MARATHON HIGH SCHOOL



2019-2020 ACADEMIC & CAREER PLANNING GUIDE

MARATHON HIGH SCHOOL

MISSION STATEMENT

The Marathon School District is committed to providing all students with a quality education and the skills they need to be successful. We will continuously improve instructional programs and provide learning experiences that meet the individual needs of students in a safe and supportive environment by developing an exceptional staff and partnering with families and the community.

VISION STATEMENT

The Marathon School District will continue to create an exceptional educational system that is recognized for the academic excellence and character of its students, the professionalism and expertise of its staff, and the quality and diversity of its programs.

NONDISCRIMINATION STATEMENT

The Marathon School District is committed and dedicated to the task of providing the best education possible for every child in the district for as long as the student can benefit from attendance and the student's conduct is compatible with the welfare of the entire student body. The right of the student to be admitted to school and to participate fully in curricular, extracurricular, student services, recreational or other programs or activities shall not be abridged or impaired because of a student's sex, race, religion, national origin, color, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional or learning disability or handicap.

The ACP Model

Know-Explore-Plan-Go aligns Wisconsin ACP required components with research-based recommendations for incorporating career development throughout K12 for self-exploration, career exploration, and career planning and management.

Self-Awareness (KNOW)

- Periodic self-assessment of interests and strengths
- Reflection and goal setting
- Financial knowledge & understanding of resources
- Academic courses & skill preparation
- Behavioral & employability skill preparation

Career Exploration (EXPLORE)

- Middle School career exploration activities and opportunities
- High School career exploration activities and opportunities
- World of work and labor market needs
- Understanding and comparing different postsecondary education & training

Career Planning (PLAN)

- Planning skills
- The Middle School plan
- The High School plan

Career Management (GO)

- Executing the plan
- Updating the plan with new information & artifacts
- Conferencing & mentoring
- Transitioning ACP Components



PROGRAMS OF STUDY

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THE	PROGRAMS OF STUDY:	
-	Agriculture, Food and Natural Resources	6
-	Architecture and Construction	8
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-	Finance	16
-	Government and Public Administration	18
-	Health Science	20
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-	Human Services	24
-	Information Technology	26
-	Law, Public Safety, Corrections and Security	28
-	Manufacturing	30
-	Marketing	32
-	STEM (Science, Tech, and Engineering & Math)	34
-	Transportation, Distribution, and Logistics	35

CAREER CLUSTERS & PROGRAMS OF STUDY

The Framework

Career Clusters are broad occupational groupings that serve as an organizing tool categorizing common knowledge and skill sets for secondary and post-secondary education through 16 broad groups of occupations and 79 pathways (sub-groups). As a tool, Career Clusters:

- blend rigorous academic/technical preparation
- provide for career development
- offer options for students to experience all aspects of a business or industry
- facilitate/assist students and educators with ongoing transitions

The Plan

Programs of Study (POS) are sequences of Academic <u>AND</u> Career Technical Education courses to help students attain a postsecondary degree or industry-recognized certificate or credential within a career cluster/pathway. At minimum a POS must:

- Incorporate and align secondary and postsecondary education elements.
- Include academic and CTE content in a coordinated, non-duplicative progression of courses.
- Offer the opportunity, where appropriate, for secondary students to acquire postsecondary credits.
- Lead to an industry-recognized credential or certificate at the postsecondary level, or an associate or baccalaureate degree.

The Process

Career Pathway

A career pathway is a coherent, articulated sequence of rigorous academic and career related courses (the POS), commencing in ninth grade and leading to an associate degree, and/or an industry-recognized certificate or licensure, and/or a baccalaureate and beyond. A career pathway...

- is developed, implemented and maintained in partnership among secondary and postsecondary education, business, and employers.
- is available to all students and designed to lead THROUGH the desired levels of education and training TO rewarding careers.

Career Clusters				
Agriculture, Food & Natural Resources	Architecture & Construction			
Arts, Audio/Video Technology & Communications	Business Management & Administration			
Education & Training	Finance			
Government & Public Administration	Health Science			
E Hospitality & Tourism	Human Services			
Information Technology	ULaw, Public Safety, Corrections & Security			
Manufacturing	Marketing			
Science, Technology, Engineering & Mathematics	Transportation, Distribution & Logistics			

AGRICULTURE, FOOD AND NATURAL RESOURCES

This program of study prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.

Pathways

- Agribusiness Systems
- Animal Systems
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural, and Technical Systems



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	ENGLISH: Business Issues and Communication, College English MATH: Statistics, Pre-Calculus, AP Calculus, SCIENCE: Physics, AP Physics SOCIAL STUDIES: Geography BUSINESS: Career Discovery WORLD LANGUAGE: Spanish I-V AGRISCIENCE: Animal Science, Advanced Animal Science, Horticulture, Greenhouse Management, Conservation, Food Science, and Agribusiness Management.
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	FFA, Ecology, FBLA,
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

AGRICULTURE, FOOD AND NATURAL RESOURCES Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
AGRIBUSINESS SYSTEMS				
-Farm & Ranch Workers	-Agriculture Contact Provider	-Agribusiness Management -Agribusiness Operations Technology -Agri-Communications -Farm and Ranch Business Management	-Agricultural Economics -Agribusiness -Agricultural Education -Agricultural Journalism -Hospitality, Restaurant & Tourism Management -Professional Golf Management	-Agricultural Economics -Agriculture Leadership -Education Statistics
ANIMAL SYSTEMS	An Deirer Technician	Animal Caianaa	Animal Caion as	Animal Caianaa
-Animal Caretakers -Material Collection	-Ag Dairy Technician -Beef Quality Assurance -Livestock Production -Pork Quality Assurance	-Animal Science -Equine Industry Management -Livestock Industry Management -Swine Management -Veterinary Technology	-Animal Science Biochemistry -Grazing Livestock Systems -Veterinary Science -Veterinary Technologist	-Animal Science (Nutrition, Genetics or Physiology Focus) -Biochemistry -Integrative Biomedical Sciences -Veterinary Medicine
ENVIRONEMENTAL SERV	ICE SYSTEMS	1		
-Refuse and Recyclable -Material Collection		-Environmental Science -Laboratory Science Technology	-Aquatic Ecology -Conservation Biology -Environmental Soil Science -Environmental Studies Habitat Management -Insect Science	-Entomology -Natural Resource Science
FOOD PRODUCTS & PROC	CESSING SYSTEMS			
-Butchers & Meat Cutters -Meat Processing -Slaughter & Meat Packer	-Ag Dairy Technician -Commercial Plant Production -Food Handlers Permit -Quality Control	-Agronomy -Diversified Agriculture -Dietary Management -Food Science & Technology -Quality Control	-Agronomy -Animal Science, Food Science & Technology -Hospitality, Restaurant & Tourism Management -Mechanized Systems Management	-Agronomy -Animal Science (Meat Science Focus) -Food Science & Technology
NATURAL RESOURCES SY	STEMS	1	I	
		-Natural Resources Systems -Soil & Water Conservation -Wildlife Management	-Environmental Soil Sciences -Environmental Studies -Fisheries & Wildlife -Grassland Ecology / Management -Natural Resources & Environmental Economics -Water Science	-Horticulture & Forestry -Natural Resources Sciences
PLANT SYSTEMS	Commorcial Horticulture	Agronomy Commorcial	Agronomy	Agriculturo Agronomy
-Nursery & Greenhouse Workers -Seed Sales -Tree Trimmers & Pruners	-Commercial Horticulture	-Agronomy Commercial -Horticulture Crop Production -Forestry Landscape / Nursery -Sport Turf Technology	-Agronomy -Biochemistry -Diversified Agriculture Studies -Grazing Livestock Systems -Horticulture -Insect Science	-Agriculture Agronomy -Biochemistry Entomology -Horticulture -Horticulture & Forestry
POWER, STRUCTURAL &				
-Electrician Apprentice -Plumbing Apprentice -Welding Apprentice	-Parts Distribution & Management -Parts/Sales & Management	-Agri-Technology Farm -Mechanics Irrigation Tech -John Deere Ag Technician	-Agricultural Operations -Mechanized Marketing -Mechanized Science -Processing Operations	-Agricultural & Biological Systems Engineering -Mechanized Systems Management

ARCHITECTURE & CONSTRUCTION

This program of study prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs.

Pathways

- Construction
- Design/Pre-Construction
- Maintenance Operations



HIGH SCHOOL	ENGLISH: Business Issues and Communication, College English		
COURSEWORK	MATH: Statistics, Pre-Calculus, AP Calculus,		
This coursework does not include	SCIENCE: Physics, AP Physics		
required core coursework that is	SOCIAL STUDIES: Geography, European History		
applicable to all programs.	BUSINESS: Career Discovery, Accounting, Marketing		
	WORLD LANGUAGE: Spanish I-V		
	ART: Art I-IV		
	STEM: Introduction to Engineering, Principles of Engineering		
	Technology Education: Intro to Drafting, Architectural Drafting, Woods I-		
	III, Construction Trades		
OTHER COURSEWORK	Student selected via Youth Options / Course Options.		
STUDENT	FBLA, Tech Ed/Skills USA		
ORGANIZATIONS			
CAREER EXPLORATION	Career Cruising		
CAREER EXPERIENCES /	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate		
WORK BASED LEARNING			

ARCHITECTURE & CONSTRUCTION

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
CONSTRUCTION				
-Carpentry	-Carpentry	-Carpentry	-Construction	-Construction
-Iron Working	-Construction	-Construction	Management	Management
-Masonry	Management	Management	_	-Construction
	-Electrical & Power	-Electrical & Power		Engineering
	Transmission	Transmission		
	-Iron Working	-Iron Working		
DESIGN & PRE-CONSTRU	CTION	·		-
	-Interior Design		-Architectural	-Architectural
	-Surveying Technology		Engineering Technology	Engineering Technology
			-Civil Engineering	-Civil Engineering
			Technology	Technology
			-Interior Design	-Environmental Design
			-Landscape Architecture	-Interior Design
				-Landscape Architecture
MAINTENANCE & OPERA	ΓIONS			
-Electrical / Electronic	-Electrical/Electronic	-Electrical/Electronic	-Industrial Engineering	
Equipment, Installation &	Equipment, Installation &	Equipment, Installation &		
Repair	Repair	Repair		
-Grounds-keeping	-Grounds-keeping	-Grounds-keeping		
-Heating, Air	-Heating, Air	-Heating, Air		
Conditioning &	Conditioning &	Conditioning &		
Refrigeration Technology	Refrigeration Technology	Refrigeration Technology		

ARTS, A/V TECHNOLOGY & COMMUNCATIONS

Individuals that work in the AV communications industry manufacture, sell, rent, design, install, integrate, operate, and repair the equipment of audiovisual communications. Careers include designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Pathways

- Audio and Visual Technology and Films
- Journalism and Broadcasting
- Performing Arts
- Printing Technology
- Telecommunications
- Visual Arts



HIGH SCHOOL	ENGLISH: Business Issues and Communication, College English, AP		
COURSEWORK	Literature		
This coursework does not include	MATH: Statistics		
required core coursework that is	BUSINESS: Career Discovery		
applicable to all programs.	WORLD LANGUAGE: Spanish I-V		
	ART: Art I-IV, Photoshop		
	MUSIC: Choir, Band, Music Appreciation, Musical Theater		
	STEM: Introduction to Engineering, Principles of Engineering		
	Technology Education: Intro to Drafting, Architectural Drafting, Woods I-		
	III, Construction Trades		
OTHER COURSEWORK	Student selected via Youth Options / Course Options.		
STUDENT	FBLA, Forensics, Yearbook, Skills USA, Raider Review, Student Council		
ORGANIZATIONS			
CAREER EXPLORATION	Career Cruising		
CAREER EXPERIENCES /	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate		
WORK BASED LEARNING			

ARTS, A/V TECHNOLOGY & COMMUNCATIONS Career Types by Pathway

HIGH SCHOOL	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL			
DIPLOMA ON-THE-JOB TRAINING				PROFESSIONAL DEGREE			
	AUDIO & VIDEO TECHNOLOGY & FILM						
	-Audio & Recording -Technology Video Production	-Audio & Recording Technology -Communications	-Design & Visual Communications -Electrical Engineering	-Electronics Engineering			
		Technology -Electronics -Industrial Video Production -Film/Video Technology	-Film Studies & Production -Mechanical Engineering -Telecommunications Management				
JOURNALISM & BROADCA	STING	· · · · · · · · · · · · · · · · · · ·	·	•			
	-Certification by the Society of Broadcast Engineers -Radio Announcing -Radio Production	-Audio & Recording Technology -Radio/TV Journalism Mass -Media/Communications -Media Arts	-Advertising -Broadcasting -Journalism -News-Editorial -Visual Communications	-Journalism			
PERFORMING ARTS							
-Movie & Stage Grip -Usher & Ticket Taker -Movie Projectionist	-Musical Instrument Repair & Tuning Sound Engineering -Theater Technology	-Camera Operations -Music -Musical Instrument Repair & Tuning Sound Engineer -Sound Engineering -Theater Technology	-Arts Administration -Dance -Music -Stage Management -Theater Arts	-Music -Musical Arts			
PRINTING TECHNOLOGY							
-Bookbinder & Bindery Worker -Graphic & Printing Equipment Operator	-Desktop Publishing -Digital Publishing -Graphic Communication Offset Publishing -Web Page Design	-Electronic Imaging & Graphics -Graphic Design -Media Arts -Printing Technology -Visual Publications	-Computer Graphics -Graphic Design -Industrial Design -Printing Management -Visual Communication & Design				
TELECOMMUNICATIONS							
	-Electronics Technology	-Computer & Information Sciences -Computer Systems Analysis -Electronics Technology in Telecommunications -Information Technology	-Computer Networking & Telecommunications -Electronics Engineering -Operations Technology -Telecommunications Management	-Electronics Engineering -Information Technology -Telecommunications -Engineering			
VISUAL ARTS	1	1	1	1			
-Photograph Processing Worker	-Commercial Art -Digital Publishing -Graphic Art -Multimedia Photography	-Commercial Art -Graphic Design -Interior Design -Media Arts -Visual Publications	-Art History -Fashion Design -Graphic Design -Interior Design -Studio Arts -Visual Communications	-Art History -Studio Arts			

BUSINESS, MANAGEMENT & ADMINISTRATION

The Business, Management and Administration Cluster prepares learners for careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

Pathways

- Administrative Support
- Business Information Management
- General Management
- Human Resource Management
- Operations Management



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	ENGLISH: Business Issues and Communication, College English MATH: Statistics, Financial Math BUSINESS: Career Discovery, Computer Applications, Intro to Business, International Business, Marketing SOCIAL STUDIES: Consumer Economics WORLD LANGUAGE: Spanish I-V
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	FBLA, Forensics, Yearbook, Skills USA, Student Council, Academic Decathlon, Economics Challenge Team
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

BUSINESS, MANAGEMENT & ADMINISTRATION Career Types by Pathway

HIGH SCHOOL	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL		
DIPLOMA ON-THE-JOB				PROFESSIONAL DEGREE		
TRAINING						
ADMINISTRATIVE SERVIC	CES					
-Administrative Assistant	-Court Reporting	-Court Reporting	-Information Systems			
-Computer Operator	-Information Processing	-Information Processing	-Information Technology			
-Customer Service	-Legal or Medical	-Legal of Medical	Management			
Specialist	Information Technology	Information Technology				
-Entry Specialist	-Office Administration	-Office Administration				
BUSINESS INFORMATION	MANAGEMENT					
	-Business Administration	-Business Administration	-Business Administration	-Business Administration		
	-Information Technology	-Information Technology	-Information Systems	-Information Technology		
	-Office Technology	-Office Technology	-Information Technology			
			-Management			
HUMAN RESOURCE MANA	GEMENT					
-Human Resources Clerk	-Business Administration	-Business Administration	-Human Resources	-Business Administration		
			Management			
MANAGEMENT						
	-Certified Government	-Agribusiness Business	-Business Administration	-Business Administration		
	Auditing Professional	-Administration	-Entrepreneurship	-Management		
	-Certified Professional	-Marketing	-Marketing			
	Consultant		-Finance			
			-Hospital Management			
			-International Business			
OPERATIONS MANAGEMENT						
	-Business Administration	-Agribusiness	-Business Administration	-Business Administration		
	Retail Management	-Business Administration	-Marketing Operations			
			-Management			

EDUCATION & TRAINING

This program of study prepares learners for careers in planning, managing and providing education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services.

