

Career and Technical Education Michael Berry Career Center 2022-2023 Scheduling Guide

Training the Students of Today
For the Jobs of Tomorrow



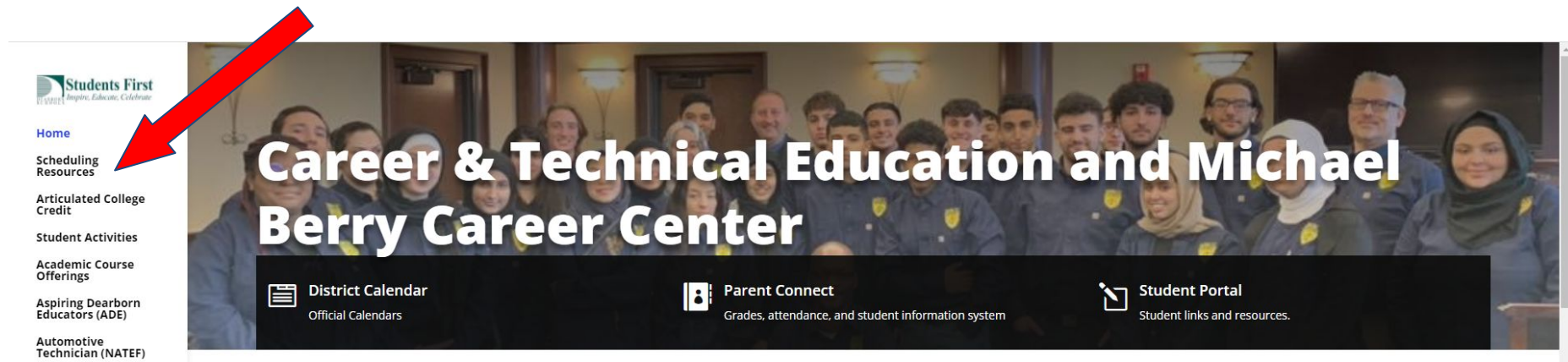
**THE ACADEMIES
OF DEARBORN**
MY PURPOSE • MY PATH • MY FUTURE



<http://berry.dearbornschools.org>

Visit the CTE and MBCC website for:

- Additional Information about our programs.
- The Presentation used in this video (with active links)
- Translated materials for non-English speakers

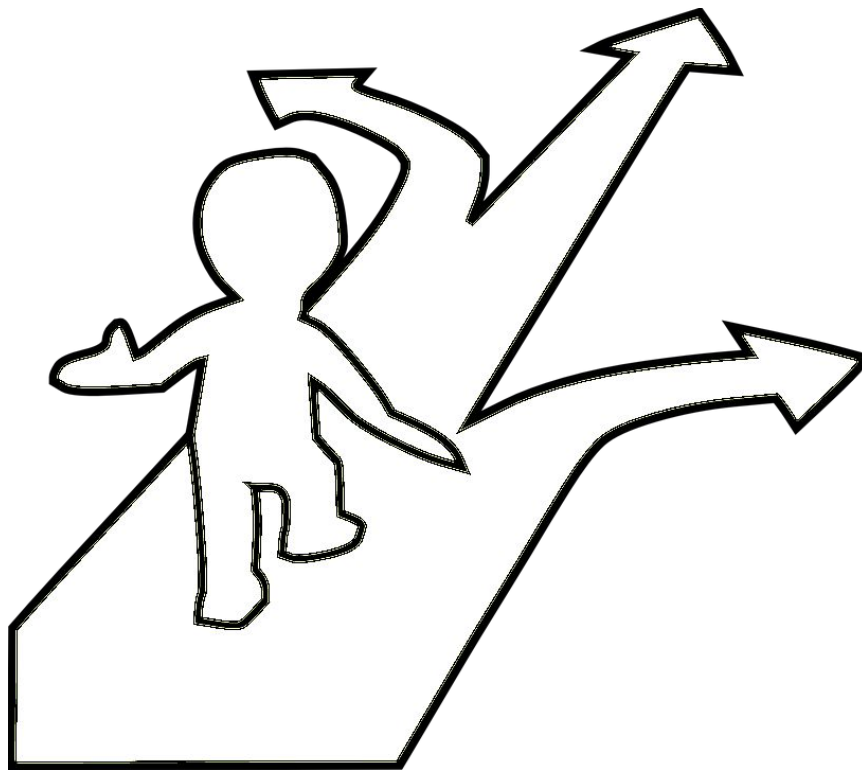


Two Essential Scheduling Questions:

- What class(es) **CAN** I take?
- What class(es) **SHOULD** I take?



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Michigan Merit Curriculum

(aka “Graduation Requirements”)

	9 Fall	9 Spring	10 Fall	10 Spring	11 Fall	11 Spring	12 Fall	12 Spring
English	LA 1	LA 2	LA 3	LA 4	LA 5	LA 6	LA 7	LA 8
Math	Algebra 1	Algebra 1	Algebra 2	Algebra 2	Geometry	Geometry	“Senior Math”	“Senior Math”
Science	Biology	Biology	Chemistry or Physics	Chemistry of Physics	3 rd Science	3 rd Science	ELECTIVE	ELECTIVE
Social	World Civ	World Civ	US History	US History	Econ / Gov	Econ / Gov	ELECTIVE	ELECTIVE
Other	World Lang	World Lang	World Lang	World Lang	ELECTIVE	ELECTIVE	ELECTIVE	ELECTIVE
Other	PE	Health	ELECTIVE	ELECTIVE	ELECTIVE	ELECTIVE	ELECTIVE	ELECTIVE



Michigan Merit Curriculum

- Courses **REQUIRED** for graduation define what a high school graduate looks like in Michigan. They make students all the **SAME**.
- High School **ELECTIVE** courses and programs allow us to students to pursue individualized knowledge and skills relevant to their career plans. they make students all **UNIQUE**.



