Waterford School District

Waterford High School

2020-2021

Course Catalog

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 Administration
Debra Cooper, Principal
Nick Gregory, Assistant Principal
Shelly Werthman, Assistant Principal
Allison Sartorius, Athletic Director

Waterford Mott Administration
Jason Riggs, Principal
Christina Harding, Assistant Principal
Kevin Kokoszka, Assistant Principal
Allison Sartorius, Athletic Director

Waterford Durant High School Administration
Craig Blomquist, Principal

DISTRICT VISION:

Inspire, educate, and empower our students for their future!

Mr. Scott Lindberg, Superintendent

Lisa Eldredge, Assistant Superintendent of Teaching & Learning

WATERFORD KETTERING HIGH SCHOOL
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Ru-Z: Paul Pietrofesa (F.E.S.)

Kim Wasilk, Intervention Counselor

2020-2021 Waterford High Schools Course Catalog is on the Waterford School District Website: *www.waterford.k12.mi.us*

WATERFORD DURANT HIGH SCHOOL
CRARY CAMPUS
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Counselor
Linda Eland

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CAREER PATHWAYS & COURSE NAMES	COURSE NUMBER	# OF CREDITS	GRADES	PAGE #
Waterford STEM AC Project Development:				**15**
STEM Algebra I	MA-1015	1 credit/full year	9	37
STEM Geometry	MA-1025	1 credit/full year	10	37
STEM Algebra II	MA-1031	1 credit/full year	11	37
STEM Technical Mathematics	MA-1091	1 credit/full year	11, 12	38
STEM Earth Science	SC-1005	1 credit/full year	9, 10	41
STEM Biology	SC-1015	1 credit/full year	10	42
STEM Physics	SC-1031	1 credit/full year	11,12	42
STEM Research and Design	SC-1091	1 credit/full year	11, 12	45
STEM AC Project Development	AL-1001	1 credit/full year	11, 12	52
Architecture and Construction:				
Architectural Computer Aided Drafting & Design (CADD)	EM-1015	1 credit/full year	9, 10, 11, 12	15
Architectural Computer Aided Drafting & Design (CADD) 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
Drawing I	PV-1031	1/2 credit/semester	9, 10, 11, 12	17
Drawing II	PV-1041	1/2 credit/semester	9, 10, 11, 12	17
Drawing III	PV-1051	1/2 credit/semester	10, 11, 12	17
Painting I	PV-1061	1/2 credit/semester	9, 10, 11, 12	17
Painting II	PV-1071	1/2 credit/semester	10, 11, 12	18
Commercial Art I	PV-1081	1/2 credit/semester	9, 10, 11, 12	18
Commercial Art II	PV-1091	1/2 credit/semester	10, 11, 12	18
Digital Photography I	PV-1101	1/2 credit/semester	10, 11, 12	18
Digital Photography II	PV-1102	1/2 credit/semester	10, 11, 12	18
Jewelry I	PV-1121	1/2 credit/semester	10, 11, 12	19
Jewelry II	PV-1131	1/2 credit/semester	10, 11, 12	19
Theatre Arts I – Introduction to Theatre	PV-1151	1/2 credit/semester	9, 10, 11, 12	19
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	20
AP 3-D Art and Design	PV-3471	1 credit/full year	11, 12	20
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
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 Audition required	21
Chamber Singers (Madrigal Ensemble)	PV-1301	1/2 credit/semester or 1 credit/full year	10, 11, 12 (9th audition only)	21
Study of Jazz	PV-1311	1 credit/full year	10, 11, 12 (9th possible exceptions)	22
History of American Pop/Rock Music I	PV-1321	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
Concert Band	PV-1351	1 credit/full year	9, 10, 11, 12	23
Advanced Concert Band	PV-1361	1 credit/full year	9, 10, 11, 12	23
Advanced Jazz Band	PV-1391	1/2 credit/full year		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:				
History of American Pop/Rock Music II	PV-1521	1/2 credit/semester	9, 10, 11, 12	23
Guitar Ensemble	PV-1551	1/2 credit/semester	9, 10, 11, 12	23
Honors Concert Band	PV-2351	1 credit/full year	9, 10, 11, 12	23
Honors Jazz Band	PV-2391	1/2 credit/full year		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
Advanced IT Topics	BT-1191	1/2 credit/semester	10, 11, 12	28
Web Design I	BT-1201	1/2 credit/semester	10, 11, 12	28
Web Design II	BT-1211	1/2 credit/semester	9, 10, 11, 12	28
Networking I	BT-1221	1/2 credit/semester	10, 11, 12	28
Networking II	BT-1231	1/2 credit/semester	10, 11, 12	29
Mobile App Programming	BT-1251	1/2 credit/semester	9, 10, 11, 12	29
Advanced Placement Computer Science	BT-1391	1 credit/full year	11, 12	29
Advanced Placement Computer Science Principles	BT-3201	1 credit/full year	10, 11, 12	29
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	30
Advanced Woodworking	EM-1061	1 credits/full year	10, 11, 12	30
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/Child Development	HU-1011	1/2 credit/semester	9, 10, 11, 12	31
Housing and Design	HU-1021	1/2 credit/semester	9, 10, 11, 12	31
Human Relationships	HU-1031	1/2 credit/semester	9, 10, 11, 12	31
Life Management	HU-1041	1/2 credit/semester	10, 11, 12	31
Personal Financial Management	HU-1051	1/2 credit/semester	11, 12	31
Sexuality Education	HU-1061	1/2 credit/semester	11, 12	32
Careers with Children	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	33
Language Arts II	LA-1011	1 credit/full year	10	33
Language Arts III	LA-1021	1 credit/full year	11	33
Language Arts IV	LA-1031	1 credit/full year	12	33

