woodworking	EM-1061	1 credits/full year	10, 11, 12	29
Health Sciences:				
Medical Language for Health Care Workers	HL-1031	1 credit/full year	11, 12	30
Human Service Occupations Capstone Experience (Co-op) (1 hr)	HL-1041	1 credit/full year	11, 12	30
Human Service Occupations Capstone Experience (Co-op) (2 hrs)	HL-1041	2 credits/full year	11, 12	30
Human Services:				
Nutrition	HU-1001	1/2 credit/semester	9, 10, 11, 12	30
Parenting	HU-1011	1/2 credit/semester	9, 10, 11, 12	30
Housing and Design	HU-1021	1/2 credit/semester	9, 10, 11, 12	30
Human Relationships	HU-1031	1/2 credit/semester	9, 10, 11, 12	30
Life Management	HU-1041	1/2 credit/semester	10, 11, 12	31
Personal Financial Management	HU-1051	1/2 credit/semester	11, 12	31
Clothing and Fashion	HP-1133	1/2 credit/semester	9, 10, 11, 12	31
Sexuality Education	HU-1061	1/2 credit/semester	11, 12	31
Early Childhood Education and Leadership	HU-1071	2 credits/full year or 1 credit/full year	10, 11, 12	32
Human Service Occupations Capstone Experience (Co-op) (2 hrs)	HU-1081	2 credits/full year	11, 12	32
Language Arts:				
Language Arts I	LA-1001	1 credit/full year	9	32
Language Arts II	LA-1011	1 credit/full year	10	32
Language Arts III	LA-1021	1 credit/full year	11	32
Language Arts IV	LA-1031	1 credit/full year	12	33

CAREER PATHWAYS & COURSE NAMES	COURSE NUMBER	# OF CREDITS	GRADES	PAGE #
Language Arts:				
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Humanities	LA-1061	1/2 credit/semester	11, 12	33
Creative Writing	LA-1071	1/2 credit/semester	11, 12	33
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Journalism	LA-1091	1 credit/full year	9, 10, 11, 12	33
Intro to Journalistic Writing/Media Literacy	LA-1105	½ credit/sem or 1 credit/year	9, 10,11, 12	34
Debate	LA-1131	1/2 credit/semester	9, 10, 11, 12	34
Myths and Legends	LA-1141	1/2 credit/ semester	11, 12	34
Yearbook	LA-1151	1 credit/full year	9, 10, 11, 12	34
ELD Academic Assistance	LA-1161	1/2 credit/semester	9, 10, 11, 12	34
ELD English	LA-1171	1 credit/full year	9, 10, 11, 12	35
AARI	LA-1181	1/2 credit/semester	9, 10, 11	35
Literacy Lab	LA-1201	1/2 credit/semester	9, 10, 11, 12	35
Broadcasting Journalism	LA-1221	1 credit/full year	10, 11, 12	35
Advanced Placement English Language & Composition	LA-3081	1 credit/full year	10, 11, 12	35
Advanced Placement English Literature & Composition	LA-3091	1 credit/full year	11, 12	35
Mathematics:				
Math Lab	MA-1001	1 credit/full year	9, 10, 11, 12	36
Algebra I	MA-1011	1 credit/full year	9, 10, 11, 12	36
STEM Algebra I	MA-1015	1 credit/full year	9	36
Geometry	MA-1021	1 credit/full year	9, 10, 11, 12	36
STEM Geometry	MA-1025	1 credit/full year	10	36
STEM Algebra II	MA-1031	1 credit/full year	11, 12	37
Algebra II	MA-1031	1 credit/full year	10, 11, 12	37
Beginning Algebra II Year 1	MA-1041	1 credit/full year	11, 12	37
Intermediate Algebra II Year 2	MA-1051	1 credit/full year	11, 12	37
College Mathematics	MA-1081	1 credit/full year	12	37
Pre-Calculus	MA-1091	1 credit/full year	11, 12	37
STEM Technical Mathematics	MA-1091	1 credit/full year	11, 12	38
Calculus	MA-1095	1 credit/full year	12	38
Statistics	MA-1111	1 credit/full year	10, 11,12	38
Advanced Placement Pre-calculus	MA-3082	1 credit/full year	10, 11, 12	38
Advanced Placement Statistics	MA-3061	1 credit/full year	10, 11, 12	38
Advanced Placement Calculus	MA-3091	1 credit/full year	12	39
Physical Education:				
Personal Fitness	PE-1001	1/2 credit/semester	9, 10, 11, 12	39
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Strength Fitness	PE-1021	1/2 credit/semester	9, 10, 11, 12	39
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Advanced Weight Training	PE-1051	1/2 credit/semester	10, 11, 12	40
Dance Foundations and Fitness	PE-1061	1/2 credit/semester		40
Movement, Mindfulness, and Stress Management	PE-1111	1/2 credit/semester		40
Advanced Conditioning for the Varsity Athlete	PE-1101	1/2 credit/semester	9, 10, 11, 12	40
Science:				
Conceptual Science with Earth Science Integration	SC-1001	1 credit/full year	9	40
STEM Conceptual Science with Earth Science Integration	SC-1005	1 credit/full year	9, 10	40
Biology	SC-1011	1 credit/full year	10	41
STEM Biology	SC-1015	1 credit/full year	10	41
Chemistry	SC-1021	1 credit/full year	10, 11, 12	41
Physics	SC-1031	1 credit/full year	10, 11, 12	41
STEM Physics	SC-1031	1 credit/full year	11, 12	41
Anatomy/Physiology	SC-1041	1 credit/full year	10, 11, 12	41
Crime Scene Investigation (Forensic Science)	SC-1051	1/2 credit/semester	12	42
Astronomy – The Solar System	SC-1071	1/2 credit/semester	10, 11, 12	42
Astronomy – Milky Way & Beyond	SC-1072	1/2 credit/semester	10, 11, 12	42
Honors Biology	SC-2011	1 credit/full year	9, 10	42
Honors Chemistry	SC-2021	1 credit/full year	10, 11, 12	42
Honors Physics	SC-2031	1 credit/full year	10, 11, 12	43
Advanced Placement Chemistry	SC-3021	1 credit/full year	11, 12	43
Advanced Placement Physics	SC-3031	1 credit/full year	11, 12	43

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Science				
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Advanced Placement Environmental Science	SC-3061	1 credit/full year	10, 11, 12	44
Advanced Placement Environmental Science with Project-Based Learning	SC-3071	1 credit/full year	10, 11, 12	44
STEM Research and Design	SC-1091	1 credit/full year	11, 12	44
Science, Technology, Engineering and Mathematics:				
Mechanical Computer Aided Drafting & Design Technologies	EM-1001	1 credit/full year	9, 10, 11, 12	44
Engineering Computer Aided Drafting & Design Lab	EM-1011	1 or 2 credit/full year	10, 11, 12	44
Engineering with Robotics	EM-1031	1 credit/full year	9, 10, 11, 12	45
Aerospace Engineering-UAV's (Drones)	EM-1181	1/2 credit/semester	10, 11, 12	45
Social Studies:				
United States History	SS-1001	1 credit/full year	9	45
World Studies	SS-1011	1 credit/full year	10	45
Honors United States History	SS-2001	1 credit/full year	9	45
American Civics: Our System of Government	SS-1025	1/2 credit/semester	11	46
American Civics: Our System of Economics	SS-1026	1/2 credit/semester	11	46
Current Issues	SS-1051	1/2 credit/semester	10, 11, 12	46
Street Law	SS-1061	1/2 credit/semester	10, 11, 12	46
Anthropology	SS-1071	1/2 credit/semester	10, 11, 12	46
Sociology	SS-1081	1/2 credit/semester	10, 11, 12	47
Psychology	SS-1041	1 credit/full year	10, 11, 12	47
Anti-Defamation League's "A World of Difference"	SS-1111	1 credit/full year	10, 11, 12	47
Advanced Placement Psychology	SS-3041	1/2 credit/sem or 1 credit/full year	11, 12	47
Advanced Placement Government	SS-3031	1 credit/full year	11, 12	47
Advanced Placement US Government and Politics with Project-Based Learning	SS-3032	I credit/full year	11,12	47
Advanced Placement World History	SS-3011	1 credit/full year	10, 11, 12	48
Advanced Placement United States History	SS-3001	1 credit/full year	10, 11, 12	48
Advanced Placement Economics	SS-3021	1 credit/full year	11, 12	48
Advanced Placement Human Geography	SS-3051	1 credit/full year	9, 10, 11, 12	48
Student Leadership	SS-1091	1/2 credit/semester	9, 10, 11, 12	48
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World Languages:				
French I	WL-1001	1 credit/full year	9, 10, 11, 12	49
French II	WL-1011	1 credit/full year	10, 11, 12	49
French III	WL-1021	1 credit/full year	10, 11, 12	49
French IV	WL-1031	1 credit/full year	12	50
Advanced Placement French	WL-3031	1 credit/full year	12	50
Spanish I	WL-1041	1 credit/full year	9, 10, 11, 12	50
Spanish II	WL-1051	1 credit/full year	9, 10, 11, 12	50
Spanish III	WL-1061	1 credit/full year	10, 11, 12	50
Spanish IV	WL-1071	1 credit/full year	11, 12	51
Advanced Placement Spanish	WL-3071	1 credit/full year	12	51
Spanish for Heritage Speakers	WL-1075	1 credit/full year	9, 10, 11, 12	51
German I	WL-1081	1 credit/full year	9, 10, 11, 12	51
German II	WL-1091	1 credit/full year	10, 11, 12	51
German III	WL-1101	1 credit/full year	11, 12	52
German IV	WL-1111	1 credit/full year	11, 12	52
Advanced Placement German	WL-3111	1 credit/full year	12	52
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LINKS (Peer to Peer)	AL-1011	1/2 credit/semester	11, 12	53
Video Production I	AL-1041	1/2 credit/semester	10, 11, 12	53
Video Production II	AL-1051	1/2 credit/semester	10, 11, 12	53
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Language Arts I	LR-1001	1 credit/full year	9	53
Language Arts II	LR-1011	1 credit/full year	10	53
Language Arts III	LR-1021	1 credit/full year	11	53
Language Arts IV	LR-1031	1 credit/full year	12	54

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Consumers Math II	LR-1061	1 credit/full year	9, 10, 11, 12	54
Algebra I	LR-1211	1 credit/full year	9, 10, 11, 12	54
Geometry	LR-1221	1 credit/full year	9, 10, 11, 12	54
U. S. History	LR-1301	1 credit/full year	9	55
World Studies	LR-1311	1 credit/full year	10	55
American Civics (one semester each of Government & Economics)	LR-1321	1 credit/full year	11	55
Biology	LR-1411	1 credit/full year	9, 10, 11, 12	55
Conceptual Science with Earth Science Integration	LR-1414	1 credit/full year	9, 10, 11, 12	56
Chemistry	LR-1421	1 credit/full year	10, 11, 12	56
Physics	LR-1431	1 credit/full year	10, 11, 12	56
Personal Achievement	LR-1141	1 credit/full year	9, 10, 11, 12	56
Employability Skills I	LR-1161	1/2 credit/semester	9, 10, 11, 12	57
Employability Skills II	LR-1161	1/2 credit/semester	10, 11, 12	57
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Key to Pathway reference in course descriptions:

AC	Arts and Communication	HSci	Health Sciences
BMMT	Business, Management, Marketing and Technology	HSer	Human Services
E/M&IT	Engineering/Manufacturing and Industrial Technology	NR&A	Natural Resources and Agriscience

EDP/CAREER PATHWAYS INFORMATION

Business, industry, and the technical fields have specific requirements for employment or further training after high school. Careful planning of the course of study will assist in ensuring proper preparation for success in the job or career of choice.

A primary goal of the Waterford School District is to prepare each student to realize personal, educational, and occupational goals. For most individuals, these goals will be realized after completing additional training or education beyond high school. No goal can be attained, however, without a plan. No plan will guarantee success in realizing career goals; a student having clear goals in life, a plan to realize those goals, and a desire to succeed will be better assured of success than the student with less preparation and commitment. It is our hope that each student will be the best student that they can be.

The Waterford School District has a career development program that delivers a comprehensive career guidance curriculum that is designed to better prepare our youth to meet the challenges of a global economy. This process incorporates career awareness activities and includes the development of an **EDP (Educational Development Plan).** A student's EDP will be reviewed at each grade level to ensure that the student's stated career objective is in alignment with the course of study, and that each student is making progress toward meeting district outcomes for graduation. Students access Xello, a web-based program, for the purpose of completing their EDP. (See additional information below.)

The State of Michigan has established Career Pathways that are broad groupings of careers that share similar characteristics and whose employment requirements call for many common interests, strengths, and competencies. Six Career Pathways have been identified to cover all career opportunities regardless of educational requirements. Through the development of an EDP, students will obtain an awareness of pathways that correlate with their interests and strengths. Recommended four year High School plans for each career pathway are available on the WSD website: http://www.waterford.k12.mi.us: click on *Parents and Students*, then on *High School Course Catalog*. The four year plans are based on student year of graduation and postsecondary goals.

ACCESSING XELLO

Xello is a web-based EDP program that provides students and parents easy access to all of the career research and assessment results in the EDP. In addition, Xello contains information on careers, colleges/universities, and financial aid. To access Xello, students will visit www.xello.world and login using the unique student ID and password. Students are issued a personal ID and password for developing, accessing, and modifying their individual EDP with Xello. Students will revisit various items in Xello during each of their four year in high school. Items to be revisited include Learning Styles, Personality Styles, Work Values, Career Path Choices, and Career Matches. Other items listed below will be explored specific to each grade level.

CAREER PREPARATION ACTIVITIES BY GRADE:

9th Grade Xello EDP Activities

- Exploring Career Factors
- Study Skills and Habits
- Getting Experience

10th Grade Xello EDP Activities

- Career and Lifestyle Costs
- Workplace Skills and Attitudes
- Program Prospects

11th Grade Xello EDP Activities

- Choosing a College
- Entrepreneurial Skills
- Work/Life Balance

12th Grade Xello EDP Activities

- Career Demand
- Career Backup Plans
- Job Interviews
- Defining Success

Michigan Career Pathways

Arts and Communications: careers related to humanities and performing, visual, literary and media arts. These include architecture; graphic, interior, and fashion design; writing; film; fine arts; journalism; languages; media; advertising; and public relations.

Business, Management, Marketing and Technology: careers related to the business environment. These include entrepreneurship, sales, marketing, computer/information systems, finance, accounting, personnel, economics and management.

Engineering/Manufacturing and Industrial Technology: careers related to technologies necessary to design, develop, install and maintain physical systems. These include engineering, manufacturing, construction, service and related technologies.

Health Sciences: careers related to the promotion of health and treatment of disease. These include research, prevention, treatment and related health technologies.

Human Services: careers related to economic, political and social systems. These include education, government, law and law enforcement, leisure and recreation, military, religion, child care, social services and personal services.

Natural Resources and Agriscience: careers related to agriculture, the environment and natural resources. These include agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture and wildlife.

To graduate from a high school in the Waterford School District, students must successfully complete the following requirements:

Requirements	
Graduation Class	2024-2027
Total Credits Required to Graduate	24
Language Arts **Required: Path I or Path II of ELA Options.* *(see page 4)*	4.0*
Mathematics **Required: Algebra I, Geometry, Algebra II and a full credit (1.0) of Math or Math related course(s) in the senior year.*	4.0*
Science **Required: Path I or Path II of Science Options, including Biology, Chemistry or Physics.* *(see page 5)*	3.0*
Social Studies **Required: United States History, World Studies, Economics and Government*	3.0*
World Language *2 credits of same language or Option A: 1 credit of Language and 1 PAVA credit, or option B: 1 credit language and completing one of the CTE Programs.*	2.0*
Physical Education *Required: Personal Fitness (0.5) and Health (0.5)	1.0*
Performing and Visual Arts (PAVA)	1.0
Additional Requirements *Additional PAVA or Career Technical Education (CTE)* *Michigan Merit Exam (MME)*	 1.0* Valid score*
Open Electives	5.0

**Michigan Merit Curriculum Requirement*

The course options below are only suggestions. Many students follow these suggestions; however, we always recommend that parents, students, and counselors meet and design a course path that best meets their needs.

English Language Arts Options

	9th Grade	10th Grade	11th Grade	12th Grade
Path I: Traditional sequence for students to fulfill ELA graduation requirements	LA I	LA II	LA III or AP Language and Composition	LA IV or AP Literature and Composition
Path II: Students must have successfully earned credit in LA I during their 8th grade year. Recommended path for preparation for Advanced Placement courses	LA II	LA III or AP Language and Composition	LA IV or AP Literature and Composition	AP Literature and Composition or AP Language and Composition or Dual Enrollment or Electives

Math Path Options

Options	9th Grade	10th Grade	11th Grade	12th Grade
⟹	STEM Academy, Algebra I	STEM Academy, Geometry	STEM Academy, Algebra II	STEM Academy, College Mathematics, Statistics or AP Statistics, AP/Pre-Calculus or Math Elective or Math Related Class. *See list on page 6.
⟹	Algebra I	Geometry	Beginning Algebra II Year 1, Algebra II	Intermediate Algebra II Year 2, College Mathematics, Pre-Calculus, Statistics or AP Statistics or Math Elective or Math Related Class. *See list on page 6.
⟹	Geometry	Algebra II	STEM Academy, AP/Pre-Calculus, AP/Statistics	STEM Academy, AP/Pre-Calculus, Calculus, AP Calculus or AP Statistics or Math Elective or Math Related Class. *See list on page 6.
⟹	Algebra II	STEM Academy, AP/Pre-Calculus, Statistics, AP Statistics	STEM Academy, AP/Pre-Calculus, Calculus or AP Calculus, Statistics or AP Statistics	STEM Academy, AP/Pre-Calculus or Calculus, AP Calculus, Statistics or AP or Math Elective, Dual Enrollment, or Math Related Class. *See list on page 6.

The course options below are only suggestions. Many students follow these suggestions; however, we always recommend that parents, students, and counselors meet and design a course path that best meets their needs.

Science Options

Option	9th Grade	10th Grade	11th Grade	12th Grade
Path I: Traditional sequence for students to fulfill Science graduation requirements.	STEM Academy, Conceptual Science with Earth Science Integration	STEM Academy, Biology, Honors Biology, AP Environmental, AP Environmental Science with PBL, Science, Astronomy	STEM Academy, Chemistry, Honors Chemistry, Physics, Honors Physics, AP Courses as desired, Science Electives or Science Related Courses*	STEM Academy, Chemistry, Honors Chemistry, Physics, Honors Physics, AP Courses as desired, Science Electives or Science Related Courses*
Path II: Students must have instructor approval for Honors Biology Placement and enroll in full year honors courses for grade 10. Recommended path for preparation for Advanced Placement courses.	STEM Academy, Honors Biology (Requires Instructor Approval)	STEM Academy, Honors Chemistry, Honors Physics, AP Environmental Science, AP Environmental Science with PBL, Astronomy *If Honors Chemistry or Honors Physics is not selected, students must take Conceptual Science with Earth Science Integration.*	STEM Academy, Honors Chemistry, Honors Physics, AP Courses as desired, Science Electives or Science Related Courses*	STEM Academy, Honors Chemistry, Honors Physics, AP Courses as desired, Science Electives or Science Related Courses*

Social Studies Options

Option	9th Grade	10th Grade	11th Grade	12th Grade Not Required
→	United States History	World Studies	Economics and Government	Electives or AP courses as desired
→	Honors US History	World Studies or AP World History	Economics and Government or AP Economics and AP Government or AP Government with PBL	Electives or AP courses as desired
→	AP Human Geography	AP World History	AP Economics and AP Government or AP Government with PBL	AP US History and Electives or AP courses as desired

Additional Credits

Math

All students must earn Algebra I, Geometry and Algebra II credit. In addition to these required mathematics credits, an additional 1.0 credit must be earned in math in the senior year by taking a math course or math-related courses. Students can earn math credit through the successful completion of courses in the mathematics department, or the following math related courses:

1.0 Accounting I
.5 Advanced Accounting
.5 Building Wealth
.5 Programming I
.5 Programming II
.5 Advanced IT Topics
.5 Web Design I
.5 Web Design II
.5 Networking I
.5 Networking II
1.0 Engineering with Robotics
1.0 Mechanical CADD
1.0 Architectural CADD
1.0 Engineering CADD Lab
1.0 Architectural CADD Lab
.5 Woodworking I
.5 Woodworking II
1.0 Advanced Woodworking
1.0 Physics, Honors Physics or AP Physics - if not used for science requirement
1.0 Chemistry, Honors Chemistry, or AP Chemistry – if not used for science requirement
.5 Personal Financial Management
1.0 AP Computer Science
1.0 AP Computer Science Principles
1.0 Aerospace Engineering – UAV's

Science

All students must earn credit in based upon the two science pathways. Students can earn science credit through the successful completion of courses in the science department and/or the following science related courses:

Programming (includes Programming I, II, and Mobile App Development)
Networking Program (includes Networking I and Networking II)
Mechanical CADD
Business Program (Computer Skills for C&CS, Advanced Computer Skills for C&CS, Building Wealth, and Entrepreneurship)
Marketing Program (includes Marketing I & II)
Web Design (includes Web Design I & II)
Architectural CADD
Engineering with Robotics
Accounting Program (includes: Accounting and Advanced Accounting)
Aerospace Engineering – UAV's

World Language

All students must earn one world language credit. In addition to this requirement, an additional 1.0 credit must be earned in world language by graduation by taking a consecutive world language course, a PAVA course, or a CTE program. Students can earn world language credit through the successful completion of courses in the world language and PAVA departments or the following CTE programs:

Programming (includes Programming I, II, and Mobile App Development)
Networking Program (includes Networking I and Networking II)
Accounting Program (includes: Accounting I & Advanced Accounting)
Mechanical CADD
Architecture or Engineering CADD Lab
Medical Language
Web Design (includes Web Design I & II)
Business Program (Computer Skills for C&CS, Advanced Computer Skills for C&CS, Building Wealth, and Entrepreneurship)
Architectural CADD
Engineering with Robotics
Marketing Program (includes Marketing I & II)
Aerospace Engineering – UAV's

Waterford School District Procedures for Grading:

A. The purpose of grading is to ascertain and to communicate, fairly and accurately, the academic achievement of each student. Grades will reflect student level of mastery based on teacher professional judgment, not just on mechanical calculations. Waterford teachers will adhere to consistent procedures for grading.