Course Selection and Career Plans

Imagine a student who wants to prepare for a career in the Medical / Health Science Field





High School Graduate Student #1

	9 Fall	9 Spring	10 Fall	10 Spring	11 Fall	11 Spring	12 Fall	12 Spring
English	LA 1	LA 2	LA 3	LA 4	LA 5	LA 6	LA 7	LA 8
Math	Algebra 1	Algebra 1	Algebra 2	Algebra 2	Geometry	Geometry	"Senior Math"	"Senior Math"
Science	Biology	Biology	Chemistry or Physics	Chemistry of Physics	3 rd Science	3 rd Science	Intro Marketing	Keyboarding
Social	World Civ	World Civ	US History	US History	US Economics	US Government	Sewing 1	Intro to Piano
Other	World Lang	World Lang	World Lang	World Lang	Power Sports	Welding 1	Dual Enroll Weather	Dual Enroll Rock-n-Roll History
Other	PE	Health	Fundamental Foods	Wood Tech 1	Creative Writing	Intro to Business	Psychology	Co Op McDonalds



High School Graduate with a PLAN Student #2

	9 Fall	9 Spring	10 Fall	10 Spring	11 Fall	11 Spring	12 Fall	12 Spring
English	LA 1	LA 2	LA 3	LA 4	LA 5	LA 6	LA 7	LA 8
Math	Algebra 1	Algebra 1	Algebra 2	Algebra 2	Geometry	Geometry	"Senior Math"	"Senior Math"
Science	Biology	Biology	Chemistry	Chemistry	Anatomy & Physiology	Anatomy & Physiology	Adv Allied Clinical	Adv Allied Clinical
Social	World Civ	World Civ	US History	US History	US Economics	US Government	Adv Allied Clinical	Adv Allied Clinical
Other	World Lang	World Lang	Allied Health	Allied Health	Medical Assist	Medical Assist	Dual Enroll First Aid	Dual Enroll Med Term
Other	PE	Health	Allied Health	Allied Health	Medical Assist	Medical Assist	CoOp Medical Assistant	CoOp Medical Assistant

Who Gets The Job?



Student #1

- High School Diploma
- 16 unrelated, introductory electives
- 3-6 General Education College Credits
- Entry Level Work Experience



Student #2

- High School Diploma
- 3 Years of Health Science Classes
- Health Science Knowledge & Skills
- 15+ College Credits (Health Science)
- Work Based Learning in Health Science
- 4+ Industry Recognized Certificates
- CTE Scholarship Opportunities
- Student Leadership/Competition (HOSA)

What is an Educational Development Plan?

- A list of all the courses a student plans to take in High School, created with input from you, your parents and your counselor.
 - High School Academic and Elective Classes
 - CTE programs, Advanced Electives and AP Classes
 - College Dual Enrollment and Work Based Learning (CoOp)
- Class choices should be based on
 - Student **Aptitude** (YouScience): What are you GOOD at?
 - Student **Interest**: What do you like to DO?
 - Student **Achievement**: Are you taking the courses needed to be successful in this field?
- Allow students to progress through
 - Career **Awareness**: What are my options after High School?
 - Career **Exploration**: What is this career/job like? Is it a good fit?
 - Career **Preparation**: Required basic technical knowledge and skills.
 - Career **Training**: Specialized knowledge, skills and certifications.
- ***Education with a Purpose!***

Education With A Purpose

Students should have the opportunity to progress through Introductory, intermediate and advanced learning in high school

9th Grade

10th Grade

11th Grade

12th Grade

**Career
Awareness and
Exploration**

**Foundation
Knowledge
and Skills**

**Intermediate
Knowledge and
Skills Training**

**Advanced
Knowledge and
Skills Training**

9th Grade Academy

Academy of Business and Hospitality

Academy of Health Sciences

Academy of Human Services

Academy of Industry, Technology and Innovation



Michigan Merit Curriculum Flexibility

- Students must earn 23 credits and pass all required classes of the Michigan Merit Curriculum to graduate high school.
- Students who ***complete an approved CTE program*** may use that program to meet some/all of the following requirements:
 - The third year of science
 - The second year of World Language
 - The VPAA (“Art”) Requirement
 - Computer Applications (selected programs)
 - “Senior” Math (Accounting only)

What is Your PLAN?

- What careers are a good fit? (YouScience)
- What courses/programs will you take? (EDP)
 - Introductory Courses (8th and 9th grade)
 - Intermediate Courses (10th and 11th grade)
 - Advanced Courses (12th grade and college)
- What certificates/certifications do you need?
- What elective, dual enrollment and CoOp options make the most sense for you?

YOUR CERTIFICATIONS

Certifications show employers that you have the skills and knowledge they need.



OPPORTUNITIES

Explore industry opportunities that align with your certifications, aptitudes, and interests.

WELCOME BACK!

We've done the math - and you have a lot to offer! Let's explore the mix of talents and interest that makes you, you!



Interpersonal Style



Talents



Work Approach

[VIEW MORE](#)

BEST FIT CAREERS



Explore over 500 awesome options to help you imagine what you can be.

[VIEW MORE](#)

COLLEGES



Search technical, community, and 4-

DESCRIBING YOU

Find personal words and phrases that allow you to describe your talent to others.



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What is Career and Technical Education (CTE)?

- Multi-course, multi-year programs (full year commitment)
- Provide a rich **and rigorous** learning experience in addition to classroom work
 - **HANDS ON SKILLS TRAINING** in classroom laboratories.
 - **WORK BASED LEARNING**- Job shadows, career exploration, internships, work and volunteer experiences.
 - **CAREER AND TECHNICAL STUDENT ORGANIZATIONS** - leadership, competition and scholarship opportunities (BPA, DECA, FCCLA, HOSA, SkillsUSA).
 - Chance to earn **COLLEGE CREDIT** for High School classes (Articulated Credit)
 - Industry-recognized **CERTIFICATIONS** and **CREDENTIALS**

Michael Berry Career Center Programs

- MBCC Elective programs are FREE to all Dearborn 10th, 11th and 12th grade students
- Bus transportation is provided (11th/12th may drive)
- **3 hours** at MBCC (1-2-3rd or 4-5-6th hours)
 - Two hours of CTE classes
 - One Academic or Elective Class
 - 10th Grade US History
 - 11th Grade US Econ / US Gov (or AP Econ)
 - 12th Grade ELA 7 & 8 or ELECTIVE
- All programs are a **year long** commitment

MBCC CTE Programs

- **Students can attend MBCC programs AND...**
 - ...Have Dual Enrollment Classes...
 - ...Have a CoOp Job in their Schedule...
 - ...Be in Collegiate Academy and MBCC ...
 - ...Be part of DCMST and MBCC...
 - ...Qualify for the Otto Rowen Scholarship...
 - ...Qualify for the MBCC Honor Cord...

Secrets to Success at MBCC (and In Life)

1. Be There, On Time, Every Day
2. Turn In All Your Work, Make it The Best You Can Do
3. If you need help, ASK (But Make Sure it's not #1 or #2 Above

Current CTE Programs

berry.dearbornschools.org

- **Academy of Business and Hospitality**
 - [Culinary Arts](#)
 - [Dearborn Business Academy](#)
- **Academy of Health Sciences**
 - [Allied Health](#)
- **Academy of Human Service**
 - [Aspiring Dearborn Educators \(ADE\) - Teacher Cadet](#)
 - [Criminal Justice and Law Careers](#)
- **Academy of Industry, Technology and Innovation**
 - [Automotive Technician](#)
 - [Computer Programming/Programmer](#)
 - [Construction Trades](#)
 - [Digital/Multimedia](#)
 - [Welding Technician](#)



Career and Technical Education Michael Berry Career Center

Exploring Our Programs

Find the right path for you!