CAREER PATHWAYS & COURSE NAMES	COURSE NUMBER	# OF CREDITS	GRADES	PAGE #
Language Arts:				
Writing and Film	LA-1041	1/2 credit/semester	11, 12	33
Humanities	LA-1061	1/2 credit/semester	11, 12	33
Creative Writing	LA-1071	1/2 credit/semester	11, 12	34
College Prep Composition	LA-1081	1/2 credit/semester	11, 12	34
Journalism	LA-1091	1 credit/full year	9, 10, 11, 12	34
Intro to Journalistic Writing/Media Literacy	LA-1105	1/2 credit/semester or 1 credit/full 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	35
ESOL Academic Assistance	LA-1161	1/2 credit/semester	9, 10, 11, 12	35
ESOL 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	36
Advanced Placement English Language & Composition	LA-3081	1 credit/full year	11, 12	36
Advanced Placement English Literature & Composition	LA-3091	1 credit/full year	11, 12	36
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	37
Geometry	MA-1021	1 credit/full year	9, 10, 11, 12	37
STEM Geometry	MA-1025	1 credit/full year	10	37
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	38
Intermediate Algebra II Year 2	MA-1051	1 credit/full year	11, 12	38
College Mathematics	MA-1081	1 credit/full year	12	38
PreCalculus	MA-1091	1 credit/full year	11, 12	38
STEM Technical Mathematics	MA-1091	1 credit/full year	11, 12	38
Calculus	MA-1095	1 credit/full year	12	39
Statistics	MA-1111	1 credit/full year	11,12	39
Advanced Placement Statistics	MA-3061	1 credit/full year	11, 12	39
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	40
Health	PE-1011	1/2 credit/semester	9, 10, 11, 12	40
Strength Fitness	PE-1021	1/2 credit/semester	9, 10, 11, 12	40
Individual Lifetime Sports	PE-1031	1/2 credit/semester	9, 10, 11, 12	40
Team Sports	PE-1041	1/2 credit/semester	9, 10, 11, 12	40
Advanced Weight Training	PE-1051	1/2 credit/semester	10, 11, 12	40
Dance Foundations and Fitness	PE-1061	1/2 credit/semester		41
Movement, Mindfulness, and Stress Management	PE-1111	1/2 credit/semester		41
Advanced Conditioning for the Varsity Athlete	PE-1101	1/2 credit/semester	9, 10, 11, 12	41
Science:				
Earth Science	SC-1001	1 credit/full year	9	41
STEM Earth Science	SC-1005	1 credit/full year	9, 10	41
Biology	SC-1011	1 credit/full year	9, 10	42
STEM Biology	SC-1015	1 credit/full year	10	42
Chemistry	SC-1021	1 credit/full year	10, 11, 12	42
Physics	SC-1031	1 credit/full year	10, 11, 12	42
STEM Physics	SC-1031	1 credit/full year	11, 12	42
Anatomy/Physiology	SC-1041	1 credit/full year	10, 11, 12	43
Crime Scene Investigation (Forensic Science)	SC-1051	1/2 credit/semester	12	43
Astronomy – The Solar System	SC-1071	1/2 credit/semester	11, 12	43
Astronomy – Milky Way & Beyond	SC-1071	1/2 credit/semester	11, 12	43
Honors Biology	SC-2011	1 credit/full year	9, 10	43
Honors Chemistry	SC-2021	1 credit/full year	10, 11, 12	44
Honors Physics	SC-2031	1 credit/full year	10, 11, 12	44
Advanced Placement Chemistry	SC-3021	1 credit/full year	11, 12	44
Advanced Placement Physics	SC-3031	1 credit/full year	11, 12	44

CAREER PATHWAYS & COURSE NAMES	COURSE NUMBER	# OF CREDITS	GRADES	PAGE #
Science				
Advanced Placement Biology	SC-3011	1 credit/full year	11, 12	44
Advanced Placement Environmental Science	SC-3061	1 credit/full year	11, 12	45
STEM Research and Design	SC-1091	1 credit/full year	11, 12	45
Science, Technology, Engineering and Mathematics:				
Mechanical Computer Aided Drafting & Design (CADD)		1 credit/full year		
Technologies	EM-1001	1/2 credit/semester	9, 10, 11, 12,	45
Engineering Computer Aided Drafting & Design (CADD)	EM-1011	1 or 2 credit/full year		45
Lab			10, 11, 12	
Engineering with Robotics	EM-1031	1 credit/full year	9, 10, 11, 12	46
Aerospace Engineering-UAV's (Drones)	EM-1181	1/2 credit/semester	10, 11, 12	46
Social Studies:				
United States History	SS-1001	1 credit/full year	9	46
World Studies	SS-1011	1 credit/full year	10	46
Honors United States History	SS-2001	1 credit/full year	9	46
American Civics: Our System of Government	SS-1025	1/2 credit/semester	11	47
American Civics: Our System of Economics	SS-1026	1/2 credit/semester	11	47
Current Issues	SS-1051	1/2 credit/semester	10, 11, 12	47
Street Law	SS-1061	1/2 credit/semester	10, 11, 12	47
Anthropology	SS-1071	1/2 credit/semester	10, 11, 12	47
Sociology	SS-1081	1/2 credit/semester	10, 11, 12	47
Psychology	SS-1041	1 credit/full year	10, 11, 12	48
Anti-Defamation League's "A World of Difference"	SS-1111	1 credit/full year	10, 11, 12	48
Advanced Placement Psychology	SS-3041	1/2 credit/semester or 1 credit/full year	11, 12	48
Advanced Placement Government	SS-3031	1 credit/full year	11, 12	48
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 (with minimum criteria), 11, 12	48
Advanced Placement Economics	SS-3021	1 credit/full year	11, 12	49
AP Human Geography	SS-3051	1 credit/full year	9, 10, 11, 12	49
Student Leadership	SS-1091	1/2 credit/semester	9, 10, 11, 12	49
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	50
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 Careers	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
Alternative Programs:				
Academic Center	AL-1001		9, 10, 11, 12	52
STEM AC Project Development	AL-1001	1 credit/full year	9, 10, 11, 12	52
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
Learning Resource Center:				
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

CAREER PATHWAYS & COURSE NAMES	COURSE NUMBER	# OF CREDITS	GRADES	PAGE #
Learning Resource Center:				
Consumers Math I	LR-1051	1 credit/full year	9, 10, 11, 12	54
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	54
World Studies	LR-1311	1 credit/full year	10	55
American Civics	LR-1321	1 credit/full year	11	55
Biology	LR-1411	1 credit/full year	9, 10, 11, 12	55
Earth Science	LR-1414	1 credit/full year	10, 11, 12	55
Chemistry	LR-1421	1 credit/full year	10, 11, 12	55
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	56
Employability Skills II	LR-1161	1/2 credit/semester	9, 10, 11, 12	56
Work-Site Based Education	LR-1171	1/2 credit/semester	11, 12	57

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. You should carefully plan your course of study to make sure you are prepared for the job or career of your 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; but 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 he/she 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 Waterford School District website at 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.

Carly Stone,
Director of Curriculum, Instruction, and Assessment

ACCESSING XELLO

Xello is a web-based EDP program that gives 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	2021-2024
Total Credits Required to Graduate	24
Language Arts **Required: LA I, LA II, LA III, LA IV*	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: Earth Science, Biology, Chemistry or Physics.*	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 student's needs.

English Language Arts Options

	9th Grade	10th Grade	11th Grade	12th Grade
Path I: Traditional sequence for students to fulfil 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	LA IV or AP Language 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, 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, Pre-Calculus, Statistics	STEM Academy, Pre-Calculus, Calculus, AP Calculus or AP Statistics or Math Elective or Math Related Class. *See list on page 6.
→	Algebra II	STEM Academy, Pre-Calculus, Statistics	STEM Academy, Pre-Calculus, Calculus or AP Calculus, Statistics or AP Statistics	STEM Academy, Pre-Calculus or Calculus, AP Calculus, Statistics or AP or Math Elective 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 student's needs.