B. Categories will distinguish between Achievement/Assessment factors and Practice factors
   a. Parents and students will be aware of which category assignments fall into (i.e. marked in MiSTAR)
   b. Achievement/Assessment Factors will be clearly identified in the gradebook with an **!** before the title of the assignment for long and short names in MiSTAR

C. Coursework may be weighted differently within a category: test vs. quiz or assignments vs. discussion

D. Late work:
   a. Practice: Late work, at a minimum, will be accepted for full credit through the end of the unit. Teachers' policies will be clearly communicated to students and parents in the course syllabus. Missing Practice assignments: Assignments not received will be marked as missing, which will be coded in MISTAR gradebooks to count as zero in grade calculations. Missing assignments not turned in by deadline will be changed to a zero.
   b. Achievement/Assessment: Missing work from the Achievement/Assessment category will be accepted for full credit until two weeks before the end of the semester.

E. Achievement/Assessment Factor grading:
   a. No Attempt-Refusal to Attempt: Scored as Missing in MiSTAR (which calculates as 0%). Teacher will include comment in MiSTAR
   b. Attempt and score at 50% or below: Score of 50%; Teacher comment will note the actual score earned

F. Frequency of Assessments: At a minimum, each course will have at least 4 "Achievement/Assessment" grades each semester

G. Retakes for Achievement/Assessment Factors:
   a. Students will be allowed to complete Assessment retakes until the week before the end of the quarter for middle school and the semester for high school courses.
   b. The retake policy for each course will be clearly stated in the course syllabus. Teachers may require test corrections, completion of missing work, or other stipulations prior to retake.
   c. All students will be given the opportunity to reassess regardless of their previous score and given the opportunity to earn full credit on the assessment
   d. When a student retakes an assessment, the original score and the fact it was a retake will be noted in MiSTAR comments

H. Extra credit: The district will no longer be offering extra credit in classes as students will have the opportunities to make up/retake assessments to improve their grades and demonstrate their learning.

I. Earning a grade in classes for move-ins or late class entries: Course grade will be determined by the teacher considering any previous available body of work and their performance in the Waterford course.

J. Items in the grade book related to the course but that do not reflect an opportunity for learning (i.e. signed syllabus, attending a field trip, etc.) can be included but will be left ungraded.

K. Grades/Progress will be updated weekly in MiStar and/or through parent communication.

L. Final Exams will count for 10% of the overall semester grade.

The table below describes how "Practice" and "Achievement/Assessment" grading factors might be categorized when weighing grades, and includes weights and grading scales. The Course Syllabus will identify practice and achievement/assessment factors for each class.

Practice Factors: Weighted at 25%	**Achievement/Assessment Factors: Weighted at 75%**
Opportunities and activities to learn content or skills	Demonstration of learning of content
Examples: • Daily/reading assignments • Homework/classwork/class discussions • Checks for Understanding • Engage/explore lessons/journal prompt	Examples: • Test or quiz • Performance • Demonstration in essays/projects • Semester/final/unit summative

DISTRICT/COMMON GRADING SCALES

District/Common Grading Scales:

A	**92.5%**
A-	**89.5%**
B+	**86.5%**
B	**82.5%**
B-	**79.5%**
C+	**76.5%**
C	**72.5%**
C-	**69.5%**
D+	**66.5%**
D	**62.5%**
D-	**59.5%**
E	**0.0%**
Pass/Fail Classes	
P	**75%**
F	**0%**

GRADE	GRADE POINT	*WEIGHTED GRADE
A	**4.0**	**5.0**
A-	**3.67**	**4.67**
B+	**3.33**	**4.33**
B	**3.0**	**4.0**
B-	**2.67**	**3.67**
C+	**2.33**	**3.33**
C	**2.0**	**3.0**
C-	**1.67**	**2.67**
D+	**1.33**	**2.33**
D	**1.0**	**2.0**
D-	**.67**	**1.67**
E	**0**	**0**

NCAA ELIGIBILITY – JUNIORS & SENIORS

If you are planning to enroll in college as a freshman and you wish to participate in Division I or II athletics, you must register and be certified by the NCAA Eligibility Center. Students may not practice or receive aid without being certified. To begin the registration process, students must register online at NCAA Eligibility Center to submit their application. It is strongly recommended that students register no later than the end of their junior year in high school. Please visit www.Eligibilitycenter.org to register.

To be certified by the Eligibility Center, the student must graduate from high school and meet NCAA academic standards.

To obtain additional details regarding criteria for freshmen eligibility, please refer to the Interscholastic Athletic Code of Conduct on the District website or contact your counselor or the athletic department.

Information on NCAA Academic Eligibility Requirements can also be found on the following website: www.ncaa.org.

You may also call the NCAA Initial-Eligibility Center toll free at 877-262-1492.

It is the parent/student responsibility to ensure that the courses taken in high school meet NCAA requirements for the chosen college/university.

TESTING PROGRAM

Michigan Merit Exam

The Michigan Merit Exam (MME) is made up of a college readiness assessment and the ACT WorkKeys test, plus additional tests created in Michigan in the areas of science and social studies.

MME testing is currently divided into three parts: SAT, the ACT WorkKeys, and M-Step assessment in science and social studies tests. Every student must take the Michigan Merit Exam to be eligible for a Waterford School District diploma.

For additional information on the Michigan Merit Exam, visit www.michigan.gov/mme.

The ACT

The ACT is an entrance exam used by colleges and universities for college admission decision. This test provides colleges with one common criterion that can be used to compare all applicants. The weight placed on ACT scores varies from school to school.

The ACT has four sections: English, Reading, Math and Science, as well as an optional 30 minutes writing test. The test lasts for 3 hours, 3 ½ including the optional writing portion. Students earn one ACT score ranging from 1 to 36 on each test (English, Math, Reading and Science) and a composite ACT score, which is an average of the four tests. The national average for a composite score is 21.

The ACT entrance exam is offered six times a school year. You may pick up your ACT registration packet in the counseling office, or go online to www.actstudent.org for a calendar of testing dates and further details.

Preliminary Scholastic Aptitude Test (PSAT)

The Preliminary Scholastic Aptitude Test (PSAT) is the forerunner of the SAT, offering students the opportunity to be exposed to the SAT testing format. This test is also the qualifying exam for the National Merit Scholarship Program and thus it is recommended that all juniors take it. Students can use their PSAT scores to project corresponding SAT scores. Average or better-than-average scores show that students are probably developing the kinds of skills needed for academic success in college.

As with the SAT, the Writing, Critical Reading, and Mathematics aptitudes are tested on the PSAT. Through its voluntary Student Search Service, colleges mail information to students who meet certain criteria and who may be interested in the programs and majors they offer.

The PSAT is offered only once during the junior year – on a national testing date in October. Study guides are available when you register. Eighth graders, freshmen, and sophomores are required to take the PSAT 8/9 and the PSAT 10 in the spring.

The Scholastic Aptitude Test (SAT)

The Scholastic Aptitude Test (SAT) is administered by the College Board and is the preferred admission test for colleges in New England, New York, and the West Coast. The SAT scores are utilized in determining state financial aid for residents in these states.

If the student's out-of-state college prefers the SAT, check first to see if the college will also accept ACT scores. Most colleges that use the SAT also use an equivalency system that shows comparable ACT-SAT scores.

The SAT includes three sections: Evidence Reading and Writing, Mathematics, and an Essay. The sections measure many different areas including but not limited to grammar, sentence completion, passage-based reading, measures extending reasoning, literal comprehension, vocabulary in context, Algebra I, Algebra II, functions, Geometry, Statistics probability, data analysis through multiple choice items, student produced responses and the written essay component.

A number of selective colleges require one or more SAT Subject Tests in addition to the entrance exam. Subject Tests help determine how well prepared students are for various college programs, and they serve as placement tests. Students should take the SAT on a date prior to the date they take SAT Subject Tests, noting the strict deadlines. Colleges will not modify their due date.

Juniors are required to take the SAT in the spring of each year.

Pick up your SAT registration packet in the counseling office, or go online to www.collegeboard.com for a calendar of testing dates and for further details. Waterford Kettering is a scholastic aptitude test administration site for all Waterford students.

Armed Services Vocational Aptitude Battery (ASVAB)

The ASVAB is a free career-exploration program that assists students in identifying aptitudes for a variety of careers. An aptitude is a capability that you have developed to become proficient in a certain type of activity, if given the opportunity. Students may discover that they are capable of learning a particular type of work and pursuing certain types of training.

Included in the program is an aptitude assessment test and Exploring Careers, the ASVAB workbook, which students may keep to continue their career investigation. The workbook contains Interest-Finder, a self-administered interest inventory, and information on more than 200 careers.

ASVAB scores do not affect school grades. ASVAB scores are not included on the high school transcript, and they are not sent to colleges. The ASVAB is administered by specially trained test administrators from the federal government, and it is offered on a specified day each fall. The test lasts three hours. Taking the ASVAB does not obligate students to the military in any way. ASVAB information is not made available to the Selective Service System.

What is a personal curriculum?

The personal curriculum (PC) is a process to modify specific Michigan Merit Curriculum (MMC) high school credit requirements and/or content expectations based on a student's unique learning needs and post-secondary goals. It is designed to serve students who want to accelerate or go beyond the MMC requirements and students who need to individualize MMC requirements to earn a high school diploma.

Who may request a personal curriculum?

A personal curriculum may be requested by

- The parent or guardian of a student for whom a personal curriculum is sought, or
- the student if the student is of the age of majority,
- or an emancipated minor may request a personal curriculum,
- a teacher who is currently teaching the student (who currently teaches in, or whose expertise is in, a subject area proposed to be modified by the PC, or who is determined by the principal to have qualifications otherwise relevant to developing a PC), or
- a school counselor or school employee qualified to act in a counseling role.

If the request for a PC is made by the student's parent or legal guardian or, if the student is at least age 18 or is an emancipated minor, by the student, the school district shall develop a PC for the student pursuant to the parameters outlined in 380.1278b(5).

When may a personal curriculum be requested?

If the student has an Individualized Education Program (IEP), the personal curriculum request may be submitted prior to 9th grade.

(Note: Any resulting PC may not be implemented until the student begins/enters 9th grade.) If the student does not have an Individualized Education Program (IEP), the personal curriculum request may be requested after the student has completed 9th grade.

For more information on the Personal Curriculum (PC), or to make a request for a PC, please contact your student's counselor.

ASSESSMENT FOR CREDIT

The Waterford School District offers Assessment for Credit in August of each year. Interested students are eligible to request to take an Assessment for Credit in any courses required for graduation beginning in March of their 8th grade year and each subsequent year. Additionally, interested students are eligible to request to take an Assessment for Credit for the second semester in any courses required for graduation beginning in October of their 9th grade year and each subsequent year. The credit earned will count towards meeting graduation requirements. There is no maximum number of assessments the students may elect to take; however, a student may not take an assessment out of the required content sequence. Students are required to take an online and/or written examination. In addition to the examination, the assessment may include a written test, portfolio, performance demonstration, paper or project. Students may earn credit if they successfully complete subject area content expectations or guidelines for the credit with an assessment score of 77% or better in each section of the test. Students will not receive a grade for this credit, but it will count towards a graduation credit with a "P" for pass on the student's transcript. Please understand that credit earned in a core course will not be accepted by the NCAA for students wishing to participate in sports at Division I or Division II schools.

Procedure for Assessment for Credit

1. Students must consult and complete the online application with their high school counselor.
2. Online applications are accepted beginning February 27, 2023 and due no later than March 10, 2023 at 2:30 pm for the summer opportunity; for the second semester opportunity, applications are accepted beginning October 23, 2023 and due no later than October 27, 2023 at 2:30 pm.
3. Summer test dates will be July 31, 2023 - August 4, 2023 and second semester dates will be November 13, 2023 - November 17, 2023. Specific test dates during the testing window will be set once all applications have been received. There will be no private assessments arranged. Students must make arrangements to take the assessment on the specified day and time. In the event the proctor is not available on the date and no replacement can be found, an alternate date will be set.
4. Students who have applied to test will receive confirmation sent to their district student email with information on accessing any prep materials that may apply, and the specifics for the assessment location, date and time.
5. All assessments, including materials supplied by the student for the assessment will remain the property of the school district and will not be returned to the student.
6. Once the assessment has taken place, students must return any borrowed books, non-consumable materials to the student's high school bookkeeper. Students will be charged for any non-consumable materials not returned.
7. Students will receive their assessment results sent to their district student email. The counseling office at the students school will also receive the results should any schedule changes need to be made and/or requested.

DUAL ENROLLMENT PROCEDURES

Students may enroll in college level courses that may count for both high school and/or college credit(s).
State law (Public Act 160, Postsecondary Enrollment Options Act and Public Act 258, Career and Technical Preparation Act) mandates that tuition, mandatory fees, and registration fees be paid only if the following criteria are met:

- The student must be enrolled in the WSD during the time of Dual Enrollment.
- The student must be enrolled in the postsecondary institution during the academic school year.
- Students are eligible for courses in the subject area in which the student has met the State of Michigan eligibility requirements including valid test scores. See your counselor for more information on course eligibility.
- The postsecondary course must not duplicate a course offered at the school.
- The student must be enrolled in at least one course at the high school and be carrying a combination of seven (7) classes between the two institutions.
- Students who withdraw from a college course(s) may not add replacement courses at the high school. **Parents and students are responsible for tuition and fees for courses dropped after the allowable drop/add period.**
- At the time of enrollment, students can choose to receive college credit, high school credit, or both. Credit toward high school graduation will be .5 credit per each college course successfully completed. Courses taken will be recorded on the student's high school transcript and calculated into the HS grade point average.
- The student must provide transportation to and from the postsecondary school.

DUAL ENROLLMENT PROCEDURES

Eligible college courses:

1. The course must not be offered by Kettering or Mott (including AP and online courses).
2. Offered by Kettering or Mott but determined by the Board of Education not to be available to the student because of scheduling conflicts beyond the student's control.
3. Cannot be a hobby, craft or recreational, physical education, theology, divinity or religion education.
4. A course offered by the postsecondary institution that is offered for a certificate, degree, or program completion requirement or leads to an industry-recognized credential not offered through the school district, ISD, or area vocational-technical program in which the eligible pupil in enrolled.
5. The overall number of courses a student may enroll in varies depending on the student's grade in school.

School districts are required to pay the lesser of: (a) the actual charge for tuition, mandatory course fees, material fees and registration fees; or (b) the state portion of the student's foundation allowance, adjusted to the proportion of the school year they attend the postsecondary institution. The portion of tuition and fees to be covered by the Waterford School District is determined by a formula developed by the Michigan Department of Education identified in Public Act 160. **Student's payment will vary depending upon the college selected, courses selected, textbooks required, tuition, and material and lab fees required for the course(s) selected. The student is responsible for any portion of the tuition and fees not covered by the school district.**

The State of Michigan School Code of 1976, as amended by 1993 Public Act 335, Section 1150 states that: Any student not meeting the above standards may receive dual credit for course work at a community college or public university with no reimbursement of cost.

Contact your counselor if you are considering dual enrollment and to determine if the course is eligible for reimbursement.

ADVANCED PLACEMENT PROGRAMS

Students have a variety of advanced placement (AP) courses available to them. AP courses follow a syllabus developed by the College Board and aim to prepare students for the AP Exam in the Spring. These courses are designed for highly motivated students who demonstrate strength in a particular curricular area. Students are responsible for the exam fee; however, they may receive college credit if they are able to demonstrate competency.

The AP College Board offers more than 30 courses across multiple subject areas. You are not required to take an AP class to sign up for an AP Exam. If you are interested in obtaining more information about advanced placement courses or an AP Exam for an area not listed here, please contact your counselor for more information.

The following courses are available to students depending upon student pre-enrollment:

Language Arts	**Mathematics**	**Social Studies**	**Science**
AP English Language & Composition III	AP Calculus	AP US History	AP Biology
AP English Literature & Composition IV	AP Statistics	AP Government/with PBL	AP Chemistry
	AP Pre-calculus	AP World History	AP Physics
		AP Psychology	AP Envir. Science/with PBL
		AP Economics	
		AP Human Geography	

Arts & Communication: Music	**World Languages**	**Career & Technical Education**
AP Music Theory	AP French	AP Computer Science
AP 2-D Art and Design	AP German	AP Computer Science Principles
AP 3-D Art and Design	AP Spanish	
AP Drawing		

Advanced Placement courses are assigned a weighted grade.

The Waterford School District currently has articulation agreements with Baker College, Davenport University, Ferris State University, and Oakland Community College. An articulation program involves a postsecondary institution awarding college credit to students enrolled in specific courses. The postsecondary institution awards credit in the following classes in which the student meets all conditions and requirements. Students should contact their counselor for more information regarding the articulation program.

Baker College	
Accounting Advanced Accounting Advanced Networking II Architectural Drafting/Design Architectural Drafting/Design Lab Building Wealth Business Management Computer Applications/Skills Engineering Drafting/Design Engineering Drafting/Design Lab	Engineering Graphics Engineering Graphics Fundamentals of Accounting Marketing I Medical Language Health Care Workers Networking Programming II Sports/Entertainment Marketing Web Design
Davenport University	
CTE: Accounting I Advanced Accounting Business Management Sports/Entertainment/Marketing Marketing I (Foundations & Functions) Marketing II (Marketing Management) Programming II Advanced IT Topics	Web Design II Networking II Engineering Drafting and Design Engineering Drafting and Design Lab Architectural Drafting & Design Architectural Drafting & Design Lab <u>Non-CTE:</u> Journalism Yearbook
Ferris State University	
Sports/Entertainment/Marketing Accounting Advanced accounting Marketing I Marketing II	Business Management Programming II Advanced IT Topics Web Design II
Oakland Community College	
Business Management Web Design II Networking II Sports/Entertainment/Marketing Marketing I Marketing II	Programming II Advanced IT Topics Architectural Drafting & Design Architectural Drafting & Design Lab Engineering Drafting and Design Engineering Drafting and Design Lab

Work-Based Learning programs are planned programs of job training and experiences that utilize business and industrial sites for training as part of the school educational program. These programs use experience in successful work settings to achieve desired outcomes and are organized so that students acquire attitudes, skills, and knowledge for work, a career, and other life roles. The programs include capstone experience (co-op), internships, and work experiences.

Capstone Experience — Full Year – 1-3 credits

Capstone Placements are available in business, health, child care, marketing, and information technology. Capstone links the school's academic and occupational course of study with supervised on the job training. The experiences are relevant to the student's identified career goals. Capstone students are released from school one, two, or three hours per day for their paid or unpaid job in which the must work a minimum of 10 hours per week, up to three hours per day. All jobs must be approved by the Work-Based Learning (Capstone) Coordinator prior to admittance to the program. Students must have permission from the Work-Based Learning Coordinator before changing or quitting a job. Students must provide their own daily transportation to and from the Work-Based Learning placement.

Prerequisite: 16 years old, passed at least one semester of a related course, signature of Work-Based Learning (capstone) Coordinator, approved application, and taking a related class during the capstone experience.
Grades: 11, 12

Internship — Semester - 1/2 credit

Students will be placed in business and/or professional positions and gain instruction in general workplace competencies connecting a student's career goal as identified by the EDP to work experience. Internships will be arranged in occupational areas that have traditionally been difficult to locate for capstone experience (co-op) placement. The class may be repeated once for a total of 1 credit.

Prerequisite: 16 years old and signature of Work-Based Learning Coordinator
Grades: 11, 12

BT-1101 Work Experience — Full Year - 1/2 credit

Work Experience provides credit for students who will be working during the school year. Students must complete two semesters of successful Work Experience to receive credit. Students need not take a related class or instruction. Students will not be released early from school, must have a work permit and adhere to all labor laws. Hours for school and work combined shall not exceed 48 hours per week. Students must work a minimum of 5 hours per week. May be repeated once for a total of one credit.