Academy of Business and Hospitality



Dearborn Business Academy

This program allows students with a strong interest in Small Business Management and Entrepreneurship to complete all three business program and prepare to enter the business workforce, seek a college certificate/degree in business and/or start their own business upon graduation.

1st Year

2nd Year

3rd Year

Marketing Path

Intro
Marketing

Market
Management

Adv Marketing
- School Store

Adv Marketing -
Social Media
Marketing

Management Path

Bus Tech
Mgmt

Bus Tech
Mgmt

Adv Bus Tech -
Entrepreneurship

Adv Bus Tech -
Entrepreneurship

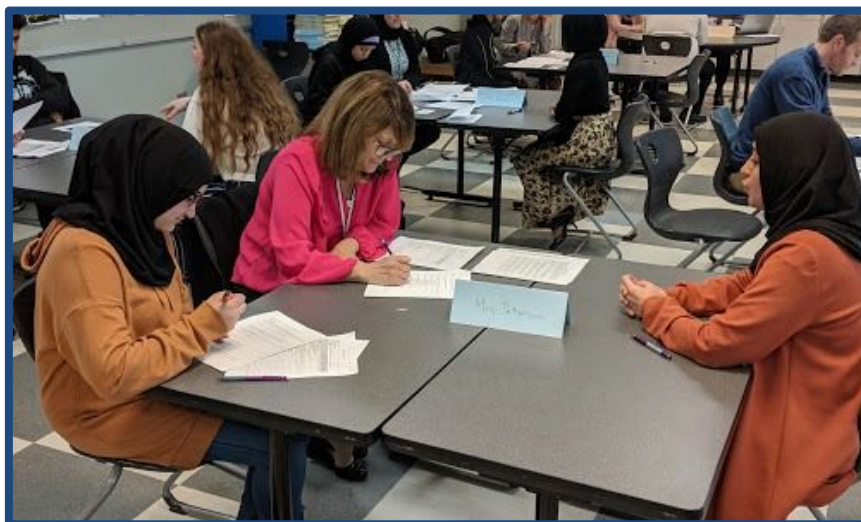
Accounting/Finance Path

Accounting 1

Accounting 2

Accounting 3

Accounting 4



PROGRAM OF STUDY – DEARBORN BUSINESS ACADEMY (DBA)

Academy: Business and Hospitality

Career Pathways: Business, Finance and Marketing

CIP: 52.0299, 52.0800, 52.1999

PSN: 20680 (Business), 20704 (Finance/Accounting), 20795 (Marketing)

This program allows students with a strong interest in Small Business Management and Entrepreneurship to complete programs in Accounting & Finance, Business Management & Technology and Marketing/Sales. These courses help students prepare to enter the business workforce, seek a college certificate/degree in business and/or start their own business upon graduation. Each program is an hour per day for a full year, with an second year advanced programs. The Dearborn Business Academy allows students to complete all three of these programs for a comprehensive and complete preparation for a business career.

	High School Michigan Merit Curriculum				Henry Ford College General Business Associate in Business	
	9	10	11	12	13	14
Language Arts	ELA 1 ELA 2	ELA 3 ELA 4	ELA 5 ELA 6	ELA 7 ELA 8	Winter: ENG 131: Introduction to College Writing	Fail: ENG 132: College Writing and Research
Mathematics	Algebra I	Algebra II	Geometry	*Senior Math	Fail: BMA 110: Business Math	
Social Studies	World Civilizations	US History	US Economics US Government			
Science	Biology	Chemistry	*Physics			
Other Required	World Language 1	*World Language 2	*Visual, Performing, Applied Art		Fail: CIS 100: Introduction to Information Technology General Education Credits (3 gr) Winter: Two Electives 100-level or higher (6or)	Winter: Electives 100-level or higher (13 gr)
	Physical Education Health					
Career Program (Students will complete three programs/tracks concurrently)	Accounting Track:		Accounting 1 Accounting 2	Accounting 3 Accounting 4	Fail: BBA 131: Introduction to Business BAC 132: Introduction to Managerial Accounting Winter: MGT 230 Principles of Management Business Elective (3 gr)	Fail: One Business Elective (3or) BAC 131: Introduction to Financial Accounting BAC 231: Asset Accounting Business Elective (3 gr)
	Management Track:	Bus Tech & Management	Adv Bus Tech - Entrepreneurship			
	Marketing Track:	Intro Marketing Market Management		Adv Marketing – School Store Adv Marketing – Social Media		
Recommended Elective(s)	Intro to Business		Design Concepts 2D Design Concepts 3D	AP Microeconomics AP Macroeconomics Dual Enrollment: CIS 100: Introduction to Information Technology BBA 131 Introduction to Business	BBA-NCE Business Administration Credit (1or)	
Certifications and Credentials		Microsoft Office Specialist (MOS)	NOCTI Entrepreneurship EverFi Financial	MimicSocial Certificate		General Business Associates in Business Degree

Courses Required to Complete CTE Program

Optional (Advanced) CTE Courses

***Required Courses that may be waived by completing a CTE Program**

High School Program Completers may receive credit for these college courses (Articulated Credit)

Hospitality Studies (Culinary Arts)

This program focuses on preparing students for management and operations within the Hospitality industry. In addition to learning about food and cooking, students run an on-site restaurant where they practice all aspects of restaurant operation, event planning and catering.

1st Year

Hospitality Studies I (2hrs)

2nd/3rd Year

Hospitality Studies II (2 hrs)
Hospitality Studies II (3 hours)
*recommended

Optional Electives

2nd Year of Hosp Stud II
MBCC Marketing Courses
CoOp in Food Service
Dual Enroll Culinary Arts



PROGRAM OF STUDY – CULINARY ARTS

Academy: Business and Hospitality

Career Pathways: Cooking and Culinary Arts

CIP: 12.0500

PSN: 20133

This program focuses on preparing students for management, marketing, and operation of restaurant and other food services; lodging, attractions, recreation events, and travel related services. Skills acquired in this program include operational and management skills; event planning and organization; customer service; aspects of the travel industry; food preparation; time management; communication; decision making; project management and entrepreneurship.