Science Options

Option	9th Grade	10th Grade	11th Grade	12th Grade
⇒	STEM Academy, Earth Science	STEM Academy, Biology, Honors Biology	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*

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 U. S. History	World Studies or AP World History	Economics and Government or AP Economics and AP Government	Electives or AP courses as desired
⇒	AP Human Geography	AP World History	AP Economics and AP Government	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 Earth Science (class of 2021 and 2022), Biology and either Chemistry or Physics. Students can earn an additional 1.0 credit must be earned in science prior to graduation by taking a science course or science related courses.

Students can earn science credit through the successful completion of courses in the science department 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

GRADING SCALE

Academic grading scale is as follows:

GRADE	GRADE POINT	*WEIGHTED GRADE			
A	4.0	5.0		P	Pass
A-	3.67	4.67		F	Fail
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			

HIGH SCHOOL TIMETABLE

9th GRADE/FRESHMEN YEAR

- PSAT
- Use a planner each year to stay organized
- NHS Tutors are available to help students
- Get off to a good start – get involved with sports, activities, clubs, and organizations
- Make new friends and wise decisions
- Discuss academic and social goals with your counselor or your family
- Meet with your counselor to review your 4-year EDP (Educational Development Plan)
- Ask your counselor about the NCAA core curriculum if you plan to play college sports

10th GRADE/SOPHOMORE YEAR

- PSAT
- Attend local College Nights
- Oakland Schools Technical Center (OSTC) visitations
- Discuss taking Advanced Placement or Dual Enrollment (classes at community college) classes with your teachers and counselor
- Research Careers/Colleges/Scholarships Online or in the Counseling Office
- Volunteer in your community

11th GRADE/JUNIOR YEAR: A critical year for ACADEMIC SUCCESS!

- Attend local College Nights and visit colleges
- PSAT/NMSQT: Practice SAT, qualifying high scorers for the National Merit Scholarship Program
- Schedule to meet with College Representatives when they visit the High School
- SAT/MME Testing in April (Offered once at school at no cost to the student)
- ACT testing – Register online at www.actstudent.org
- SAT testing – Register online at www.collegeboard.org
- NCAA Clearinghouse - required for college sports. Sign up online at www.eligibilitycenter.com.
- Meet with counselor to discuss graduation requirements
- Meet with Career Center to discuss career and college options

12th GRADE/SENIOR YEAR

- PARENTS: Attend Financial Aid Night in the fall
- Attend local College Nights and visit colleges in October
- Retake SAT/ACT early fall in attempt to increase score
- Start completing college applications in the summer/fall, processed through your counselor
- Write thank you notes to teachers that write letters of recommendation
- Check the Career Resource Room for important information and scholarship deadlines
- Scholarship Applications: go online to www.fastweb.com to locate scholarship information
- Financial Aid – Registration begins Oct 1st. Please go online to www.fafsa.ed.gov for all forms and information.
- Schedule to meet with College Representatives for on-site admissions/information
- Meet with your counselor on a regular basis to ensure you are on track for graduation

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 WorkKeys tests in mathematics and reading, plus additional tests created in Michigan in the areas of mathematics, science, and social studies.

MME testing is currently divided into three parts: a college readiness assessment, the WorkKeys and Michigan mathematics, science and social studies tests. Each new test will be based on the revised High School Content Expectations adopted by the State Board of Education. 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. Freshman and Sophomores are required to take the PSAT 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 tests: Writing, Critical Reading, and Mathematics. The Writing Test includes these components: a 25-minute written essay section and two grammar and usage multiple-choice sections (35 minutes). The Critical Reading test is 70 minutes and involves sentence completions and passage-based reading, and measures extended reasoning, literal comprehension, and vocabulary in context. The Mathematics test is 70 minutes and involves multiple-choice items and student-produced responses. It measures number and operations, Algebra I, Algebra II, functions, geometry, statistics, probability, and data analysis.

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 you are for various college programs, and they serve as placement tests. Take the SAT on a date prior to the date you take your SAT Subject Tests. Pay strict attention to the deadline for taking your SAT Subject Tests. Colleges will not modify their due date.

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 competed 9th grade.

For more information on the Personal Curriculum (PC), or to make a request for a PC, please contact you students' 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 April of their 8th 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 required content sequence. Students are required to take a written examination. In addition to the examination the assessment may include a written test, portfolio, performance demonstration, paper, or project. Students earn credit if they successfully complete subject area content expectations and guidelines.

Procedure for Assessment for Credit

1. The student will fill out the Assessment for Credit form following the prerequisite course sequence, if one is required, for the content area.
2. Students will need to return the form to the school counselor by May 8, 2020. Late requests may be turned away.
3. The counselor will advise the student on the suitability of taking the assessment. Students will receive a letter outlining the specifics for the assessment location, date and time in June.
4. Students may pick up materials available for the course at their high school bookstore at the end of the school year. Materials must be returned to the bookkeeper at the end of the exam.
5. Written assessments will take place August 3 – August 7, 2020. Specific test dates during the testing window will be set once all applications have been received,
6. Any required performance demonstration will be set up by appointment with the proctor.
7. Once all the assessments are completed, a letter will be sent out regarding the test results prior to HS registration dates in mid-August.
8. Credits earned are not included in the grade point average. Successful students will receive a “P” (pass) for the course and the appropriate credit.
9. All assessments remain the property of the Waterford School District and will not be returned to the student.
10. Assessment for Credit does not replace a failed grade. Successful credit is added to the student’s credits and the initial grade remains on the transcript.

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 May. 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	AP Chemistry
		AP World History	AP Physics
		AP Economics	AP Environmental Science
		AP Psychology	
		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 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- (Formerly known as Co-op) 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. 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

WATERFORD STEM ACADEMY:

For students accepted into the STEM Academy program they will be placed into 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 Earth 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 A. Applications can be found in the counseling office. This advanced 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 (CADD) Technologies (AC, BMMT, E/M&IT, NR&A) Full Year – 1 credit

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.

Prerequisite: None

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

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

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 do 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

ARTS & COMMUNICATION:
ART & TECHNOLOGY

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

This course would be good 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. Open to all grade levels.

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 (AC, E/M&IT) Semester –1/2 credit

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

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

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

Students will create clay sculpture and/or pottery. Glaze and non-glaze surface decoration techniques will 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 (AC, E/M&IT) **Semester – 1/2 credit**

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. May be repeated for credit with instructor's recommendation.

Prerequisite: *Ceramics I and II*

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

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

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 (AC, E/M&IT) **Semester – 1/2 credit**

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 are used to develop work suitable for art scholarship portfolio competitions. It is also recommended for those students who enjoy drawing people.