Prerequisite: Have an identified worksite with work permit on file and signature of Work-Based Learning Coordinator
Grades: 10, 11, 12

Students accepted into the STEM Academy program will be placed in to a three hour block within their school day. Students will be enrolled in one full year math and science credit, in addition to the STEM AC Project Development to complete within the three hour block. Course options are below:

Math	Science	Academic Center
MA-1015 STEM Algebra I Grade 9	SC-1005 STEM Integrated Science Grade 9	AL-1001 STEM AC Project Development Grade 9, 10, 11, 12
MA-1025 STEM Geometry Grades 9 or 10	SC-1015 STEM Biology Grade 10	
MA-1031 STEM Algebra II Grades 10 or 11	SC-1031 STEM Physics Grade 11	
MA-1091 STEM Technical Math Grade 12	SC-1091 STEM Research and Design Grade 12	

The Waterford STEM AC Project Development **Full Year – 3 credit**

Students will engage in real-world, project-based learning experiences that integrate traditional science and math curriculum using innovative methods. Students will train to learn and work within a team-based structure. The projects and problems that students work to find solutions to will range from predetermined challenges to industry driven partnerships. Students enrolled are required to be self-motivated, cooperative learners. Course enrollment is based on acceptance by application to The Waterford STEM Academy. Applications can be found in the counseling office. This course meets the eligibility criteria toward math and science credits.

Prerequisite: Successful completion of previous math and science courses. The course can be taken concurrently with other math and science courses.
Grade: 9, 10, 11, 12 (02124-AP)

Mott Campus only (45 Mott Students, 45 Kettering Students)

ARCHITECTURE AND CONSTRUCTION

ARCHITECTURAL COMPUTER AIDED DRAFTING & DESIGN (CADD)

EM-1015 Architectural Computer Aided Drafting & Design Technologies **Full Year – 1 credit**

(AC, BMMT, E/M&IT, NR&A)

Students will learn basic Architectural drafting standards, codes and design. Students will demonstrate and develop these basics through short and in-depth 2D and 3D projects and CADD drawings. Residential and Commercial projects will be taught to further student's knowledge within the Architectural industry. Students will have the opportunity to go on architectural related field trips. This course meets the eligibility criteria toward the fourth credit in mathematics. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Grades: 9, 10, 11, 12 (21107-CAD) CTE, 4th year Math

EM-1021 Architectural Computer Aided Drafting & Design Lab **Full Year: 1 or 2 Periods/1 or 2 credits**
(AC, BMMT, E/M&IT, NR&A)

This hands-on CADD lab course will expose students to the exciting career opportunities in various architectural fields such as civil, residential, and commercial industries. Students will be introduced to the technical aspects of architecture practices through 2D and 3D CADD and hands-on projects. Students will learn employability skills and will develop a portfolio of their personal work. Students will demonstrate what is being taught through various methods such as power PowerPoint presentations, poster boards, 2D and 3D CADD projects, 3D models, and competing in competitions. Due to the depth of study, this course may be repeated for credit.
Students can expect to complete the following hands-on projects:

- Foam core floor plan models
- Basic framing of house using balsa wood
- Chipboard design concepts
- MITES Competition drawings

Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Prerequisite: Architectural Computer Aided Drafting & Design (CADD) Technologies
Grades: 9, 10, 11, 12 (21107-CAD) CTE, 4th year Math

PV-1001 Introduction to Art **Semester – 1/2 credit**
(AC, BMMT, E/M&IT, HSci, Hser, NR&A)

This course would be ideal for the student who wants to discover what art is all about. Students will develop techniques in various two dimensional and three dimensional media while exploring art history, criticism and production. Students will also expand their study of the elements and principles of design. This is a beginning level course.

Grades: 9, 10, 11, 12 (05154-Creative)
Any student who has previously taken either Introduction to Art or Design 2D/3D would be able to use those as a prerequisite for Computer Art and/or Commercial Art.

PV-1011 Ceramics I **Semester –1/2 credit**
(AC, E/M&IT)

Primitive to modern pottery will be produced in clay. Students will form clay into functional and decorative pottery. Surface designs on clay may be explored. Evaluation is based on personal growth and applied skills.

Grades: 9, 10, 11, 12 (05159-Ceramic) PAVA

PV-1021 Ceramics II **Semester – 1/2 credit**
(AC, E/M&IT)

Students will create clay sculpture and/or pottery. Glaze and non-glaze surface decoration techniques may be explored. Evaluation is based on personal growth and applied skills.

Prerequisite: Ceramics I
Grades: 10, 11, 12 (05159-Ceramic) PAVA

PV-1025 Ceramics III **Semester – 1/2 credit**
(AC, E/M&IT)

This course allows students to further refine their skills in all ceramics techniques with emphasis on the development of personal style. The imaginative use of a variety of ceramic materials is encouraged to develop large and small scale work. This is for the student who enjoys ceramics. It is also recommended for those who are pursuing entrance to an art college or a career in three dimensional design. This course may be repeated for credit with instructor's recommendation/approval.

Prerequisite: Ceramics I and II
Grades: 10, 11, 12 (05159-Ceramic) PAVA

PV-1031 Drawing I **Semester – 1/2 credit**
(AC, E/M&IT)

This course is for the student who enjoys drawing. Course work will include the study of basic drawing techniques with a focus on the study of shading, perspective and line. Drawing still-life objects is emphasized. Evaluation is based on individual progress and skill. This is the foundation class for additional art courses that teach students how to draw what they see.

Grades: 9, 10, 11, 12 (05156-Creative) PAVA

PV-1041 Drawing II **Semester – 1/2 credit**
(AC, E/M&IT)

This course allows the student to study in-depth drawing techniques. The course emphasizes the study of the human face and portraiture. Mixed media art materials may be used to develop work suitable for art scholarship portfolio competitions. It is also recommended for those students who enjoy drawing images of people.

Prerequisite: Drawing I
Grades: 9, 10, 11, 12 (05156-Creative) PAVA

PV-1051 Drawing III **Semester – 1/2 credit**
(AC, E/M&IT)

This course allows the student to further refine their skills in all drawing techniques with emphasis on the study of color and portraiture. The imaginative use of mixed media art materials is encouraged to develop large and small scale work. This is for the student who enjoys drawing. It is also recommended for those who are pursuing entrance to an art college.

Prerequisite: Drawing I, Drawing II
Grades: 10, 11, 12 (05157-Creative) PAVA

PV-1061 Painting I **Semester – 1/2 credit**
(AC)

This course provides experiences with a variety of painting techniques and media. Subjects could include portraiture, still-life, or abstract painting. Development of creativity and individual expression is stressed. Evaluation is based on individual progress and skill. Work produced would be suitable for a college entrance portfolio.

Prerequisite: Drawing I
Grades: 9, 10, 11, 12 (05157-Creative) PAVA

PV-1071 Painting II **Semester – 1/2 credit**
(AC)

This course provides students with the opportunity to further develop their painting skills. Various painting media is the focus of this class with an emphasis on composition, color, and technique. This is for the student who enjoys painting. It is also recommended for students who are interested in art related fields.

Prerequisite: Drawing I, Painting I
Grades: 10, 11, 12 (05157-Creative) PAVA

PV-1081 Commercial Art I **Semester - 1/2 credit**
(AC, E/M&IT)

This is an introductory course in the basic commercial art skills that involve hands-on projects which may include designing logos, CD cases, T-shirts, stationery, posters, and other advertising products businesses may need. An introduction to computer graphic software will be taught. This course is available to Mott and Kettering students, although taught at Kettering High School.

Grades: 9, 10, 11, 12 (05163-Advertising) PAVA

PV-1091 Commercial Art II **Semester - 1/2 credit**
(AC, E/M&IT)

Students will explore advanced computer graphics programs as they relate to the hands-on production of advertising layouts for magazines, newspapers, CD cases, stamp design, menus, packaging, and fashion design. This class further develops computer skills necessary for art careers. This course is available to Mott and Kettering students, although taught at Kettering High School.

Prerequisite: Commercial Art I
Grades: 9, 10, 11, 12 (05163- Advertising) PAVA

PV-1101 Digital Photography I **Semester - 1/2 credit**
(AC, E/M&IT)

This course will be divided into two areas. The first part of the class will concentrate on photo history, procedures, safety and techniques used in successful photography. The second part of the course will be production oriented. Students will shoot a series of photographic assignments using the knowledge learned in the first part of the course utilizing a variety of digital media. Completion of the class is a benefit to those students who wish to go on to the Yearbook staff or the high school journalism course.

Grades: 10, 11, 12 (05167-Photography) PAVA

PV-1102 Digital Photography II **Semester - 1/2 credit**
(AC, E/M&IT)

This course will be divided into three areas. The first part of the class will concentrate on photo history, procedures, safety, technology, and techniques used in successful photography. The second part of the course will be production oriented. Students will shoot a series of photographic assignments using the knowledge learned in the first part of this course utilizing a variety of digital media. The third part of the class will be a culminating example of the knowledge learned in part one and two, creating an artistic and diversified portfolio of work collected throughout the semester.

Prerequisite*:* Digital Photography I
Grades: 10, 11, 12 (05167-Photography) PAVA

PV-1121 Jewelry I **Semester - 1/2 credit**
(AC, E/M&IT)

Jewelry techniques such as soldering and riveting are explored. Materials such as copper, brass, bronze, colored aluminum, Plexiglas, Formica, and fiber may be used. Evaluation is based on designing skill, problem solving, and technical skill. This course is for the student who wants to explore a three-dimensional art media and who enjoys soldering and constructing objects using tools and equipment. It is also recommended for students pursuing a career in industrial design, auto design, interior design, and architecture, as well as students interested in portfolio development. This course may be repeated for credit with instructor's recommendation/approval.

Grades: 10, 11, 12 (05166-Jewelry) PAVA

PV-1131 Jewelry II **Semester - 1/2 credit**
(AC, E/M&IT)

Students will be designing a soldered project where the focus will be on forming and shaping metal in a three dimensional fashion. Stone setting techniques will be introduced. Other projects may include the lost wax casting process. Rings, pins and pendants may be cast in precious metals. Students are informed about the possible career potential in the jewelry industry through guest speakers and information on possible apprenticeship programs. Evaluation will be based on designing skill, personal growth and technical skill. This course may be repeated for credit with instructor's recommendation/approval.

Prerequisite: Jewelry I
Grades: 10, 11, 12 (05166-Jewelry) PAVA

PV-1151 Theatre Arts I – Introduction to Theatre **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSer, HSci, NR&A)

This is a comprehensive introductory theatre class. The purpose of the course is to provide an overview of theatre in general, and students that take this course will experience both onstage and offstage aspects of theatre. Students will study the history of theatre, chronological developments, and explore potential careers in theatre. Students will also study basic acting techniques as well as scenic design and the business of theatre. A writing component will have students writing their own short plays, and will finish with students bringing it all together in a culminating theatrical project and performance.

Grades: 9, 10, 11, 12 (22999-Misc) PAVA

PV-1161 Theatre Arts II – Acting **Semester - 1/2 credit**
(AC, BMMT, E/M&IT, HSer, HSci, NR&A)

This course is designed for students who wish to hone their acting skills through a more detailed study of the acting craft. It is designed to expand and deepen the students' skills as artists by building on the concepts covered in Theatre Arts 1. Students will learn how to compose a detailed character analysis; how to prepare monologues for auditions; how to analyze, stage, and perform a scene from Shakespeare's cannon; and will explore and experiment with the basic building blocks of design. The course will culminate in a devised theatrical project and performance as students collaborate through the process of creating, writing, rehearsing, and performing a new original script.

Prerequisite: Successful completion of Theatre Arts I
Grades: 9, 10, 11, 12 (22999-Misc) PAVA

PV-1171 Theatre Arts III – Advanced Acting & Directing **Semester – 1/2 credit**
(AC, BMMT, E/M&IT, HSer, HSci, NR&A)

This course is designed to guide a student through the whole process of a director's work on a play, from analysis to style, as they free themselves to their own flight as a creative and dedicated leader. Students will learn how to take a play apart through the director's primary study of play analysis; enhance their understanding of the director-actor relationship; create enticing stage blocking; utilize design function as a way to communicate ideas; help actors "speak" a play; and help audiences "receive" a play. Major projects will include directing a scene, critiquing the work of other directors, synthesizing something new as a director-designer, and working with designers to create a theatrical performance. Students will also revisit the knowledge gained in Theatre Arts 1 - Introduction to Theatre and Theatre Arts 2 - Acting, as they become actors and designers for their classmate's scenes.

Prerequisite: Successful completion of Theatre I and Theatre II
Grades: 10, 11, 12 (22999-Misc) PAVA

PV-3461 Advanced Placement 2-D Art & Design **Full Year - 1 credit**
(AC, E/M&IT, HSer)

In this course students will develop their skills in two-dimensional medium such as graphic design, photography, collage, printmaking, and others as they learn the principles of 2-D design. Students will create artwork that reflects their own ideas and skills as well as what they have learned.

Prerequisite: Instructor's recommendation
Grades: 11, 12

PV-3471 Advanced Placement 3-D Art & Design **Full Year - 1 credit**
(AC, E/M&IT, HSer)

In this course students will develop their skills in three-dimensional medium such as sculpture, architectural models, metal work, ceramics, glasswork, and others as they learn the principles of 3-D design. Students will create artwork that reflects their own ideas and skills as well as what they have learned.

Prerequisite: Instructor's recommendation
Grades: 11, 12

PV-3481 Advanced Placement Drawing **Full Year - 1 credit**
(AC, E/M&IT, HSer)

In this course, students will develop their skills in drawing as they explore different media and approaches. Students will create artwork that reflects their own ideas and skills as well as what they have learned.

Prerequisite: Instructor's recommendation
Grades: 11, 12

SPECIAL NOTE ABOUT PERFORMING MUSIC ENSEMBLE CLASSES:
Many of the high school music courses offered below are performing music ensembles that have an expectation of attendance at events that occur outside of the regular school day. This may include dress rehearsals, concerts, festivals, and other public performances given by the music ensemble. Personal preparation of the music is another expectation of students in performance ensembles, and this is often required outside of the regular school day as well.

PV-1251 Beginning Instrumental Music **Semester - 1/2 credit**
(AC, BMMT, E/M&IT, HSer, HSci, NR&A)

This is a course designed to offer students an opportunity to study and learn to play a wind or brass instrument. Students who already play an instrument but wish to learn another instrument could take this course. Once a student completes this course, they could enroll in the present instrumental program or elect to continue in private study. Guitar or any other **non-wind** instruments will not be offered.

Grades: 9, 10, 11, 12 (05109) PAVA

PV-1261 Piano Keyboard I **Semester - 1/2 credit**
(AC, BMMT, HSer, HSci)

This course is a piano keyboard laboratory providing a basic understanding of piano playing technique, music reading, harmony, theory and performance. It is recommended that students have a practice keyboard at home. No prior knowledge of music or keyboard is necessary. Keyboards will be provided at school in the lab.

Grades: 9, 10, 11, 12 (05107-Piano) PAVA

PV-1271 Piano Keyboard II **Semester - 1/2 credit**
(AC, BMMT, HSer, HSci)

This course is a group keyboard laboratory class, which continues study from Piano Keyboard I class. Course content includes playing scales and arpeggios, sight reading, chording techniques, theory, duet and solo performing.

Prerequisite: Prior knowledge from Piano Keyboard I or previous keyboard study & permission of the instructor
Grades: 9, 10, 11, 12 (05107-Piano) PAVA

PV-1453 Music Theory Fundamentals **Semester - 1/2 credit**
(AC, HSer)

This course is intended for students who seek to enrich their knowledge and understanding of music fundamentals, music notation, and music reading. Whatever musical background students possess, the study of music theory can be intriguing and inspiring. By knowing how elements of music interact to create musical style and effect, students can bring a piece of music to life and can communicate its essence to others. The purpose of this course is to instill the ability to distinguish, describe, comprehend, and employ music theory concepts and processes. Those who already know how to read music will benefit from a more detailed understanding of the technical aspects of music theory. Those who do not read music can begin their music-learning journey; then, students may have sufficient skills to enroll in one of our high school performing ensembles. However, this course is also a good choice for any student who is interested in learning about music, but without the performance requirements that accompany performing ensemble classes. This course is also a good choice for any student who has taken/would like to take History of Rock & Popular Music Styles or Piano Keyboard. This class is highly recommended to students who intend to take the AP Music Theory class for purposes of review and preparation.

Grades: 9, 10, 11, 12 (05113-Music) PAVA

PV-1451 Advanced Placement Music Theory **Full Year - 1 credit**
(AC, HSer)

This course is designed to prepare students for the Advanced Placement Test in Music Theory and for preliminary college/university entrance exams in music theory and aural perception. Topics covered include melodic and harmonic dictation, four-part chorale writing and analysis, advanced aural perception, sight-singing, melody harmonization, form analysis, arranging, transcribing, orchestrating, elementary composition, error detection, modes and realization of figured bass or Roman numeral chord progressions. The ultimate goal of *the AP Music Theory* course is to develop a student's ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score.

Prerequisite: Permission of instructor and successful completion of one semester of *Piano Keyboard II* and/or play a wind, string or percussion instrument.
Grades: 10, 11, 12 (05114-Music) PAVA

Semester - 1/2 credit
PV-1281 Treble Chorus **Full Year - 1 credit**
(AC, HSer)

Treble Chorus is an ensemble made up of 9th grade treble voices (SSA). Emphasis will be on vocal skill and technique, note reading and musical development. Part singing materials will be emphasized. Performances outside the daily class schedule are required.

Prerequisite: Demonstrated ability & audition with choral teacher or recommendation from previous choral director
Grades: 9, 10, 11, 12 (05111-Vocal) PAVA

Semester – 1/2 credit
PV-1291 Concert Choir **Full Year – 1 credit**
(AC, HSer)

Concert Choir is an SATB mixed voice ensemble. This choir will focus on vocal skills, note reading and general musical development. Proper breath support, tone and part singing will be emphasized. Performances outside the daily class schedule are required.

Prerequisite: Demonstrated ability and audition with choral teacher or recommendation from previous choir director
Grades: 9, 10, 11, 12 (05111-Vocal)

Semester – 1/2 credit
PV-1431 Treble Select **Full Year – 1 credit**

(AC, Hser)

Treble Select is an auditioned, advanced ensemble for treble voices (SSAA) with skills in voice production, note reading and musicianship. Membership will consist primarily of eleventh and twelfth grade treble voices; advanced ninth and tenth grade students may qualify (audition with choral teacher required). Performances outside the daily class schedule are required.

Prerequisite: Demonstrated ability and audition with choral teacher or recommendation from previous choir director
Grades: 9, 10, 11, 12 (Ninth grade only by audition with choral teacher/recommendation from previous choir director) (05111-Vocal) PAVA

Semester – 1/2 credit
PV-1301 Chamber Singers (Madrigal Ensemble) **Full Year – 1 credit**
(AC, Hser)

Chamber Singers is an SATB auditioned, advanced mixed ensemble. This ensemble performs advanced material and is for students with previous concert choir experience. Sight singing and vocal technique will be stressed. Performances outside the daily class schedule are required.

Prerequisite: Previous concert choir experience or membership in other music classes and teacher recommendation and/or audition
Grades: 10, 11, 12 (Ninth grade only by audition with teacher) (05111-Vocal) PAVA

PV-1311 Study of Jazz Improvisation **Full Year – 1 credit**
(AC, Hser)

This music course will address students' ability to improvise in a jazz context on their primary instrument by improving their understanding of jazz and by helping develop a personal concept and style. This will be accomplished by working on three different aspects of music individual technique, jazz history and concepts, and music theory and song mechanics. Approximately 4 to 6 hours of individual practice time per week will be expected from each student. All instruments are accepted.

Prerequisite: Experience on the principal instrument and audition with director
Grades: 10, 11, 12 (possible exceptions for 9th grade) (05117-Music) PAVA

PV-1321 History of Rock & Popular Music Styles I **Semester – 1/2 credit**
(AC, Hser)

This course will study styles of music related to the historical development Rock and popular music. The focus of the course will concentrate on the music, artists, historical background and development of the various styles of rock music, country music, and jazz from its roots through the 1960's.

Prior knowledge of musical styles is not necessary.

Grades: 9, 10, 11, 12 (05117-Music) PAVA

PV-1521 History of Rock & Popular Music Styles II **Semester – 1/2 credit**
(AC, Hser)

This course continues the study of Rock and popular music styles from the Survey of Rock and Popular Music Styles I course, with focus on the music of that late 1960s, continuing to the present.

Prior knowledge of musical styles is not necessary.

Prerequisite: History of American Pop/Rock Music I
Grades: 9, 10, 11, 12 (05117-Music) PAVA

PV-1331 Introduction to Music Technology I **Semester - 1/2 credit**
(AC, BMMT, HSer, E/M&IT)

This course is open to anyone who has an interest in Music Technology. This will fulfill requirements for Performing and Visual Arts credits required in the high school curriculum. The Introduction to Music Technology I class is an entry-level look at the study of music technology and music fundamentals. Students do not need previous knowledge of music or use of computer music software. The course will feature current developments including MIDI keyboards and music software.