	High School Michigan Merit Curriculum				Henry Ford College Culinary Arts Associate in Applied Science	
	9	10	11	12	13	14
Language Arts	ELA 1 ELA 2	ELA 3 ELA 4	ELA 5 ELA 6	ELA 7 ELA 8	Winter: ENG 131: Intro to College Writing Summer: ENG 132 College Writing and Research	
Mathematics	Algebra I	Algebra II	Geometry	Senior Math	Fall: MATH 105: Mathematics for Food Service Careers	
Social Studies	World Civilizations	US History	US Economics US Government			Fall: POLS 131: Introduction to American Government and Political Science
Science	Biology	Chemistry	*Physics			
Other Required	World Language 1	*World Language 2	*Visual, Performing, Applied Art Computer Applications			
	Physical Education Health					
Career Program		Hospitality Studies I	Hospitality Studies II (2 hrs)	CTE Work Based Learning Hospitality Studies II (3hrs)	Fall: HOSP 105: Applied Food Service Sanitation HOSP 220: Introduction to Baking and Cooking HOSP 224: Culinary Skills and Nutritional Cooking HOSP 226: Fundamentals of Baking Winter: HOSP 211: Introduction to Hospitality Industry HOSP 340: A la Carte and Buffet Cookery Summer: HOSP 290: CoOp in Hospitality Hospitality Support Courses (5 cr)	Fall: HOSP 251: Dining Room Service and Operations HOSP 310 Hospitality Support and Leadership HOSP 331: Modern and European Pastry Winter: HOSP 220: Food and Nutrition HOSP 341: Garde Manger and Menu Planning HOSP 360: Hospitality Purchasing HOSP 370L Food and Beverage Controls
Recommended Elective(s)	Fundamental Foods Food For Life (Recommended Prerequisites)			Dual Enrollment: HOSP 105: Applied Food Service Sanitation CIS 100: Introduction to Information Technology		
Certifications and Credentials		OSHA 10-hour General Industry CPR/AED/First Aid ServeSafe Safe Food Handler	ServeSafe Manager ProStart?			Culinary Arts Associates in Applied Science

Courses Required to Complete CTE Program

Optional (Advanced) CTE Courses

*Required Courses that may be waived by completing a CTE Program

High School Program Completers may receive credit for these college courses (Articulated Credit)

Academy of Health Science



Allied Health Careers

This program provides students the needed skills in health careers. Basic skills common to every health occupation are covered in Allied Health (1st year). Students may then choose to learn specialized knowledge, skills and certifications specific to their career plans in Advanced Allied Health

1st Year

Allied Health (2 hrs)

2nd/3rd Year

Advanced Allied Health (2hrs)

- Medical Assisting
- Dental Assisting
- Sports Medicine
- Clinical (Seniors Only)
- Pharmacy Tech (Seniors Only) - 1hr

Suggested Electives

-2nd Advanced Course

- Anatomy & Physiology
- ER Response Train
(advanced 1st Aid)
- CoOp in Health Field
- Dual Enroll HFC Health
Science Program



PROGRAM OF STUDY – HEALTH SCIENCES

Academy: Health Sciences

Career Pathway: Health Sciences (General Medical Pathway)

CIP: 51.0000

PSN: 18689

This program provides students the needed skills in health careers which focus primarily on changing the health status of the patient over time. Careers and course work deal directly with patients and may also provide care, treatment, counseling, and health education information. The General Medical Pathway is intended for students who are sure they want to enter the health/medical industry and want to be prepared for advanced study and certification after high school. These options might include medical school, nursing school or many technical fields in healthcare.

	High School Michigan Merit Curriculum				Henry Ford College Pre-Nursing Associate in Science* <small>(*Many similar options available at the college that align to the various Advanced Allied Health Courses)</small>	
	9	10	11	12	13	14
Language Arts	ELA 1 ELA 2	ELA 3 ELA 4	ELA 5 ELA 6	ELA 7 ELA 8	Fall: ENG 131: Introduction to College Writing	Fall: ENG 132: College Writing and Research
Mathematics	Algebra I	Algebra II	Geometry	Senior Math	Winter: MATH 115: College Algebra	Winter: MATH 141: Introduction to Statistics
Social Studies	World Civilizations	US History	US Economics US Government		Winter: PSY 131: Introduction to Psychology	Winter: SOC 131: Introduction to Sociology
Science	Biology	Chemistry	*Physics		Summer: BIO 131: Introduction to Biology Fall: BIO 233: Anatomy & Physiology I	Fall: BIO 234: Anatomy & Physiology II CHEM 131: Principles of Chemistry Winter: BIO 251: Microbiology CHEM 132: Principles of Organic and Biological Chemistry
Other Required	World Language 1	*World Language 2	*Visual, Performing, Applied Art Computer Applications		Fall: HCS 131: Computers in Healthcare	Fall: HPE 253: Nutrition for the Professional Winter: SPC 131: Fundamentals of Speaking
	Physical Education Health					
Career Program		Allied Health	Adv Allied Health – Medical Assisting	Adv Allied Health - Clinical	Fall: HFEC Nursing Admissions Test (NAT)	Winter: NCS 112: Competency Evaluated Nursing Assistant
Alternate Health Science Pathways			Adv Allied Health – Sports Med Adv Allied Health – Dental Assisting	Adv Allied Health – Pharmacy Technician		
Recommended Elective(s)			Psychology Sociology Anatomy & Physiology	Dual Enrollment: HCS 131: Computers in Healthcare PSY 131: Introduction to Psychology	HCS 103: Employment Skills for Health Careers (1 sr) HCS 124: Basic Health Assessment (1 sr)	
Certifications and Credentials		OSHA 10-hour General Industry (Healthcare) CPR/AED/First Aid	Certified Clinical Medical Assistant (CCMA)	Certified EKG Technician (CET) Board Certified Pharmacy Tech (PTCB)		Pre-Nursing Associates in Science Degree

Courses Required to Complete CTE Program (Students must take at least one year of Advanced Allied Health)
Optional (Advanced) CTE Courses—students may take two (or more!) Advanced Allied Health Courses
*Required Courses that may be waived by completing a CTE Program
High School Program Completers may receive credit for these college courses (Articulated Credit)

Academy of Human Services



Criminal Justice and Law Careers

This program prepares students for careers in the Criminal Justice and Legal fields including First Responder (Police, Fire, EMT), Corrections, Court Officers and Legal Fields (Clerk, Paralegal, Lawyer, etc.). Students will explore all aspects of the Criminal Justice systems and receive hands on training on the various tools and technology used in the fields

1st Year

Crim Just: Public Safety & Law
Crim Just Tools & Techniques

2nd Year

Adv Crim Just: Laws & Ethics
Adv Crim Just: Investigations & Reports

Forensic Science (Full Year)

Suggested Electives

- ER Response Training
(Advanced CPR/1st Aid)
- Psychology/Sociology
- AP US Government



PROGRAM OF STUDY – CRIMINAL JUSTICE AND LAW CAREERS

Academy: Human Services:

Career Pathway: Public Safety and Protective Services

CIP: 43.0100

PSN: 20858

This program prepares students for careers in the law enforcement, corrections and the legal system in including First Responders (Police, Fire, EMS) and the Court System (Judge, Lawyer, Paralegal Aide, Clerk, etc.).

Knowledge and classroom skills will include history and ethics of the legal system, forensic investigations and reporting, the tools and techniques used by law enforcement and physical and mental conditioning required to

serve in the public safety sector.