Prerequisite: *Drawing I*

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

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

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 (AC) **Semester – 1/2 credit**

This course provides experiences with a variety of painting techniques and media, including watercolor, acrylics, or oils. 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 (AC) **Semester – 1/2 credit**

This course provides students with the opportunity to further develop their painting skills. Oil painting medium 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 (AC, E/M&IT) **Semester - 1/2 credit**

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 given.

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

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

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.

Prerequisite: *Commercial Art I*

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

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

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 newspaper.

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

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

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 (AC, E/M&IT) **Semester - 1/2 credit**

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.

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

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

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 based on designing skill, personal growth and technical skill. May be repeated for credit with instructor's recommendation.

Prerequisite: *Jewelry I*

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

PAVA

PV-1151 Theatre Arts I – Introduction to Theatre
(AC, BMMT, E/M&IT, HSer, HSci, NR&A) **Semester – 1/2 credit**

This course is designed as an introductory course, covering the varied components of theatre. Students who take this class have an interest in theatre and wish to explore both the acting and the technical sides of theatre. Students will study the history of theatre, chronological developments and explore potential careers in theatre. Students will also work on basic acting techniques such as voice and movement and improvisational acting. A writing component will have students journaling about their in-class experiences, writing and critiquing outside theatrical productions and completing a research project on theatre history. Successful completion of both *Theatre Arts I* and *Theatre Arts II* can count for the required Language Arts senior elective credit.

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

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

This course is designed for students who wish to hone their acting skills through a more detailed study of the acting craft. Student will learn how to prepare monologues for auditions, perform one or more regional dialects, compose a detailed character analysis, use movement and vocal techniques in character development, write a short dramatic or comedic play using elements of dramatic structure, use journaling for self-reflection and character study, conduct research on a topic related to course study, and perform 8-10 minute scenes with a partner. Students are required to attend at least two (2) WSD plays over the course of the semester. Successful completion of both *Theatre Arts I* and *II* can count for the required Language Arts senior elective credit.

Prerequisite: Successful completion of *Theatre Arts I*

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

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

This course is designed for students who have completed *Theatre Arts I* and *Theatre Arts II*. This is an advanced acting and directing class covering acting in period styles, as well as directing fellow students in scene work. Students will learn how to prepare headshots and resumes for practical auditioning purposes. Students will also complete a research project on a topic related to course study. Students will be required to attend at least two (2) WSD plays over the course of the semester. This class will count for the required Language Arts Senior Elective credit only after successfully completing *Theatre Arts I* and *Theatre Arts II.*
Prerequisite: Successful completion of *Theatre I* and *Theatre II*
Grades: 10, 11, 12 (22999-Misc) PAVA

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

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 principals 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 (AC, E/M&IT, HSer) Full Year - 1 credit

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 principals 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 (AC, E/M&IT, HSer) Full Year - 1 credit

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

ARTS & COMMUNICATION:
MUSIC

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

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 (AC, BMMT, HSer, HSci) Semester - 1/2 credit

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. Keyboard will be provided at school in the lab. Class size is limited to the lab size of 16.

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

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

This course is a group keyboard laboratory class, which continues study from *Piano Keyboard I* class. Course content will include playing scales and arpeggios, sight reading, chording techniques, theory, duet and solo performing. Class size limited to the lab size of 16.

Prerequisite: Prior knowledge from *Piano Keyboard I* class or previous piano keyboard study and permission of the instructor.

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

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

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 (05118-Music) PAVA

Semester - 1/2 credit

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

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 and 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 (AC, HSer) **Full Year – 1 credit**

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-1431Treble Select (AC, Hser) **Full Year – 1 credit**

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 or recommendation from previous choir director) (05111-Vocal) PAVA

Semester – 1/2 credit

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

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 (AC, Hser) Full Year – 1 credit

This music course will address the student's ability to improvise in a jazz context on their primary instrument by improving their understanding of jazz and by helping them 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 accepted.

Prerequisite: Experience on your principal instrument and audition with director

Grades: 10, 11, 12 (possible exceptions for 9th grade) (05117-Music) PAVA

PV-1321 History of American Pop/Rock Music I (AC, Hser) Semester – 1/2 credit

This course will study styles of popular music related to the historical development of music in America. The focus of the course will concentrate on the music, artist, historical background and development of the styles of rock music, country music, jazz and American musical theater from its roots through the 1960s.

This is an academic music class, which does not involve musical performance. Prior knowledge of musical styles is not necessary.

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

PV-1521 History of America Pop/Rock Music II (AC, Hser) Semester – 1/2 credit

This course will study styles of popular music related to the historical development of music in America. The focus of the course will concentrate on the music, artist, historical background and development of the styles of rock music, country music, jazz and American musical theater from 1970s to the present.

This is an academic music class, which does not involve musical performance. 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 (AC, BMMT, HSer, E/M&IT) Semester - 1/2 credit

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 (AC, BMMT, HSer, E/M&IT) Semester - 1/2 credit

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

NOTE: Each member of all band ensembles is expected to practice the music individually in order to be prepared for performances. All students who are enrolled in any Concert Band are strongly encouraged (but not required) to be a part of the marching band. In addition to concerts and Festival, band members take an annual spring trip. Attendance at dress rehearsals and performances outside of class are mandatory for students to receive a passing grade. All students in marching band are required to enroll in a band class.

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

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 in this course 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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1/2 PAVA credit

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 such as guitar and piano).

(05105-Comtemp) PAVA

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

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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

Grades: 9, 10, 11, 12 (05102-Concert) PAVA

PV-2391 Honors Jazz Band (AC, BMMT, E/M&IT, HSci, Hser, NR&A) Full Year –1/2 credit

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 *Advanced Jazz Band* enrollment; students in this class must also e 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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester - 1/2 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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

BT-1001 Accounting I (AC, BMMT, HSci, HSer) Full Year - 1 credit

This course is highly recommended for students who have an interest in our global economy, plan on majoring in business at the college level, or are thinking about owning their own company in the future. It is important to note that business majors on 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 (AC, BMMT, HSci, HSer) Semester - 1/2 credit

This advanced course is designed for students wishing to further their knowledge of accounting for the purpose of 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 (BMMT, HSci, HSer) **Semester - 1/2 credit**

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

BUSINESS, MANAGEMENT, MARKETING & TECHNOLOGY:
BUSINESS, MANAGEMENT & ADMINISTRATION

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

This course focuses on managerial and entrepreneurial skills used in business. It introduces the principles of business management 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 as well as 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
(AC, BMMT, E/M&IT, HSci, HSer, NR&A) **Semester - 1/2 credit**

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

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

(AC, BMMT, E/M&IT, HSer, HSci, NR&A) **Semester – 1/2 credit**

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. Course is part of the Tech Prep Program.

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 (BMMT) Full Year - 1/2 credit

See Work-Based Learning. (12098-MGT)

BT-1121 Sports and Entertainment Marketing (AC, BMMT, HSer) Full Year - 1 credit

This course is designed to introduce students to the growing service industry of Sports and Entertainment. Real life examples and problems are presented in the areas of marketing foundations, economics, selling, promotion, channel management and career development. Students will produce sponsorship and marketing plans for actual sports and entertainment events. 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) and a fundraising sales project to reinforce marketing skills. *Sports and Entertainment Marketing* 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.