Grades: 9, 10, 11, 12 (05119-Comp/So) PAVA
Kettering Campus

PV-1341 Introduction to Music Technology II **Semester - 1/2 credit**
(AC, BMMT, HSer, E/M&IT)

This course is a continuation of Introduction to Music Technology I and is open to any student who has completed and passed that course. In the second semester of study, more emphasis will be brought to music reading skills and students will refine their abilities at creating music arrangements, transcriptions and compositions.

Prerequisite: Introduction to Music Technology I
Grades: 9, 10, 11, 12 (05119-Comp/So) PAVA
Kettering Campus

PV-1351 Concert Band **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This band is intended primarily for ninth graders but may include students in higher grades. In addition to concert and festival performances, students in this group will continue to build and improve individual and group musical skills begun in middle school, including: technique, musicianship, intonation, balance and blend, sight reading, scales and rudiments, etc. Students will also be given some training in basic music theory. Ninth grade students interested in participating in the high school marching band are required to enroll in this class.

Prerequisite: Previous middle school band experience
Grades: 9, 10, 11, 12 (05102-Concert) PAVA

PV-1361 Advanced Concert Band **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Advanced Concert Band is an intermediate ensemble that is comprised mainly of students in grades ten through twelve. In addition to concert and festival performances, students in this group will continue to address individual instrumental technique, full ensemble abilities, and general musicianship. This will occur via a higher level of difficulty in the selected music. Students will continue to study basic music theory and will begin to study ear training.

Prerequisite: Audition with band director
Grades: 9, 10, 11, 12 (05102-Concert) PAVA

PV-1391 Advanced Jazz Band **Full Year - 1 credit**
(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This ensemble is designed to introduce students to the jazz style of music performance and to facilitate improved musical skills. The group will explore jazz from different time periods and will perform music from many big band composers. This jazz band is designed for all students, regardless of any previous jazz experience. The group will not be limited to a strict instrumentation, but a traditional big band set-up will be the goal (2 alto saxophones, 2 tenor saxophones, 1 baritone saxophone, 4 trumpets, 4 trombones, piano, bass, drums, auxiliary percussion, and guitar).

Prerequisite: Audition with the band director; students in this class must also be enrolled in one of the Orchestras or Concert Bands (exceptions may be made for students who play non-band instruments: guitar/piano).

(05105-Comtemp) PAVA

PV-1401 Orchestra **Full Year – 1 credit**
(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This ensemble consists of students who have had previous string experience. Instrumental technique and group musicianship skills will be stressed. Audition or recommendation of the instructor is required. Some performances and rehearsals outside daily class schedules are required. This class fulfills the requirement of a primary ensemble for Advanced Jazz Band.

Grades: 9, 10, 11, 12 (05105-Comtemp) PAVA

PV-1411 Advanced Orchestra **Full Year – 1 credit**
(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

The advanced orchestra focuses on music literature for the symphony ensemble, which includes strings, winds, and percussion instruments. Audition or recommendation of the instructor is required. Several performances and rehearsals outside of daily class schedules are required. This class fulfills the requirement of a primary ensemble for Advanced Jazz Band.

Grades: 9, 10, 11, 12 (05105-Comtemp) PAVA

PV-2351 Honors Concert Band **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Honors Concert Band is an advanced-level ensemble that will study and perform a higher level of literature from the wind band repertory. Students who are selected for this group must be committed to practice and prepare music that will be more challenging than the music selected in Advanced Concert Band and Concert Band. Enrollment in this band is determined by audition and is at the discretion of the director. In addition to concert and festival performances, students in this group will study intermediate music theory and ear training.

Prerequisite: Audition with band director PAVA
Grades: 9, 10, 11, 12 (05102-Concert)

PV-2391 Honors Jazz Band **Full Year - 1 credit**

(AC, BMMT, E/M&IT, HSci, Hser, NR&A)

Honors Jazz Band is a course designed to teach students improved musicianship through performance in a jazz context. This group is for students previously enrolled in Advanced Jazz Band with a good grasp of the jazz style and performing in a jazz band. The group is open by audition only and is limited to a traditional big band instrumentation (2 alto saxophones, 2 tenor saxophones, 1 baritone saxophone, 4 trumpets, 4 trombones, piano, bass, drums, auxiliary percussion, and guitar). Students must have significant ability on the instrument to be a member of this ensemble.

Prerequisite: Audition with the band director; prior to Advanced Jazz Band enrollment; students in this class must also be enrolled in a concert band (exceptions may be made for students who play non-band instruments such as guitar and piano).

(05105-Comtemp) PAVA

PV-1551 Guitar Ensemble **Semester - 1/2 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course is a guitar laboratory providing a basic understanding of guitar playing technique, music reading, harmony, theory, and performance. It is recommended that students have a guitar at home. No prior knowledge of music or guitar is necessary. Acoustic guitars will be provided at school in the classroom.

Grades: 9, 10, 11, 12 (05104-Orchestra) PAVA

PV-2401 Honors Orchestra **Full Year – 1 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

The Honors Orchestra focuses on music literature written for advanced string ensembles and small groups of mixed instruments. This orchestra is for serious string players with a high level of commitment to the group. Members of this group may be expected to perform with the *Orchestra* and/or *Advanced Orchestra* classes. Audition or recommendation of the instructor is required. Numerous performances and rehearsals outside of daily class schedules are required. This class fulfills the requirement of a primary ensemble for Advanced Jazz Band.

Grades: 9, 10, 11, 12 (05104-Orchestra) PAVA

BUSINESS, MANAGEMENT, MARKETING & TECHNOLOGY

FINANCE

BT-1001 Accounting I **Full Year - 1 credit**

(AC, BMMT, HSci, HSer)

This course is highly recommended for students interested in majoring in business or engineering at the college level or thinking about owning their own company in the future. It is important to note that business majors at the college level are required to take accounting. This class also serves as a solid foundation for employment in many office jobs. This year-long course helps students develop the standard accounting skills of journaling, posting, financial reporting, and payroll accounting. It also introduces students to the operational fundamentals of entrepreneurship and business ownership. This course meets the eligibility criteria toward the fourth credit in mathematics. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Grades: 10, 11, 12 (12014-Accounting) CTE, 4th year Math

BT-1021 Advanced Accounting **Semester - 1/2 credit**

(AC, BMMT, HSci, HSer)

This advanced course is designed for students wishing to further their knowledge of accounting for better preparing for college business programs or opening their own business and/or to become an accounting clerk or assistant upon graduation from high school. Topics include cost accounting, inventory, uncollectible and corporate accounting. This course meets the eligibility criteria toward the fourth credit in mathematics. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Prerequisite: Successful completion of Accounting I

Grades: 11, 12 (12104-Accounting) CTE, 4th year Math

BT-1031 Building Wealth **Semester - 1/2 credit**
(BMMT, HSci, HSer)

Learning how saving and investing money while you are young can lead to financial wealth. Building Wealth focuses on direct investment in the stock market along with a broad discussion of investment opportunities such as real estate and bonds. Students will come away from the course with enough basic investment knowledge to understand the need for investments, the value of investing regularly and for the long run, and the importance of beginning to invest now. Ethical and legal issues will also be addressed as they apply to building your wealth. Students will create and track a "mock" stock portfolio and have the opportunity to compete in the Stock Market Game. This course meets the eligibility criteria toward the fourth credit in mathematics.

Grades: 9, 10, 11, 12 (12053-Entrepre) CTE, 4th year Math

BT-1041 Entrepreneurship **Semester - 1/2 credit**
(BMMT, HSer)

This course focuses on managerial and entrepreneurial skills used in business. It introduces business management principles and will assist the student who will eventually operate, own or manage a business enterprise. Students will have the opportunity to write a business plan to apply their understanding of how business organizations work and are managed—their goals, strategies, structures, technologies, environments, and the motivations and interests of people involved. In addition, students may choose to participate in BPA and/or DECA clubs. Successful completion of this course may qualify students for college credit with postsecondary schools. See page 11 for details.

Grades: 10, 11, 12 (12052-Business) CTE

BT-1051 Computer Skills for College & Career Success **Semester - 1/2 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Students will learn about computers, their use, and their impact on society. Students will use the Microsoft Office program for applications in word processing, spreadsheets, and presentations. Other topics covered may include email, accessing and using the Internet, and using a scanner and/or digital camera to capture images to be used in a project or multimedia presentation. Grades will be based on completion of worksheets, computer assignments, projects, and tests. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Grades: 9, 10, 11, 12 (10004-Computer) CTE

BT-1061 Advanced Computer Skills for College & Career Success **Semester - 1/2 credit**
(AC, BMMT, E/M&IT, HSer, HSci, NR&A)

This class is a continuing look at computer applications for the student who wishes to learn more advanced uses of the computer. The Microsoft Office program will be used for applications in databases, word processing, spreadsheets and multimedia presentations. Students will learn how to exchange and combine information from the various Office applications while preparing a variety of documents. The Internet, digital cameras and scanners will be used during the development of multimedia presentations and projects. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Prerequisite: Successful completion of Computer Skills for College and Career Success
Grades: 9, 10, 11, 12 (10004-Computer) CTE

BT-1071 Business Capstone Experience (Co-op) (12098) **Full Year - 1 credit**

BT-1071 Business Capstone Experience (Co-op) (12098) **Full Year - 2 credits**

BT-1081 Business Internship (12098) **Semester - 1/2 credit**

See Work-Based Learning

BT-1091 Applied Computer/Business Skills **Semester – 1/2 credit**
(AC, BMMT, E/M&IT, HSer, HSci, NR&A)

A variety of software programs are used to introduce students to the basics in document processing, as well as strengthening their speed, accuracy, and techniques mastery. Major emphasis is placed on the proper formatting of personal and business correspondence, reports, and tables. Woven throughout the course are activities related to employability skills, language/writing skills, and proofreading. Students will also do further exploration into Career Pathways. Authentic application is provided through the completion of a simulation at the end of the semester. Students enrolled will receive certificates documenting levels of proficiency in areas addressed in this class. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Grades: 9, 10, 11, 12 (12006-Word) CTE

BT-1101 Work Experience **Full Year - 1/2 credit**
(BMMT)

See Work-Based Learning. (12098-MGT)

BT-1121 Sports and Entertainment Marketing **Semester – 1/2 credit**
(AC, BMMT, HSer)

This course is designed to introduce students to the growing service industry of Sports and Entertainment. Real-life examples and problems are presented in sponsorship and marketing plans for actual sports and entertainment events. Students are also encouraged to participate in DECA (a high school association of marketing students. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Prerequisite: Successful completion of Marketing I
Grades: 10, 11, 12 (12163-Sports) CTE

BT-1131 Marketing I (Foundations and Functions) **Full Year - 1 credit**
(AC, BMMT, HSci, HSer)

Marketing I students develop an understanding of the marketing concept as it applies to business. Real-life examples and problems are presented in the areas of market planning, professional selling, promotion, channel management (supply chain), product service management, pricing, and marketing information management. These topics are reinforced through hands-on experiences in either Waterford Mott's Shipyard or Kettering's Captains' Corner. Students are also encouraged to participate in DECA (a high school association of marketing students). Marketing I prepares students to study business at the college level, as all business degree programs require one or more courses in marketing. It also prepares students for a wide variety of entry-level marketing jobs. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Grades: 9, 10, 11, 12 (12152-Marketing) CTE

BT-1141 Marketing II (Marketing Management) **Full Year - 1 credit**
(AC, BMMT, HSci, HSer)

The Marketing II curriculum expands on the business concepts presented in Marketing I and includes practical application through the operation of Mott's Shipyard or Kettering's Captains' Corner. Areas of work and management include customer relations, human resource management, product service planning, financial analysis, and entrepreneurship. Students are also encouraged to participate in DECA (a high school association of marketing students). Marketing II prepares students to study business at the college level, as all business degree programs require one or more courses in marketing. It also prepares students for a wide variety of entry-level marketing jobs.
Prerequisite: Successful completion of Marketing I
Grades: 10, 11, 12 (12166-Marketing) CTE

BT-1151 Marketing Capstone Experience (Co-op) ((12198) **Full Year - 1 credit**

BT-1151 Marketing Capstone Experience (Co-op) (12198) **Full Year - 2 credits**

BT-1161 Marketing Internship (12198) **Semester - 1/2 credit**

See Work-Based Learning.

BT-1171 Programming I **Semester - 1/2 credit**
(BMMT, E/M&IT, HSer, NR&A)

Students experience the basics of programming through the development of program that use variables, make decisions, perform computer arithmetic, and make use of the color and graphics. In this course, students will utilize their problem solving and logical thinking skills in a hands-on environment. Emphasis will be on structured, top-down design as accepted in the computer industry today. Basic Algebra skills are required for successful completion of this course. This course meets the eligibility criteria toward the fourth credit in mathematics.

Grades: 9, 10, 11, 12 (10152-Computer) CTE, 4th year Math

BT-1181 Programming II **Semester - 1/2 credit**
(BMMT, E/M&IT, HSer, NR&A)

Students will continue their exploration of a computer programming environment by learning nested loops, arrays, string functions and data files. Emphasis will continue to be on top-down, structured design. This course is recommended for students interested in computer careers. This course meets the eligibility criteria toward the fourth credit in mathematics. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Prerequisite: Successful completion of Programming I
Grades: 9, 10, 11, 12 (10152-Computer) CTE, 4th year Math

BT-1191 Advanced IT Topics **Semester - 1/2 credit**
(BMMT, E/M&IT, HSer, NR&A)

Students will have the opportunity to study advanced concepts in programming, networking, or web design. Emphasis will be on realistic opportunities for students to demonstrate their knowledge of Computer Science. Examples of projects include creating programs that control a robot, designing a web site for a local company, setting up a small network and/or studying for an Industry Certification Exam offered through Certiport and the Microsoft Imagine Academy. Individualized learning will occur in which the student and teacher create a plan for learning and goals based on the student's ability and previous experience. A student may elect to take it for up to three semesters (1 ½) credits). This course meets the eligibility criteria toward the fourth credit in mathematics. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Prerequisite: Successful completion of Programming II, Networking II, or Web Design II CTE, 4th year Math
Grades: 10, 11, 12 (10152-Computer)

BT-1201 Web Design I **Semester - 1/2 credit**
(BMMT, E/M&IT, HSer)

Students develop their understanding of the basics of designing professional looking web pages using HTML (Hypertext Markup Language), XHTML (Extensible Hypertext Markup Language), and CSS (Cascading Style Sheets). Students will also utilize internet standards, web browser functions, and the use of multimedia on the web. A Variety of technologies will be available to enhance the pages created for school projects/or members of the community. Completion of both Web Design I and II meets the eligibility criteria toward .5 of the fourth credit in mathematics.

Grades: 9 (with completion of algebra with "B" or better), 10, 11, 12 (10201-Web) CTE, 4th year Math

BT-1211 Web Design II **Semester - 1/2 credit**
(BMMT, E/M&IT, HSer)

Students in this course will continue to explore web design using HTML, XHTML, and CSS. Students will utilize a variety of software to aid and enhance web pages that may include: FrontPage, Dreamweaver, Photoshop, and Flash. Other topics covered in this course will include Web security, search engines, Web 2.0 technologies, and ethical and legal issues. Completion of both *Webmaster I* and *II* meets the eligibility criteria toward .5 of the fourth credit in mathematics. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Prerequisite: Successful completion of Web Design I
Grades: 9, 10, 11, 12 (10201-Web) CTE, 4th year Math

BT-1221 Networking I **Semester - 1/2 credit**
(BMMT, E/M&IT)

In this introductory course, students will experience how networks function so they will have the knowledge and skills to succeed in a career in networking. Hands-on labs will give students a chance to disassemble and reassemble a computer, install a network card, configure a wireless router for home network sharing, create Ethernet cable, create a peer-to-peer and client server network, set up a Local Area Network, and research industry certifications. Completion of both Networking and Advanced Networking meets the eligibility criteria toward .5 of the fourth credit in mathematics.

Prerequisite: Successful completion of Algebra I ("C" or better) or instructor approval
Grades: 10, 11, 12 (10101-Network) CTE, 4th year Math

BT-1231 Networking II **Semester - 1/2 credit**
(BMMT, E/M&IT)

Students further their understanding of how networks function so they will have the knowledge and skills to succeed in a career in networking. The content is more specialized and technical, preparing motivated students with the basic understanding and equipment knowledge to pursue an industry-recognized credential. Students gain hands-on experience with a Nortel Networks ARN router and set up user accounts, shared drives and many other server services. Students will be expected to access outside sources such as the school/community library, the internet, and other information sources. Completion of both Networking and Advanced Networking meets the eligibility criteria toward .5 of the fourth credit in mathematics. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Prerequisite: Successful completion of Networking
Grades: 10, 11, 12 (10102-Networking) CTE, 4th year Math

BT-1251 Mobile App Programming **Semester - 1/2 credit**
(BMMT, E/M&IT, HSer)

Students design and program apps and games for Android and IOS devices using App Inventor from MITR and JavaScript. Creativity will be practiced with program design and coding for a mobile app environment. Students will develop programs that use variables, make decisions, perform computer arithmetic, and make use of graphics. This course meets the eligibility criteria toward the fourth credit in mathematics.

Prerequisite: Successful completion of Algebra II or Programming I
Grades: 9, 10, 11, 12 (10155-Java) CTE

BT-1391 AP Computer Science **Full Year - 1 credit**
(BMMT, E/M&IT, HSer)

This course is designed to prepare students for the Advanced Placement Examination in Computer Science A. The course emphasizes object-oriented programming methodology with an emphasis on problem solving and algorithm development. The JAVA programming language will be the primary language used in this yearlong class.

Prerequisite: Successful completion of either Programming I or Algebra II/Honors Algebra II
Grades: 11, 12
NCAA (10155-Java) CTE, 4th year Math

BT-3201 AP Computer Science Principles **Full Year - 1 credit**
(BMMT, E/M&IT, HSer)

In this course students will develop computational thinking skills vital for success across all disciplines. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative process when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. This course is designed to be equivalent to a first semester introductory college course.

Prerequisite: Successful completion of Algebra I
Grades: 10, 11, 12 CTE, 4th year Math
NCAA (10155-Java)

EM-1041 Woodworking I **Semester - 1/2 credit**
(BMMT, E/M&IT, HSci)

Would you enjoy learning how things are made and have the opportunity to make them yourself? If so, Woodworking I is the class for you. Units of study include product design, materials, wood manufacturing processes, precision measurement, computerized drawing and machining wood products. You will learn to use a variety of hand tools, portable electric tools, and machines to build individual and group projects. This is a hands-on class where you will be able to showcase your skills and talent in both traditional and computerized manufacturing.

Grades: 9, 10, 11, 12 (13052-Material) CTE, 4th year Math
Mott Campus

EM-1051 Woodworking II **Semester - 1/2 credit**
(BMMT, E/M&IT, HSci)

If you enjoyed Woodworking I and have basic knowledge and skills in both traditional and computerized manufacturing, you are ready for the next level of learning. The focus of this course is on product design, specialized joining processes, material selection, measurement and wood finishing. Emphasis is on advanced skill development, knowledge, and craftsmanship.

Prerequisite: Successful completion of Woodworking I
Grades: 9, 10, 11, 12 (13053-Metal) CTE, 4th year Math
Mott Campus

EM-1061 Advanced Woodworking **Full Year - 1 credit**
(BMMT, E/M&IT, HSci)

After successfully completing Woodworking I and II, you can take this class to further enhance your skills in Industrial Processes. With this course you can expect more time working on projects, team building skills, and engineering experiences. Special emphasis will be placed on process planning and development of new "Green Technology" for use in the real world. This course meets the eligibility criteria toward the fourth credit in mathematics. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Prerequisite: Successful completion of Woodworking II
Grades: 10, 11, 12 (13054-Wood) CTE, 4th year Math
Mott Campus

HL-1031 Medical Language for Health Care Workers **Full Year - 1 credit**
(E/M&IT, HSci, HSer)

Students planning on pursuing a health care career will benefit from learning the language of medicine before entering the field or going on to college. This full year, one-hour course presents a study of the basic structure of medical terms including prefixes, suffixes, word roots, combining forms, as well as plural and singular endings. Pronouncing, spelling, building and defining medical terms and abbreviations will be emphasized. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Grades: 11, 12 (14154-Medical)
Mott Campus

HL-1041 Human Service Occupations Capstone Experience (Co-op) (1 hr) Full Year - 1 credit

HL-1041 Human Service Occupations Capstone Experience (Co-op) (2 hr) Full Year - 2 credits

(E/M&IT, HSci, HSer) **(19998-Human)** See Work-Based Learning CTE

HUMAN SERVICES
FAMILY AND CONSUMER SCIENCE

HU-1001 Nutrition **Semester - 1/2 credit**
(AC, BMMT, E/M&IT, HSci, HSer)

This course is designed for students to improve their cooking skills necessary for independent living, while upholding food and kitchen safety standards. Students in this course will analyze their diet, learn how to read food labels, and will study the important role nutrients play within our food choices to improve our overall health.