	High School Michigan Merit Curriculum				Henry Ford College Criminal Justice – Law Enforcement Associate in Arts	
	9	10	11	12	13	14
Language Arts	ELA 1 ELA 2	ELA 3 ELA 4	ELA 5 ELA 6	ELA 7 ELA 8	Fall: ENG 131: Intro to College Writing Winter: ENG 132 College Writing and Research	
Mathematics	Algebra I	Algebra II	Geometry	Senior Math		Fall: One Math Elective (4 <u>cr</u>)
Social Studies	World Civilizations	US History	US Economics US Government			
Science	Biology	Chemistry	Forensic Science (taken concurrently with <u>Adv Crim Just</u>)		Winter: One Science Elective (3 <u>cr</u>)	Fall: Once Science LAB Elective (4 <u>cr</u>)
Other Required	World Language 1	*World Language 2	*Visual, Performing, Applied Art Computer Applications		Fall: SPC 131: Fundamentals of Speaking WR 131: Religious Traditions of the World Winter: PSY 131: Intro to Psychology	Fall: CIS 100: Introduction to Information Technology Winter: One Wellness Degree Requirement (2 <u>cr</u>)
	Physical Education Health					
Career Program		<u>Crim Just: Public Safety & Law</u> <u>Crim Just: Tools & Techniques</u>	<u>Adv Crim Just: Laws & Ethics</u> <u>Adv Crim Just: Investigation & Reports</u>	CTE Work Based Learning Dearborn Police Explorers/Internship (must qualify)	Fall: CRJ 131: Introduction to Law Enforcement and Criminal Justice Winter: CRJ 132: Police Administration CRJ 134: Criminal Investigation	Fall: CRJ 251: Criminal Law Winter: CRJ 252: Criminal Procedure CRJ 285: Topics in Criminal Justice/Law Enforcement Two Criminal Justice Support Electives (6 <u>cr</u>)
Recommended Elective(s)			Psychology Sociology	Dual Enrollment: SPC 131: Fundamentals of Speaking PSY 131: Intro to Psychology	Fall: One Humanities and Fine Art Elective (3 <u>cr</u>)	
Certifications and Credentials		OSHA 10-hour General Industry CPR/AED/First Aid	(TBD)			Criminal Justice – Law Enforcement Associates in Arts Degree

Courses Required to Complete CTE Program

Optional (Advanced) CTE Courses

*Required Courses that may be waived by completing a CTE Program

High School Program Completers may receive credit for these college courses (Articulated Credit)

Aspiring Dearborn Educators (ADE)

This program focuses on general theory and practice of teaching and learning and prepares students for careers in education including childcare, early childhood education, tutoring and coaching. Background knowledge and theory is combined with extensive field experience in the classroom. Students who complete the program may qualify for the Child Care Associates (CDA) or Michigan School Aged Youth Development (MiSAYD) certificates.

1st Year

Child
Development

Child
Guidance

2nd Year

Elementary
Teacher Cadet

Blended Classroom and Field
Experience in Elementary
Classroom as Teacher's Aid

3rd Year

(Optional)
Work Based Learning Placement

600 Hours of Work Experience in a
Daycare or After School Program
required for Certification (CDA)



PROGRAM OF STUDY – ASPIRING DEARBORN EDUCATORS (ADE)

Academy: Human Services:

Career Pathway: Education – General (Teacher Cadet)

CIP: 13.0000

PSN: 20980

This program focuses on general theory and practice of teaching and learning for students interested in pursuing a degree in education and a career in teaching. It includes instruction in the basic principles of educational psychology; the art of teaching; the planning and administration of educational activities; school safety and health issues; and the social foundations of education. Possible areas of concentration include teaching and training, professional support services, administration, and administrative support.]

	High School Michigan Merit Curriculum				Henry Ford College Associate Degree Pre Elementary Education	
	9	10	11	12	13	14
Language Arts	ELA 1 ELA 2	ELA 3 ELA 4	ELA 5 ELA 6	ELA 7 ELA 8	Fall: ENG 131: Intro to College Writing Winter: ENG 132 College Writing and Research	
Mathematics	Algebra I	Algebra II	Geometry	Senior Math	Fall: MATH 121: Mathematics for Elementary Teachers Winter: MATH 221: Mathematics for Elementary Teachers II	Winter: MATH 131: Mathematics for the Modern World
Social Studies	World Civilizations	US History	US Economics US Government		Fall: PSY 131: Introduction to Psychology	Fall: Any non-PSY Social Studies Elective (3or)
Science	Biology	Chemistry	*Physics			Fall: SCI 210: Introduction to Science for Elementary Educators
Other Required	World Language 1	*World Language 2	*Visual, Performing, Applied Art Computer Applications		Fall: CIS 221: Instructional Technology for Educators Winter: HPE 263: Health and Phys Ed for Elementary Teachers	Fall: ART 119: Art Education for Elementary Teachers
	Physical Education Health					
Career Program		Child Development Child Guidance	Elementary Teacher Cadet (2 semesters)	CTE WBL (Classroom Placement before/during/after school to equal 600 hours to qualify for certification)	Fall: EDU 256: Educational Psychology Winter: EDU 260: History and Civics for Elementary Educators	Fall: EDU 250: Humanities and Performing Arts for Educators Winter: EDU 201: Introduction to Education EDU 202: Introduction to Education Practicum EDU 296: Exceptional Child
Recommended Elective(s)			Psychology Sociology	Dual Enrollment: PSY 131 Introduction to Psychology CIS 221: Instructional Technology for Educators	Fall: 100-level of higher elective (3or) Winter: 100-level of higher elective (2or)	
Certifications and Credentials		OSHA 10-hour General Industry Blood Borne Pathogens	CPR/AED/First Aid	Child Development Associate (CDA) Michigan School Age Youth Development (MiSAYD)		Associates Degree in Pre-Elementary Education

Courses Required to Complete CTE Program

Optional (Advanced) CTE Courses

***Required Courses that may be waived by completing this CTE Program**

High School Program Completers may receive credit for these college courses (Articulated Credit)



Academy of Industry, Technology & Innovation



Auto Technician

This instructional program prepares students to engage in the servicing, maintenance, adjustment, and repair of automotive components and systems. It also provides a sequence of learning experiences related to the national Automotive Technicians Education Foundation (NATEF) and repair categories requiring certification. This program may include diesel engine repair. Learning activities in the classroom, laboratory, shop, and actual work setting are combined to provide students the opportunity to become knowledgeable of nomenclature; safety principles and practices; and job entry level skills in disassembling, assembling, inspecting, repairing, and replacing components or systems.