Prerequisite: Successful completion of *Marketing I and II*

Grades: 10, 11, 12 (12163-Sports) CTE

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

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: Marketing foundations, economics, selling, promotion, channel management, and career development. 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) and a fundraising sales project to reinforce marketing skills. *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. This class should not be taken in conjunction with *Sports and Entertainment Marketing*.

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) (AC, BMMT, HSci, HSer) Full Year - 1 credit

The *Marketing II* curriculum expands on the business concepts presented in *Marketing I* or *Sports and Entertainment Marketing* and includes practical application through the operation of Mott's Shipyard or Kettering's Captains' Corner. Areas of work and management include: customer relations, marketing information management, 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) and a fundraising sales project to reinforce marketing skills. *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* or *Sports and Entertainment Marketing*

Grades: 10, 11, 12 (12166-Marketing) CTE

BT-1151 Marketing Capstone Experience (Co-op) (HSer) (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.

BUSINESS, MANAGEMENT, MARKETING & TECHNOLOGY: *INFORMATION TECHNOLOGY*

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

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 (BMMT, E/M&IT, HSer, NR&A) Semester - 1/2 credit

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 (BMMT, E/M&IT, HSer, NR&A) Semester - 1/2 credit

Student 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*

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

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

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 (BMMT, E/M&IT, HSer) Semester - 1/2 credit

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 *Wed Design I*

Grades: 9, 10, 11, 12 (10201-Web) CTE, 4th year Math

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

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 (BMMT, E/M&IT) — Semester - 1/2 credit

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 (BMMT, E/M&IT, HSer) — Semester - 1/2 credit

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 (BMMT, E/M&IT, HSer) — Full Year - 1 credit

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 (BMMT, E/M&IT, HSer) — Full Year - 1 credit

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)

MANUFACTURING & INDUSTRIAL TECHNOLOGY:
INDUSTRIAL PRODUCTION TECHNOLOGY

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

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 (BMMT, E/M&IT, HSci) Semester - 1/2 credit

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 (BMMT, E/M&IT, HSci) Full Year - 1 credit

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

HEALTH SCIENCES:

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

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

This course is designed for students who want to become more knowledgeable about the food choices available to them and how these choices can affect their health. Students in this course will analyze their diet, study the role of nutrients and learn how to select and prepare healthy foods.

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

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

This course covers the roles of families, tasks of parenthood, and the issues involved in teen pregnancy. Included are factors to consider in parenting, such as cost, birth defects, parenting techniques and emotional maturity levels. Comprehensive coverage of pregnancy and prenatal development is included along with health precautions and risks associated with prenatal development. Preparing for a baby, labor and delivery, and welcoming home a new baby are topics discussed, along with growth and development of children up to age one.
A class requirement is that students will "parent" an infant simulator for 4 days.

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 (AC, BMMT, E/M&IT) Semester - 1/2 credit

This class deals with the basic elements and principles of design including: color, balance, scale, proportion, fabric coordination, architecture, selection of housing, floor plans and style of furniture. Planning of rooms include floor covering, window treatments, furniture arrangements and color design while matching the students' tastes with the elements of good design. This is a project based class.

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

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

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

This course is designed for students who are interested in learning skills necessary for living away from home. This course will include "basics" including, applying for a job, finding and furnishing a place to live, clothing care and repair, car care and insurance, meal planning and food preparation and banking. (Formally Like Skills)

Grades: 10, 11, 12 CTE

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

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-Banking) CTE, 4th year Math

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 (AC, BMMT, HSci, HSer) Semester - 1/2 credit

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

HUMAN SERVICES:
CHILD AND CUSTODIAL CARE SERVICES

HU-1071 Careers With Children (HSer) Full Year

This full year course provides occupational preparation for employment in childcare or child related occupations. For anyone considering a career in teaching, social work, children's health care, or psychology, this would be an ideal class. Instruction will cover developmental and behavioral expectations for various age groups, preparation of developmentally appropriate materials and activities, health and safety, facility standards and policies, appropriate toys and environments, professionalism, suitable snacks for children, and effective guidance. Students will participate in an off-site licensed childcare program for toddlers and elementary children. Arrangements can also be made for placement with other age groups as well as children with special needs. Taking this class will prepare students for an internship or capstone experience (co-op) placement in the childcare field. This class may be taken for a second year for credit where extensive out-of-classroom experiences will be arranged.
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 the *Parenting/Child Development* course recommended but not required. Students must have complete immunizations, TB test, FIA clearance (State I.D. or driver's license required). An off-site childcare uniform is also required. Incoming 10th grade students must have an approval form signed by *Parenting/Child Development* instructor to enroll in this course.

Grades: 10, 11, 12 (19051-Child)

This class is available to Kettering and Mott students. This class is taught at Kettering High School.

Option A – 2 credits: Taken as a two-hour block, students go off-site twice weekly. CTE

HU-1081 Human Service Occupations Capstone Experience (Co-op) (2 hr) Full Year - 2 cedits (HSci, HSer) (19998-Human)

See Work-Based Learning.

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

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, the MME exam, and for possible AP course work.

Grades: 9

NCAA (01001-9th)

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

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 the MME exam, and for possible AP coursework.

Grades: 10

NCAA (01002-9th - 10th)

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

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 the MME exam, and for possible AP Coursework.

Grade: 11

NCAA (01003-10th)

LA-1031 Language Arts IV (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSer, NR&A) Semester - 1/2 credit

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 (AC, BMMT, E/M&IT, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, Hser, NR&A) Semester – 1/2 credit

This course is designed for the student who is interested in creating his/her 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 (AC, BMMT, E/M&IT, Hser, NR&A) Semester – 1/2 credit

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 given 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 (AC, BMMT, E/M&IT, Hser, NR&A) Full Year – 1 credit

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

LA 1105 Introduction to Journalistic Writing/Media Literacy (AC, BMMT) Full Year – 1 credit Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, NR&A) Full Year – 1 credit

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 35mm and 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. This class serves as elective credit.

Prerequisite: Application and teacher recommendation is required.

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

LA-1161 ESOL Academic Assistance (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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. 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 ESOL English (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

Students who speak a language other than English will work to increase fluency in all areas of English Language Arts including listening, speaking, reading and writing. Instruction will integrate all areas of communication. Students will gain proficiency in Basic Interpersonal Communication Skills in English preparing them to enter mainstream English literacy and composition classes. 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) (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Semester - 1/2 credit

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 (PLAN, 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 (AC, BMMT, HSer, E/M&IT) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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)

MATHEMATICS

MA-1001 Math Lab (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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-1025 STEM Geometry (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 (02072- Geo)
NCAA

MA-1021 Geometry (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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, 11, 12 (02072- Geo)
NCAA

MA-1031 Algebra II (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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(AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

MA-1051 Intermediate Algebra II Year 2 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 A*lgebra II.* This is a course designed for students who need *Algebra II* credit for graduation. Note: Credit for *Algebra II* will not be given until student successfully completes both years.