Pathways:

- Administrative and Administrative Support
- Professional Support Services
- Teaching and Training



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	ENGLISH: Business Issues and Communication, College English, AP Literature MATH: Statistics, Pre-Calculus BUSINESS: Career Discovery, Teacher Aide WORLD LANGUAGE: Spanish I-V		
OTHER COURSEWORK	Student selected via Youth Options / Course Options.		
STUDENT ORGANIZATIONS	FBLA, Forensics, Yearbook, Skills USA, Student Council, Academic Decathlon, Economics Challenge Team, National Honor Society, FFA, Raider Review, Spanish Club		
CAREER EXPLORATION	Career Cruising		
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate		

EDUCATION & TRAINING

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
ADMINISTRAION & ADM	INISTRATIVE SUPPORT	-		
PROFESSIONAL SUPPOR	r sedvices			-Educational Administration -Educational Studies -Business Administration -Administration & Supervision
TROFESSIONAL SUFFOR	-Personal Trainer	-Library Technical Assistant	-Speech-Language Pathology -Social Work -Information Science & Technology -Special Education & Communication Disorders	-Educational Psychology -Human Services -Instructional Technology -School Psychology -School Counseling -Social Work
TEACHING/TRAINING				
-Child Care Worker -Coach of Community- based Sports Leagues	-Early Childhood Education -Assistant Coaching	-Early Childhood Education -Sign Language Interpreting -Education Paraprofessional	-Early Childhood Education -Elementary Education -Middle Level Education -Secondary Education -Special Education -Athletic Trainer	-Curriculum & Instruction Education -Teaching, Curriculum & Learning -Leadership Education -Leadership Studies

FINANCE

The Finance path of study prepares learners for careers in financial and investment planning, banking, insurance and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

Pathways:

- Accounting
- Banking Services
- Business Finance
- Insurance
- Securities and Investments



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	ENGLISH: Business Issues and Communication, College English, AP Literature MATH: Statistics, Pre-Calculus, Financial Math BUSINESS: Career Discovery, Accounting, Introduction to Business, Financial Math SOCIAL STUDIES: AP U.S. Government and Politics, Consumer Economics WORLD LANGUAGE: Spanish I-V
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	FBLA, Skills USA, Academic Decathlon, Economics Challenge Team, Mathletics
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

FINANCE

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
ACCOUNTING				
-Accounting Clerk -Bookkeeping Clerk	-Business Administration	-Business Administration		-Accounting -Certified Public Accountant
BANKING SERVICES				
-Bank Teller -Commodity Banker		-Business Administration	-Banking & Finance -Business Administration -Auditor	-Banking & Finance -Business Administration
BUSINESS FINANCE				
		-Business Administration -International Business -Trade & Finance	-Business Administration -Economics	-Accounting & Finance
INSURANCE	·	·	·	·
-Customer Service Agent -Processing Clerk	-Tax Preparation	-Business Administration -Property & Casualty Insurance	-Mathematics -Statistics	-Actuarial Science
SECURITIES & INVESTME	NT			
-Payroll Clerk	-Certified Financial Analyst -Certified Financial Planner	-Agribusiness Business -Administration -Court Reporting -Information Technology -Office Administration -Office Technology	-Accounting Business -Administration -Finance	-Business Administration -Management

GOVERNMENT & PUBLIC ADMINISTRATION

This program of study prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.

Pathways:

- Foreign Services
- Governance
- National Security
- Planning
- Public Management & Administration
- Regulation
- Revenue and Taxation



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	ENGLISH: Business Issues and Communication, College English MATH: Statistics BUSINESS: Career Discovery, Sports and Entertainment Management SOCIAL STUDIES: European History, Consumer Economics TECHNOLOGY: Architectural Drafting WORLD LANGUAGE: Spanish I-V
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	FBLA, Forensics, Skills USA, Student Council, Academic Decathlon, Economics Challenge Team, Mathletics, Class Officer
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

GOVERNMENT & PUBLIC ADMINISTRATION

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Foreign Service				•
			-International Studies -Sociology -Geography & History -International Business -Economics -Statistics	-Survey, Research & Methodology -Sociology -Economics -Statistics
GOV ERNANCE	1		2.24	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
			-Political Science -Geography -Economics -Statistics	-Political Science -Geography -Economics -Statistics -Research & Methodology
NATIONAL SECURITY	1 1		1	
			-Military Science -Psychology -Electrical or Computer Engineering -Foreign Language	-Survey, Research & Methodology
PLANNING				
			-Economics -Geography -Engineering	-Community & Regional Planning -Economics -Architecture -Geography -Survey, Research & Methodology
PUBLIC MANAGEMENT &	ADMINISTRATION		1	
			-Actuarial Science -Management -Business Administration -Economics -Statistics	-Public Administration -Survey, Research & Methodology -Actuarial Science -Management -Economics -Statistics
REGULATION	1			Courses Descende 0
			-Food Science & Technology -International Business -Economics -Statistics	-Survey, Research & Methodology -Food Science Technology -Economics -Statistics
REVENUE & TAXATION	1			
			-Accounting -Economics -Finance -Actuarial Science Statistics	-Accounting -Economics -Finance -Actuarial Science -Family Financial Planning -Research & Methodology

HEALTH SCIENCE

The Health Science program of study connects individuals to a large variety of health care areas that is characterized by diversity and changing technologies. Health Science careers include planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. There are obvious connections between Health Sciences and other programs of study.

Pathways:

- Biotechnology Research & Development (Agriculture, Food and Natural Resources; STEM)
- Diagnostic Services (Information Technology/Computing)
- Health Informatics (Business, Management, Administration; Law Public Safety, Corrections, Security; STEM)
- Support Services (Human Services; STEM)
- Therapeutic Services (Human Services; STEM)



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	 ENGLISH: Business Issues and Communication, College English MATH: Statistics, Pre-Calculus, Calculus BUSINESS: Career Discovery SCIENCE: Chemistry, Advanced Chemistry, Physics, AP Physics, Advanced Biology SOCIAL STUDIES: Consumer Economics, Social Problems, Introduction to Law PHYSICAL EDUCATION: PE 9, Lifetime Fitness, Advanced Strength and Conditioning WORLD LANGUAGE: Spanish I-V HEALTH CARE: Medical Terminology
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	FBLA, Forensics, Skills USA, Student Council, Academic Decathlon, Mathletics, Class Officer
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

HEALTH SCIENCE

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
BIOTECHNOLOGY RESEA	RCH AND DEVELOPMENT	•		
	-Quality Assurance Technician -Quality Control Technician	-Clinical Laboratory -Medical Laboratory -Technician (CLT) -Technician (MLT)	-Biochemistry Immunology -Medical Technology -Microbiology Neuroscience	-Anatomy -Biochemistry -Oncology -Biology -Virology -Epidemiology
DIAGNOSTIC SERVICES	·	·	·	
-Clinical Rotation	-Electrocardiograph Technology -Nuclear Medical Technology -Radiology Technologist	-Cardiovascular Technologist -Medical Laboratory Assisting -Nuclear Medical Technology	-Biology -Medical Imaging Technology -Medical Laboratory Science -Nutrition	-Cardiovascular Technology -Diagnostic Radiology -Medical Laboratory Science -Nuclear Medicine
HEALTH INFORMATICS	I			
-Coding Experience -Data Entry -Community Service	-Health Records Technology -Medical Assisting -Medical Librarian -Medical Transcription	-Health Information -Technology Medical Coding -Medical Office Services	-Community Health -Health Care Administration -Health Education	-Health Care Administration -Library Science -Nursing Administration -Public Health
SUPPORT SERVICES				
-Central Services Assistant -Dietary Manager -Electrical/Electronic Equipment Repair	-Dietary Management -Electrical/Electronic Equipment Repair -Medical Office Management	-Dietary Management -Medical Office Management -Registered Dietetic Technician	-Biomedical Technology -Environmental Health & Safety -Prosthetic Therapies	-Environmental Health Sciences -Industrial/Operations Engineering -Public Health
THERAPEUTIC SERVICES				
-Clinical Rotation -Dental Assisting -Health Aide -Medical Assistant	-Certified Nurse's Aide -Dental Assisting -Licensed Practical Nurse -Massage Therapy	-Dental Hygiene -Licensed Practical Nursing -Pre-Medicine -Surgical Technology	-Athletic Training/Exercise Science -Dietetics -Pre-Medicine -Recreational Therapy	-Clinical Nutrition -Dentistry -Medicine -Nurse Anesthetist -Pharmaceutical Services

HOSPITALITY AND TOURISM

The Hospitality and Tourism program of study prepares learners for careers in the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel-related services. Hospitality operations are located in communities throughout the world.

Pathways:

- Lodging
- Recreation, Amusements, and Attractions
- Restaurant and Food/Beverage Services
- Travel and Tourism



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	 ENGLISH: Business Issues and Communication, College English MATH: Statistics BUSINESS: Career Discovery, Marketing, Hospitality Management, Introduction to Business, Sports and Entertainment Marketing SOCIAL STUDIES: Consumer Economics, European History, Introduction to Law WORLD LANGUAGE: Spanish I-V
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	FBLA, Forensics, Skills USA, Student Council, Academic Decathlon, Mathletics, Class Officer
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

HOSPITALITY AND TOURISM

HIGH SCHOOL DIPLOMA ON-THE-JOB	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
TRAINING				
LODGING				
-Bell Captain	-Hotel Management	-Hotel Management	-Business Administration	
-Guestroom Attendant			-Lodging Management	
-Reservationist			-Sales and Marketing	
RECREATION, AMUSEMEN	ITS & ATTRACTIONS			
-			-Business Administration	-Business Administration
Museums/Zoo/Aquarium			-Management	
Docent			-Recreation, Fitness and	
-Resort Instructor			Leisure Studies	
-Theme Parks Retail			-Sports & Fitness	
Manager			Management	
RESTAURANT AND FOOD	/BEVERAGE SERVICES			
-Cook	-Culinary Arts and		-Food Service/Hospitality	-Restaurant/Food Service
-Dishwasher	Management		-Food Service	-Administration
-Wait Staff	-Dietary Management		Management	
	-Food Services /		-Hospitality Management	
	Hospitality		-Restaurant and Food	
	-Food Service		Service	
	Management		-Administration	
			-Travel and Tourism	
TRAVEL AND TOURISM				
-Event Planner	-Business Administration	-Business Administration	-Business Administration	-Business Administration
-Ticket Agent	-Travel & Tourism	-Sales and Marketing	-Marketing	
-Tour Guide		-Travel & Tourism	-Operations Management	
-Travel Agent				

HUMAN SERVICES

This program of study prepares individuals for employment in career pathways related to families and human needs including counseling and mental health services, family and community services, personal care, and consumer services.

Pathways:

- Early Childhood Development Services
- Counseling & Mental Health Services
- Family & Community Services
- Personal Care Services
- Consumer Services



HIGH SCHOOL	ENGLISH: Business Issues and Communication, College English		
COURSEWORK	MATH: Statistics		
This coursework does not include	BUSINESS: Career Discovery		
required core coursework that is	SCIENCE: Advanced Biology		
applicable to all programs.	SOCIAL STUDIES: AP U.S. Government and Politics, Area Studies, Intro to		
	Law		
	WORLD LANGUAGE: Spanish I-V		
	HEALTH CARE: Medical Terminology		
	MUSIC: Choir, Band, Vocal Jazz, Music Appreciation, Musical Theater		
OTHER COURSEWORK	Student selected via Youth Options / Course Options.		
STUDENT	FBLA, Forensics, Skills USA, Mathletics		
ORGANIZATIONS			
CAREER EXPLORATION	Career Cruising		
CAREER EXPERIENCES /	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate		
WORK BASED LEARNING			

HUMAN SERVICES

HIGH SCHOOL DIPLOMA ON-THE-JOB	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
TRAINING				
CONSUMER SERVICES				
-Call Center -Customer Service	-Certified Financial Planner -Wellness		-Family Science -Family Financial Management -Human Services -Business Administration	-Family Science -Human Services -Business Administration
COUNSELING & MENTAL I	HEALTH SERVICES			
		-Human Services -Chemical Dependency Counselor	-Human Services -Psychology -Social Work -Human and Social Services Administration	-Marriage & Family Therapy -Early Childhood Education -Special Education and Communication Disorders
EARLY CHILDHOOD DEVE		1	1	1
	-Nanny -Parenting	-Early Childhood Education	-Family Science -Special Education and Communication Disorders	-Child Development -Early Childhood Education -Special Education and Communication Disorders
FAMILY & C OMMUNITY S	ERVICES	·		·
	-Para-educator -Family Life Specialist -Spirituality -Biblical Studies	-Human Services -Theology	-Human Services -Psychology -Nutrition, Fitness and Health Promotion -Gerontology -Family Science -Social Work	-Family Science -Psychology -Social Work -Human Services
PERSONAL CARE SERVICE	ES			
	-Barbering -Cosmetology -Esthetics -Massage Therapy	-Mortuary Science -Cosmetology	-Pre-Mortuary Science	

INFORMATION TECHNOLOGY

The Information Technology/Computing program of study involves the design, development, support and management of hardware, software, multimedia and systems integration services. In addition to careers in the IT industry, IT careers are available in every sector of the economy – from Financial Services to Medical Services, Business to Engineering and Environmental Sciences.