1st Year

Auto Tech 1

Auto Tech 2

2nd Year

Auto Tech 3
Engine
Electrical

Auto Tech 4
Engine
Performance

3rd Year

Auto Tech 5
Brakes and
Steering

Auto Tech 6
Adv Auto
Tech
(optional)



Students who complete Auto Tech 1-2-3-4-5
can take the

**Michigan Mechanics License Exam
and Student ASE Certification Exams**

PROGRAM OF STUDY – AUTOMOTIVE TECHNICIAN (NATEF/ASE)

Academy: Industry, Technology and Innovation:

Career Pathway: Automotive Technician

CIP: 47.0604

PSN: 5822 (FHS) and 18795 (EFHS)

This three year program focuses on preparing students for careers automotive Maintenance and Light Repair It provides a sequence of learning experiences aligned to the National Automotive Technicians Education Foundation (NATEF). Students will prepare to take the Automotive Service Excellence (ASE) examinations and may sit for the Michigan Mechanic's licensing exam upon program completion. Learning activities in the classroom and shop include automotive terminology, safety practices, tool identification and usage, and entry level skills in disassembling, assembling, inspecting, repairing and replacing components of various automotive systems.

	High School Michigan Merit Curriculum				Henry Ford College Automotive Technician Certificate of Achievement (26 credits)	
	9	10	11	12	13	14
Language Arts	ELA 1 ELA 2	ELA 3 ELA 4	ELA 5 ELA 6	ELA 7 ELA 8		
Mathematics	Algebra I	Algebra II	Geometry	Senior Math	Fall: TAMA 120: Industrial Applications of Algebraic Principles	
Social Studies	World Civilizations	US History	US Economics US Government			
Science	Biology	Chemistry	*Physics			
Other Required	World Language 1	*World Language 2	*Visual, Performing, Applied Art Computer Applications			CIMVD 140 Weld Metallurgy (Ferrous Metals) CIMVD 141 Weld Metallurgy (Non-Ferrous Metals)
	Physical Education Health					
Career Program		Auto Tech 1 Auto Tech 2	Auto Engine Elec 3 Auto Engine Perf 4	Auto Brake/Steer 5	Fall: AUTO 100 Internal Combustion Engine AUTO 110 Automotive Electrical Systems	Fall: AUTO 150 Automotive Diagnosis and Engine Evaluation AUTO 160 Automotive Chassis Units
				Adv Auto Tech 6	Spring: AUTO 120 Automotive Fuel Management Systems AUTO 131 Automotive Ignition Systems	Spring: AUTO 224 Automotive Air Conditioning AUTO 237 Computerized Engine/Vehicle Networks, Programming and Security Systems
Recommended Elective(s)			Welding Tech Home Tech Wood Tech 3, 4	Dual Enrollment: AUTO 105: Internal Combustion Engine AUTO 110 Automotive Electrical Systems AUTO 140 Automotive Transmissions	AUTO 101 Automotive Fundamentals	
Certifications and Credentials		S/P2 Safety Certificate	Various S/P2	ASE A1-A8 and G1 Michigan Mechanic's License		Automotive Technician Certificate of Achievement

Courses Required to Complete CTE Program

Optional (Advanced) CTE Courses

***Required Courses that may be waived by completing this CTE Program**

High School Program Completers may receive credit for these college courses (Articulated Credit)



Construction Trades

This program prepares students to apply technical knowledge and skills in the building, inspection, and maintenance of structures and related properties. It includes instruction in carpentry; electrical and power transmission installation; building/construction finishing; management, inspection; lay out; cut, fabrication, ejection, installation, and repair of wooden structures and fixtures using hand and power tools; technical Mathematics and semantics; framing construction materials and selection; job estimating; blueprint reading; foundation and roughing-in; finishing carpentry techniques; and applicable codes and standards.

1st Year

Wood Tech 1

Wood Tech 2

2nd Year

Geometry in Construction

Geometry
(Graduation Requirement)

3rd Year

DS Construction
Wood Tech 3,4,5
Welding Tech
Home Tech
Dual Enroll HFC Construction



Note: Students take
Geometry and
Construction together to
learn how math and
trades work together.

PROGRAM OF STUDY – CONSTRUCTION TRADES

Academy: Industry, Technology and Innovation:

CIP: 46.0000

Career Pathway: Construction Trades

PSN: 20951

This program prepares students for careers in the residential and commercial construction industries. Unique to this program is the integration of the geometry class into the shop projects (and vice versa) to gain a deeper understanding of the use of mathematics and geometry in the workplace. Knowledge and classroom skills will include the building, inspection and maintenance of structures and related properties including carpentry; electrical and power transmission installation; building/construction finishing; project management and inspection; layout, cutting, fabrication, installation and repair of wooden structures using power and hand tools, framing materials and selection, job estimation, blueprint reading, roughing in, finish carpentry, mathematics and measurement and industry codes and standards.

	High School Michigan Merit Curriculum				Henry Ford College Architecture/Construction Technology Associate in Applied Science	
	9	10	11	12	13	14
Language Arts	ELA 1 ELA 2	ELA 3 ELA 4	ELA 5 ELA 6	ELA 7 ELA 8	Spring: ENG-131: Introduction to College Writing (3)	
Mathematics	Algebra I	Algebra II	Geometry	Senior Math	Spring/Summer: MATH-100: Basic Technical Mathematics (3)	
Social Studies	World Civilizations	US History	US Economics US Government			
Science	Biology	Chemistry	*Physics			
Other Required	World Language 1	*World Language 2	*Visual, Performing, Applied Art Computer Applications		Fall: CIS-100: Introduction to Information Technology (3)	Fall: Choose One General Education Class Spring: Choose One General Education Class
	Physical Education Health					
Career Program		Wood Tech 1 Wood Tech 2	Geometry in Construction (Geometry class and Construction Class Together)	Advanced Construction (TBD) CTE Work Based Learning Carpentry Apprenticeship	Fall: BLDA-100: Introduction to AutoCAD (4) BLDA-110: Visual Communications Studio (4) BLDA-120: Introduction to Carpentry (4) Spring: BLDA-130: Introduction to Revit (4) BLDA-140: Construction Systems 1 (4) BLDA-150: Environmental Building Systems (4)	Fall: BLDA-230: Residential Studio (4) BLDA-240: Construction Systems 2 (4) BLDA-250: Surveying & Site Design (4) Spring: BLDA-260: Construction Estimating (4) BLDA-270: Commercial Design Studio (4) BLDA-280: Building Science Capstone (4)
Recommended Elective(s)			Welding Tech Home Tech Wood Tech 3, 4	Dual Enrollment: BLDA-100: Introduction to AutoCAD BLDA-120: Introduction to Carpentry CIS-100: Introduction to Information Technology	Fall: ACT 101- 1 Fundamentals of Architecture (3)	
Certifications and Credentials		OSHA 10-hour General Industry (Construction)	Michigan 60-Hour Pre-Builders License			Architecture/Construction Technology Associates in Applied Science Degree

Courses Required to Complete CTE Program

Optional (Advanced) CTE Courses

***Required Courses that may be waived by completing a CTE Program**

High School Program Completers may receive credit for these college courses (Articulated Credit)

Computer Programming

This program prepares students to apply the knowledge and skills of general computer programming to the solution of specific operational problems and customization requirements presented by individual software and organizational users. It includes training in specific types of software, design, development, and implementation; identifying customer needs; programming tools and techniques; creating codes; testing and validation; the maintenance of computer systems and software; and project management.