Prerequisite: Successful completion of *years I and II equate to one full year of NCAA credit*

Grades: 11, 12 (02056-Alg)

NCAA for Intermediate Algebra II, year 2

MA-1081 College Mathematics

(AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 will also be studied.

Prerequisite: Successful completion of *Algebra I, Geometry,* and *Algebra II* AND teacher recommendation

Grades: 11, 12 (02056-Alg)
NCAA

MA-1091 STEM Technical Mathematics (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 and together with the content standards.

Prerequisites: Successful completion of *Algebra I, Geometry, and Algebra II.*

Grades: 11, 12

MA-1095 Calculus (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course is intended for college bound students who have successfully completed Precalculus, 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 *Precalculus* AND teacher recommendation

Grades: 11, 12 (02121-Alg)
NCAA

MA-1111 Statistics (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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. In the second semester, students will use probability distributions to build the idea of a sampling distribution as a measure of bias and variability in an estimate, then 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: 11, 12 (02201)
NCAA

MA-3061 AP Statistics (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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: 11, 12 (02203-AP)
NCAA

MA-3091 AP Calculus (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 *Precalculus* or *Calculus with teacher recommendation.*

Grade: 12 (02124-AP)
NCAA

PE-1001 Personal Fitness (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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.

Prerequisite:

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

PE-1111 Movement, Mindfulness, and Stress Management (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

This challenging course is designed strictly for those varsity male and/or female 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 Earth Science (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course fulfills the course requirement for ninth-grade students. 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 study the following topics: Space Systems, History of the Earth, Earth's Systems, Weather and Climate, and Human Sustainability.

Grades: 9 (03001)
NCAA

SC-1005 STEM Earth Science (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course is a project-based science class emphasizing the function of the earth's systems. Students will study (nuclear fusion to radiation), Big Band Theory, star cycle, orbits, history of Earth, Earth's systems, Earth's interior, weather and climate, and human sustainability. These concepts will be demonstrated through the use of models, investigations, real-world experiments, and data analysis.

Grades: 9, 10 (03001)
NCAA

SC-1011 Biology (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course fulfills the Biology graduation requirements. 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 and Evolution.

Grades 9, 10
NCAA (03051-Bio)

SC-1015 STEM Biology (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course fulfills the course requirements for ninth and tenth grade students. 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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course fulfills the Chemistry graduation requirements (Chemistry or Physics is required for graduation). 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 study the following topics: Structure and Properties of Matter, Chemical Reactions, 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 (03101-Chem)
NCAA

SC-1031 Physics (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course fulfills the Chemistry graduation requirements (Chemistry or Physics is required for graduation). 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. Student 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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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* (*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: 11, 12 (03151-Physics)
NCAA

SC-1041 Anatomy/Physiology (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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)

(AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 and 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 both *Physical Science* and *Biology* and are interested in several areas of science. Students should be prepared for extensive hands on activities and group work.

Grades: 11, 12 (03210-Science)
Kettering Campus
NCAA

SC-1071 Astronomy – The Solar System (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 treats many standard topics including planets, moons, asteroids and comets.

Prerequisite: Successful completion of *Chemistry or Physics*

Grades: 11, 12 (03004-Chem)
NCAA

SC-1071 Astronomy, Milky Way & Beyond (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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 to 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.

Prerequisite: Successful completion of *Chemistry or Physics*

Grades: 11, 12 (03004-Chem)
NCAA

SC-2011 Honors Biology (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 fulfills the Biology graduation requirement. This course is designed to align with the Next Generation Science Standards and prepare students for Advances 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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 fulfills the Chemistry graduation requirement (Chemistry or Physics is required for graduation). This course is designed to align with the Nest Generation Science Standards and prepare 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, 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
NCAA (03101-Chem)

SC-2031 Honors Physics (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 fulfills the Physica graduation requirement (Chemistry or Physics is required for graduation). This course is designed to align with the Nest Generation Science Standards and prepare 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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This class is designed for science students willing to do advanced work and to prepare for the Advanced Placement Test. The level of material and instruction is equivalent to a first year Biology course in college.

Prerequisite: Successful completion of *Biology* or *Honors Biology*

Grades: 11, 12 (03056-AP)
NCAA

SC-3021 AP Chemistry (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course is designed to let science students do rigorous work and prepare for the Advanced Placement Examination in Chemistry. The level of material and instruction is equivalent to first year chemistry in college. 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 *Math Analysis* or *Calculus*

Grades: 11, 12 (03106-AP)
NCAA

SC-3031 AP Physics (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course is designed to let science students do rigorous work and prepare for the Advanced Placement examination in Physics. The level of material and instruction is equivalent to first year college Physics. 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 *Math Analysis* or *Calculus (*recommended)

Grade: 11, 12 (03156-AP)
NCAA

SC-3061 AP Environmental Science

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

This course is designed for students willing to do advanced work to prepare for the Advanced Placement Examination in Environmental Science. The goal of the *AP Environmental Science* course is to provide students with the scientific principles and concepts to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. The level of material and instruction is equivalent to a first year environmental science course in college.

Prerequisite: One year of *Biology* and one year of *Chemistry* or *Physics*. This course can be taken concurrently with *Chemistry* or *Physics*.

Grades: 11, 12 (03207-AP)
NCAA

SC-1091 STEM Research and Design (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 and 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 and beyond. STEM Research and Design is a course for ambitious, motivated students who aim to follow their passion, and hone their skills in design, implementation, trouble shooting, and communication.

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 (CADD) Technologies (AC, BMMT, E/M&IT, NR&A) Full Year – 1 credit

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.

*Prerequisite: None

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

EM-1011 Engineering Computer Aided Drafting & Design (CADD) Lab (AC, BMMT, E/M&IT, NR&A) Full Year, 1 or 2 Periods – 1 or 2 credits

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 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 (E/M&IT, NR&A — Full Year – 1 credit

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. This course meets 4th year math. criteria.

*Prerequisite: None

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

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

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. This course meets 4th year math criteria.

*Prerequisite: Mechanical CADD

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

SOCIAL STUDIES

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

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)

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

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)

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

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.

NCAA (04103-Modern)

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

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

In this semester, the course examines the Constitution with 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 Systems of Economics — Semester - 1/2 credit

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

In this semester course, students' will develop of 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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) — Semester - 1/2 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) — Semester - 1/2 credit

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 (AC) — Semester - 1/2 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) — Semester - 1/2 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 Credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 Credit or Semester - 1/2 credit

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
(AC, BMMT, E/M&IT, HSci, HSer, NR&A) Semester - 1/2 credit

Advanced 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.
Prerequisite: None

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

NCAA

SS-3011 AP World History (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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
(AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 freshman American History.