Pathways:

- Information Support and Services (Arts, AV Technology, and Communications; STEM)
- Network Systems (STEM)
- Programming and Software Development (Manufacturing, STEM)
- Web and Digital Communications (Arts, AV Technology, and Communications; STEM, Marketing)



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	ENGLISH: Business Issues and Communication, College English MATH: Statistics, Pre-Calculus BUSINESS: Career Discovery, Computer Applications, Computer App & Game Programming SCIENCE: Physics, AP Physics ART: Art I-IV, Photoshop STEM: Introduction to Engineering, Principles of Engineering, Digital Electronics WORLD LANGUAGE: Spanish I-V HEALTH CARE: Medical Terminology MUSIC: Choir, Band, Vocal Jazz, Music Appreciation, Musical Theater
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	FBLA, Forensics, Skills USA, Mathletics, Yearbook, Raider Review
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

INFORMATION TECHNOLOGY

HIGH SCHOOL	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL	
DIPLOMA ON-THE-JOB	,			PROFESSIONAL DEGREE	
TRAINING					
INFORMATION SUPPORT	AND SERVICES	•	•		
-Help Desk Assistant	-Electronics Technician -Information Technology	- Helpdesk/Microcomputer	-Computer Information -Systems Management	-Computer Information Systems	
	-Microsoft Certified	Support	-Information Systems	-Computer Science	
	-Database Administrator	-Information Technology	-Mass Communications /	Management	
	-Microsoft Office	-Computer Information	Media Studies	-Information Systems	
	Specialist	-Systems Database	-Web/Multimedia	-mormation systems	
	-Oracle Certified	Supports	Management		
	Professional	-Technical Support	Management		
NETWORK SYSTEMS			1	l	
-Network Technician	-Cisco Training -Electronics Technology	-Computer and Information Sciences	-Computer Science -Computer Engineering	-Computer Science -Computer Engineering	
	-Informational	-Computer Technology	-Computer Systems	-Information Technology	
	Technology	-Electronics Technology	Analysis	-Telecommunications	
	-Microsoft Certified	-Information Technology	-Management	Engineering	
	Systems Engineer	-Networking Technology	Information Systems		
	Certification		-Telecommunications		
			Management		
PROGRAMMING AND SOF	TWARE DEVELOPMENT				
	-Information Technology	-Computer Programming	-Computer Information	-Computer Programming	
	-Computer Programming	-Computer Programming	Systems	-Computer Science	
	-Vendor/Product	Technology	-Computer Programming	-Information Resource	
	Certification	-Computer Technology	-Computer Software	Management	
		-Information Technology	Engineering	-Information Technology	
			-Computer Science	-System Administration	
			-Management Info		
			Systems		
	WEB AND DIGITAL COMMUNICATIONS				
-Web Designer	-Animation	-Electronic Imaging	-Commercial Art	-Computer Science	
	-Information Technology	-Information Technology	-Computer Information		
	-Multimedia	Interactive Media	Sciences		
	-Certified Professional	-Media Arts	-Design and Visual		
	Webmaster	-Web Development and	Communication		
		Support	-Multimedia		
			Communication		

LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

The Law, Public Safety, Corrections and Security program of study helps prepare students for careers in planning, managing, and providing legal, public safety, protective services and homeland security including professional and technical support services.

Pathways:

- Correction Services
- Emergency and Fire Management Services
- Law Enforcement Services
- Legal Services
- Security and Protective Services



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	ENGLISH: Business Issues and Communication, College English, AP Literature MATH: Statistics, Pre-Calculus BUSINESS: Career Discovery, Computer Applications SOCIAL STUDIES: Introduction to Law, AP U.S. Government and Politics ART: Art I-IV, Photoshop STEM: Introduction to Engineering, Principles of Engineering, Digital Electronics WORLD LANGUAGE: Spanish I-V PHYSICAL EDUCATION: PE 9, Lifetime Fitness, Advanced Strength and
	Conditioning HEALTH CARE: Medical Terminology
	MUSIC: Choir, Band, Vocal Jazz, Music Appreciation, Musical Theater
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	FBLA, Forensics, National Honor Society, Academic Decathlon, Student Council, Class Officer
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
TRAINING				
CORRECTION SERVICES				
-Correctional Officer	-Criminal Justice	-Criminal Justice	-Human Services	-Law and Legal Services
-Security Officer		Corrections Option	-Criminal Justice	-Criminal Justice
		Parole Option	-Social Work	
		Probations Option	-Pre-Law	
EMERGENCY AND FIRE M	ANAGEMENT SERVICES			
-Police, Fire and	-Emergency Medical	-Emergency Medical	-Emergency Medical	
Ambulance Dispatch	Technician (EMT) Basic /	Technician (EMT)	Services	
-Volunteer Fire Fighter	Intermediate Paramedic	-Fire Protection		
	-Emergency Management	-Fire Science Technology		
	-Fire Science Technology			
	-Hazardous Waste			
	Technician			
LAW ENFORCEMENT SER	VICES			
-Animal Control	-Criminal Justice	-Administrative Assistant	-Paralegal Studies	-Law and Legal Studies
-Parking Enforcement		– Legal Paralegal / Legal	-Pre-Law / Legal Studies	-Criminal Justice
		Assistant	-Criminal Justice	
		-Criminal Justice		
		Court Emphasis		
SECURITY AND PROTECT	IVE SERVICES			
		-Criminal Justice / Law	-Criminal Justice	-Criminal Justice
		Enforcement	-Law and Legal Studies	
		-Law Enforcement		

MANUFACTURING

The Manufacturing program of study focuses on planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Pathways:

- Health, Safety & Environmental Assurance
- Logistics & Inventory Control
- Maintenance, Installation & Repair
- Manufacturing Production Process Development
- Production
- Quality Assurance



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	ENGLISH: Business Issues and Communication, College English, AP Literature MATH: Statistics, Pre-Calculus BUSINESS: Career Discovery, Computer Applications SOCIAL STUDIES: Introduction to Law, AP U.S. Government and Politics ART: Art I-IV, Photoshop STEM: Introduction to Engineering, Principles of Engineering, Digital Electronics WORLD LANGUAGE: Spanish I-V
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	FBLA, Forensics, National Honor Society, Academic Decathlon, Student Council, Class Officer
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

MANUFACTURING

HIGH SCHOOL	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL
DIPLOMA ON-THE-JOB	,			PROFESSIONAL DEGREE
TRAINING				
HEALTH, SAFETY AND EN	VIRONMENTAL ASSURANC		1	
	-Occupational Safety &	-Environmental	-Environmental	-Environmental Biology
	Health	Engineering Technology	Engineering	-Environmental Studies
		-Environmental Studies	-Environmental Studies	-Occupational Safety &
		-Occupational Safety &	-Occupational Safety &	Health
		Health	Health	
LOGISTICS AND INVENTO				
-Heavy Equipment	-Truck Driving	-Logistics and Materials	-Logistics & Materials	-Logistics & Materials
Operation		Management	Management	Management
-Industrial Truck and		-Industrial Truck and	-Industrial Truck and	
Tractor Operation		Tractor Operation	Tractor Operations	
-Material Handling		-Transportation,	-Transportation,	
		Distribution & Logistics	Distribution & Logistics	
MAINTENANCE, INSTALL		T	T	T
-Business Machine	-Computer Installation &	-Diesel Technology	-Biomedical Technology	
Technology	Repair	-Manufacturing	-Manufacturing	
-Custodial Services	-Electronics Technology	Technology	Technology	
-Electronics Technology	-Industrial Mechanics	-Mechanical Engineering	-Mechanical Engineering	
		Technology	Technology	
		-Industrial Technology		
	JCTION PROCESS DEVELOP			
-Construction Trades	-Construction Trades	-Architectural	-Architectural	-Architecture
		Engineering Technology	Engineering	-Civil Engineering
		-Automotive Engineering	-Civil Engineering	-Construction
		Technology	-Computer Engineering	Management &
		-Drafting & Design		Inspection
		Technology		-Transportation and
				Highway Engineering
PRODUCTION	1	1	1	1
-Iron Working	-Iron Working	-Building Construction	-Computational	-Computational
-Precision Production	-Precision Production	-Electrical and	Mathematics	Mathematics
-Upholstering and	-Upholstering and	Electronics Engineering	-Electrical and	-Operations Management
Leather Working	Leather Working	Technology	Electronics Engineering	
-Woodworking	-Welding	-Iron Working	Technology	
			-Operations Management	
QUALITY ASSURANCE				
	-Quality Control	-Occupational Safety and	-Occupational Safety and	-Occupational Safety and
	Technology	Health	Health	Health
		-Quality Control	-Quality Control	
		Technology	Technology	

MARKETING

The Marketing program of study prepares learners for careers in planning, managing and performing marketing activities to reach organizational objectives.

Pathways:

- Marketing Management
- Professional Sales
- Merchandising
- Marketing Communications
- Marketing Research



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	ENGLISH: Business Issues and Communication, College English, AP Literature MATH: Statistics, Pre-Calculus, Financial Math BUSINESS: Career Discovery, Computer Applications, Marketing, Sports and Entertainment Marketing SOCIAL STUDIES: Area Studies, AP U.S. Government and Politics ART: Art I-IV, Photoshop TECHNOLOGY: Photoshop in Tech Ed WORLD LANGUAGE: Spanish I-V
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	FBLA, Forensics, Skills USA, Mathletics
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

MARKETING

S DEGREE MASTER'S/DOCTORAL
PROFESSIONAL DEGREE
I KOI ESSIONIE DEGREE
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on Administration
-Master of Marketing
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Administration
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STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATH)

The STEM program of study prepares learners for careers in designing, planning, managing, building and maintaining the building environment.

Pathways

- Engineering & Technology
- Science & Math



HIGH SCHOOL COURSEWORK This coursework does not include required core coursework that is applicable to all programs.	ENGLISH: Business Issues and Communication, College English, AP Literature MATH: Statistics, Pre-Calculus, AP Calculus, Financial Math BUSINESS: Career Discovery, Computer Applications, Marketing, Sports and Entertainment Marketing SCIENCE: Advanced Chemistry, Advanced Biology, Physics, AP Physics SOCIAL STUDIES: Area Studies, AP U.S. Government and Politics STEM: Digital Electronics, Introduction to Engineering, Principles of Engineering, TECHNOLOGY: Photoshop in Tech Ed, Manufacturing, Construction Trades, Woods, Metals WORLD LANGUAGE: Spanish I-V
OTHER COURSEWORK	Student selected via Youth Options / Course Options.
STUDENT ORGANIZATIONS	Skills USA, Mathletics
CAREER EXPLORATION	Career Cruising
CAREER EXPERIENCES / WORK BASED LEARNING	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATH) Career Types by Pathway

HIGH SCHOOL	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL
DIPLOMA ON-THE-JOB	,			PROFESSIONAL DEGREE
TRAINING				
SCIENCE AND MATHEMAT	FICS	·	·	
		-Biology	-Chemistry	-Biochemistry
		-Chemistry	-Economics	-Biological Sciences
		-Laboratory Science	-Mathematics	-Chemistry
		Technology	-Molecular Biology	-Physics and Astronomy
		-Medical Laboratory	-Physics	-Statistics
		Technology		
ENGINEERING AND TECH	NOLOGY			
	-Industrial Technology	-Architectural Design	-Agricultural Engineering	-Agricultural and
		Technology	-Biological Systems	Biological Systems
		-Civil Engineering	Engineering	-Architectural
		Technology	-Chemical Engineering	Engineering
		-Industrial Technology	-Construction	-Chemical Engineering
		-Surveying and Computer	-Engineering Technology	-Civil Engineering
		Aided Drafting (CAD)	-Industrial Engineering	-Mechanical Engineering

TRANSPORTATION, DISTRIBUTION AND LOGISTICS

This program of study exposes students to careers and businesses involved in the planning, management and movement of people, materials and products by road, air, rail and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities.