1st Year (suggested)

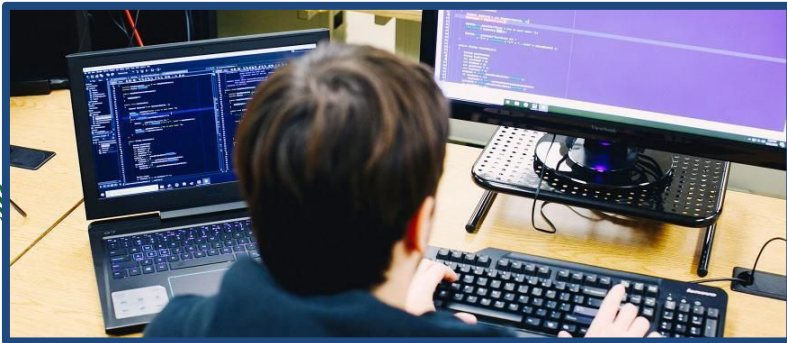
Software Specialist

2nd Year

AP Computer Science Principles

3rd Year

AP Computer Science A (Java)



PROGRAM OF STUDY – COMPUTER PROGRAMMING

Academy: Industry, Technology and Innovation:

Career Pathway: Computer Programming

CIP: 11.0201

PSN: 20705

For students interested in careers in computer science, information technology, programming, network technology, computer systems analyst, cybersecurity and other digital careers. This program prepares students to apply the knowledge and skills of general computer programming to the solution of specific operational problems and customization requirements presented by individual software and organizational users. It includes training in specific types of software, design, development, and implementation; identifying customer needs; programming tools and techniques; creating codes; testing and validation; the maintenance of computer systems and software; and project management.

	High School Michigan Merit Curriculum				Henry Ford College Computer Information Systems Associates in Applied Science	
	9	10	11	12	13	14
Language Arts	ELA 1 ELA 2	ELA 3 ELA 4	ELA 5 ELA 6	ELA 7 ELA 8	Winter: ENG 131: Introduction to College Writing	
Mathematics	Algebra I	Algebra II	Geometry	Senior Math	Fall: CIS 119: Math for Computer Professionals	
Social Studies	World Civilizations	US History	US Economics US Government			
Science	Biology	Chemistry	*Physics			
Other Required	World Language 1	*World Language 2	*Visual, Performing, Applied Art		Summer: One CIS course (not CIS 221 or 223)	Fall: General Education Course(s) (3cr)
	Physical Education Health		*Computer Applications			
Career Program		Software Specialist (recommended prerequisite)	AP Comp Sci Princ	AP Comp Sci A	Fall: CIS 100: Introduction to Information Technology CIS 122: Web Internet Technologies CIS 125: Principles of Programming Logic Winter: CIS 111: SQL for Database Development CIS 129: Introduction to UNIX with Shell Scripting CIS 170: C Programming Summer: CIS 112: Introduction to Networking	Fall: CIS 130: C# Programming CIS 171: Java Programming One Advanced Programming course (3cr) Winter: CIS 294: Software Engineering One Advanced Programming course (3cr)
Recommended Elective(s)	CS Discoveries			Dual Enrollment: CIS 100: Introduction to Information Technology CIS 112: Introduction to Networking		Winter: Electives (10 credits)
Certifications and Credentials		Microsoft Office Specialist (MOS) Adobe Certified Expert (ACE) Microsoft Technology Associate (MTA)	(TBD)	(TBD)		Computer Information Systems Associates Degree in Applied Sciences

Courses Required to Complete CTE Program

Optional (Advanced) CTE Courses

*Required Courses that may be waived by completing this CTE Program

High School Program Completers may receive credit for these college courses (Articulated Credit)

Digital Multimedia

This program prepares students for the varied careers in Design. Students learn a combination of artistic skills and computer skills necessary for these careers. Based on their interests and aptitudes, students may choose to emphasize the art side (Design Concepts) or the technology side (Software Specialist). Either way, the students learn the same knowledge and skills....just in a different context

First Year

Design Concepts 2D

Design Concepts 3D

Second Year

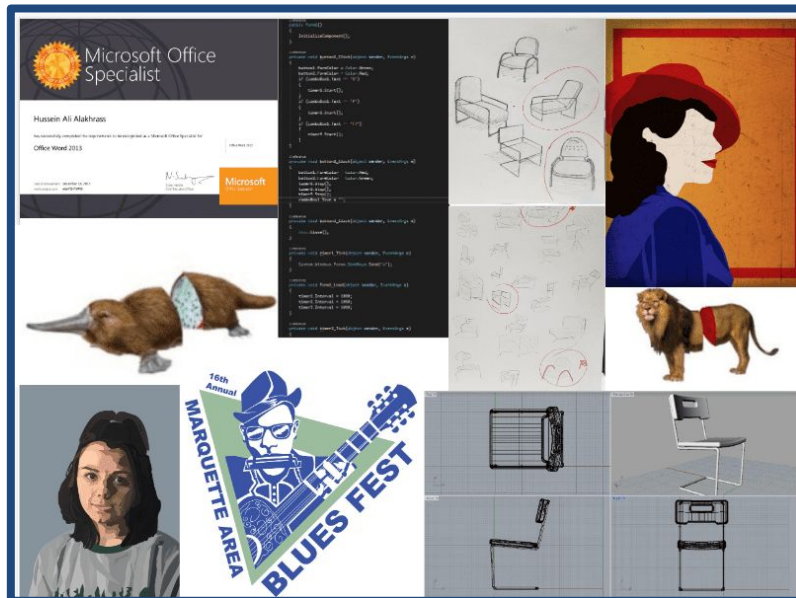
Software Specialist

Third Year

Adv Design Concepts
-or-
Adv Software Specialist

optional elective

AP Computer Science Principles



PROGRAM OF STUDY – DIGITAL MULTIMEDIA AND DESIGN

Academy: Industry, Technology and Innovation:

Career Pathway: Information Technology : Digital/Multimedia

CIP: 11.02801

PSN: 19206

Designed for students with a high level interest in EMERGING TECHNOLOGIES, COMPUTER SCIENCE, and DIGITAL DESIGN. This program combines both the artistic/creative skills used by designers with the computer, network and application skills used by engineers, designers and creative careers. Knowledge and skills development will focus on the design and engineering process as it relates to digital design and production and use a hands-on, interactive and project based curriculum to explore a variety of fine art, software and production skills.