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

SS-3021 AP Economics **Full Year - 1 credit or**
(AC, BMMT, E/M&IT, HSci, HSer, NR&A) **Semester - 1/2 credit**

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, economic growth, and international economics.

Prerequisite: 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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) **Full Year - 1 credit**

AP Human Geography is an introductory 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. Student's 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.)

WORLD LANGUAGES

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

This course introduces the students to French, the language as well as the culture of those who speak it. From the first day, students will communicate in simple French, developing conversational skills in real-life situations. Through the course, students will increase their language abilities while deepening their understanding of French culture.

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

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

In second year French, a complete review of first-year ideas is followed by a more intermediate level development of language skills and cultural knowledge. The students will become better at expressing their thoughts by enlarging their vocabulary and learning new verb tenses. They will continue to explore the French-speaking world and to sample French culture.

Prerequisite: Successful completion of *French I*

Grades: 10, 11, 12 (06122-French)
NCAA

WL-1021 French III (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

In the third year of French, students will review second year skills and learn to express themselves in French, developing listening, speaking, reading and writing skills. Most of the topics are presented and practiced in the target language. The students will apply their growing knowledge of other cultures in relationship to a variety of authentic texts.

Prerequisite: Successful completion of *French II*

Grades: 10, 11, 12 (06123-French)

NCAA

WL-1031 French IV (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

The fourth year level is an advanced exploration of the French language and culture. With a focus on increased fluency, students will be asked to read, write and communicate orally in the taught language. Using French exclusively, the class will study the history, literature and culture of francophonic regions worldwide.

Prerequisite: Successful completion of *French III*

Grade: 12 (06124-French)

NCAA

WL-3031 AP French (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This Advanced Placement course, conducted entirely in Spanish, will prepare students for the Advanced Placement Exam. 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 Careers(AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course is an intensive full-year language course that aims to provide students with the equivalent of an intermediate course in Spanish language. Students will use authentic sources such as stories, articles, and radio and television broadcasts in order to practice and master the integrated skills (speaking, listening, reading and writing) needed for language proficiency. Students will receive extensive exposure to varied thematic units along with many opportunities to practice and improve their oral communication skills. This course will also provide an in-depth review of the grammatical concepts and cultural practices and products prevalent to understanding the Hispanic world and the Spanish language.

Prerequisite: Heritage Spanish Speakers

Grades: 12 (06105-Spanish)

Kettering Campus

NCAA

WL-1081 German I (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

The student continues to master German and their previously learned skills of communication. They will demonstrate increased confidence in his or her 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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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

ALTERNATIVE PROGRAMS

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 where students are expected in the Academic Center and 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, pod 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 a student 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 general or special education class with an identified peer, attending LINKS scheduled meetings, 1:1 meetings with LINKS coordinator, curriculum materials.

This is a general elective course that awards credit as approved by the Michigan Department of Education and a grade to general education student.

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

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

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 (AC) — Semester - 1/2 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) — Full Year - 1 credit

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, the MME exam, and for possible AP coursework. *LA I* is a full year course and a requirement for all freshmen.

NCAA (01053-Lit)

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

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, for the MME exam, and for possible AP coursework.
LA II is a full year course and a requirement for all sophomores.
NCAA (01053-Lit)

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

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, for the MME exam, and for possible AP coursework.
LA III is a full year course and a requirement for all juniors.

NCAA (08005-Fit)

LR-1031 Language Arts IV (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year- 1 credit

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 full year course and a requirement for all seniors.

NCAA (08005-Lit)

MATHEMATICS COURSES

LR-1051 Consumer's Math I (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 (AC, BMMT, E/M&IT, HSci, HSer, NR&A) Full Year - 1 credit

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 American Civics: Our Systems of Government and Economics Full Year – 1 credit

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

In this required two semester course students will learn the content and skills of American Civics. In the first semester, the course examines the Constitution with 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. The second semester concerns students' development of 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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course fulfills the course requirements 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.

NCAA (08005-Fit)

LR-1414 Earth Science (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

This course fulfills the course requirements for ninth-grade students and blends the disciplinary of core ideas of Earth Science with science and engineering practices and crosscutting concepts to support in developing usable knowledge to explain natural phenomena across the science disciplines. Students will answer the following questions: What is the universe, and that is Earth's place in it? How and why is Earth constantly changing? And how do Earth's surface processes and human activities affect each other? Specific concepts studied will include the history of the earth, geology, astronomy, mereology, and Geography.

Prerequisite: None

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

NCAA

LR-1421 Chemistry (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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.

Prerequisite: None

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

NCAA

LR-1431 Physics (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Full Year – 1 credit

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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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. Student 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 (AC, BMMT, E/M&IT, Hsci, Hser, NR&A) Semester – 1/2 credit

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

Waterford Durant High School
Crary Campus
Craig Blomquist, Principal
Linda Eland, Counselor
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:

- 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.