Pathways:

- Facility and Mobile Equipment Maintenance
- Health, Safety and Environmental Management
- Logistics, Planning and Management Services
- Sales and Services
- Transportation Operations
- Transportation/Systems Infrastructure Planning Management and Regulations
- Warehousing and Distribution Center Operations



HIGH SCHOOL	ENGLISH: Business Issues and Communication, College English, AP		
COURSEWORK	Literature		
This coursework does not include	MATH: Statistics, Pre-Calculus, Financial Math		
required core coursework that is	BUSINESS: Career Discovery, Computer Applications		
applicable to all programs.	SCIENCE: Physics		
	SOCIAL STUDIES: Area Studies, AP U.S. Government and Politics, Consumer		
	Economics		
	STEM: Digital Electronics, Introduction to Engineering, Principles of		
	Engineering,		
	WORLD LANGUAGE: Spanish I-V		
OTHER COURSEWORK	Student selected via Youth Options / Course Options.		
STUDENT	Skills USA, Mathletics		
ORGANIZATIONS			
CAREER EXPLORATION	Career Cruising		
CAREER EXPERIENCES /	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate		
WORK BASED LEARNING			

TRANSPORTATION, DISTRIBUTION AND LOGISTICS Career Types by Pathway

HIGH SCHOOL	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL
DIPLOMA ON-THE-JOB	,			PROFESSIONAL DEGREE
TRAINING				
FACILITY & MOBILE EQUI				
-Auto Body Repair	-Auto Body Repair	-Aeronautical and	-Engineering	-Industrial and
-Automotive and Diesel	-Auto Mechanics	Aerospace Engineering	-Industrial Engineering	Management Systems
Technology	-Aviation Airframe	Technology	-Mechanical Engineering	Engineering
	Maintenance	-Automotive Technology		-Mechanical Engineering
	-Industrial Maintenance	-Aviation Airframe		
	-Electronics	Technology -Electronic Technology		
HEALTH CAFETY & ENVI	RONMENTAL MANAGEMEN			
HEALTH, SAFETT, & ENVI	-Business	-Business Administration	-Business Administration	-Engineering
	-busiliess	-Industrial Technology	-Industrial Distribution	Management
		-Logistics and Materials	-Industrial Technology	-Industrial and
		Management	-Management	Management Systems
			Technology	Engineering
			-Operations Management	-Operations Management
			-Logistics and Material	
			Management	
SALES AND SERVICE				
-Cashier	-Desktop Publishing	-Business Marketing	-Advertising	-Advertising
-Customer Service	-Entrepreneurship	-Marketing Management	-Business	-Business
-Travel Agent	-Parts, Sales and	-Parts, Sales and	-Marketing	-Marketing
	Management	Management		
TDANCDODTATION ODED	-Travel Services			
TRANSPORTATION OPER	-Air Traffic Control	-Air Traffic Control	-Air Traffic Control	
-Taxi Driving -Locomotive Engineering	-CDL Driver Training	-Air Trainc Control	-Air Traine Control	
-Bus Driving	Class A, B	Flight Crew Training		
-Truck Driving	-Commercial Pilot and	Fight Crew Training		
Truck Driving	Flight Crew Training			
	-Vehicle and Equipment			
	Operations			
TRANSPORTATION SYSTE		ANNING, MANAGEMENT &		
		-Civil Engineering	-Aviation Systems	-Civil Engineering
		-Surveying & CAD	-Management Civil	-Engineering
			Engineering	Management
			-Maritime Studies	-Naval, Architecture and
			-Naval Architecture and	Marine Engineering
WADEHOUCING & DICEDU		ONG	Marine Engineering	
	BUTION CENTER OPERATIO		Ducinces	Logistics and Material
-Shipping and Receiving -Storage and Distribution	-CDL Driver Training Class A, B	-Business	-Business	-Logistics and Material Management
-storage and Distribution	-Forklift Training	-Logistics and Materials Management	-Logistics and Material Management	management
	-rorkint frailing		mailagement	
		-Warehouse Management		

	COURSE OFFERINGS	
SCHE	EDULING INSTRUCTIONS:	
-	College Level Work	39
-	Credit Requirements	40
-	4-Year Course Plan	41
-	Course Selection Options	42
HIGH	I SCHOOL COURSES	
-	Agriscience	45
-	Art	47
-	Business Education	49
-	English	54
-	Mathematics	56
-	Music	58
-	Physical Education	60
-	Science	62
-	Social Studies	64
-	STEM	67
-	World Language	71
-	Driver Education	72

COLLEGE LEV	EL WORK			
	ADVANCED PLACEMENT	DUAL CREDIT	EARLY COLLEGE CREDIT PROGRAM	START COLLEGE NOW - TECHNICAL
DESCRIPTION	AP courses provide exposure to college level coursework. Success on AP coursework is a good indication of college readiness.	Dual Credit allows high school students to earn college credits and save money on tuition while still in high school. Dual Credit is an arrangement where you can earn both high school and college credit.	The ECCP statute allows WI public and private high school students to take one or more courses at an institution of higher education for high school and/or college credit. If approved by the school board, the student can receive both high school and college credit upon successful completion of the course.	Start College Now will allow high school students the opportunity to take college courses at any WI Technical Colleges either full- or part-time. Students who have completed 10th grade with good academic standing, met any course prerequisites, have written approval from parent or guardian, and have no history of disciplinary problems may be admitted.
LOCATION	Marathon High School	Courses are taught at Marathon High School.	At participating WI Colleges or online through UW Learning Extensions.	Courses are offsite at the educational institution or online.
TAUGHT BY	Marathon High School teachers	College-certified high school instructors.	College Professor	Teacher or college professor depending on the site.
REQUIREMENTS	AP courses require a minimum grade in course prerequisites and also teacher recommendation. It is highly recommended that students take the AP exam in May. Students are able to take an AP exam without being enrolled in an AP course if they feel they can independently prepare.		Maximum of 18 credits allowed through ECCP. Admission requirements are set by the provider awarding credit. Application MUST be filled out by October 1 for Spring semester and March 1 for fall semester. Course may NOT be offered at MHS.	The courses must be approved by the student's resident district and the receiving educational institution. Students must meet the same criteria as other students in the receiving educational institution to take the course(s).
GRADES & CREDIT OPPORTUNITY	A student's grade is based on class performance; however the ability for credit transfer is based on their AP exam score. Typically, scores of 3 or above (1-5 scale) are considered passing.	Earn credits and your college transcript: Students who complete Dual Credit in high school may obtain either an official or unofficial transcript from NTC.	College courses taken by high school students become part of the permanent University record and may affect subsequent admission to post-secondary institutions.	Grades are earned through the college awarding credit. Prior to starting the course, each student is officially admitted to the post-secondary institution. Credit transfer is at the sole-discretion of your selected post-secondary institution.
COST	The 2019 cost per AP exam is \$94. The College Board dictates the cost per year.	None	None, but supplies may need to be purchased by the student for the course. Transportation is <u>not</u> provided. Student will reimburse school if course is dropped or failed.	None, but students may be charged additional tuition and fees for courses eligible for college credits. Transportation is <u>not</u> provided. Student will reimburse school if course is dropped or failed.

CREDIT REQUIREMENTS

Admission requirements fluctuate widely with different opportunities after high school. The chart below gives students an example of what some post-secondary institutions require. As part of their Academic & Career Planning process and prior to selecting courses, students are encouraged to review requirements for the opportunity they wish to pursue.

	Marathon High	UW-MADISON	ACT Core	WI Technical
	Graduation	Requirements	Curriculum	Colleges
	Requirements		Recommendation	Admission
				Suggestions
ENGLISH	4.0 credits	4.0 credits	4.0 credits	4.0 credits
			(1 Communication	
			Arts)	
MATHEMATICS	3.0 credits	4.0 credits	3.0 credits	3.0 credits
		(Statistics, business	(Algebra I, Geometry &	
		math, and computer classes do not apply.)	Algebra II)	
SCIENCE	3.0 credits	4.0 credits	3.0 credits	3.0 credits
JUENCE	(including 1 physical	7.0 ci cuits	(Biology, Chemistry,	5.0 ci cuits
	science and 1 biology)		Physics)	
SOCIAL STUDIES	3.0 credits	4.0 credits	3.0 credit	3.0 credits
	(Including 1 credit of			
	US History and 0.5			
	credit of American			
	Government). All Graduates will need to			
	pass a Civics			
	Assessment to			
	graduate.			
PHYSICAL	1.5 credits			
EDUCATION	(WI requirement –			
	credits do not count			
	toward graduation requirement)			
HEALTH	0.5 credits			
	(Grade 7-12 WI			
	Requirement)			
WORLD		3.0 - 4.0 credits		
LANGUAGE				
FINE ART		2.0 credits		
		(of additional fine		
DUGNIDGO		arts/academic credits)		
BUSINESS	0.5 credits			
ELECTIVES	(Personal Finance) 7.5 credits		Some colleges/	2.0 are dite
ELECTIVES	7.5 credits		universities require	3.0 credits (Can include ECCP,
			other courses as	Start College Now
			prerequisites to	and/or transcripted
			admission such as 2+	credit courses)
			years of world	
			language or courses in the arts, computer	
			science, etc.	
TOTAL	21 credits			
	•- • • • • • • • • • • • • • • • •		L	

	COURSE PLAN	NINC		
Freshman Year	Semester I	Cr.	Semester II	Cr.
	English 9	0.5	English 9	0.5
	Math:	0.5	Math:	0.5
	General Science	0.5	General Science	0.5
	US History: Great Wars	0.5	US History: World Superpowers	0.5
	Physical Education 9		Health	
	TOTAL		TOTAL	
Sophomore Year	Semester I	Cr.	Semester II	Cr.
101	English 10	0.5	English 10	0.5
	Math:	0.5	Math:	0.5
	Science:	0.5	Science:	0.5
	Social Studies:	0.5	Social Studies:	0.5
	PE:			
	TOTAL		TOTAL	
Junior Year	Semester I	Cr.	Semester II	Cr.
Jumor rear	English:	0.5	English:	0.5
	Math:	0.5	Math:	0.5
	Science:	0.5	Science:	0.5
	Social Studies:	0.5	Social Studies:	0.5
	PE:		Personal Finance	0.5
	TOTAL		TOTAL	
Senior Year	Semester I	Cr.	Semester II	Cr.
	English:	0.5	English:	0.5
		0.5		0.5
	TOTAL		TOTAL	

COURSE SELE	CTION O	PTI	ONS	5		
Course Name			de(s		Credit	Semester/Year
	9				Ground	
ENGLISH	– – –					
English 9	*				1.0	year
English 10		*			1.0	year
English 11			*		1.0	year
AP Literature & Composition			*	*	1.0	year
English 12				*	1.0	year
CAPP English 101 (ECCP)				*	0.75	semester
Business Issues & Communications	*	*	*	*	0.5	semester
Oral Communication				*	0.5	semester
MATHEMATICS	•					
Pre-Algebra	*	*			1.0	year
Algebra	*	*	*		1.0	year
Geometry	*	*	*	*	1.0	year
Algebra II		*	*	*	1.0	year
Statistics		*	*	*	0.5	semester
Pre-Calculus			*	*	1.0	year
Financial Math			*	*	1.0	year
AP Calculus				*	1.0	year
SCIENCE	1					
General Science	*				1.0	year
General Biology		*			1.0	year
Biology		*			1.0	year
Chemistry		*	*	*	1.0	year
Advanced Biology			*	*	1.0	year
Advanced Chemistry			*	*	1.0	year
Physics			*	*	1.0	year
AP Physics			*	*	1.0	year
Integrated Science			*	*	1.0	year
Medical Terminology (Dual Credit 11 & 12)			*	*	0.75	semester
SOCIAL STUDIES						
U.S. History: The Great Wars	*				0.5	semester
U.S. History: World Superpower	*				0.5	semester
Area Studies	*	*			0.5	semester
Great Civilizations	*	*	*	*	0.5	semester
American Government		*	*	*	0.5	semester
Social Problems			*	*	0.5	semester
Introduction to Law (Not available 2019-2020)			*	*	0.5	semester
European History		*	*	*	0.5	semester
Consumer Economics			*	*	0.5	semester
Vietnam			*	*	0.5	semester
World War II			*	*	0.5	semester
AP U.S. Government and Politics			*	*	0.5	semester

COURSE SELEC	ΓION (ЭРТ	ION	S		
Course Name			de(s		Credit	Semester/Year
	9					
AGRISCIENCE						
Food Science Technology	*	*	*	*	0.5	semester
Greenhouse Management	*	*	*	*	0.5	semester
Horticulture and Plant Science	*	*	*	*	0.5	semester
Animal Science (Dual Credit 11& 12)	*	*	*	*	0.5	semester
Advanced Animal Science (Dual Credit 11 & 12)		*	*	*	0.5	semester
Conservation and Natural Resources		*	*	*	0.5	semester
Agribusiness Management and Marketing			*	*	0.5	semester
ART						
Art 1	*	*	*	*	0.5	semester
Art 2	*	*	*	*	0.5	semester
Ceramics 1	*	*	*	*	0.5	semester
Ceramics 2	*	*	*	*	0.5	semester
Painting 1	*	*	*	*	0.5	semester
Painting 2	*	*	*	*	0.5	semester
Sculpture 1	*	*	*	*	0.5	semester
Sculpture 2	*	*	*	*	0.5	semester
Portfolio Workshop			*	*	0.5	semester
Photography (Dual Credit 11 & 12)			*	*	0.5	semester
BUSINESS	•		•			
Computer Applications	*	*	*	*	0.5	semester
Computer App and Game Programming	*	*	*	*	0.5	semester
Hospitality Management	*	*	*	*	0.5	semester
International Business	*	*	*	*	0.5	semester
Introduction to Business	*	*	*	*	0.5	semester
Marketing (Dual Credit 11 & 12)	*	*	*	*	0.5	semester
Webpage Design	*	*	*	*	0.5	semester
Introduction to Information Technology	*	*	*	*	0.5	semester
Accounting (Dual Credit 11 & 12)		*	*	*	1.0	year
Sports and Entertainment Management		*	*	*	0.5	semester
Computer Hardware Fundamentals 1 (Dual Credit)			*	*	0.5	semester
Entrepreneurship (ECCP)			*	*	0.75	semester
Advanced Accounting (Dual Credit)			*	*	1.0	year
Career Discovery			*	*	0.5	semester
Personal Finance			*	*	0.5	semester
Youth Apprenticeship			*	*	1.0	year
Work Study			*	*	1.0	year
Teacher Aide			*	*	1.0	year
PHYSICAL EDUCATION	1					
Physical Education 9	*				0.5	semester
Lifetime Fitness		*	*	*	0.5	semester
Advanced Strength & Conditioning		*	*	*	0.5	semester

Course Name		Gra	de(s)	Credit	Semester/Year	
	9	10	11	12			
STEM							
Architectural Drafting (Dual Credit 11 & 12)		*	*	*	0.5	semester	
Introduction to Drafting (Dual Credit 10- 12)		*	*	*	0.5	semester	
Manufacturing	*	*	*	*	0.5	semester	
Woods I	*	*	*	*	0.5	semester	
Woods II	*	*	*	*	0.5	semester	
Woods III (Dual Credit 10-12)		*	*	*	0.5	semester	
Small Engines	*	*	*	*	0.5	semester	
Metals I	*	*	*	*	0.5	semester	
Metals II	*	*	*	*	0.5	semester	
Metals III (Dual Credit 11 & 12)		*	*	*	0.5	semester	
Photoshop Tech (Dual Credit 11 & 12)			*	*	0.5	semester	
Construction Trades			*	*	0.5	semester	
Welding	*	*	*	*	0.5	semester	
Introduction to Engineering	*	*	*	*	1.0	year	
Principles of Engineering		*	*	*	1.0	year	
Digital Electronics		*	*	*	1.0	year	
AP Computer Science A		*	*	*	1.0	year	
WORLD LANGUAGE							
Spanish I	*	*	*	*	1.0	year	
Spanish II	*	*	*	*	1.0	year	
Spanish III		*	*	*	1.0	year	
Spanish IV			*	*	1.0	year	
Spanish V				*	1.0	year	
MUSIC							
Band	*	*	*	*	1.0	year	
Concert Choir	*	*	*	*	1.0	year	
Marathon Singers	*	*	*	*	1.0	year	

AGRISCIENCE									
			Grade Levels						
Course Name	Credit	Course #	9	10	11	12			
Animal Science	0.5/sem	AGR201	Х	Х	Х	Х			
Advanced Animal Science	0.5/sem	AGR202		Х	Х	Х			
Horticulture & Plant Management	0.5/sem	AGR100	Х	Х	Х	Х			
Greenhouse Management	0.5/sem	AGR101	Х	Х	Х	Х			
Conservation & Natural Resources	0.5/sem	AGR203		Х	Х	Х			
Food Science Technology	0.5/sem	AGR103	Х	Х	Х	Х			
Agribusiness Management & Marketing	0.5/sem	AGR301			Х	Х			

Animal ScienceAGR2010.5 CreditElective 9-12Animal Science will cover topics relating to both large and small-domesticated animals. Students will cover
general topics including animal welfare, genetics, nutrition, reproduction, and safety and environmental
issues with animals. This course is taught with an applied science emphasis. The objective of the course is
for students to understand the role of animals in our society and to become an educated consumer.Dual Credit:11-12

Advanced Animal ScienceAGR2020.5 CreditElective 10-12Advanced Animal Science is a continuation of animal science and will cover individual species in detailincluding dairy, beef, sheep, horses, swine, goats, companion animals, and exotic domesticated species.Animal physiology, behavior, biotechnology, veterinary medicine, and animal product selection will beemphasized. Dual Credit: 11-12

Horticulture & Plant ManagementAGR1000.5 CreditElective 9-12This course will introduce the various aspects of this very broad field.Hands-on projects will acquaintstudents with plant propagation and growth, indoor plants, landscaping, and gardening.Students will growplants in the greenhouse and use the head-house for lab experiments to show the effect of environmentalgrowth regulators, moisture, and growth media on plants Individual projects will include a terrarium, flowerarrangements, house plants, and school landscaping projects.