Grades: 9, 10, 11, 12 (08052-Health) CTE

HU-1011 Parenting **Semester - 1/2 credit**
(AC, BMMT, E/M&IT, HSci, HSer)

This course is designed to help students understand the responsibilities of parenting that span from parental readiness all the way to caring for your newborn. Topics, discussions, visuals, and material may include comprehensive coverage of family planning, teenage pregnancy, the reproductive system and human anatomy, the prenatal period, fetal development, the birthing process, caring for a newborn, parenting, and diverse family structures. **A class requirement will be that the student will care for a computerized infant simulator for a 4 day weekend.** Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Grades: 9, 10, 11, 12 (19052-Child) CTE

HU-1021 Housing and Design **Semester - 1/2 credit**
(AC, BMMT, E/M&IT)

This course introduces students to the knowledge and skills they will need to find, acquire, and maintain a variety of housing options. Students will interpret, plan and design living spaces based on clients' needs, evaluate concepts and theories of interior design, and communicate knowledge in a variety of ways. Career paths within the housing and interior design industries will also be explored.

Grades: 9, 10, 11, 12 (19205-Home) CTE

HU-1031 Human Relationships **Semester - 1/2 credit**
(AC, BMMT, E/M&IT, HSci, HSer)

This class provides practical, realistic ways for teens to deal with peers and adults in all types of relationships. Topics include positive communication, handling anger, dealing with stress, and how to be successful at getting along in the real world. Students will see how their own personality, strengths, and talents influence their happiness and relationships throughout their lives. Discussions regarding healthy relationships, dating, romantic and realistic love, marriage, and how to understand all types of relationships make this class interesting and fun.

Grades: 9, 10, 11, 12 (08051-Health) CTE

HU-1041 Life Management **Semester - 1/2 credit**
(AC, BMMT, E/M&IT, HSci, HSer)

This course is designed for students who are interested in learning skills necessary for living away from home. This course will include basics including analyzing values and goals, career readiness, managing a bank account, independent living simulation, credit and loans, insurance, etc.

Grades: 10, 11, 12 (22206-FCS) CTE

HU-1051 Personal Financial Management **Semester - 1/2 credit**
(AC, BMMT, E/M&IT, HSci, HSer)

This course will address the real world topics of income, money management, spending and credit, saving and investing, budget design, finance, debt and credit management, insurance and taxes. Students will demonstrate components of a financial planning process that reflect the distinction between needs, wants, values, goals and economic resources. This course will provide a foundational understanding for making informed personal and financial decisions. This course meets the eligibility credit toward the fourth credit in mathematics.

Grades: 11, 12 (12101-Finance) CTE, 4th year Math

PV-1133 Clothing and Fashion **Semester - 1/2 credit**
(AC, BMMT, E/M&IT, HSci, HSer)

This introductory course explores the impact of clothing and fashion on our lives. It is project-based with a focus on student choice and will appeal to any student who prefers hands-on, real world activities. Topics covered in Clothing and Fashion may include clothing purchasing and care skills, history and psychology of clothing, careers in clothing and textiles, fiber and fabric types, manufacturing techniques, basic mending and construction skills, clothing and textile design, color theory, costuming, dressing for success and body type, color analysis, industry legislation and trade, fashion marketing, merchandising, and event planning, fashion writing and current industry trends. Students should expect to complete a variety of projects such as experiments, displays, art and design, presentations, product creation, events, and tech-based. This class is open to all students in any grade and has no prerequisites.

Grades: 9, 10, 11, 12 (22205-FCS) CTE

The following course was developed through the joint efforts of staff and community members. It has been carefully evaluated and found to be exceptionally worthwhile and informative.

HU-1061 Sexuality Education **Semester - 1/2 credit**
(AC, BMMT, HSci, HSer)

The issues of sexuality for the upper level high school student are addressed in this valuable and informative class. Decisions, recognizing sexual rights and responsibility, the emotions of relationships and love, how relationships are positive or seeing when they are negative, sex in society and sexual health (birth, sexually transmitted diseases and how to avoid them, birth control, infertility, and reproduction) are discussed. This class addresses the questions students have, helps them to gain skills and accurate knowledge needed in life in a non-threatening and positive atmosphere. Classes will use discussion, video, reading materials and games designed for all students to learn in a wide variety of ways. Parents may choose to have their child rescheduled after reviewing district objectives and class content.

Prerequisite: Parent permission required
Grades: 11, 12 (08056-Health) CTE

HU-1071 Early Childhood Education and Leadership **Full Year – 2 credits**
(HSer)

This full-year, double blocked class prepares students to work in childcare, preschools, and other child-related occupations. For those interested in working in Early Childhood Education, this course offers students the opportunity to earn a Child Development Associate certificate in high school as well as college credit at many Michigan post-secondary schools. The CDA is an industry-based, nationally recognized credential that allows holders to work in the industry not only as childcare aides, but also as preschool teachers. This program also provides a solid foundation for students interested in careers such as teaching, social work, family and community services, psychology, psychiatry, and careers in the medical profession. Instruction will cover health and safety of learning environments, children's physical, intellectual, social, and emotional development, building relationships with families, managing an effective program, professionalism, observing and guiding behavior, and principles of child development and learning. Students will be placed in an off-site, licensed infant/toddler or preschool program to gain real-world work experience in the field. Purchase of a workbook and an off-site uniform may also be required. **This class may be taken for a second year of credit, during which off-site hours will be increased.**

Grades: 11, 12, and 10th grade with instructor permission (19051-Child)

This work-based learning course is available to Kettering and Mott students, though taught at Kettering High School.

CTE

HU-1081 Human Service Occupations Capstone Experience (Co-op) (2 hr) Full Year - 2 credits
See Work-Based Learning **(HSci, HSer)** (19998-Human)

LANGUAGE ARTS

LA-1001 Language Arts I **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Language Arts I is a skilled-based course that focuses on reading, writing, language, speaking, and listening. In this course, students will read and analyze a variety of classic and contemporary texts. Students will use a variety of fiction and non-fiction texts to practice and master skills necessary for future LA courses, for all State assessments, and for possible AP course work.

Grades: 9

NCAA (01001-9th)

LA-1011 Language Arts II **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Language Arts II is a skill-based course that focuses on reading, writing, language, speaking, and listening. In this course, students will explore how common themes develop throughout literature. Students will use a variety of fiction and non-fiction texts to practice and master skills necessary for future LA courses, for all State assessments, and for possible AP coursework.

Grades: 9, 10

NCAA (01002-9th - 10th)

LA-1021 Language Arts III **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Language Arts III is a skill-based course that focuses on reading, writing, language, speaking, and listening. In the course, students will explore how the theme of the American Dream develops throughout history and through a variety of genres. Students will use fiction and non-fiction texts to practice and master skills necessary for future LA course, for all State assessments, and for possible AP Coursework.

Grade: 10, 11
NCAA (01003-10th)

LA-1031 Language Arts IV — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Language Arts IV is a skill-based course that focuses on reading, writing, language, speaking, and listening. In this course, students will explore how themes of social action develop throughout multiple genres. Students will use a variety of fiction and non-fiction texts to practice and master skills necessary for post-high school coursework and for the ever-changing workplace.

Grade: 12

NCAA (01004-12th)

LA-1041 Writing and Film — Semester - 1/2 credit

(AC, BMMT, E/M&IT, HSer, NR&A)

In this one semester class, students will learn about the history and terminology of film making, the genres, and the process of film production, and will study the works of various directors. The course includes a research component. This course does not meet NCAA Eligibility Center requirements.

Grades: 11, 12 (01062-Lit)

LA-1061 Humanities — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hser, NR&A)

In this class, students will be immersed in and compare different eras of social and cultural history. To engage in the course materials, student will explore the music, art, food, literature, clothing, social trends, and history of different time periods. Student will complete projects, readings, writings, as well as participate in discussions.

Grades: 10, 11, 12

NCAA (04301-Humanities)

LA-1071 Creative Writing — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hser, NR&A)

This course is designed for the student who is interested in creating their own portfolio of poetry, prose, and drama. In addition to experimenting with various forms of poetry and narrative techniques, students will learn how to submit their works for publication by revising in small and large peer groups. Work done in and for the class will be shared with the entire class. The course includes a research component. This class is for those students who are serious about writing complex, thought-provoking poems, plays, and short stories.

Grade: 11, 12 (01104-Creative)

NCAA

LA-1081 College Prep Composition — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hser, NR&A)

This course is designed for college-bound seniors who have a mastery of basic writing skills and want the experience of completing the kinds of assignments that will be assigned at the college level. Students will write in a variety of genres including literary analysis and research-based nonfiction. In addition, the class will cover note-taking techniques, vocabulary building, logical thinking, non-fiction reading, research, and presentation skills.

Grade: 11, 12 (1103-Comp)

NCAA

LA-1091 Journalism — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hser, NR&A)

The main objective of this course is the publication of both a print and an on-line newspaper. The course is designed for the serious student of writing. Journalism is a hands-on class in which students will use various journalistic techniques to research stories for newspaper production. The newspaper is intended for both student and community reading. Some after school time may be necessary to meet production deadlines.

Prerequisite: Application required.

Grades: 9, 10, 11, 12 (11101-Journalism)

NCAA

Semester – 1/2 credit

LA 1105 Introduction to Journalistic Writing/Media Literacy — Full Year – 1 credit

(AC, BMMT)

This course provides an overview of the mass communication field with an emphasis on journalism and news media. It serves as a precursor (though not necessarily a pre-requisite) to newspaper, yearbook, and/or broadcast journalism. The course examines the various forms of mass media, advertising/public relations, journalism ethics, the mass media's influence on society, and relevant legal issues, among many other topics. The student will (1) demonstrate an understanding of the principles of journalism; (2) demonstrate an understanding of how journalism affects society; and (3) complete several journalism-related projects.

Grades: 9, 10, 11, 12 (11101-Journalism)

LA-1131 Debate — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hser, NR&A)

Students will learn the fundamentals of a researched argument which include speech, persuasion, reasoning and debate. They will practice these skills through writing, giving speeches and participating in actual debates. Proper methods and uses of research will be covered. Students will develop self-confidence and critical thinking skills.

Grades: 9, 10, 11, 12 (01153-Forensic)
NCAA

LA-1141 Myths and Legends — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Myths and Legends is a one-semester course that expands the knowledge of Mythology. Students will do an in-depth study of myths and legends from various regions of the world. The course includes a research project. Students will understand the various qualities of myths and legends, gain appreciation for different cultures, and examine universal themes.

Prerequisite: Successful completion of Language Arts I and Language Arts II
Grades: 11, 12 (01069-Lit)
NCAA

LA-1151 Yearbook — Full Year – 1 credit

(AC, BMMT, E/M&IT, NR&A)

The main objective of the course is the publication of the yearbook. All students enrolled will be responsible for interviewing, copywriting, proofreading, picture cropping, graphic layout and design, taking digital photos, and meeting all deadlines. In addition, students will be responsible for financing the book through advertising sales, book sales, and a variety of other fundraising activities. Students are also required to spend some time after school on production activities, especially at a deadline. The opportunity to develop leadership skills will be another aspect for the student to consider. Interested students may assume positions as editors or managers under the supervision of a faculty advisor.

Prerequisite: Application and teacher recommendation is required
Grades: 9, 10, 11, 12 (22999-Misc)

LA-1161 ELD Academic Assistance — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Students who speak a language other than English will work with the classroom teacher to achieve higher levels of academic English proficiency and access to information from core academic courses. Students will work on academic skills, performances, presentations and other activities aligned with meeting the outcomes of their other core academic courses in preparation for independent academic success. This course may be repeated for credit.

Prerequisite: Students are eligible for this course as determined by English Language Proficiency Assessment
Grades: 9, 10, 11, 12 (01008-Eng)

LA-1171 ELD English — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course is for students who are newest to the United States and/or in the earliest stages of learning English. This course will provide an opportunity for students to increase listening, speaking, reading, and writing skills. Instruction will integrate all areas of communication. Students will gain proficiency in social and academic language. This course may be repeated for credit.

Prerequisite: Students are eligible for this course as determined by English Language Proficiency Assessment.
Grades: 9, 10, 11, 12 (01008-Eng)

LA-1181 AARI (Adolescent Accelerated Reading Initiative) — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Adolescent Accelerated Reading Initiative (AARI) is a one semester course designed to improve students' reading comprehension. In this class, students will build skills in the following areas: making and supporting inferences, summarizing the main idea, analyzing the author's purpose, and analyzing the structure and organization of the non-fiction text. Through this class, students will learn valuable study skills as well as strategies for understanding difficult texts that they may encounter in tests and in their core classes.

Prerequisite: Students are eligible for this course as determined by testing administered by district staff.
Grades: 9, 10, 11 (51067-Eng)

LA-1201 Literacy Lab — Semester - 1/2 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Students in this course will work in a small-class environment to improve their reading and writing skills so that they can better comprehend texts in a high school setting and in post-secondary education. Students will build skills in: comprehension and inferring skills, understanding and using academic vocabulary, reading fluency, and basic writing. This course may be repeated as needed based on testing done at the end of each course.

Prerequisite(s): Students are eligible for this course as determined by the following criteria: Below grade level proficiency as demonstrated by standardized testing (PSAT, NWEA, etc.), demonstrated difficulty with reading/writing in core classes, and may have successfully completed AARI.

Grade Level: 9, 10, 11, 12 (01009 – Language Arts Lab)

LA-1221 Broadcasting Journalism — Full Year - 1 credit

(AC, BMMT, HSer, E/M&IT)

This course provides an opportunity for students to demonstrate problem-solving skills that incorporate both the technical and creative aspect of the process of creating content for video broadcast production. Students will demonstrate technical proficiency with professional quality computer software used in audio editing and digital audio content creation.

Grades: 9, 10, 11, 12 (11103-Eng)

Kettering Campus

LA-3081 Advanced Placement English Language & Composition — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Students will study rhetorical devices and modes using classical and contemporary non-fiction. They should have a strong background in language arts as the course is comparable to freshman composition in college. It is recommended but not required that students take the AP Language and Composition test in the spring of the school year. A summer Reading Assignment is required.

NCAA (01005-AP)

LA-3091 Advanced Placement English Literature & Composition — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Students will study literary classics and research writing techniques. They should have successfully completed *AP English Language and Composition* or have a strong background in language arts as this course is comparable to freshman English Literature in college. This course is recommended for, but not limited to, students who will take the AP Literature and Composition exam in the spring of the school year. A summer reading assignment is required.

NCAA (10006-AP)

MA-1001 Math Lab — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Students in this course will work in a small-class environment to improve their math skills and understanding of math concepts being taught in their core math class. Students in this course will have an opportunity to preview and practice upcoming core math course concepts as well as have any topics reviewed with teacher support for confidence and accuracy. This course may be repeated as needed based on testing done at the end of each course.

Prerequisite(s): Students are eligible for this course as determined by the following criteria: Below grade level proficiency as demonstrated by standardized testing (PSAT, NWEA, etc.), demonstrated difficulty with math curriculum, or had been previously enrolled in this course in middle school.

Grade Level: 9, 10, 11, 12

MA-1011 Algebra I — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course will consist of eight sections of traditional algebraic concepts including operations of the real number system, linear equations and inequalities, linear systems and inequalities, exponents and exponential functions, quadratics, polynomials, rational expressions, radicals and connections to Geometry. Many algebraic applications will be enhanced through the use of graphing calculators. Problem solving strategies will be included throughout all sections of the course to help students learn to think critically, work cooperatively and communicate ideas to their peers and teachers.

Grades: 9, 10, 11, 12 (02052-Alg)
NCAA

MA-1015 STEM Algebra I — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course will consist of eight sections of traditional algebraic concepts including operations of the real number system, linear equations and inequalities, linear systems and inequalities, exponents and exponential functions, quadratics, polynomials, rational expressions, radicals and connections to Geometry. Many algebraic applications will be enhanced through the use of graphing calculators. Problem solving strategies will be included throughout all sections of the course to help students learn to think critically, work cooperatively and communicate ideas to their peers and teachers.

Grades: 9 (02052-Alg)
NCAA

MA-1021 Geometry — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Geometry is a full year course that is a logical extension for students who have completed *Algebra I*. It is the study of shape, its structure and measure. Students will learn in depth descriptions, characteristics, relationships and computations related to geometric figures. Geometry will be the platform for learning about reasoning and proof. Techniques of algebra will be used in geometric applications.

Prerequisite: Successful completion of Algebra I
Grades: 9, 10, 11, 12 (02072- Geo)
NCAA

MA-1025 STEM Geometry — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

STEM Geometry is the study of shape, its structure and measure that describe the physical space in which we live. Students will learn in depth descriptions, characteristics, relationships and computations related to geometric figures. Geometry will be the platform for learning about reasoning and proof. Techniques of algebra will be used in geometric applications. The course will have an additional emphasis on applications to the world around us. These concepts will be illustrated through real-world application projects where students will work collaboratively to solve problems. The Mathematical Practice Standards are applied throughout the course and together with the content standards.

Grades: 9, 10 (02072- Geo)
NCAA

MA-1031 Algebra II — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Algebra II is a full year advanced algebra course which includes quadratics, radicals, rationals, logarithms, exponentials and trigonometry. It is an extension of topics in *Algebra I* with an in-depth study of higher order functions. Additional concepts include complex numbers, sequences and series, data analysis and statistics.

Prerequisite: Successful completion of Algebra I and Geometry
Grades: 10, 11, 12 (02056-Alg)
NCAA

MA-1031 STEM Algebra II — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

STEM Algebra II is a full year advanced algebra course which includes quadratics, radicals, rational expressions, logarithms, exponentials and trigonometry. It is an extension of topics in Algebra I with an in-depth study of higher order functions. Additional concepts include complex numbers, sequences and series, data analysis and statistics. Students will analyze and identify the relationship among mathematical expression and justify their conclusions through graphs, tables, and symbolic manipulation. These concepts will be illustrated through real-world application projects where students will work collaboratively to solve problems. The Mathematical Practice Standards are applied throughout the course and together with the content standards.

Prerequisite: Successful completion of Algebra I and Geometry
Grades: 11 (02056-Alg)
NCAA

MA-1041 Beginning Algebra II Year 1 — Full Year - 1 credit

MA-1051 Intermediate Algebra II Year 2 — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Beginning Algebra II/Intermediate Algebra II is a two year course that is a logical progression for students who have completed Algebra I and Geometry. It is an extension of topics in Algebra I with a study of higher order functions. Additional concepts include trigonometry, complex numbers, sequences and series, data analysis and statistics. Problem solving is an important part of Algebra II. Note: Credit for Algebra II will not be given until student successfully completes both years.

Grades: 11, 12 (02056-Alg)
NCAA: Intermediate Algebra II, year 2 (Successful completion of years I & II equate to one full year of NCAA credit)

MA-1081 College Mathematics — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This course is designed for seniors who have successfully completed Algebra I, Geometry, and Algebra II, and are interested in extending their math knowledge to prepare for mathematics in the college setting. This course will show students how mathematics can solve authentic problems that apply to their lives, as well as provides them an opportunity to develop problem-solving skills, while fostering critical thinking within an authentic setting. In addition, this course enables students to understand and reason with quantitative issues and mathematical ideas they are likely to encounter in college, career, and life. With a focus on problem-solving, logic, set theory, number theory, and graph theory, students will gain a greater depth into their math understanding for college placement in courses such as Algebra, Geometry, Trigonometry, or Probability and Statistics.
Grades: 12 (02102-Dis)

MA-1091 Precalculus — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This is a Calculus preparation course that is recommended for students interested in pursuing careers in math, science, technology, engineering or business. The first semester will focus on trigonometry and the study of right and oblique triangles. Other topics include the unit circle, verifying and solving trigonometric functions, conic sections, parametric functions, polar coordinates and sequences and series. Second semester will consist of the study of algebraic and graphical in-depth analysis of families of functions including Polynomial, power, rational, exponential and logarithmic; matrices and vectors.

Prerequisite: Successful completion of Algebra I, Geometry, and Algebra II AND teacher recommendation
Grades: 11, 12 (02056-Alg)
NCAA

MA-1091 STEM Technical Mathematics — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This course continues students' study of algebra and geometry, building upon high school topics. Functions, problem solving, measurement, geometric applications of algebra, trigonometry, and predictive capabilities are the topics to be studied. These topics will be studied in an application-centered collaborative environment. Appropriate technology from manipulatives, to calculators and application software are used regularly. The Mathematical Practice Standards are applied throughout the course, together with the content standards.

Prerequisites: Successful completion of Algebra I, Geometry, and Algebra II
Grades: 11, 12

MA-1095 Calculus — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course is intended for college bound students who have successfully completed Pre-calculus, but are not ready for an AP college level Calculus course. Students are not prepared for the advanced placement exam, but will experience the same material covered in a semester long college Calculus course. Units of study include limits, derivatives of functions, integrals, and differential equations.