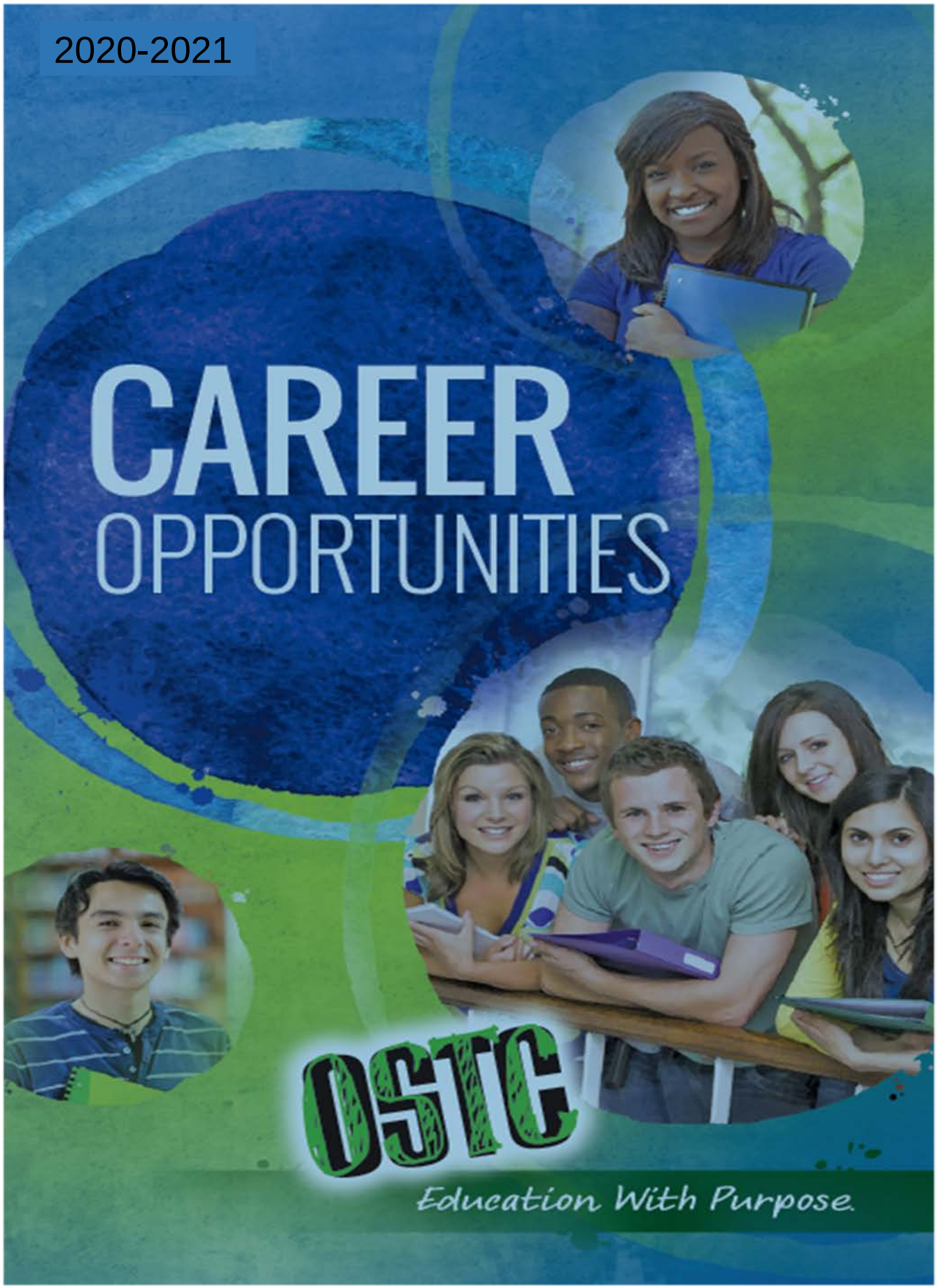
At Durant, we:

- 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.

2020-2021



Agriscience and Environmental Technologies SC-6001

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 immediate employment

College Credit ❯ Certifications ❯ National Competitions

Automotive Technology EM-6021

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 immediate employment

College Credit ❯ Certifications ❯ Internships

Be college and career ready!
Work individually and in teams to develop the expertise, confidence and skills for today's top careers.

iTEAM: *Information Technology, Entrepreneurship & Advanced Marketing Courses*

Computer Programming - iTEAM BT-6001

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 immediate employment

College Credit ❯ Certifications ❯ Apprenticeships

This program has an OAKLAND TECHNICAL EARLY COLLEGE option

Collision Repair and Refinishing EM-6021

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 immediate employment

College Credit ➲ Certifications ➲ Internships

This program has an OAKLAND TECHNICAL EARLY COLLEGE option

Meet Michigan high school graduation requirements!
Gain a competitive advantage by acquiring both technical skills and required academic credits.

Construction Technology EM-6001

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 immediate employment

College Credit ➲ Certifications ➲ Apprenticeships

Fund your future!
Use your career tech experience to earn an above average wage, pay for advanced training and earn money for college.

Computer Networking - iTEAM BT-6031

AVAILABLE AT ALL CAMPUSES

- Build, upgrade and repair computers
- Design, install and troubleshoot computer network systems
- Investigate and eliminate security threats to networks, hardware, software and e-mail

CAREER FOCUS: Prepared for further education, advanced certifications and immediate employment

College Credit ➲ Certifications ➲ Apprenticeships

This program has an OAKLAND TECHNICAL EARLY COLLEGE option

Cosmetology HU-6001 *transportation is not provided

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 immediate employment

State Licensure ➲ College Credit ➲ Competitions

Culinary Arts / Hospitality BT-6011

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 immediate 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.

NE = Northeast Campus, NW = Northwest Campus, SE = Southeast Campus, SW = Southwest Campus

Entrepreneurship & Advanced Marketing - iTEAM BT-6041

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 immediate employment

College Credit ➲ Certifications ➲ Internships

Visual Imaging BT-6021

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, advanced certifications and immediate employment

College Credit *Certifications* *Internships*

Engineering and Emerging Technologies - Machining EM-6041

CAREER FOCUS: Prepared for further education and advanced certifications

College Credit *Certifications* *Scholarships*

AVAILABLE AT ALL CAMPUSES

- 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

Experience is everything!

Connect to a dynamic, engaging and collegiate environment where you are encouraged to succeed as a professional.

Engineering and Emerging Technologies - Mechatronics EM-6051

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 immediate employment

College Credit *Certifications* *Apprenticeships*

This program has an OAKLAND TECHNICAL EARLY COLLEGE option

OSTC *Education With Purpose.*

OSTConline.com

OAKLAND TECHNICAL EARLY COLLEGE

Oakland County Public School Districts + Oakland Schools 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 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**

Check OSTConline.com for updated programming and application information.

OSTC Oakland Schools 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.

Oakland Schools Technical Campus Northeast
1371 N. Perry Street
Pontiac, MI 48340
248.451.2700
www.OSTConline.com

Oakland Schools Technical Campus Southeast
5055 Delemere Street
Royal Oak, MI 48073
248.288.4020
www.OSTConline.com

Oakland Schools Technical Campus Northwest
8211 Big Lake Road
Clarkston, MI 48346
248.922.5800
www.OSTConline.com

Oakland Schools Technical Campus Southwest
1000 Beck Road
Wixom, MI 48393
248.668.5600
www.OSTConline.com

OSTConline.com

Oakland Schools does not discriminate on the basis of sex, race, color, national origin, religion, height, weight, marital status, sexual orientation (subject to the limits of applicable law), age, genetic information, or disability in its programs, services, activities or employment opportunities. Inquiries related to employment discrimination should be directed to the Director of Human Resources at 248.209.2059, 2111 Pontiac Lake Road, Waterford, MI 48328-2736. For all other inquiries related to discrimination, contact the Director of Legal Affairs at 248.209.2062, 2111 Pontiac Lake Road, Waterford, MI 48328-2736.

Please notify us within 10 days if you require special arrangements.

Follow us on facebook, twitter, and wordpress

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UPDATED AUGUST 2017

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:
Human Resources

Waterford School District
501 N. Cass Lake Road
Waterford, Michigan 48328
Phone (248) 682-7800

Inquiries Regarding Programs/Courses/Students-
Elementary, Middle, and High School:

Director of Instructional Services and Technology
Waterford School District
501 N. Cass Lake Road
Waterford, Michigan 48328
Phone (248) 682-7800

Title VI of the Civil Rights Act of 1964

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 she/he has 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:

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 s/he has 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. S/He 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, s/he may appeal through a signed written statement to the Board of Education within five (5) business days of his/her 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.