Greenhouse ManagementAGR1010.5 CreditElective 9-12This advanced course will help students further develop skills pertaining to plant propagation and
landscaping. Students will be propagating plants in the greenhouse. Projects include growing poinsettias
and chrysanthemums, an individual landscaping plan and model as well as beginning floristry
arrangements. A special emphasis will be on plant biotechnology and hydroponics.Elective 9-12Prerequisite: Horticulture & Plant ScienceProjects include growing poinsettiasElective 9-12

Conservation & Natural ResourcesAGR2030.5 CreditElective 10-12This course is designed to acquaint the student with the importance of managing our natural resources for
future generations. Class will deal with current problems focusing upon soil and water conservation,
forestry, pollution control, energy, water quality, waste disposal, and wildlife management. Lab exercises
include water testing, soil testing, and various forestry measurements and identification. An ongoing
project will be raising fish in an aquaculture tank. Prerequisite: General ScienceElective 10-12

Food Science Technology

AGR103

As global population continues to grow, many young people and adults are unaware of how the world meets its most basic daily requirement - the need for food. Along the path from farm to consumer, the safety of our food can be affected at each step in our food delivery system. Food science benefits consumers every day with healthier diets, better tasting affordable foods, and increased food safety. Topics covered include the importance of food in our society, learning to interpret food labels, food microbiology, and chemistry of cooking, and food physics. Lab exercises and projects include processing food and testing various components of food, developing a new food product and a science cookbook.

0.5 Credit

Agribusiness Management & Mktg.AGR3010.5 CreditElective 11-12This advanced course deals with methods of doing business, agribusiness record keeping, budgeting, careerplanning, use of computers in agriculture, farm law, futures contracts, marketing distribution, promotion,pricing, advertising and government regulations.Each student will manage a farm or small business using agame simulation and participate in a nationwide Commodity Marketing Challenge.

	ART							
			Grade Levels					
Course Name	Credit	Course #	9	10	11	12		
Art 1	0.5/sem	ART201	Х	Х	Х	Х		
Art 2	0.5/sem	ART202	Х	Х	Х	Х		
Art 3	0.5/sem	ART203		Х	Х	Х		
Ceramics 1	0. 5/sem	ART301	Х	Х	Х	Х		
Ceramics 2	0.5/sem	ART302	Х	Х	Х	Х		
Sculpture 1	0.5/sem	ART303	Х	Х	Х	Х		
Sculpture 2	0.5/sem	ART304	Х	Х	Х	Х		
Painting 1	0.5/sem	ART305	Х	Х	Х	Х		
Painting 2	0.5/sem	ART306	Х	Х	Х	Х		
Portfolio Workshop	0.5/sem	ART 901			Х	Х		
Photography	0.5/sem	ART902			Х	Х		

All art courses are meant to be taken sequentially to ensure student success through the building of essential methods and skills. Students, parents/guardians, administrators and school counselors should talk to the course instructor to determine if bypassing a level is appropriate.

Art 1ART2010.5 CreditElective 9-12This course is an introduction to art through multiple mediums. Students will apply the elements and
principles of design to produce creative works of art. Students will learn how to focus their artistic
viewpoint and create art that reflects a concept or their individual interests.0.5 CreditElective 9-12

Art 2ART2020.5 CreditElective 9-12Students will continue to focus on advanced design concepts. Learners will demonstrate a higher level of
knowledge with both the elements and the principles of design. Learners will be expected to execute tasks
independently using great craftsmanship and with attention to detail. Students will be required to describe,
analyze, interpret, and make decisions about certain pieces of art.0.5 CreditElective 9-12

Art 3ART2030.5 CreditElective 10-12Students will continue to focus on advanced design concepts. Learners will demonstrate a higher level of
knowledge with both the elements and the principles of design. Learners will be expected to execute tasks
independently using great craftsmanship and with attention to detail. Students will continue to explore
different media, connect, respond, produce and create art with meaning. Students will look at copyright
images and careers in art. Half of the semester students will work independently creating works of art.

Ceramics 1ART3010.5 CreditElective 9-12This course will enable students to develop the skills and techniques involved in the design and construction
of ceramics and sculpture. Learners will explore clay using coils, slabs, pinch and the pottery wheel while
also learning about glazing and firing the kiln. Students will also create three-dimensional sculpture using
various materials. Students will look at copyright images and careers in art. Note: A \$10 student fee will be
charged for this class.

Ceramics 2ART3020.5 CreditElective 9-12Learners will continue to focus on advanced design concepts introduced in Ceramics 1. Learners will be
expected to execute tasks independently using great craftsmanship and with attention to detail. Learners
will explore clay using coils, slabs, pinch and the pottery wheel. Students will be required to describe,
analyze, interpret, and make decisions about sculpture. Students will look at copyright images and careers
in art. Note: A \$10 student fee will be charged for this class.

Sculpture 1ART3030.5 CreditElective 9-12Students will create 3 dimensional works with wood, wire, found objects, clay, plaster, and fibers. Students
will be expected to execute tasks independently using great craftsmanship and with attention to detail.Note: A \$10 student fee will be charged for this course.

Sculpture 2ART3040.5 CreditElective 9-12Students will create 3 dimensional works with wood, wire, found objects, clay, plaster, and fibers. Studentswill be expected to execute tasks independently using great craftsmanship and with attention to detail.Note: A \$10 student fee will be charged for this course.

Painting 1ART3050.5 CreditElective 11-12Students will explore painting with both oil and acrylic paints. Students will develop mastery in stretching
canvas, successfully using a grid, and will also explore abstract art. Students will further develop design
elements and principles in their work.elective 11-12

Painting 2ART3060.5 CreditElective 9-12Students will explore painting with both oil and acrylic paints.Students will develop mastery in stretchingcanvas, successfully using a grid, and will also explore abstract art.Students will further develop designelements and principles in their work.Students will further develop design

Portfolio WorkshopART9010.5 CreditElective 11-12Portfolio Development is an advanced upper level course for students who have completed four semesters
of classes that prepared them to work independently building a conceptual body of work. Students will build
a portfolio for continuing education consisting of no less than 8 pieces. Students will be offered the
opportunity to prepare an AP studio art portfolio. Prerequisite: a minimum of four Art classes completed.

PhotographyART9020.5 CreditElective 11-12This course explores digital photography and will cover digital image basics, digital camera features, using
digital cameras, photographic techniques, studio photography, basic digital image editing, and using and
printing digital images. Dual Credit: 11-12

BUSINESS & INFORMATION TECHNOLOGY 0.5 Credit Required for Graduation – Personal Finance

0.5 Cicuit Requ			indic				
			Grade Levels				
Course Name	Credit	Course #	9	10	11	12	
	Business Co	urses					
Introduction to Business	0.5/sem	BUS201	Х	Х	Х	Х	
Hospitality Management	0.5/sem	BUS202	Х	Х	Х	Х	
International Business	0.5/sem	BUS203	Х	Х	Х	Х	
Web Page Design	0.5/sem	BUS204	Х	Х	Х	Х	
Career Discovery	0.5/sem	BUS205			Х	Х	
Computer Applications	0.5/sem	BUS206	Х	Х	Х	Х	
Personal Finance - Required	0.5/sem	BUS207			Х	X	
Accounting	1.0/year	BUS300/301		Х	Х	Х	
Advanced Accounting	1.0/year	BUS302/303			Х	Х	
Teacher Aide	1.0/year	CTE201			Х	Х	
Work Study	1.0/year	CTE202			Х	Х	
Youth Apprenticeship	1.0/year	CTE203			Х	Х	
Marketing	0.5/sem	BUS208	Х	Х	Х	Х	
Sports & Entertainment Management	0.5/sem	BUS209		Х	Х	Х	
Entrepreneurship	0.75/sem	BUS210			Х	Х	
Computer App & Game Programming	0.5/sem	CMP201	Х	Х	Х	Х	
Introduction to Information Technology	0.5/sem	CMP202	Х	Х	Х	Х	
Computer Hardware Fundamentals 1	0.5/sem	CMP203			Х	Х	

BUSINESS COURSES

Introduction to Business

Elective 9-12 BUS201 0.5 Credit This semester course is offered to students beginning at the Freshmen level to introduce them to the U.S. economic environment and characteristics of various types of business. This course includes additional topics like business and government in a global economy, technology in business, social and ethical issues and various other aspects of consumer issues relating to the business world. Students will also participate in a business community simulation and run their "own business."

BUS202 0.5 Credit **Hospitality Management** Elective 9-12 This course covers the growth and progress of the hospitality industry. Students will learn the concepts of the hospitality industry through a simulation focusing on running a hotel and a simulation focusing on running a restaurant. Topics covered in this class include: Pricing & Revenue Management, Group Sales, Public Relations, Customer Service, Social Media Feedback, Restaurant & Culinary Operations, Banquets & Meetings Operations, Financial Reports, Menu Design, amongst other Management and Marketing topics. Prerequisite: Introduction to Business

International Business BUS203 0.5 Credit Elective 9-12 We do not live in a regional or national marketplace, but in an International Market. We need to understand the importance of culture, social, and economic systems, and global business concepts and problems. We also need to know how our government encourages and discourages global business. This course will help you how the United States economy interacts and is affected by business conducted in other parts of the world. Prerequisite: Introduction to Business

Web Page Design

Students use the world wide web every day, but do they know why? What is the purpose of the web, and how do the websites I interact with come to be. In web design, students will be interacting with the structure, purpose, and design strategies behind websites. Students will use web based software like WIX to create website designs that not only look great, but serve a purpose to their user. They will be using marketing strategies to understand the purpose of website design to sell products, as well as influence culture. Students will also be learning the building blocks of web language through basic HTML and CSS structure and function. Students will even try their hands at writing code to create a website. This course is for the student who wants to learn basic computer language, as well as the artistic student who wants to design their own high level projects without the coding skills.

0.5 Credit

Elective 9-12

BUS204

Career DiscoveryBUS2050.5 CreditElective 11-12This class is a must for any individual looking to gain an edge on the competition when looking for a job.Students will learn how to create a resume, cover letter, job application, reference page, and thank youletter. Using Career Cruising, students will explore their interests and create an electronic portfolio. Mockinterviews will be conducted and students will have the opportunity to job shadow a work site of interest. Itis strongly suggested that any student wishing to enroll in a School-To-Career program will have completedthis class.

Computer ApplicationsBUS2060.5 CreditElective 9-12In this class students will learn how to use the four main components of Microsoft:Word (wordprocessing), Excel (spreadsheets), Access (database), and PowerPoint (presentations).All students will haveto use these programs at some point in their life whether it is at school, work, or for personal use.This classwill show students how to use these programs in an effective way, in "real life" scenarios.This class

Personal FinanceBUS2070.5 CreditRequired 11-12No other course in the curriculum is more relevant to students or more deeply rooted in the real world than
consumer and personal finance education. Personal Finance enables students to understand enough
economics to make reasoned judgments about the economic issues and policies that students will face as
members of a democratic society. Students will use a computer simulation to find a job, budget and save,
find an apartment, buy a car, shop, choose and balance a checking account, get a credit card, fix your credit,
use online banking, pay your taxes, intro to investing, risk vs. return, diversification, investing for retirement,
buying a home, and insurance.