Prerequisite: Successful completion of Pre-calculus AND teacher recommendation
Grades: 11, 12 (02121-Alg)
NCAA

MA-1111 Statistics — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Statistics is the study of data: how to gather it, analyze it, interpret it, and draw conclusions from it. In the first semester of Statistics, students will learn statistical techniques to analyze and interpret data, use probability and two-way tables to explore the ideas of independence and likelihood, learn to design studies and experiments that minimize and variability, and build the concept of a probability distribution to explore more complex ideas in probability that arise in data analysis. Semester two, students will use probability distributions to build the idea of a sampling distribution as a measure of bias and variability in an estimate, use sampling distribution to motivate an understanding of statistical inference, confidence intervals and hypothesis tests, including inference for proportions, means, categorical distributions using chi-squared distributions, and slopes of linear regression equations.

Prerequisite: Successful completion of Algebra II
Grades: 10, 11, 12 (02201)
NCAA

MA-3082 AP Pre-calculus — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

In this course, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. During this course, students acquire and apply mathematical tools in real-world modeling situations in preparation for using these tools in college-level calculus. Throughout this course, students develop and hone symbolic manipulation skills needed for future mathematics courses. They also solve equations and manipulate expressions for the many function types throughout the course. Students also learn that functions and their compositions, inverses, and transformations are understood through graphical, numerical, verbal, and analytical representations, which reveal different attributes of the functions and are useful for solving problems in mathematical and applied contexts.

Prerequisite: Successful completion of Algebra I, Geometry, and Algebra II AND teacher recommendation
Grades: 10, 11, 12 (02056-Alg)
NCAA

MA-3061 AP Statistics — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students who successfully complete the course and exam may receive credit, advanced placement, or both for a one-semester introductory college statistics course.

Prerequisite: Successful completion of Algebra II
Grades: 10, 11, 12 (02203-AP)
NCAA

MA-3091 AP Calculus — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course is the equivalent of first semester college Calculus. It includes derivatives of algebraic functions, integrals and differential equations. Students are prepared for the advanced placement exam.

Prerequisite: Successful completion of Pre-calculus or Calculus with teacher recommendation.
Grade: 12 (02124-AP)
NCAA

PHYSICAL EDUCATION

PE-1001 Personal Fitness — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Students will gain knowledge, skills and attitudes necessary to improve or maintain cardiovascular efficiency, flexibility, muscular strength, muscular endurance, body composition, speed, power, agility and balance, as well as swimming and water safety. Students will also engage in weekly classroom experiences that emphasize personal lifestyle decisions related to designing and implementing a personal fitness program, reducing cardiovascular risk factors, stress management, nutrition and establishing a high-quality lifestyle.

This required course may not be repeated for credit.

Grades: 9, 10, 11, 12 (08005-Fitness)

PE-1011 Health — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course offers an opportunity for students to better understand the dynamics of good health. This course may include mental, physical and social aspects of good health such as safety, stress management, physical fitness, drugs, alcohol, tobacco, nutrition and diseases of the human body.

This required course may not be repeated for credit.

Grades: 9, 10, 11, 12 (08051-Health)

PE-1021 Strength Fitness — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course is designed to emphasize further knowledge and development of muscular strength, and endurance in major muscle groups along with flexibility and cardiovascular fitness. Students will learn and apply principles and techniques of weight training, resistance training, plyometrics and cardiovascular training to design a personal fitness program to achieve desired results.

Prerequisite: Personal Fitness
Grades: 9, 10, 11, 12 (08005-Fitness)

PE-1031 Individual Lifetime Sports — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course is designed for the student who would like to acquire or improve their individual lifetime skills. Emphasis will be placed on badminton, bowling, distance running, pickle ball, roller-skating, wrestling, yoga, tennis, and table tennis. Special field trips may be made to bowling alleys, and racquetball courts.

Prerequisite: Personal Fitness
Grades: 9, 10, 11, 12 (08003-Ind)

PE-1041 Team Sports — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A

This course will allow the student the opportunity to gain knowledge, skills, strategies and attitudes necessary to participate in lifelong team sports activities. Students will improve or maintain a health-related level of fitness in units of air force/flag football, soccer, basketball, softball, volleyball, floor hockey, and team handball while maintaining cardiovascular endurance.

Prerequisite: Personal Fitness
Grades: 9, 10, 11, 12 (08002-Team)

PE-1051 Advanced Weight Training **Semester – 1/2 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

The instructor and student collaborate to design and implement a strength training program according to the student's fitness goals. The instructor and student will evaluate the program as a constant process toward obtaining the desired outcomes.

Prerequisite: Personal Fitness and Strength Fitness

Grades: 10, 11, 12 (08009-Weight)

PE-1061 Dance Foundations and Fitness **Semester – 1/2 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Students in this class will learn some basic dance techniques as well as learn dance sequences for physical fitness. Students will have the opportunity to be exposed to a variety of styles of dance, which may include but is not limited to Hip Hop, Ballet, Jazz, Contemporary, and Zumba. Students will also learn proper warm up and stretching techniques and may have an opportunity to choreograph.

Grades: 9, 10, 11, 12 (08016)

PE-1111 Movement, Mindfulness, and Stress Management **Semester – 1/2 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Students in this class will learn about how the brain works especially during stressful moments or trauma and then learn strategies to cope with stress and anxiety. These strategies will include movement exercises, meditation, and reflective/goal setting journaling in order to learn life-long strategies for positive mental and physical health. This class is about self-discovery, building confidence, and managing stress so that when students attend core classes (and later, their workplace) they are at their optimal learning potential.

Grades: 9, 10, 11, 12 (08016)

PE-1101 Advanced Conditioning for the Varsity Athlete **Semester – 1/2 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This challenging course is designed strictly for those varsity student-athletes who would like to enhance the many components that are desired for optimal athletic performance. Emphasis will be placed on addressing or improving the basic to advanced techniques/skills necessary for overall athletic performances, prevention of injuries, promoting a positive self-image, developing confidence and mental toughness. A discipline and structured atmosphere will enable student-athletes to reach their athletic potential.

Prerequisite: Personal Fitness and recommendation from student's head coach
Grades: 9, 10, 11, 12 (08002-Team)

SCIENCE

SC-1001 Conceptual Science with Earth Science Integration **Full Year – 1 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

In this course, students will develop and use models of interactions at the atomic molecular scale to explain observed phenomena. Students will develop a model of the flow of energy and cycles of matter for phenomena at macroscopic and sub-microscopic scales. These goals support students in building a foundation that prepares them for explaining and making predictions about important phenomena in all science disciplines.

Grades: 9, 10 (03001)
NCAA

SC-1005 STEM Conceptual Science with Earth Science Integration **Full Year – 1 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course is a project-based science class. In this course, students will develop and use models of interactions at the atomic molecular scale to explain observed phenomena. Students will develop a model of the flow of energy and cycles of matter for phenomena at macroscopic and sub-microscopic scales. These goals support students in building a foundation that prepares them for explaining and making predictions about important phenomena in all science disciplines.

Grades: 9, 10 (03001)
NCAA

SC-1011 Biology — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course fulfills the Biology graduation requirement. This course is designed to align with the Next Generation Science Standards. Students will continue to develop their skills by using the Science and Engineering Practices to demonstrate proficiency of the Disciplinary Core Ideas while integrating Crosscutting Concepts. Students will be studying the following topics: Structure and Function, Matter and Energy in Organisms and Ecosystems, Interdependent Relationships in Ecosystems, Inheritance and Variation of Traits, and Natural Selection & Evolution.

Grades 10
NCAA (03051-Bio)

SC-1015 STEM Biology — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course fulfills the Biology graduation requirement. The concepts studied will include heredity, Natural Selection and evolution, cell reproduction, matter and energy in organism and ecosystems, interdependent relationships in ecosystems, and human impact within the biosphere. These concepts will be illustrated through real-world application projects where students will work collaboratively to solve problems. Students design and conduct investigations; record, analyze, and present data; account for errors; and formulate evidence-based conclusions.

Grades: 10
NCAA (03051-Bio)

SC-1021 Chemistry — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course fulfills the Chemistry graduation requirement (Chemistry or Physics is required for graduation), and is designed to align with the Next Generation Science Standards. Students will continue to develop their skills by using the Science and Engineering Practices to demonstrate proficiency of the Disciplinary Core Ideas while integrating Crosscutting Concepts. Students will study the following topics: Structure and Properties of Matter, Chemical Reactions, and Energy Transformations. This course meets the eligibility criteria toward the fourth credit in mathematics if not used for science requirement.

Grades: 10, 11, 12 (03101-Chem)
NCAA

SC-1031 Physics — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course fulfills the Physics graduation requirement (Chemistry or Physics is required for graduation), and is designed to align with the Next Generation Science Standards. Students will continue to develop their skills by using the Science and Engineering Practices to demonstrate proficiency of the Disciplinary Core Ideas while integrating Crosscutting Concepts. Students will be studying the following topics: Forces and Interactions, Energy and Wave, and Electromagnetic Spectrum. This course meets the eligibility criteria toward the fourth credit in mathematics if not used for science requirement.

Grades: 10, 11, 12 (03151-Physics)
NCAA

SC-1031 STEM Physics — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Students will engage in real-word, project-based learning experience that integrates Physics curriculum through innovative teaching methods. Students study and learn fundamental concepts in motion, forces, energy, electric charge, waves, optics, and nuclear physics. Credit in Physics or Chemistry is mandatory for graduation. This course meets the eligibility criteria toward the fourth credit in mathematics if not used for the science requirement.

Grades: 11, 12 (03151-Physics)
NCAA

SC-1041 Anatomy/Physiology — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This is a laboratory-oriented course that has a major emphasis on anatomy and physiology of the human body.

Prerequisites: Successful completion of Biology
Grades: 10, 11, 12 (03053-Anatomy)
NCAA

SC-1051 Crime Scene Investigation (Forensic Science) **Semester – 1/2 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course will focus on the topics and techniques used by crime scene investigators. Topics such as observing and documenting a crime scene will be covered as well as fingerprinting, handwriting analysis, and hair & fiber analysis. Biology, chemistry and physics subject areas, such as DNA analysis, toxicology and ballistics, will be combined and applied to realistic crime scenes. The course is designed for students who have passed Biology, are interested in several areas of science, and enjoy extensive hands on activities and group work.

Grades: 11, 12 (03210-Science)
NCAA

SC-1071 Astronomy – The Solar System Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course will provide the student with an introduction to the concepts of modern astronomy. This semester will be focused on the formation of the Earth and the solar system. Students will compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. The course gives a description of astronomical phenomena using the laws of physics. The course covers many standard topics including planets, moons, asteroids and comets.

Grades: 10, 11, 12 (03004-Chem)
NCAA

SC-1072 Astronomy, Milky Way & Beyond Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course will provide the student with an introduction to the concepts of modern astronomy. This semester will be focused on the origin and history of the Universe. Students will compare the stars, the Milky Way and other galaxies, black holes, and more esoteric questions concerning the origin of the universe and its evolution and fate. The course gives a description of astronomical phenomena using the laws of physics.

Grades: 10, 11, 12 (03004-Chem)
NCAA

SC-2011 Honors Biology Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

An honors course is designed for the student who would like to pursue a deeper understanding of the required course content at a more advanced level. This course fulfills the Biology graduation requirement. This course is designed to align with the Next Generation Science Standards and prepares students for Advanced Placement Biology. Students will continue to develop their skills by using the Science and Engineering Practices to demonstrate proficiency of the Disciplinary Core Ideas while integrating Crosscutting Concepts. Students will be studying the following topics: Structure and Function, Matter and Energy in Organisms and Ecosystems, Interdependent Relationships in Ecosystems, Inheritance and Variation of Traits, and Natural Selection and Evolution.

Grades: 9, 10
NCAA (03051-Bio)

SC-2021 Honors Chemistry Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

An honors course is designed for the student who would like to pursue a deeper understanding of the required course content at a more advanced level. This course fulfills the Chemistry graduation requirement (Chemistry or Physics is required for graduation), and is designed to align with the Next Generation Science Standards and prepares students for Advanced Placement Chemistry. Students will continue to develop their skills by using the Science and Engineering Practices to demonstrate proficiency of the Disciplinary Core Ideas while integrating Crosscutting Concepts. Students will be studying the following topics: Structure and Prosperities of Matter, Chemical Reactions, and Energy Transformations. This course meets the eligibility criteria toward the fourth credit in mathematics if not used for the science requirement.

Grades: 10, 11, 12
NCAA (03101-Chem)

SC-2031 Honors Physics — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

An honors course is designed for the student who would like to pursue a deeper understanding of the required course content at a more advanced level. This course fulfills the Physics graduation requirement (Chemistry or Physics is required for graduation), and is designed to align with the Next Generation Science Standards and prepares students for Advanced Placement Physics. Students will continue to develop their skills by using the Science and Engineering Practices to demonstrate proficiency of the Disciplinary Core Ideas while integrating Crosscutting Concepts. Students will be studying the following topics: forces and Interactions of Matter, Energy and Waves, and Electromagnetic Spectrum. This course meets the eligibility criteria toward the fourth credit in mathematics if not used for the science requirement.

Grades: 10, 11, 12 (03151-Physics)
NCAA

SC-3011 AP Biology — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions.

Prerequisite: Successful completion of Biology or Honors Biology
Grades: 11, 12 (03056-AP)
NCAA

SC-3021 AP Chemistry — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

AP Chemistry is an introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy. Students cultivate their understanding of the interrelationships of the natural world through inquiry-based lab investigations and field work as they explore concepts like the four Big Ideas; energy transfer, interactions between earth systems, interactions between different species and the environment, and sustainability. This course meets the eligibility criteria toward the fourth credit in mathematics if not used for the science requirement.

Prerequisite: Successful completion of Chemistry and concurrent enrollment in Pre-Calculus or Calculus
Grades: 11, 12 (03106-AP)
NCAA

SC-3031 AP Physics — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

AP Physics C: Mechanics is a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study and activities as well as hands-on laboratory work as they explore concepts like change, force interactions, fields, and conservation.

AP Physics C: Electricity and Magnetism is a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study and activities as well as hands-on laboratory work as they explore concepts like change, force interactions, fields, and conservation. This course meets the eligibility criteria toward the fourth credit in mathematics if not used for the science requirement.

Prerequisite: Successful completion of Physics or Honors Physics and concurrent enrollment in Pre-Calculus or Calculus (recommended)
Grade: 11, 12 (03156-AP)
NCAA

SC-3061 AP Environmental Science **Full Year – 1 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. This course can be taken concurrently with Chemistry or Physics.

Prerequisite: Successful completion of a high school science course.
Grades: 10, 11, 12 (03207-AP)
NCAA

SC-3071 AP Environmental Science with Project-Based Learning **Full Year – 1 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. This course employs project-based learning strategies.

Prerequisite: 2 years of high school lab science and algebra & can be taken concurrently with Chemistry or Physics.
Grades: 10, 11, 12 (03207-AP)
NCAA

SC-1091 STEM Research and Design **Full Year – 1 credit**

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course is a culmination of previous science and/or engineering classes. Students are encouraged to pursue their own independent research and carry out their own projects with instructor guidance. After establishing criteria, and developing skills through a set of predetermined exorcises, students will submit project proposals for instructor review/approval. Through their work, students will display mastery of engineering practices and standards by developing their own project(s) which relate to their desired future field of study. Related topics of study can range from Biochemistry to Aerospace/beyond.
Prerequisites: Successful completion of Biology and Physics
Grades: 11, 12

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

ENGINEERING COMPUTER AIDED DRAFTING & DESIGN (CADD)

EM-1001 Mechanical Computer Aided Drafting & Design Technology **Full Year – 1 credit**

(AC, BMMT, E/M&IT, NR&A)

Students will learn basic Mechanical drafting standards and methods. Students will demonstrate these basics through short and in-depth 2D and 3D CADD drawings. Engineering CADD Drawings will be taught to further student's knowledge within the Engineering industry. Students will have the opportunity to go on engineering related field trips. This course meets the eligibility criteria toward the fourth credit in mathematics. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Grades: 9, 10, 11, 12 (21107-CAD) CTE, PAVA, 4th year Math

EM-1011 Engineering Computer Aided Drafting & Design Lab Full Year, 1 or 2 Periods/Credits

(AC, BMMT, E/M&IT, NR&A)

This hands-on CADD lab course will expose students to the exciting career opportunities in various engineering fields. Students will be introduced to the technical aspects of engineering practices through individual, project-based and team-based projects. Students will learn employability skills and will develop a portfolio of their personal work. Students will demonstrate what is being taught through various methods such as PowerPoint presentations, poster boards, 2D & 3D CADD projects, 3D models, and competing in competitions. Students will also be introduced to basic STEM methods including microcontrollers, electronics, robotics, and automation. Due to the depth of study, this course may be repeated for credit. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details. This course meets the 4th year math criteria.

Prerequisite: Mechanical computer aided drafting and design (CADD) tech
Grades: 10, 11, 12 (21107-CAD) CTE, PAVA, 4th year Math

EM-1031 Engineering with Robotics **Full Year – 1 credit**
(E/M&IT, NR&A)

Students will explore current Engineering technology through real world applications. Students will explore engineering and problem solving through hands-on projects. Students will have the opportunity to enhance their team building skills while learning how to take 3D CAD models and simulated designs to produce a small robot that will complete mechanical tasks. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

Grades: 9, 10, 11, 12 (21007-Engineering) CTE, PAVA, 4th year Math

EM-1181 Aerospace Engineering – UAV's (Drones) **Semester – 1/2 credit**
(E/M&IT, NR&A)

Students will further their STEM literacy through the lens of scratch build aviation for 21st Century learners using a modified engineering design model process, where students innovative, design STEM-driven hands-on aircraft activities that engage learners at every level and provide real-world learning opportunities that expose students to careers in science and technology. This class also stresses critical 21st Century skills, such as communication and teamwork. Students will take a hands-on approach through computer-aided drafting and design (CAD) and 3D printing that provides a variety of flexible implementation models. The curriculum involves both student-directed and teacher-led curricula to create a powerful and effective STEM experience. Successful completion of this course may qualify students for college credit through articulation programs with postsecondary schools. See page 11 for details.

*Prerequisite: Mechanical CADD

Grades: 10, 11, 12 (21007-Engineering) CTE, PAVA, 4th year Math

SOCIAL STUDIES

SS-1001 United States History **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The purpose of this required course is to increase students' knowledge of historical events, sharpen their skills at rational discourse about American social problems, and deepen their understanding of the American heritage. This course is not confined to a survey of historical events. Persisting problems in American history are raised to stimulate critical thinking skills by students. The course will consist of a basic examination of the chronological history of the United States from the 1870's Industrial Revolution to the present. Emphasis is placed on the economic, political and social developments in the United States.

Grade: 9
NCAA (04103-Modern)

SS-1011 World Studies **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

World Studies is a full year required course that focuses on basic events in human political, economic, and social development. The course will examine the different peoples and cultures that have appeared in history and how they interact with and influence each other.

Grade: 10
NCAA (04051-World)

SS-2001 Honors United States History **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The purpose of this required course is to increase students' knowledge of historical events, sharpen their skills at rational discourse about American social problems, and deepen their understanding of the American heritage. This course is not confined to a survey of historical events. Persisting problems in American history are raised to stimulate critical thinking skills by students. The course will consist of a basic examination of the chronological history of the United States from the 1870's Industrial Revolution to the present. Emphasis is placed on the economic, political and social developments in the United States. An honors course is designed for the student that would like to pursue a deeper understanding of the required course content at a more advanced level. This course is intended for students to become prepared in skills and content for Advanced Placement or similar college level work.

Grade: 9

NCAA (04103-Modern)

SS-1025 American Civics: Our System of Government — Semester - 1/2 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

In this semester, the course examines the Constitution: its basic terms and principles. This includes an analysis of governmental power and of the corresponding individual rights and responsibilities, with an emphasis on the structure, function, and operation of the federal government.

Grade: 11 (04161-Civics)
NCAA

SS-1026 American Civics: Our System of Economics — Semester - 1/2 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

In this semester course, students will develop an understanding of the American mixed economic system, including its structure, function, and operation. The course addresses microeconomic decision-making in the analysis of markets, including market participants' decisions regarding production, consumption, and government regulation. On the macroeconomic level, students will study the behavior of the national economy: its economic indicators, business cycle, participants, as well as the role of the government both domestically and internationally.

Grade: 11 (04161-Civics)
NCAA

SS-1051 Current Issues — Semester - 1/2 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The purpose of this course is to broaden the world perspective of the high school student. Students will examine the major regions of the world and identify major issues that demonstrate the dynamics of international relationships, such as the use of resources and environmental concerns. Examples of the topics covered in this class are genocide, the conflicts in the Middle East, the U.S. role in a changing world, religious tensions and terrorism.

Grades: 10, 11, 12 (04064-Contemp)
NCAA

SS-1061 Street Law — Semester - 1/2 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Street Law comprehensively examines the basic principles and concepts in the law and the legal process, primarily through a study of criminal and juvenile justice. In addition, students will explore issues related to criminal law and law enforcement, including individual rights, alternative remedies and civil vs. criminal law and procedure. Students will learn about the structure, function and operation of the legal system. Throughout the semester, students will receive practical and timely legal information, which they may apply to real life situations. Course activities include mock trials, class discussions, guest speakers, case studies, and courtroom observations.