MarketingBUS2080.5 CreditElective 9-12This class is a must for any individual looking to gain an edge on the competition when looking for a job.Students will learn how to create a resume, cover letter, job application, reference page, and thank youletter. Using Career Cruising, students will explore their interests and create an electronic portfolio. Mockinterviews will be conducted and students will have the opportunity to job shadow a work site of interest. Itis strongly suggested that any student wishing to enroll in a School-To-Career program will have completedthis class. Prerequisite: Introduction to Business. Dual Credit: 11-12

Accounting provides an understanding of the basic elements and concepts of double entry accounting systems. Accounting is the basis for any college career or where a major in business is concerned. Students will learn the accounting equation, the accounting cycle, journal entries, posting to different ledgers, end-of-period fiscal period reports, payroll systems, banking activities, taxes, uncollectible accounts, depreciation, inventories and notes and interest for various types of businesses including sole proprietorship and partnerships. This is a required course for all Business majors in the UW System. **Dual Credit:** 11-12

Advanced AccountingBUS302/3031.0 CreditElective 11-12Accounting is the planning, keeping, analyzing, and interpreting of financial records for a particular
business. This course will examine in more detail the financial aspect of a business. This course will build
on the knowledge gained in Accounting I and provide a solid understanding of corporate accounting
practices. You'll be able to analyze transactions and prepare various corporate financial reports. You'll also
gain practical experience working with Departmentalized Accounting, Accounting Control Systems,
Accounting Adjustments, Management Accounting, and Cost Accounting. One accounting practice set will
be done during this class. Dual Credit: 11-12

Sports & Entertainment Mng.BUS2090.5 CreditElective 10-12In this class students will use a computer simulation to run a professional football franchise. While running
the simulation students will have to choose the best city to start a franchise in, market the franchise, obtain
sponsorships, set ticket prices, staff all areas of the business, choose the correct promotions week-to-week,
and earn a profit. Other management topics covered include: leadership, finance, product management,
people management, information management, and legal and ethical issues. Lectures are pre-recorded
which allows more class time for discussion and time to work on assignments and projects.Prerequisite: Introduction to Business

EntrepreneurshipBUS2100.5 CreditElective 11-12Students in Entrepreneurship will understand the procedures and techniques of owning and running a
business. Business topics students will explore include: Business in a Global Economy, Business Organization
and Management, and Business Operations and Technology. Students will gain an understanding of the role
an entrepreneur has in the economy. A business plan will be created by all students allowing them to
investigate the rewards and pitfalls of operating their own business. Any individual thinking about a career
in business should be enrolled in this class. Prerequisite: Introduction to BusinessNOTE: Qualified juniors and seniors may receive college credit for this class. Credits transfer to all UW
System Universities and over 200 nationally. If taken for college credit, cost is \$300.

Computer App. & Game ProgrammingCMP2010.5 CreditElective 9-12Do you enjoy playing video games? Have you ever wondered how they work, or been interested in making
your own? Learn simple block based coding skills, and use MIT based programing tools to create your own
games and animations. Students will get to "plug and play" to understand the functions of code. They will
work on independent projects that will test their skills, and bring out their creativity.

Introduction to Information Technology CMP202 0.5 Credit Elective 9-12 A career in the computing and informational technology continues to grow at a rapid rate. Learn the basics with this introduction to the world of information technology. This course takes a hands-on approach to show how a computer works on the inside, and the concepts that drive our technologies. Students will work towards a basic understanding of computer hardware, software, data collection, networking and code. Students will investigate the internal components of a computer to learn the physical structure and the functionality of each in device order to describe how a computer works, and communicates with other devices through local wired and wireless networks. Students will research careers that are available in the tech field, as well as understand the modern concept of computer security. Computer Hardware Fundamentals 1CMP2030.5 CreditElective 11-12Students in Computer Hardware Fundamentals Level 1 will learn the terms, concepts and function of personal
computers, both as stand-alone devices and as networked components. Students will demonstrate
knowledge, proper function, and use of computer internal and external components, system configuration,
data backup, virus protection, command line and simple networks. this course can help students prepare for
CompTIA's A+ Certification exams. NOTE: This course is aligned with the NTC IT Academy. Students who
successfully complete CMP204 and then enroll in the IT Academy will not have to retake this course.Dual Credit: 11-12

Computer Hardware Fundamentals 2CMP2030.5 CreditElective 11-12Students in Computer Hardware Fundamentals Level 2 will learn advanced PC operating system structure,
features and use. Explore in depth hard drive management, file sharing and command line. Helps learner
prepare for CompTIA's A+ Certification exams. NOTE: This course is aligned with the NTC IT Academy.
Students who successfully complete CMP204 and then enroll in the IT Academy will not have to retake this
course. Dual Credit: 11-12

SCHOOL TO CAREER

Marathon High School's School to Career Program is your chance to learn and earn during your junior and senior year. The School to Career Program provides the opportunity for students to combine their academic instruction with work-based learning experience. Students will earn an hourly wage while learning from a skilled professional. These programs help students determine if this is a good career for them to pursue after high school while gaining work experience and building their professional network.

Important Program Notes: Students enrolled in the School to Career Program must also be enrolled in a course related to their School to Career area. Students are responsible to obtain and maintain their work experience throughout their participation in the School to Career Program. Students must maintain passing grades and excellent attendance to remain in the program. Failure to abide by the above will result in dismissal from the program.

Work StudyCTE2021.0 CreditElective 11-12This is an opportunity for students who work at worksites not related to the areas of study offered in the YAProgram or may not reach the required hours for the YA Program or for a student looking to complete onlyone semester of work. Students must complete a minimum of 10-15 hours per week and be taking relatedcoursework.

Teacher AidCTE2011.0 CreditElective 11-12The Student Aid program provides students the opportunity to assist teachers at MAES, MVA or St. Mary's
with various tasks related to classroom activities. This opportunity is only available during school hours, and
within the school building. A valid WI Driver's License and Proof of Insurance are required.Prerequisite: Teacher Aid Application (unpaid position)

Youth Apprenticeship

The YA program provides students with occupational and hands-on experience in an effort to expose/confirm career interests. The program is designed around a course sequence that provides students an opportunity to begin preparing for a career while still in high school. Students who participate in YA are required to take concurrent coursework that connects to the program area.

The standard Youth Apprenticeship model is a two-year program requiring a minimum of 900 hours of paid work experience and four semesters of related classroom instruction based on statewide, industrydeveloped skills standards, using a state developed curriculum, which leads to a Certificate of Occupational Proficiency. The 900 hours may be achieved through a minimum of 10 hours weekly the first year and 15, the second and/or include summer employment while enrolled as an apprentice. Two-year apprenticeships are available beginning the junior year.

In addition, youth apprentices may choose to enroll in a one-year Level I program where they must complete a minimum of 450 hours of paid work-based learning while they are in the program. At least 250 hours of the required minimum work-based learning time must take place when related classes are being held, so that classroom instruction can be integrated with the work site training. Level I apprentices may begin at either the junior or senior year, depending upon the program area. Students successfully completing a Level One program will receive a Certificate of Recognition.

ENGLISH 4.0 Credits Required for Graduation

				Levels	evels	
Course Name	Credit	Course #	9	10	11	12
English 9 - <i>Required</i>	1.0/year	ENG9A/9B	Х			
English 10 - Required	1.0/year	ENG10A/10B		X		
English 11	1.0/year	ENG11A/11B			Х	
English 12	1.0/year	ENG12A/12B				Х
Advanced Placement English	1.0/year	ENGAPA/APB			Х	Х
Business Issues & Communication	0.5/sem	ENG102	Х	Х	Х	Х
CAPP English 101	0.75/sem	ENG901				Х
Oral Communication	0.5/sem	ENG902				Х

<u>Students are required to earn four (4) credits of English for graduation.</u> Ninth and tenth grade English is required of all students. In grades 11 and 12 students are given a choice of regular English, Advanced Placement and/or CAPP English.

English 9ENG9A/9B1.0 CreditRequired 9Students will develop basic skills in reading, writing, speaking, listening, and viewing, with an emphasis on
vocabulary development, literary devices, expository writing, grammar, usage, and mechanics. Integrated,
theme-centered units include short stories, novels, plays, poetry, and non-fiction. Writing workshops
emphasize the writing process in composing expository, narrative, and descriptive essays. Students are
required to teach grade-level proficiency in basic, language art skills.1.0 CreditRequired 9

English 10ENG10A/10B1.0 CreditRequired 10Students will study the writers and major themes that represent the culture and ideas of the American
people. The focus is on the process by which American Literature has developed and matured from the
eighteenth through the twenty-first centuries. Students will analyze a selection of American Literature: both
non-fiction (essays and narratives) and fiction (poetry, short stories, drama, and a minimum of four novels).
In addition, they will engage in extensive vocabulary development, essay writing and oral presentation
activities to demonstrate grade-appropriate proficiency in the five basic skills of reading, writing, speaking,
listening, and viewing.

English 11ENG11A/11B1.0 CreditRequired/Elective 11Students will collaborate to become self-directed learners as they read and respond to foster a deeper
understanding of the human experience. They will collect, analyze, and cite specific evidence to formulate
questions, construct arguments, make decisions, and change thinking. Units include: Reading and
Responding to Narrative Texts, Informative / Explanatory Essays, Reading and Responding to Informative
Texts, Reading Fictionalized Memoirs , and writing a Biography,1.0 CreditRequired/Elective 11

Advanced Placement LiteratureENGAPA/APB1.0 CreditRequired/Elective 11-12Advanced Placement Literature & Composition is a full-year, college-level English class for students gifted
with superior aptitude for interpreting literature, writing about literature, and discussion perceptions,
meaning, structure, and language. Students enrolled in AP English are encouraged to take the College Board
AP exam in the spring, which may qualify them to earn up to 5 college credits. The exam is not mandatory.
Summer reading is required. This course must be taken as a full-year course. This course is accredited
through the College Board.

Requirements: Written Exam, "B" Average in English courses, teacher recommendation.

English 12ENG12A/12B1.0 CreditRequired/Elective 12Students will become self-directed learners using a variety of thinking strategies to analyze, understand, and
create text for personal enrichment, inquiry, and problem solving. Units include: Writing Informative /
Explanatory Essays, Reading and Responding to Informational Texts, Social Awareness of Current Events,
Timeless Topics in Literature, Connecting Timeless Topics to the Constitution, The U.S. Constitution: The
Core of Change, and Reading & Writing Science Fiction.

Business Issues & CommunicationENG1020.5 CreditElective 9-12Do you plan on going to college, technical school, and/or plan on communicating with others? If you
answered yes (and everyone should have), then you should take this course! Students will recognize and
apply the characteristics of effective communication and collaboration. Specific skills practiced and assessed
include speaking and listening skills in one-to-one, group, mass, and public communication. Communication
projects including interviews, meetings, panels, and various types of public speeches, as well as use of
electronic communication and media

CAPP College English 101ENG9010.75 CreditElective 12A writing-based Inquiry Seminar is a writing course in which students focus on a specific topic/question
chosen by the instructor. It will help students strengthen their writing, reading, and thinking skills within an
academic context that will prepare them for their future college work. Written work counts for
approximately 80% of your grade. All WBIS courses must include a research-writing component.NOTE: Qualified juniors and seniors may receive college credit for this class. Credits transfer to all UW
System Universities and over 200 nationally. Note: If taken for college credit, cost is \$300.

Oral CommunicationENG9020.5 CreditElective 12This course introduces students to communication in interpersonal, small group, and public speaking
settings. Course topics include the foundations of communication (perception, language, nonverbal
communication), interpersonal communication, small group communication, public speaking, and
interviewing. Students will study communication skills, understand the communication choices they can
make, and evaluate the consequences of those choices.0.5 CreditElective 12

MATHEMATICS 3.0 Credits Required for Graduation

				Levels		
Course Name	Credit	Course #	9	10	11	12
Pre-Algebra	1.0/year	MTH1A/1B	Х			
Algebra 1	1.0/year	MTH2A/2B	Х	Х		
Geometry	1.0/year	MTH3A/3B	Х	Х	Х	Х
Algebra 2	1.0/year	MTH4A/4B		Х	Х	Х
Statistics	0.5/sem	MTH8B		Х	Х	Х
Pre-Calculus	1.0/year	MTH5A/5B			Х	Х
AP Calculus AB	1.0/year	MTH6A/6B				Х
Financial Math	1.0/year	MTH7A/7B			Х	Х

<u>Students are required to earn three (3) credits of Mathematics for graduation.</u> Please note that all UW four year schools require Algebra, Geometry and Algebra II at a minimum.

Pre-AlgebraMTH1A/1B1.0 CreditElective 9-10Pre-Algebra reinforces arithmetic skills, developing the pre-algebra concepts of variable recognition, signed
numbers, formulas, and single variable equations. Students will be introduced to algebraic symbolism,
simplifying expressions, solutions to elementary equations, and the graphic representations associated with
variables.

Algebra 1MTH2A/2B1.0 CreditElective 9-10Algebra 1 is primarily for 9th grade students, but may be taken by upperclassmen. The curriculum includes
the topics of the language of algebra, the real number system, linear functions, polynomials, factoring,
algebraic fractions and functions, systems of equations, quadratic equations, and the solution of equations
and inequalities.

GeometryMTH3A/3B1.0 CreditElective 9-12This course develops principles of logical reasoning through the study of geometric figures, diagrams, and
relationships. Algebraic and graphical problem-solving methods are applied to such topics as triangles,
parallel and perpendicular lines, proofs, and constructions. Two and three dimensional geometric figures
are studied. Algebraic and graphical problem-solving methods are applied to such topics as quadrilaterals,
circles, area, volume, and trigonometry. Prerequisite: Algebra I

Algebra 2MTH4A/4B1.0 CreditElective 10-12The purpose of Algebra II is to reinforce and expand on the concepts of Algebra I. Topics to be covered are
open sentences in one variable; systems of linear equations; polynomials and factoring; rational
expressions; topics of relations, functions, and function transformations; irrational numbers and quadratic
equations; exponential functions and logarithms; and matrices. Prerequisite: Algebra 1 and Geometry

StatisticsMTH8B0.5 CreditElective 10-12This course develops principles of data analysis and probability. Descriptive and inferential statistical
methods are investigated along with elements of probability. Algebraic and graphical problem solving
techniques are applied to data sets and probability situations. Statistical procedures involving
interpretation, prediction, and modeling are studied. A graphing calculator is required (TI-83, 84 or
equivalent). Prerequisite: Algebra 1

Pre-CalculusMTH5A/5B1.0 CreditElective 11-12Pre-calculus is offered to students who plan to enter technical fields such as engineering, science, research,
and mathematics. The course reviews many Algebra II topics in greater depth with emphasis on graphing
and solving linear and higher order equations, systems and inequalities. Other topics include conic sections,
logarithmic functions, inverse relationships and the complex number system. The first semester serves as a
complete course in introductory trigonometry with attention given to many other topics including polar
coordinates, limits, sequences, series, and matrices. A graphing calculator is required (Ti-83, 84, or
equivalent). Prerequisite: Algebra 2

AP Calculus ABMTH6A/6B1.0 CreditElective 12AP Calculus is intended for students planning to enter highly technical fields such as math, science, business,
medicine and/or engineering. The course will give an introduction to the field of Calculus with a focus
placed on limits, derivatives and integrals. A primary focus of the second semester will be preparation for
the Advanced Placement Calculus AB exam. A graphing calculator is required (TI 83, 84 or equivalent).
Students may earn up to 5 college credits by passing the Advanced Placement exam. This course is
accredited through the College Board. Prerequisite: Pre-Calculus

Financial MathMTH7A/7B1.0 CreditElective 11-12In this course students will learn to use mathematics effectively as a tool in their personal and businesslives. Students will apply mathematical concepts relating to: wages, tax statements, banking, credit cards,loans, insurance and investments, and budgets. Other mathematical skills that will be covered include:decimals, fractions, percentages, and measurements.

NOTE: Counts toward MHS graduation requirement but does not meet UW System Math requirements

MUSIC							
			Grade Levels				
Course Name	Credit	Course #	9	10	11	12	
Band	1.0/year	MUS1A/1B	Х	Х	Х	Х	
Marathon Singers	1.0/year	MUS2A/2B	Х	Х	Х	Х	
Concert Choir	1.0/year	MUS3A/3B	Х	Х	Х	Х	

Band

MUS1A/1B

3

1.0 Credit

Elective 9-12

Band is open to student's grade 9-12 with or without previous instruction in playing band instruments. Band is geared towards music performance in many different areas- as a group, small groups or individually. Students will learn performance techniques on their specific instrument as well music theory and history as applied to pieces studied. Students who take band are expected to play in concert band, marching band, and pep band. Lessons and solo and ensemble performance are also required.

ATTENDANCE AT ALL PERFORMANCES IS MANDATORY.

Marathon SingersMUS2A/2B1.0 CreditElective 9-12Marathon Singers is an auditioned group of vocalists interested in singing a variety of upper-level music.Selections may come from genres such as pop, jazz, gospel, or arrangements done by the director and/orstudents. Marathon Singers consists of strong vocalists with a music theory background or the willingness tolearn more about music theory to increase musicianship and quality of performance. A minimum of oneperformance outside of the school day will be required per semester. Additional performances andopportunities will also be available. Interested students should sign up for the course and plan to audition atthe start of the fall semester when final selections for the ensemble will be made. Special auditions may beheld for the second semester at the director's discretion.Prerequisite: Student must audition in the springsemester. Special auditions may be held for the second semester at the director's discretion.

ATTENDANCE AT ALL PERFORMANCES IS MANDATORY.

Concert Choir	MUS3A/3B	1.0 Credit	Elective 9-12
Concert choir is open to all stude	ents' grades 9-12. An audition i	is not required to participa	ate, however each
individual must complete a non-	graded skills assessment with t	the director at the start of	f the school year.
Students will focus on learning th	he basics of vocal technique, si	ight-reading, and musiciar	nship within a choir.
Lessons and solo and ensemble p	performances are required. Th	e choir will perform a min	imum of once per
quarter hosting two concerts and	d singing at other school or co	mmunity events.	

ATTENDANCE AT ALL PERFORMANCES IS MANDATORY.

PHYSICAL EDUCATION 1.5 Credits Required for Graduation

1.5	cicuits incigui						
				Grade	e Levels		
Course Name	Credit	Course #	9	10	11	12	
Physical Education 9 - Required	0.5/sem	PED900	Х				
Health – <i>Required</i>	0.5/sem	PED901	Х				
Lifetime Fitness	0.5/sem	PED100		Х	Х	Х	
Advanced Strength & Conditioning	0.5/sem	PED200		Х	Х	Х	

Physical Education credits are not factored into a students GPA. Students must take and earn a physical education credit in grades 9, 10 & 11.

Physical Education 9PED9000.5 CreditRequired 9Students will participate in a variety of activities which will include the following: Wellness Center, Team &Individual Sports, Adventure Education & Team Building, Swimming and Fitness Assessments. The contentfocus of this course is in the Five Components of Fitness, which include Muscular Strength, MuscularEndurance, Body Composition, Flexibility and Cardiovascular Endurance.

Health 9PED9010.5 CreditRequired 9All Students in 9th grade will receive a health education class instructed by certified staff. A sampling of
topics include: social, emotional and physical health which addresses personality development, stress
management, emotional problems, the human body and its systems, nutrition, weight control, CPR and first
aid. In addition, a unit of sex education/human reproduction and Acquired Immune Deficiency (AIDS) will be
taught. In this unit, students will be instructed in areas of: 1) male and female anatomy; 2) the reproductive
system; 3) contraception; 4) ways to prevent contacting sexually transmitted diseases. For more information
on the class or curriculum you may contact Curt Miller or the school office at 443-2226.

Lifetime FitnessPED1000.5 CreditElective 10-12Students will participate in a variety of activities which will include the following: Wellness Center, Team &
Individual Sports, Elementary School Partnership and Fitness Assessments. The content focus of this course
is related to the F.I.T.T. principle as well as developing leadership and mentoring skills through the MAES
partnership. Prerequisite: Physical Education 9

Advanced Strength & ConditioningPED2000.5 CreditElective 10-12Students enrolled in this course will utilize the Wellness Center multiple days per week, as well as
participate in functional fitness activities outside of the Wellness Center. Focal points of this course include
Muscular Strength & Endurance, Speed & Agility, Cardiovascular Fitness and Flexibility. All students will
either use the Bigger, Faster, Stronger program, or create an individualized strength & conditioning program
to use on a weekly basis. Prerequisite: Physical Education 9

SCIENCE 3.0 Credits Required for Graduation

			Grade Leve			ls	
Course Name	Credit	Course #	9	10	11	12	
General Science 9 - Required	1.0/year	SCI1A/1B	X				
Biology 10 - Required	1.0/year	SCI2A/2B		X			
General Biology 10	1.0/year	SCI6A/6B		Х			
Chemistry	1.0/year	SCI4A/4B		Х	Х	Х	
Advanced Biology	1.0/year	SCI3A/3B			Х	Х	
Advanced Chemistry	1.0/year	SCI5A/5B			Х	Х	
Physics	1.0/year	SCI8A/8B			Х	Х	
AP Physics	1.0/year	SCI9A/9B			Х	Х	
Integrated Science	1.0/year	SCI7A/7B			Х	Х	
Medical Terminology	0.75/sem	SCI900			Х	Х	

<u>Students are required to earn three (3) credits of Science for graduation from Marathon High School.</u> The UW System requires 3-4 credits including a lab science.

General Science 9SCI1A/1B1.0 CreditRequired 9This course deals with matter and energy. It sets the stage for future courses in biology, chemistry, and
physics. Lab work, with data gatherings and interpretation is stressed throughout the course. The nature of
science, measurement, elements, basic chemistry and organic chemistry, forces, work, energy, beginning
physics, and introduction to earth science will all be studied.

Biology 10SCI2A/2B1.0 CreditRequired 10Laboratory oriented, this course relies on the use of scientific methods for problem solving. Majorcomponents studied include: cell structure and function, genetics and inheritance, survey of the 5 kingdomsand ecological & energy relationships.

General Biology 10SCI6A/6B1.0 CreditElective 10Coursework is the same as Biology; however, material is covered at a slightly slower pace and not as indepth.

ChemistrySCI4A/4B1.0 CreditElective 10-12Chemistry deals with the nature of matter, its classification, makeup and changes. Laboratory work is
involved and specific topics include writing and balancing equations, atomic structure, the Periodic Table,
chemical bonding, solids and liquids, crystals, gases, solutions, reaction rates and chemical equilibrium.Algebra I should be completed prior to taking this course. Prerequisite: Algebra 1

Advanced BiologySCI3A/3B1.0 CreditElective 11-12This course explores the areas of biology in more detail. Topics covered include Biotechnology, selected
areas of human anatomy and physiology, environmental awareness, and small introductions to botany and
microbiology. Designed for those who plan to attend college, this course is especially beneficial to those
considering the fields of science or medicine.Elective 11-12

Prerequisite: "C" or higher in Biology and/or "B" or higher in General Biology.

Integrated ScienceSCI7A/7B1.0 CreditElective 11-12This theme taught course will cover all three science disciplines and will incorporate life science, physical
science and earth science principles. This course will have a variety of hands-on activities and will be project
based to engage all types of learners.

PhysicsSCI8A/8B1.0 CreditElective 11-12Physics is the study of energy. The course will have units based upon motion, forces, energy, fluid
mechanics, sound, circular motion and the study of wave motion as it relates to sound and light, and
electricity. This math based course is ideal for anyone seeking a degree in engineering or any other science
field. Prerequisite: Completion of Geometry and Algebra IIElective 11-12

AP PhysicsSCI9A/9B1.0 CreditElective 11-12AP Physics is an algebra-based, introductory, college-level physics course. It explores Newtonian mechanics
(including rotational motion), work, energy, power, mechanical waves and sound, and circuits – in other
words, fundamental physics concepts. Prerequisite: Completion of Geometry and Algebra II. Pre-Calculus in
progress or completed.

Advanced ChemistrySCI5A/5B1.0 CreditElective 11-12This course will be a more in depth study of inorganic chemistry, with the emphasis being placed on hands-
on laboratory activities. Students will learn through a variety of college level laboratory activities and work
with fire-based activities that include flame testing and electron ejection.Prerequisite: "C" or higher in Chemistry.

Medical TerminologySCI9000.75 CreditElective 11-12Focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practiceformation, analysis and reconstruction of terms. Emphasis on spelling, definition and pronunciation.Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as wellas systemic and surgical terminology. Dual Credit: 11-12

SOCIAL STUDIES
3.0 Credits Required for Graduation

3.0 Cred	lits Require	d for Graduation				
				Grade	Grade Levels	
Course Name	Credit	Course #	9	10	11	12
US History: Great Wars - Required	0.5/sem	SOC101	Х			
US History: World Superpowers - Required	0.5/sem	SOC102	Х			
Area Studies	0.5/sem	SOC103	Х	Х		
Great Civilizations	0.5/sem	SOC104	Х	Х	Х	Х
European History	0.5/sem	SOC201		Х	Х	Х
American Government - Required	0.5/sem	SOC202		Х	Х	Х
Consumer Economics	0.5/sem	SOC301			Х	Х
Introduction to Law	0.5/sem	SOC302			Х	Х
World War II	0.5/sem	SOC303			Х	Х
Vietnam	0.5/sem	SOC304			Х	Х
Social Problems	0.5/sem	SOC305			Х	Х
AP US Government & Politics	0.5/sem	SOC306			Х	Х
Sociology 101	0.75/sem	SOC900			Х	Х
Psychology 201	0.75/sem	SOC901			Х	Х

Students are required to earn three (3) credits of Social Studies for graduation Marathon High School. Students in grade 9 are required to take US History: Great Wars & World Superpowers. All students are required to take American Government in order to graduate.

US History: Great WarsSOC1010.5 CreditRequired 9Investigate changes in American society brought on by immigration, the Industrial Age, and the GreatDepression, as well as the government's response to these hardships on its citizens. Study the military anddiplomatic philosophies behind imperialism and the creation of an American empire. Scrutinize thecircumstances behind the start of both wars and the US entry into both conflicts, along with the concordsthat concluded these disputes.

US History: World Superpowers SOC102 0.5 Credit Required 9 Witness the contemporary events that have shaped the world you live in. Examine the causes behind the Cold War and the various conflicts spawned by this battle of ideologies from: Korea, Vietnam, and Afghanistan. Domestically, examine the Civil Rights Movement and the great leaders within it, the peace movement of the 60's, and the mistrust of government created by the Watergate scandal of the 70's. The latter units of this course prompt you to analyze the political and social events of your own lifetime and consider how they have influenced current events.

Area StudiesSOC1030.5 CreditElective 9-10The five themes of geography are location, place, interaction between people and their environment,
movement, and region. These themes are applied to study the unique physical and human characteristics
of various culture regions of the world: Western Europe, Eastern Europe, the Middle East and North Africa,
Latin America, and Asia. The issue of globalization is also examined.0.5 CreditElective 9-10

Great CivilizationsSOC1040.5 CreditElective 9-12Investigate the development of the earliest civilizations in Mesopotamia and the Indus and Yangtze RiverValleys. Explore key contributions made to Western civilization by the Mediterranean Civilizations of Greeceand Rome. Examine the impact on Eastern and Western civilizations made by such religions andphilosophies as: Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity, Zoroaster, and Islam, aswell as the effects they have on the world views of their followers.

European HistorySOC2010.5 CreditElective 10-12Study European history from the Middle Ages through the Age of Imperialism. Investigate the impact of
actions taken during the Crusades and the Inquisition. Study the growth of learning and experimentation in
the arts and sciences during the Renaissance. Evaluate the variances in political philosophy that evolved
during the Enlightenment and Industrial Revolution. Determine the precipitators of imperialism and
European domination of the world, as well as the movements that arose to end it.

American GovernmentSOC2020.5 CreditRequired 10-12This course acquaints students with national, state and local government. The philosophical foundation of
our system of government is studied, as well as the Constitution and each branch of the national
government. Other topics include political parties and elections, and civil rights and liberties. Students are
encouraged to be well-informed on current events and political issues.

Consumer EconomicsSOC3010.5 CreditElective 11-12Economics directly affects everyone.Understanding the interrelationship between individual economicdecision making and the operation of the economy as a whole is essential to functioning effectively in oureconomic system.Fundamental economic principles, micro-and macro-economic concepts, andinternational economic concepts are studied.Specific topics include the functioning of markets, the role ofgovernment, monetary policy, taxes and fiscal policy, and measuring economic growth.

Introduction to LawSOC3020.5 CreditElective 11-12The historical origins and the development of our justice system and its institutions are examined. Civil and
criminal justice topics are studied, including civil litigation, contract law, family law, criminal procedure, law
enforcement and corrections. It is recommended that American Government be taken first.NOTE: Available every other year.Not offered 2019-2020.

World War IISOC3030.5 CreditElective 11-12Very few wars can be defined in terms of "good vs. evil". World War II is one such war. The global conflictfrom 1939 to 1945 shook the world and had lasting reverberations that we are dealing with to this day. Itwas the most widespread (fought across 6 of the 7 continents), costly, and destructive war in the history ofthe plant. Guided reading assignments – along with research studies and class projects – will take studentsfrom Hitler's rise to power in 1933 to the surrender of the Japanese in 1945. Students will delve into a hostof topics along the way including: Major foreign and domestic events of WWI (E.g., Battle of the Bulge, theHolocaust, Okinawa, Iwo Jima, Hiroshima, Normandy, D-Day, & Pearl Harbor); Axis and Allied powers; LifeUnder German occupation; Technological advancements; The role of women during the war; Espionage andwar crimes & Cultural stereotypes (then and now). Actual historical documents, diaries/memoirs,newspaper accounts, propaganda pieces and films about World War II will be examined, as well as theirrelative credibility as a source. Prerequisite: "B" average in Social Studies courses.