Grades: 10, 11, 12 (04163-Consum)
NCAA

SS-1071 Anthropology — Semester - 1/2 credit

(AC)

The focus of Anthropology is the study of those characteristics that make the human species distinct. What is the survival value or logic behind some of the diverse behaviors exhibited by traditional peoples around the world? Through this study, students will gain an understanding and appreciation of the achievements of historical and traditional cultures of diverse groups of people.

Grades: 10, 11, 12 (04251-Anthrop)
NCAA

SS-1081 Sociology — Semester - 1/2 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Sociology is the study of human relationships. The course will present a comprehensive examination of the basic concepts, principles, and methods central to the scientific study of sociology. The goal of the class is to help students to view their own lives within a larger social and historical context. Students will be able to appreciate the rich diversity that is possible in social life by exposing them to data from a wide variety of cross-cultural and historical sources.

Grades: 10, 11, 12 (04258-Sociology)

NCAA

SS-1041 Psychology — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Psychology is the study of the mind and behavior. This introductory course begins with an examination of the basic principles and methods of psychology, followed by a survey of the branches of psychology: behavioral, developmental, personality, cognitive, social and behavior disorders. Students will focus on the terminology, theories, studies and people important to psychology.

Grades: 10, 11, 12 (04254-Psychology)

NCAA

SS-3041 AP Psychology — Full Year - 1 credit or Semester - 1/2 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The AP Psychology course is designed to introduce students to the systematic and scientific study of behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

Grades: 11, 12 (04256-AP)

NCAA

SS-1111 Anti-Defamation League's "A World of Difference" — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This course is designed to introduce students to personal and social responsibilities in the sense of treatment of others. Students will learn how to combat "isms," bullying, empowering those bullied, and stereotyped with the use of appropriate skills.

Grades: 10, 11, 12 (04106-Contemporary Issues)

SS-3031 AP Government — Full Year - 1 credit or Semester - 1/2 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Advanced Placement Government is an elective Social Studies course designed to provide students with a foundation in government that will prepare them for a major in the field of political science or in pre-law. Information in this course may be beneficial for students preparing for the A.P. exam.

Grade: 11, 12 (04151-U.S.)

NCAA

SS-3032 AP US Government and Politics with Project-Based Learning — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This course provide students with an analytical perspective on government and politics in the United States, involving both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies and foundational documents. The courses generally cover foundations of American democracy, interaction among branches of government, political beliefs and behaviors, political participation, and civil rights and liberties.

Prerequisite: Students should be able to read a college-level textbook and write grammatically correct, complete sentences

Grade: 11, 12 (04151-U.S.)

NCAA

SS-3011 AP World History — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

While preparing to take the Advanced Placement Examination in world history, students in this full year course will develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This course will thus advance this understanding through a combination of selective factual knowledge and appropriate analytical skills. This course highlights the nature of changes in international frameworks, and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence.

Grades: 10, 11, 12 (04057-AP)
NCAA

SS-3001 AP United States History — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This course is designed to prepare students for the Advanced Placement Examination in American History. Students who select this course should have a strong interest and background in American history, coupled with strong analytical and writing skills. The level of material and instruction is equivalent to college American History.

Grades: 10 (with minimum criteria), 11, 12 (04104-AP U.S.)
NCAA

SS-3021 AP Economics — Full Year - 1 credit or Semester - 1/2 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

While preparing students to take the Advanced Placement Examinations in both microeconomics and macroeconomics, this full-year course will give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers within the economic system as well as the economic system as a whole. It emphasizes the study of product markets, national income and price-level determination, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. It will develop students' familiarity with economic performance measures, the financial sector, stabilization policies, Successful completion of one semester of AP Government and one semester of AP Economics fulfills the American Civics requirement.

Grades: 11, 12 (04205-AP)
NCAA

SS-3051 AP Human Geography — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

AP Human Geography is a college level course introducing students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences.

Prerequisite: None
Grades: 9, 10, 11, 12 (04004-Soc.Sci.)

SS-1091 Student Leadership — Semester - 1/2 credit

This course teaches students the advanced skills of leadership. As students organize and implement a variety of school and community service projects, they learn communication skills, teamwork, organization, and time-management. Student grades are based on completion of 30 hours of community service and active participation in ongoing activity committees. Interested students must see the Student Leadership teacher for an application and teacher recommendation forms. This course may be taken for a semester or full year.

Prerequisite: Application and teacher recommendation is required
Grades: 9, 10, 11, 12 (04995-Soc.Sci.)

SS-1101 Link Crew — Semester - 1/2 credit

Link Crew is a class for current link leaders to learn leadership skills. In Link Crew, leaders will assess needs of the freshmen class and learn how to plan and implement projects that address those needs. Projects are based around the themes of social engagement, academic support, community outreach, and recognition. Additionally, classroom lessons are designed to help Link Leaders become stronger mentors and aid their ability to form positive

relationships with their freshmen and peers. This course maximizes the benefits of the existing Link Crew Program. These benefits include increased sense of community, improved climate, and successful transition of new students in collaborative leadership roles. This course may be taken for a semester or full year.

Prerequisite: Application and acceptance into the Link Crew Program
Grades: 11, 12 (04995-Soc.Sci.)

WL-1001 French I — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The French Level I course is an introduction to the French-speaking world, its language, and culture. It is intended for use with middle and/or high school students who have not studied French before. The goal of this course is to develop students' interpersonal, interpretive, and presentational skills in French. In this yearlong course, students begin to communicate in French using basic structures to speak, read, listen, and write about themselves, their family, school, home, activities, interests, and community. Although the focus of this course is on communication and intercultural competency, the units of study also support cross-curricular content, including the arts, health, science, language arts, and social studies. Career opportunities with language skills are also explored.

Grades: 9, 10, 11, 12 (06121-French)
NCAA

WL-1011 French II — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The French Level II course is a review of the Level I curriculum and continues to develop students' language proficiency and knowledge of the French-speaking world and culture. It is intended for use with middle and/or high school students who have successfully completed one year of French study. The goal of this course is to continue to develop students' interpersonal, interpretive, and presentational skills in French. Students will begin to expand the topics on which they can communicate and the ways in which they are able to express themselves and understand others. Students will begin to enhance their speech through the use of connecting and transition words, and will begin to manipulate different time frames while exploring themes relating to community, going on vacation, the house and home, food preparation and culture, comparisons of home culture celebrations to target culture celebrations, and the working world. Although the focus of this course is on communication and intercultural competency, the units of study also support cross-curricular content, including the arts, health, science, language arts, and social studies.

Prerequisite: Successful completion of French I
Grades: 10, 11, 12 (06122-French)
NCAA

WL-1021 French III — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The French Level III course continues to develop students' language proficiency and knowledge of the French-speaking world and culture. It is intended for use with high school students who have successfully completed two years of French study. The goal of this course is to continue to develop students' interpersonal, interpretive, and presentational skills in French, targeting the intermediate-mid level of proficiency. In this year-long course, students will begin to expand the topics on which they can communicate and the ways in which they are able to express themselves and understand others. Students will begin to enhance their speech through the use of connecting and transition words, and will continue to manipulate different time frames while exploring themes relating to contemporary life, daily routines and health, nature and its products, and childhood.. Although the focus of this course is on communication and intercultural competency, the units of study also support cross-curricular content, including the arts, technology, language arts and social studies. As recommended by the American Association of Teachers of Foreign Language, it is expected that the teacher will use the target language at least 90% of the time for all class purposes.

Prerequisite: Successful completion of French II
Grades: 10, 11, 12 (06123-French)
NCAA

WL-1031 French IV — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

In the French Level IV course, students continue to develop language proficiency and knowledge of the French-speaking world and culture. It is intended for use with high school students who have successfully completed a minimum of three years of French study. The goal of this course is to continue to develop students' interpersonal, interpretive, and presentational skills in French, targeting the intermediate-mid level of proficiency. Students will expand the topics on which they can communicate and the ways in which they are able to express themselves and understand others. Students will enhance their speech through the use of connecting and transition words and will manipulate different time frames while exploring themes relating to popular culture, the arts, the environment, social media, and traveling abroad. As recommended by the American Association of Teachers of Foreign Language, it is expected that the teacher will use the target language at least 90% of the time for all class purposes.

Prerequisite: Successful completion of French III
Grade: 12 (06124-French)
NCAA

WL-3031 AP French — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This course reviews, develops and enriches existing communication skills. Through selected readings, varied writing applications and challenging conversational activities, the student will be able to achieve levels of proficiency necessary to take the Advanced Placement French Exam.

Prerequisite: Successful completion of French IV
Grade: 12 (06125-French)
NCAA

WL-1041 Spanish I — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This course introduces the student to the sound and structure of the Spanish language. The student learns the language by developing listening, speaking, reading and writing skills. The lifestyles and traditions of Spanish speaking people are presented throughout the course to encourage an appreciation of cultural diversity.

Grades: 9, 10, 11, 12 (06191-Spanish)
NCAA

WL-1051 Spanish II — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

In addition to continuing those skills learned in Spanish I, the teacher places increasing emphasis on the spoken word. Fluency and knowledge of the language increase. It is recommended that students take this course immediately after Spanish I.

Prerequisite: Successful completion of Spanish I
Grades: 9, 10, 11, 12 (06102-Spanish)
NCAA

WL-1061 Spanish III — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

The teacher conducts the majority of the class in Spanish. The student continues to master Spanish sound and structure and demonstrates increased confidence in his speaking, reading, writing and listening ability. Students communicate in the language. The teacher continues to present cultural material. It is recommended that the student take this course immediately after Spanish II.

Prerequisite: Successful completion of Spanish II
Grades: 10, 11, 12 or permission of instructor (06103 Spanish)

NCAA

WL-1071 Spanish IV — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

The teacher conducts this course in Spanish. The student continues to develop skills in listening, speaking, reading, and writing. Cultural and literary exposure are incorporated.

Prerequisite: Successful completion of Spanish III
Grades: 11, 12 or permission of instructor (06104-Spanish)
NCAA

WL-3071 AP Spanish — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This Advanced Placement course, conducted entirely in Spanish, will prepare students for the Advanced Placement Exam. The classroom focus will include advanced writing, reading, speaking and listening skills.

Prerequisite: Successful completion of Spanish IV
Grades: 12 (06105-Spanish)
Kettering Campus
NCAA

WL-1075 Spanish for Heritage Speakers — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This elective course is a full-year language course that aims to provide students with improved literacy in Spanish. Students will explore a variety of topics that are of interest to them and their lives. Students will use authentic sources such as stories, articles, radio, podcasts, television series and movies in order to practice and master the integrated skills (speaking, listening, reading and writing) needed for language proficiency.
This course will examine grammatical concepts as needed to support a more standardized/formal use of North American Spanish. It will also explore cultural practices and products relevant to better understanding the world and the Spanish language.

Prerequisite: Heritage Spanish Speakers: Students who have Spanish as their home language
Grades: 9-12 (06105-Spanish)
NCAA

WL-1081 German I — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course is an introduction to German. The primary goal is developing proficiency in the four language skills: listening, speaking, reading, and writing, with an emphasis on communication. The students will also increase their awareness, knowledge, appreciation, and respect of the diverse cultures of the countries whose language they are trying to learn. This class incorporates music, song, art, and projects to help meet course objectives. It is strongly recommended that German I students continue through the third level.

Grades: 9, 10, 11, 12 (06201-German
NCAA

WL-1091 German II — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Second year German reviews, develops and refines existing skills and knowledge. Increased proficiency in the four language skills and cultural diversity will be the focus of this year. At this intermediate level, the student shall become more adept at manipulating structures and vocabulary in order to exchange ideas. Students will continue to enhance their cultural knowledge, as they become more familiar with German speaking countries.

Prerequisite: Successful completion of German I
Grades: 10, 11, 12 (06202-German)
NCAA

WL-1101 German III — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The student continues to master German and their previously learned skills of communication. They will demonstrate increased confidence in their speaking ability. The student will also increase their mastery of German language and culture through literature. In this year, students will be introduced to German Folklore and Fairy Tales. Students communicate in the language. It is recommended that the student take this course immediately after German II.

Prerequisite: Successful completion of German II
Grades: 11, 12 (06203-German)
Kettering Campus
NCAA

WL-1111 German IV — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The student will focus on syntax and fine communication skills. Students will be expected to read and analyze material and provide written and oral feedback in German. It is recommended that the student take this course immediately after German III.

Prerequisite: Successful completion of German III
Grades: 11, 12 (06204-German)
Kettering Campus
NCAA

WL-3111 AP German — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This course is designed to prepare students for the Advanced Placement German exam. The content of this course will reflect both student and teacher interests that create strong command of vocabulary and structures. Students will be expected to speak and understand German in various situations. Students will also read non-technical writings such as contemporary fiction, newspapers and magazines. Students will also be expected to express ideas fluently and accurately in writing.

Prerequisite: Successful completion of German III
Grade: 12 (06205-German)
Kettering Campus
NCAA

AL-1001 Academic Center — Full Year - 1 credit

This class is designed for students who need academic support, organizational support, and/or social and emotional support. This course provides a structured time during which students participate in planned activities. Students will be placed into this course based on recommendation and need with a limited number of seats for students who choose to opt in. Certain days may be dedicated to other activities to promote student well-being, community building, and student achievement. Examples include grade/goal conference, meetings, restorative circles, whole group AC activities and test prep. Criteria for passing include but are not limited to using Academic Center time for its intended purpose, bringing materials, setting academic goals, and participating in activities. Although this is a pass/fail course, it will be considered for athletic eligibility.

Grades: 9, 10, 11, 12 (22106-Seminar)

AL-1001 STEM AC Project Development — Full Year - 1 credit

The purpose of Academic Center is to provide academic support to students during the school day. Students will receive daily monitoring and support from teachers and establish academic and career goals. This course has to be selected if you are a student who is accepted into the STEM Academy.

Grades: 9, 10, 11, 12 (22106-Seminar)

AL-1011 LINKS **Semester - 1/2 credit**

This program is designed for general education students interested in learning about students with I.E.P.'s, and about individual students within Waterford School District. The students work together in an integrated, positive fashion, to promote socialization, independence and strong friendship bonds that last throughout high school and beyond. LINKS is about creating connections within a diverse group of students and ensuring that all students are acknowledged for what makes them different and what makes them and all of us the same. Potential activities may include attending a general or special education class with an identified peer, attending LINKS scheduled meetings, 1:1 meetings with the LINKS coordinator, and assisting with curriculum materials.

Grades: 9, 10, 11, 12 (22999-Misc)

AL-1041 Video Production I **Semester - 1/2 credit**
(AC)

Students will learn various aspects of videography ranging from camera techniques to script writing and editing. They will collaborate to produce video programs focusing on school related activities.

Grades: 10, 11, 12 (22999-Misc)
Mott Campus CTE

AL-1051 Video Production II **Semester - 1/2 credit**
(AC)

Video Production II is an independent study with students serving as team leaders for Video Production I students. Students electing this course will be expected to assist on school district video production and to assist teachers wishing to utilize video equipment.

Prerequisite: Successful completion of Video Production I
Grades: 10, 11, 12 (22999-Misc) CTE
Mott Campus

LEARNING RESOURCE CENTER

Learning Resource Center courses are for LRC students who have been certified by an IEP.

LANGUAGE ARTS COURSES

LR-1001 Language Arts I **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Language Arts I is a skill-based course which focuses on grammar, poetry, fiction and non-fiction text analysis, research skills, speech, and writing. Students will use a variety of literature to practice and master skills necessary for future LA courses, State assessments, and for possible AP coursework. LA I is a requirement for all freshmen.

NCAA (01053-Lit)

LR-1011 Language Arts II **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Language Arts II is a skill-based course which focuses on grammar, poetry, fiction and non-fiction text analysis, research skills, speech, and writing. Students will use a variety of literature as well as other texts to practice and master skills necessary for future LA courses, State assessments, and for possible AP coursework. LA II is a requirement for all sophomores.

NCAA (01053-Lit)

LR-1021 Language Arts III **Full Year - 1 credit**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Language Arts III is a skill-based course which focuses on grammar, poetry, fiction and non-fiction text analysis, research skills, speech, and writing. Students will use a variety of literature as well as other texts to practice and master skills necessary for future LA courses, State assessments, and for possible AP coursework. LA III is a requirement for all juniors.

NCAA (08005-Fit)

LR-1031 Language Arts IV **Full Year- 1 credit**

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Language Arts IV is a skill-based course which focuses on grammar, poetry, fiction and non-fiction text analysis, research skills, speech, and writing. Students will use a variety of literature as well as other texts to prepare them for both college coursework and communicating in a work setting. LA IV is a requirement for all seniors.

NCAA (08005-Lit)

MATHEMATICS COURSES

LR-1051 Consumer's Math I **Full Year - 1 credit**

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This math class reinforces basic computation and functional math application by having students learn how to use mathematics effectively as a tool in their personal and business lives. Emphasis is placed on the translation of mathematics into meaningful applications. Students will be able to understand terminology relating to personal and business mathematics applications, apply basic math skills to the solution of both personal and business applications, and use common formulas to solve a variety of personal and business mathematics problems.

Prerequisite: Placement will be determined by the Individualized Educational Planning Team (IEPT) and student performance on baseline assessments. Teacher recommendation is required.

Grades: 11, 12 (02157-Consum)

LR-1061 Consumer's Math II **Full Year - 1 credit**

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This course is a continuation of the curriculum introduced in Consumer's Math I. Students learn to evaluate goods and services, and to manage budgets and finances.

Prerequisite: Placement will be determined by the Individualized Educational Planning Team (IEPT) and student performance on baseline assessments. Teacher recommendation is required.

Grades: 11, 12 (02157-Consum)

LR-1211 Algebra I **Full Year - 1 credit**

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

This course will consist of eight sections of traditional algebraic concepts including operations of the real number system, linear equations and inequalities, linear systems and inequalities, exponents and exponential functions, quadratics, polynomials, rational expressions, radicals and connections to Geometry. Many algebraic applications will be enhanced through the use of graphing calculators. Problem solving strategies will be included throughout all sections of the course to help students learn to think critically, work cooperatively and communicate ideas to their peers and teachers.

Grades: 9, 10, 11, 12 (02052-Alg)
NCAA

LR-1221 Geometry **Full Year - 1 credit**

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

Geometry is a full year course that is a logical extension for students who have completed Algebra I. It is the study of shape, its structure and measure. Students will learn in depth descriptions, characteristics, relationships and computations related to geometric figures. Geometry will be the platform for learning about reasoning and proof. Techniques of algebra will be used in geometric applications.

Grades: 9, 10, 11, 12 (02072-Geo)
NCAA

SOCIAL STUDIES COURSES

LR-1301 United States History — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

The purpose of this required course is to increase students' knowledge of historical events, sharpen their skills at rational discourse about American social problems, and deepen their understanding of the American heritage. This course is not confined to a survey of historical events. Persisting problems in American history are raised to stimulate critical thinking skills by students. The course will consist of a basic examination of the chronological history of the United States from the 1870's Industrial Revolution to the present. Emphasis is placed on the economic, political and social developments in the United States.

NCAA (04103-Modern)

LR-1311 World Studies — Full Year - 1 credit

(AC, BMMT, E/M&IT, HSci, HSer, NR&A)

World Studies is a full year required course that focuses on basic events in human political, economic, and social development. The course will examine the different peoples and cultures that have appeared in history and how they interact with and influence each other.

NCAA (04051-World)

LR-1321-A American Civics: Our System of Government — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

In this required course students will learn the content and skills of American Civics. This course examines the Constitution: its basic terms and principles. This includes an analysis of governmental power and of the corresponding individual rights and responsibilities, with an emphasis on the structure, function and operation of the federal government.

Grade: 11, 12 (04161-Civics)
NCAA

LR-1321-B American Civics: Our System of Economics — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

In this required course students will develop an understanding of the American mixed economic system, including its structure, function and operation. The course addresses microeconomic decision-making in the analysis of markets, including market participants' decisions regarding production, consumption and government regulation. On the macroeconomic level, students will study the behavior of the national economy: its economic indicators, business cycle, participants, as well as the role of the government both domestically and internationally.

Grade: 11, 12 (04161-Civics)
NCAA

SCIENCE COURSES

LR-1411 Biology — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This course fulfills the course requirement for tenth grade students. The concepts studied will include heredity, evolution, cell structure and reproduction, and the organization of living things, genetics, ecosystems, biogeochemical cycles, human ecology and our impact on the planet.

Grade: 10
NCAA (08005-Fit)

LR-1414 Conceptual Science with Earth Science Integration — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

In this course, students will develop and use models of interactions at the atomic molecular scale to explain observed phenomena. Students will develop a model of the flow of energy and cycles of matter for phenomena at macroscopic and sub-microscopic scales. These goals support students in building a foundation that prepares them for explaining and making predictions about important phenomena in all science disciplines.

Grades: 9, 10, 11, 12 (03105-Concept) Science or Math Credit

NCAA

LR-1421 Chemistry — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Students in this course will study topics in scientific inquiry, forms of energy, energy transfer, properties of matter, and changes in matter. Credit in *Physics* or *Chemistry* (*Honors Physics* or *Honors Chemistry*) is a State science requirement and is mandatory for graduation. This course meets the eligibility criteria toward the fourth credit in mathematics if not used for the science requirement.