Social ProblemsSOC3050.5 CreditElective 11-12Methods of social science research are learned and applied to problems of contemporary American society
and the global community. Social problems such as demographic change, poverty, crime and deviance, and
changing social institutions are examined from a sociological perspective.NOTE: Offered every other year. Not available 2020-2021.

SOC304

0.5 Credit

Elective 11-12

The Vietnam War has had a tremendous impact on our nation. From our citizens, to our universities, to our military, and to our government, none emerged the same from this turbulent event. This war was called the "first televised war" because of the breadth of the correspondents who covered it and the depth of our nation's involvement in watching the nightly news to get the latest information. This course is intended to help a student who wasn't even born when the last American helicopter took off from Saigon understand why people say "I hope it's not another Vietnam." The student will learn how we became involved in Vietnam, what American policies were, what life was like for the military in Vietnam, what was happening on the home front, the cultural changes which occurred in the United States and Wisconsin and finally, the consequences and lessons of war. There will be extensive reading, research, and projects for the course in addition to analysis of films and television clips. **Prerequisite:** "B" average in Social Studies courses.

AP US Government & PoliticsSOC3060.5 CreditElective 11-12The purpose of this class is to prepare the student to take the Advanced Placement exam for USGovernment and Politics. In order to be successful, students must be able to analyze and evaluate the
institutions, principles, beliefs, and groups that constitute our political system. Students may qualify for 3
college credits in Political Science, based on the AP exam results. It is required that American Government
be taken before the AP Course.

Prerequisite: American Government.

Vietnam

Introduction to Sociology 101SOC9010.75 CreditElective 11-12Introduction to the basic concepts, theories and methods of Sociology, emphasizing the significance of the
self and culture, social process and organization, and forces of social stability and change.NOTE: Early College Credit Program. Students will earn 3.0 college credits from the UW System upon
successful completion.

Introduction to Psychology 201SOC9020.75 CreditElective 11-12Survey of major content areas in Psychology. Topics include research methodology, learning, memory,
cognition, biological psychology, sensation, perception, motivation, emotion, development, personality,
psychopathology, and social psychology.

NOTE: Early College Credit Program. Students will earn 3.0 college credits from the UW System upon successful completion.

	ST	EM				
SCIENCE * 1	FECHNOLOGY	* ENGINEERING * N	ЛАТН			
				Grade	Levels	
Course Name	Credit	Course #	9	10	11	12
Woods 1	0.5/sem	TEC101	Х	Х	Х	Х
Woods 2	0.5/sem	TEC102	Х	Х	Х	Х
Woods 3	0.5/sem	TEC103		Х	Х	Х
Metals 1	0.5/sem	TEC201	Х	Х	Х	Х
Metals 2	0.5/sem	TEC202	Х	Х	Х	Х
Metals 3	0.5/sem	TEC203		Х	Х	Х
Introduction to Drafting	0.5/sem	TEC301		Х	Х	Х
Architectural Drafting	0. 5/sem	TEC302		Х	Х	Х
Welding	0.5/sem	TEC308	Х	Х	Х	Х
Welding 2	0.5/sem	TEC309	Х	Х	Х	Х
Photoshop Tech	0.5/sem	TEC304			Х	Х
Small Engines	0.5/sem	TEC305	Х	Х	Х	Х
Construction Trades	0.5/sem	TEC306			Х	Х
Manufacturing	0.5/sem	TEC307	Х	Х	Х	Х
	PROJECT LEAD T	HE WAY COURSES				
Introduction to Engineering & Design	1.0/year	TEC4A/4B	Х	Х	Х	Х
Principles of Engineering	1.0/year	TEC5A/5B		Х	Х	Х
Digital Electronics	1.0/year	TEC6A/6B		Х	Х	Х
	COMPUTER	TECHNOLOGY				
AP Computer Science A	1.0/year	CMP204/205		Х	Х	Х

TECHNOLOGY COURSES

0.5 Credit

Woods 1

TEC101

Elective 9-12

Woods I will give students a general look at the woodworking industry, materials, and processing equipment. Students will research, plan, and create one or more beginner-level woodworking projects. Projects must gain prior approval before students can build their projects. Safe and proper use of the machines will also be taught before students begin work. Beginning level woodworking projects will be made at no cost to the students. Students will use this opportunity to learn various techniques and create a variety of simple woodworking projects to increase their skills.

Woods 2TEC1020.5 CreditElective 9-12This course will build on concepts learned in Woods I. Students will research, plan, and create one or more
intermediate-level woodworking projects. Projects must gain prior approval before students can build their
projects. Safe and proper use of the machines will also be taught before students begin work. The price
range of the projects will vary from project to project. Students will need to pay "in-full" before they may
start work on their projects. Prerequisite: Woods 1

Woods 3TEC1030.5 CreditElective 10-12This course will build on concepts learned in previous woodworking courses. Students will research, plan,
and create one or more advanced woodworking projects. Projects must gain prior approval before students
can build their projects. Safe and proper use of the machines will also be taught before students begin
work. The price range of the projects will vary from project to project. Students will need to pay "in-full"
before they may start work on their projects. Prerequisite: Woods 1 & 2.Dual Credit: 10-12

Metals 1TEC2010.5 CreditElective 9-12This class is designed to give a broad overview of the Metals Industry including materials and processes used
production techniques, career possibilities and general skill development in a number of areas. These areas
include SAFETY, blueprint reading, arc welding, oxyacetylene welding, MIG (wire feed) welding, TIG welding,
sheet metal fabrication, metal lathe, and milling machine.

Metals 2TEC2020.5 CreditElective 9-12This class is intended to build on the skills learned and developed in METALS PROCESSES 1. Areas and
activities that students will cover are similar to the ones in METALS PROCESSES 1. Class will be designed
around a student selected project or activity. Prerequisite: Metals 1

Metals 3TEC2030.5 CreditElective 10-12In this course, students will expand on the skills and knowledge they have gained in their previousmetalworking courses. Metals III students must use class time to design, plan, and build their own projectideas throughout the semester. Students will be responsible for covering the associated project costs.Prerequisite: Metals 1 & 2. Dual Credit: 11-12

Introduction to DraftingTEC3010.5 CreditElective 10-12All technical drawings are a language. Every language has a common set of rules to follow. This course will
introduce students to the language of drafting through a variety of drafting exercises on paper and move
into AutoCAD. This course will enhance a student's ability to read, interpret, and create prints that meet
industrial standards and specifications. Drafting courses are great for anyone in artistic and/or technical
careers. Dual Credit: 10-12

Architectural DraftingTEC3020.5 CreditElective 10-12This class builds on the knowledge gained in the Intro to Drafting course.Students will increase theirAutoCAD speed, skills, and accuracy by creating prints used in house plans.Through this experience,students will also gain knowledge about building codes and designing homes with both form and function.Prerequisite:Introduction to Drafting.Dual Credit:11-12

Photoshop TechTEC3040.5 CreditElective 11-12This course will explore and exploit the power of Adobe Photoshop to create, adjust, and manipulate
graphic arts related content. Students will learn how to manage image manipulation techniques,
color/tonal correction, resolution, and output issues. Advanced work in this course will open more
opportunities for students to utilize Photoshop in combination with the laser engraver, plasma cam, cnc
router, and more to create a wide-variety of projects out an array of materials. Dual Credit: 11-12

Small EnginesTEC3050.5 CreditElective 9-122 and 4 cycle gasoline engine theory of operation; fuel, ignition, cooling, and lubrication systems; tune-up
and troubleshooting techniques; repair procedures; power transmission devices drivetrains clutches;
hydraulic and pneumatic concepts. Students will disassemble a Kohler engine and a Briggs & Stratton engine
provided by the school and will also have the opportunity to work on their own engines.

Construction TradesTEC3060.5 CreditElective 11-12Construction Trades prepares students with lab experiences consistent with entry-level employability skillsin masonry, carpentry, electrical, plumbing, and heating/ventilation/air-conditioning (HVAC) fields. Courseparticipants will have the benefit of gaining expertise from local contractors that are looking to hire. Theknowledge and abilities learned in this course can be applied to both residential and commercialconstruction trades. Prerequisite: Metals I, II or Woods I, II

Manufacturing

Manufacturing students will learn about how manufacturing is the use of machines, tools and labor to produce goods for use or sale. The class will try out several different types of manufacturing first hand by designing and creating small projects. The class will brainstorm a list of projects ideas and then pick one. They will then decide as a class what type of manufacturing process they should use to make it. Then the students will go through the building process evaluating what the advantages as well as disadvantages are for that type of manufacturing.

0.5 Credit

WeldingTEC3080.5 CreditElective 9-12This course will explore several different welding processes including SMAW, GMAW, GTAW.Students willlearn how to read welding plans and symbols, understand the makeup of different metals and troubleshootdifferent welding issues.Advanced work in this course will be learning how to weld different joints includingpipe and in unique positions including overhead and vertical like you would find out in industry.

Welding 2TEC3090.5 CreditElective 9-12This course will advance your skills in several different welding processes including SMAW, GMAW, andGTAW. Students will read welding plans and symbols to weld up several different joints and projects. Studentswill work on out of position welding, stainless steel welding, as well as pipe welding. Each student will also getto try several welding tests that they would experience on a job site. Welders form local businesses will bebrought in to share tips and tricks to better the student's abilities. Prerequisite: Welding 1

PROJECT LEAD THE WAYIntroduction to EngineeringTEC4A/4B1.0 CreditElective 9-12In this course students will learn basic engineering concepts. Students will study 4 units in this course all of
which contain a different major concept. Some of those concepts that we will be taking a look at include:
employment within the engineering career, communication, design process, sketching, and three-
dimensional modeling. The students will also get a chance to design a puzzle cube, a train engine with their
own designed train car and reverse engineer a selected product using AutoDesk Inventor software.

Principles of EngineeringTEC5A/5B1.0 CreditElective 10-12This course exposes students to some of the major concepts that they will encounter in a postsecondary
engineering course of study. Students have an opportunity to investigate engineering and/or high tech
career. POE gives students the opportunity to develop skills and understanding of course concepts through
activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB
learning challenges students to continually hone their interpersonal skills, creative abilities, and problem-
solving skills based upon engineering concepts. It also allows students to develop strategies to enable and
direct their own learning, which is the ultimate goal of education. *Sophomores may join with consent of
instructor. Prerequisite: Introduction to Engineering, Algebra 1 recommended

Digital ElectronicsTEC6A/6B1.0 CreditElective 10-12Unit 1 Direct Current Circuit Analysis. Units and conversion, resistors, circuit fundamentals, schematics,
Ohm's Law, series circuits, parallel circuits, series-parallel circuits, test instruments and usage,
troubleshooting, voltage dividers, switches and other controls. Unit 2: Alternating Current Circuit
Analysis. Inductance, capacitance, inductive reactance, capacitive reactance, RCL circuits, resonant circuits,
Meters and instruments, oscilloscope operation and analysis of waveforms. Unit 3: Semiconductors,
Semiconductor fundamentals, diodes, silicon controlled rectifiers, triads, junction transistors, field effect
transistors, amplifiers, power supplies, and voltage regulation. Unit 4: Digital Circuits. Logic gates,
integrated circuits, combinational logic circuits, sequential logic circuits, timer circuits, flip-flops, counters,
and adders. Prerequisite: Introduction to Engineering & Design

Elective 9-12

COMPUTER TECHNOLOGY COURSES

AP Computer Science ACMP204/2051.0 CreditElective 10-12This project based course will give students an introduction into computational thinking and leave them
with a better understanding of the role computation can play in solving problems related to ANY field or
major. Students will learn to write small programs that will allow them to accomplish useful goals.

WORLD LANGUAGES

		ANGUAGES				
				Levels	els	
Course Name	Credit	Course #	9	10	11	12
Spanish 1	1.0/year	FOR1A/1B	Х	Х	Х	Х
Spanish 2	1.0/year	FOR2A/2B	Х	Х	Х	Х
Spanish 3	1.0/year	FOR3A/3B		Х	Х	Х
Spanish 4	1.0/year	FOR4A/4B			Х	Х
Spanish 5	1.0/year	FOR5A/5B				Х

The introductory level of a world language is the foundation for all succeeding levels. It is highly recommended that a student pass any course with a grade of C- or better before proceeding to the next level. <u>Please note</u>, the University of Wisconsin-Madison requires applicants to complete two years of a single foreign language. Also, with consistent high interest in language learning and a great work ethic, it is possible for students to take the UW Spanish placement test, successfully complete the Spanish college course into which they place (B or better) and earn retroactive college credits (4-12+ credits). Please consult the specific requirements, etc. on your desired university's website.

Spanish 1FOR1A/1B1.0 CreditElective 9-12This is an introductory course for students with little (exploratory) or no prior experience. Upon successful
completion, students will be able to communicate about themselves and others and express basic needs
and wants in the present via brief conversations and reading and writing basic paragraphs in the target
language.

Spanish 2FOR2A/2B1.0 CreditElective 9-12This class will continue to develop skills acquired in level I and pursue more advanced expectations of
grammar and vocabulary. By year end, students will be able to expand their communication skills to involve
speaking, reading, writing and listening in the past and future.Prerequisite: Spanish 1 or passing grade on
8th grade Spanish exam + teacher recommendation.

Spanish 3FOR3A/3B1.0 CreditElective 10-12Spanish III is an intermediate level world language class. Students will be able to strengthen skills and
vocabulary from levels 1 and 2 while enriching their abilities with a variety of verb tenses. Longer and more
detailed communication in the target language is the goal. Prerequisite: Spanish 1-2

Spanish 4FOR4A/4B1.0 CreditElective 11-12Students enrolled in Spanish 4 are seriously considering pursuing further language study. Emphasis is on
day to day application of previously learned material along with using critical thinking skills in the target
language. Prerequisite: Spanish 1-3

Spanish 5FOR5A/5B1.0 CreditElective 12Students enrolled in Spanish 5 are also seriously considering pursuing further language study.Emphasis ison day to day application of previously learned material along with using critical thinking skills in the targetlanguage.Prerequisite: Spanish 1-4

Due to varied enrollment and scheduling logistics, most years the upper level Spanish classes are combined into an "Advanced Spanish" class. The curriculum rotates so that the topics/themes change year to year, but emphasis remains on application of skills while differentiation is employed to maximize individualized learning.

Spanish for Native Speakers is available within the Advanced Spanish class as well. This allows heritage learners to work on writing and reading skills while exploring different cultures as well as their own.