Grades: 10, 11, 12 (03105-Concept) Science or Math Credit

NCAA

LR-1431 Physics — Full Year – 1 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Students study and learn fundamental concepts in motion, forces, energy, electric charge, waves, optics, and nuclear physics. Credit in Physics or Chemistry (Honors Physics or Honors Chemistry) is a State science requirement and is mandatory for graduation. This course meets the eligibility criteria toward the fourth credit in mathematics if not used for the science requirement.

Prerequisite: Credit or concurrent enrollment in Algebra II
Grades: 10, 11, 12 (03161-Concept) Science or 4th Year Math
NCAA

LR-1141 Personal Achievement — Full Year – 1 credit

Personal Achievement is a course designed to increase/improve emotional intelligence (EQ) allowing students to develop their intrapersonal and interpersonal skills to be better prepared for interacting with others in their families, schools, work places and social circles. Through this course students will acquire skills in areas of emotional management, communication, problem-solving, and goal setting. Students will learn through a variety of learning modes, including standard lessons, PowerPoint presentations, games, art projects, movies, written assignments and group discussions.

Prerequisite: Placement will be determined by the Individualized Educational Planning Team (IEPT). Teacher recommendation is required.
Grade: 9, 10, 11, 12 (22207-Self Mgt)

VOCATIONAL COURSES

LR-1161 Employability Skills I — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

Students in the class will learn the pre-vocational skills necessary to obtain gainful employment in a post-secondary setting. Through this course, students will examine and develop problem-solving and decision-making skills while building communication and task related skills. Students will learn what is necessary to be a good employee and how to be successful in an occupational setting.

Prerequisite: Caseload teacher recommendation
Grades: 9, 10, 11, 12 (22152-Employ)

LR-1161 Employability Skills II — Semester – 1/2 credit

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A)

This class will review the essential concepts learned in Employability Skills I, before providing hands-on job experiences throughout the high school campus and in a variety of work-based settings. Students may be assigned a custodial position, create and deliver products to and/or for others, assist a teacher or school staff, run and operate a recycling program, work in the cafeteria, etc. in an effort to replicate a job setting. Similarly, the students enrolled in this course will have the opportunity to learn and apply the numerous skills needed to become gainfully employed in the future. Students will have access to and be responsible for completing at least 2 different jobs on campus throughout the semester. Additionally, students will participate in ongoing job evaluations, effectively utilize equipment, complete work within a deadline, etc.

Prerequisite: Successful completion of Employability Skills I/ or Transition Coordinator approval/Caseload Teacher approval
Grades: 10, 11, 12 (22152-Employ)

LR-1171 Work-Site Based Education — Semester - 1/2 credit

Work Based Education students receive on-the-job work experience and credit. A minimum of 5-15 hours per week is required (depending on credit received) as well as a successful evaluation by the student, employer/supervisor. Areas of evaluation include: attendance, attitude, personal appearance, and work performance, etc. Students must work the entire semester in order to receive credit. The work site must be approved by the vocational consultant and credit received is predetermined according to work training agreements.

Prerequisite: Employability skills I and II and teacher referral form required
Grades: 11, 12 (08005-Fit)

Waterford Durant High School
Crary Campus

Kristen Woods-Helms, Principal
501 N. Cass Lake Road
Waterford, MI 48328
248-674-3145

Waterford Durant High School serves as the third high school in Waterford. Our primary mission is to provide a credit recovery option for students who have fallen significantly behind in credits or who prefer a smaller high school setting. The total school enrollment is approximately 225 students per term. This is not an adult education program. Students are between the ages of 15 and 19 and are in at least their second year of high school.

At Durant, we promote student success through smaller class sizes and an individualized approach to teaching and learning. Teachers identify student strengths and weaknesses and the teaching methods they use are often modified to meet individual learning needs. Our teachers provide a supportive and positive environment through one on one instruction and frequent reinforcement. In addition to academic learning, we strive to instill in students a positive attitude and the interpersonal skills needed to become productive students. The curriculum offered at Durant is identical to the curriculum offered at both Kettering and Mott High Schools. While some elective course offerings are unique to Durant, the core graduation requirements of both the State of Michigan and the Waterford School District are identical at all three Waterford High Schools. Durant High School students who fulfill the Waterford School District graduation requirements earn a Durant High School diploma.

Features of Durant High School include the following unique characteristics:

- Four ten-week terms in each school year. Credit is awarded at the end of each term.
- Students register for five classes each term. Each class meets every day at the same time. Students may earn up to 2.25 credits per term.
- Students can earn nine credits per year and additional opportunities do exist for students to earn additional credits through online offerings, community service, and work experience.
- Weekly Seminars on Thursday afternoons provide students the opportunity to get additional help from teachers to complete missing work and to make up tests and quizzes.
- Technical education and career preparation at the Oakland Schools Technical Campus.
- Bus transportation to and from school.

At Durant, we:

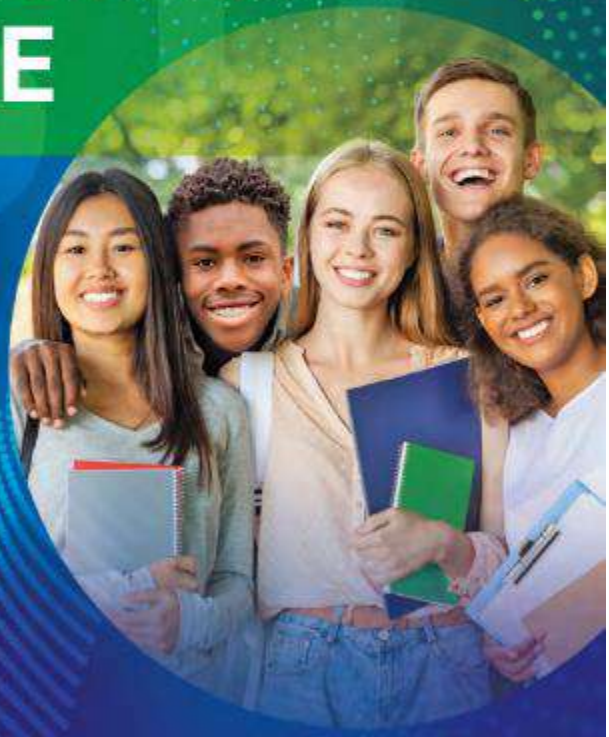
- Emphasize dignity and respect for all persons.
- Encourage students to do their best.
- Specialize in meeting individual student learning and credit recovery needs.
- Extend privileges based on student success.

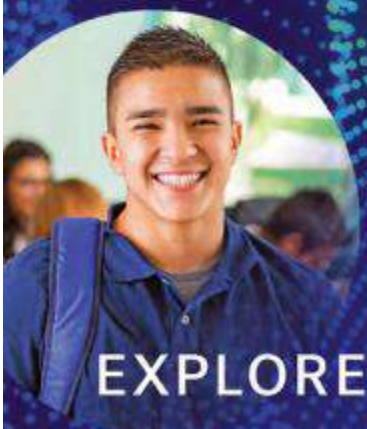
Students who graduate from Durant have the same opportunities as all other graduates. Many of our students will continue their education at a two or four-year college or technical school. Others are fully qualified to enter the work force or to enlist in the armed forces. Scholarships are available to Durant students through local colleges and associations.

Students interested in attending Durant High School should contact their counselor at their current high school. We do offer tours to prospective students and we encourage you to ask questions before applying. Spaces are limited each term, so if you are interested, we recommend you contact your counselor at your earliest convenience. Waterford Durant High School is currently open to Waterford School District residents only.

OaklandSchools
TECHNICAL CAMPUSES

OSTC PROGRAM GUIDE





EXPLORE. EXPERIENCE. EXCEL.

2023-2024
OSTCONLINE.COM

OSTC PROGRAM GUIDE

AGRISCIENCE AND ENVIRONMENTAL TECHNOLOGIES

AVAILABLE AT NW, SW CAMPUSES

- Work alongside professionals in hydroponics, veterinary science, sustainable agriculture, environmental engineering and conservation
- Conduct dynamic hands-on activities and experiments in animal, plant and environmental sciences
- Use advanced technology to develop ethical and viable solutions to real-world environmental problems

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | Certifications | National Competitions

Be college and career ready!
Work individually and in teams to develop the expertise, confidence and skills for today's top careers.

AUTOMOTIVE TECHNOLOGY

AVAILABLE AT ALL CAMPUSES

- Diagnose, repair and maintain automobiles from basic through advanced automotive systems
- Operate professional diagnostic and repair equipment
- Work alongside master technicians in a rapidly changing industry

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | Certifications | Internships

COLLISION REPAIR AND REFINISHING

AVAILABLE AT ALL CAMPUSES

- Repair, restore and refinish vehicles to showroom condition
- Use the same advanced painting, welding and repair equipment as automotive professionals
- Create custom modifications using artistic design techniques

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | Certifications | Internships

Fund your future!
Use your career tech experience to earn an above-average wage, pay for advanced training and earn money for college.

This program has an **Oakland Technical Early College** option with an additional application required.

OSTC OaklandSchools TECHNICAL CAMPUSES

COMPUTER PROGRAMMING

AVAILABLE AT ALL CAMPUSES

- Write code to power the modern world from game design to mobile applications to Intelligent Transport Systems
- Express your creativity and unlock the solutions to complex problems through the universal language of computers
- Program in advanced languages such as Java, HTML5 and CSS3

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | ***Certifications*** | ***Apprenticeships***

This program has an **Oakland Technical Early College** option with an additional application required.

In partnership with **Lawrence Technological University**, OSTC students in the Computer Programming program that have met the admission criteria, have the assurance of admission to the College of Engineering which includes a four-year partnership scholarship.

CONSTRUCTION TECHNOLOGY

AVAILABLE AT NE, NW, SE CAMPUSES

- Build and maintain residential and commercial construction projects
- Operate power tools and heavy equipment for demolition and construction
- Read blueprints for rough and finished carpentry, masonry, electrical and plumbing

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | ***Certifications*** | ***Apprenticeships***

Meet Michigan high school graduation requirements!

Gain a competitive advantage by acquiring both technical skills and required academic credits.

COSMETOLOGY

REGIONAL PROGRAM AVAILABLE AT NE CAMPUS

- Work alongside professionals in a full-service, interactive salon and spa
- Use advanced salon techniques to provide a full range of hair, nail and skincare services
- Create artistic designs using the latest technology, trends and brand name products

CAREER FOCUS: Prepared for state licensure, further education and employment

State Licensure | ***College Credit*** | ***Competitions***

NE = Northeast Campus, NW = Northwest Campus,
SE = Southeast Campus, SW = Southwest Campus

CRIMINAL JUSTICE

REGIONAL PROGRAM AVAILABLE AT SE CAMPUS

- Perform law enforcement operations such as specialized SWAT strategies, forensic investigative techniques to process crime scenes and apply counter-terrorism tactics
- Work with certified law enforcement and homeland security professionals to keep the community safe
- Examine the critical roles of corrections, rehabilitation and probation in the criminal justice system

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | ***Certifications*** | ***Internships***

Expand your options!
Merge your robust academic education and career tech experience to gain a powerful competitive advantage in today's new economy.

CULINARY ARTS/HOSPITALITY

AVAILABLE AT ALL CAMPUSES

- Cook alongside professional chefs to create amazing gourmet cuisine in a fast-paced environment
- Be a key part of the team that operates a restaurant, prepares regional/ international cuisines and delivers unique dining experiences
- Craft and present delicious, gourmet creations while preparing for competitions and events

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | ***Certifications*** | ***Internships***

CYBERSECURITY NETWORKING

PROGRAM AVAILABLE AT SE, SW CAMPUSES

- Practice cybersecurity response measures through simulated hacking environments focused on looking for weaknesses and vulnerabilities in systems
- Focus on developing sophisticated counter cybersecurity measures aimed at combating technical online threats and hazards that are capable of disrupting and destroying essential services and systems
- Learn how to design, install and troubleshoot computer network systems

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | ***Certifications*** | ***Internships***

Learn from industry experts!
Connect with experienced and qualified instructors to acquire technical and academic skills for high-demand careers.

This program has an **Oakland Technical Early College** option with an additional application required.

EXPLORE. EXPERIENCE. EXCEL.

ENERGY-ELECTRICAL TECHNOLOGIES

AVAILABLE AT NW, SE CAMPUSES

- Wire and energize residential and commercial projects
- Work alongside professionals to power and maintain a secure and reliable electrical grid
- Conduct hands-on activities with renewable energies while working in an outdoor environment

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | Certifications | Internships

ENGINEERING, ROBOTICS & MECHATRONICS

AVAILABLE AT ALL CAMPUSES

- Invent, revolutionize, build and creatively solve the needs and demands of a technologically advancing world
- Design and build powerful robotic, hydraulic, pneumatic, electrical, electronic and mechanical systems
- Creatively solve complex engineering and design challenges using advanced CAD/CAM and CNC technologies

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | Certifications | Apprenticeships

Look forward to school!

Make the most of your high school experience by discovering what you're passionate about.

This program has an **Oakland Technical Early College** option with an additional application required.

In partnership with **Lawrence Technological University**, OSTC students in the Engineering, Robotics & Mechatronics program that have met the admission criteria, have the assurance of admission to the College of Engineering which includes a four-year partnership scholarship.

ENTREPRENEURSHIP & ADVANCED MARKETING

AVAILABLE AT ALL CAMPUSES

- Discover your inner-executive, become a marketing guru and learn how to "wow" your customers
- Create eye-catching advertisements, develop social media and run special events to make an impact
- Be the boss, work for yourself, run your own business

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | Certifications | Internships

This program has an **Oakland Technical Early College** option with an additional application required.

GRAPHIC AND COMMUNICATION DESIGN

AVAILABLE AT NW, SE, SW CAMPUSES

- Create in a world where imagination becomes reality
- Design and create dynamic brand identifications, products, animations and digital media
- Create a personal portfolio showcasing your ideas and talents

CAREER FOCUS: Prepared for further education and advanced certifications

College Credit | Certifications | Scholarships

This program has an **Oakland Technical Early College** option with an additional application required.

HEALTH SCIENCES

AVAILABLE AT ALL CAMPUSES

- Make a difference by providing quality care alongside experts in many healthcare professions
- Apply health care skills in a variety of clinical environments
- Develop a professional work ethic and the ability to provide compassionate patient care

CAREER FOCUS: Prepared for licensure, further education, advanced certifications and employment

Clinicals | College Credit | Certifications

Succeed!

Capitalize on your talents and abilities by forming a career pathway based on your unique interests.

In partnership with **Arizona College of Nursing®**, OSTC students in the Health Sciences program that have met the admission criteria, have the assurance of admission to the Nursing Program.

MACHINING

REGIONAL PROGRAM AVAILABLE AT NE CAMPUS

- Use advanced equipment and innovative techniques to create tons of cool stuff
- Invent, design and build high-tech precision parts and tools used worldwide
- Program and operate industrial CNC machines to create products from engineering blueprints and specifications

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | Certifications | Apprenticeships

This program has an **Oakland Technical Early College** option with an additional application required.

MEDIUM/HEAVY TRUCK AND EQUIPMENT

REGIONAL PROGRAM AVAILABLE AT SW CAMPUS

- Repair and maintain heavy equipment, medium-duty vehicles and semi-trucks
- Operate the same advanced diagnostic and repair equipment as professional technicians
- Deliver quality customer service and repair solutions for equipment owners

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | ***Certifications*** | ***Internships***

Experience is everything!

Connect to a dynamic, engaging and collegiate environment where you are encouraged to succeed as a professional.

WELDING

AVAILABLE AT NE, SE, SW CAMPUSES

- Control fire, electricity and heat to design, dismantle and fabricate a wide range of products
- Use advanced equipment and techniques to join, cut, bend and manipulate metal
- Develop the skill, confidence, work ethic and stamina necessary for a high-paying career anywhere in the world

CAREER FOCUS: Prepared for further education, advanced certifications and employment

College Credit | ***Certifications*** | ***Internships***

This program has an **Oakland Technical Early College** option with an additional application required.

OSTCONLINE.COM

NE = Northeast Campus, NW = Northwest Campus,
SE = Southeast Campus, SW = Southwest Campus

OAKLAND TECHNICAL EARLY COLLEGE

Oakland County Public School Districts + OSTC OaklandSchools TECHNICAL CAMPUSES + OAKLAND COMMUNITY COLLEGE = degree!

Oakland Technical Early College offers students the opportunity to earn an associate degree related to their technical program! In 11th and 12th grades, students take college courses along with their high school and OSTC coursework. Students attend Oakland Community College full-time during an added 13th year potentially earning both their associate degree and high school diploma.

- **NO COST related to college tuition, textbooks, and lab fees**
- **Gain a competitive advantage in technical fields**
- **Earn advanced skills leading to high demand and high paying careers**

For more information and to complete the additional application required for Oakland Technical Early College, visit OSTConline.com

OSTC OaklandSchools TECHNICAL CAMPUSES

The campuses provide practical career technical education to high school students from Oakland County's 28 public school districts, public academies, private learning institutions and home schools. Enrolled students spend part of their day studying at their home district and the other part actively involved in one of several career clusters.

OSTC OaklandSchools Northeast Campus
1371 N. Perry Street
Pontiac, MI 48340
248.451.2700

OSTC OaklandSchools Southeast Campus
5055 Delemere Street
Royal Oak, MI 48073
248.288.4020

OSTC OaklandSchools Northwest Campus
8211 Big Lake Road
Clarkston, MI 48346
248.922.5800

OSTC OaklandSchools Southwest Campus
1000 Beck Road
Wixom, MI 48393
248.668.5600

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OSTCONLINE.COM

UPDATED AUGUST 2022

WATERFORD SCHOOL DISTRICT
NONDISCRIMINATION ASSURANCE

The Waterford Board of Education will comply with all federal laws and regulations prohibiting discrimination and with all requirements and regulations of the U. S. Department of Education. No person on the basis of race, color, religion, national origin or ancestry, age, sex, disability, genetic information, height and weight, or marital status shall be discriminated against, excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination in any program, activity, or event.

Inquiries related to Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act, and Title IX of the Education Amendments of 1973 should be directed to the appropriate compliance officer.

Title IX of the Education Amendments of 1973

Inquiries Regarding Personnel:

Executive Director of Human Resources
Waterford School District
501 N. Cass Lake Road
Waterford, Michigan 48328
Phone (248) 682-7800

Inquiries Regarding Programs/Courses/Students-
Elementary and Middle Schools:

Director of K-8 Instruction
Waterford School District
501 N. Cass Lake Road
Waterford, Michigan 48328
Phone (248) 682-7800

Inquiries Regarding Programs/Courses/Students-
High School:

Director of 9-12 Instruction
Waterford School District
501 N. Cass Lake Road
Waterford, Michigan 48328
Phone (248) 682-7800

Title VI of the Civil Rights Act of 1964

Executive Director of Human Resources
Waterford School District
501 N. Cass Lake Road
Waterford, Michigan 48328
Phone (248) 682-7800

Title II of Americans with Disabilities Act &
Section 504 of the Rehabilitation Act of 1973

Executive Director of Student Support Services
Waterford School District
501 N. Cass Lake Road
Waterford, Michigan 48328
Phone (248) 682-3242

GRIEVANCE PROCEDURES FOR NONDISCRIMINATION:

Section I
Any person who believes that they have been discriminated against or denied equal opportunity or access to programs or services may file a complaint, which shall be referred to as a grievance, with the District's Civil Rights Coordinator:

Executive Director of Human Resources
Waterford School District
501 N. Cass Lake Road
Waterford, MI 48328
248-682-7800

The individual may also, at any time, contact the U. S. Department of Education, Office of Civil Rights, 600 Superior Avenue, Room 750, Cleveland, Ohio 44114-2611.

Section II
The person who believes they have a valid basis for grievance shall discuss the grievance informally and on a verbal basis with the District's Civil Rights Coordinator, who shall in turn investigate the complaint and reply with an answer to the complainant. They may initiate formal procedures according to the following steps:

Step 1
A written statement of the grievance signed by the complainant shall be submitted to the District's Civil Rights Coordinator within five (5) business days of receipt of answers to the informal complaint. The Coordinator shall further investigate the matters of grievance and reply in writing to the complainant within five (5) business days.

Step 2
If the complainant wishes to appeal the decision of the District's Civil Rights Coordinator, s/he may submit a signed statement of appeal to the Superintendent of Schools within five (5) business days after receipt of the Coordinator's response. The Superintendent shall meet with all parties involved, formulate a conclusion and respond in writing to the complainant within ten (10) business days.

Step 3
If the complainant remains unsatisfied, they may appeal through a signed written statement to the Board of Education within five (5) business days of their receipt of the Superintendent's response in step two. In an attempt to resolve the grievance, the Board of Education shall meet with the concerned parties and their representative within twenty (20) business days of the receipt of such an appeal. A copy of the Board's disposition of the appeal shall be sent to each concerned party within ten (10) business days.