	High School Michigan Merit Curriculum				Henry Ford College Graphic Design Associates in Applied Arts	
	9	10	11	12	13	14
Language Arts	ELA 1 ELA 2	ELA 3 ELA 4	ELA 5 ELA 6	ELA 7 ELA 8	Fall: ENG 131: Introduction to College Writing Winter: ENG 132: College Writing and Research	
Mathematics	Algebra I	Algebra II	Geometry	Senior Math		
Social Studies	World Civilizations	US History	US Economics US Government		Summer: Two Social Studies Electives from Different Disciplines (6 cr)	Winter: PSY 131: Introduction to Psychology
Science	Biology	Chemistry	*Physics			Fall: ATMS 131: Weather and Climate Winter: ASTR 133: Descriptive Astronomy ASTR 133: Introductory Astronomy Laboratory
Other Required	World Language 1	*World Language 2	*Visual, Performing, Applied Art		CIS 126: HTML/CSS Web Programming	
	Physical Education Health					
Career Program		Design Concepts 2D Design Concepts 3D	Software Specialist	Adv. Software Specialist Adv. Design Concepts	Fall: ART 101: Two-Dimensional Design ART 102: Drawing 1 ART 107: Photoshop ART 121 Art History Survey I (Pre-historic to Medieval) Winter: ART 105: Three-Dimensional Design ART 114: Graphic Design Studio 1 ART 130: History of Graphic Design	Fall: ART 122: Art History Survey II ART 165: Typography ART 214: Graphic Design Studio 2 ART 245: Interactive Design Winter: ART 230: Motion Graphics ART 275: Advanced Projects
Recommended Elective(s)	CS Discoveries		AP Comp Sci Princ.	Dual Enrollment: ART 165: Typography CIS 126 HTML/CIS Web Programming	CIS 100: Introduction to Information Technology	
Certifications and Credentials		Adobe Certified Expert (ACE)	Microsoft Office Specialist (MOS) Microsoft Technology Associate (MTA)	(TBD)		Graphic Design Associates in Applied Arts Degree

Courses Required to Complete CTE Program

Optional (Advanced) CTE Courses

***Required Courses that may be waived by completing this CTE Program**

High School Program Completers may receive credit for these college courses (Articulated Credit)

Welding Technician

This program prepares students for careers in Welding, Brazing, Soldering and Fabrication and focuses on the cutting and joining of metals using heat, gas, electric and plasma technologies. Knowledge and hands-on lab training focus on industry safety practices, metal identification and selection, measurement, tool usage and selection, industry standards, blueprint reading, metallurgy and welding processes and standards. Students who complete the Edsel Ford program may qualify to take the American Welding Society (AWS) SENSE Certification Exam. Detailed Course Descriptions Follow.

Year 1

Welding Tech 1

Welding Tech 2

Year 2

Dual Enroll, Welding
Technician Certification at
Henry Ford College



PROGRAM OF STUDY – WELDING TECHNICIAN

Academy: Industry, Technology and Innovation:

Career Pathway: Welding, Brazing and Soldering

CIP: 48.0508

PSN: 20363

This program prepares students for careers in Welding, Brazing, Soldering and Fabrication and focuses on the cutting and joining of metals using heat, gas, electric and plasma technologies. Knowledge and hands-on lab training focus on industry safety practices, metal identification and selection, measurement, tool usage and selection, industry standards, blueprint reading, metallurgy and welding processes and standards. The program focuses on preparing students to enter the Students who complete the Edsel Ford program may qualify to take the American Welding Society (AWS) SENSE Certification Exam

	High School Michigan Merit Curriculum				Henry Ford College Welding Technology Basic Certificate of Achievement (21 Cr)	
	9	10	11	12	13	14
Language Arts	ELA 1 ELA 2	ELA 3 ELA 4	ELA 5 ELA 6	ELA 7 ELA 8	Fall: ENG-131: Introduction to College Writing (3)	
Mathematics	Algebra I	Algebra II	Geometry	Senior Math	Winter: MATH-100: Basic Technical Mathematics (3)	
Social Studies	World Civilizations	US History	US Economics US Government			
Science	Biology	Chemistry	*Physics			
Other Required	World Language 1	World Language 2	*Visual, Performing, Applied Art Computer Applications		Fall: TAFD 120: Industrial Safety Awareness	
	Physical Education Health					
Career Program		Welding Tech 1 Welding Tech 2	Dual Enrollment (Welding) -or- Welding Apprenticeship	Dual Enrollment (Welding) -or- Welding Apprenticeship	Fall: CIMWD 100: Safety/Join Design CIMWD 101: Welding Code, Measurement, Hand Tools CIMWD 102: Material Cutting, Grinding, Fabrication Winter: CIMWD 110: CMAW (Flat and Horizontal) CIMWD 111: (Vertical) CIMWD 112: (Overhead)	Fall: CIMWD 120: GTAW (Safety and Technology) CIMWD 121: GTAW (Steel/Stainless, Flat/Horizontal) CIMWD 122: GTAW (Steel/Stainless, Vertical) CIMWD 123: GTAW (Aluminum) Winter: CIMWD 130: GMAW (Flat and Horizontal) CIMWD 131: GMAW (Vertical and Overhead)
Recommended Elective(s)			Auto Tech 1, 2 Home Tech Wood Tech 1, 2	Dual Enrollment: TAFD 120: Industrial Safety Awareness CIS-100: Introduction to Information Technology		
Certifications and Credentials		OSHA 10-hour General Industry American Welding Society SENSE Certification				Welding Technology Basic Certificate of Achievement

Courses Required to Complete CTE Program

Optional (Advanced) CTE Courses

***Required Courses that may be waived by completing a CTE Program**

High School Program Completers may receive credit for these college courses (Articulated Credit)

Upcoming Events (Learn More)

February 23, 6:00pm to 7:00pm (Tentative):

CTE and MBCC Options Livestream for Parents and Students
(Facebook/Youtube)

March 2, 6:00pm to 7:30pm:

CTE Open House at Michael Berry Career Center

- Tour the facility
- Meet Staff and Students
- View Equipment and Projects in Action
- Talk to Local Colleges about post secondary options
- Talk to Local Employers about job opportunities

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French Les écoles de Dearborn vous offrent le service de traduction sans aucune condition. Si vous souhaitez avoir le service gratuit pour comprendre le contenu de ce document, prière d'appeler le bureau de Services aux Etudiants 827-3005.

Spanish Las escuelas de Dearborn aceptan la afirmación de un padre que él o ella necesita ayuda con el idioma sin necesidad de corroboración adicional. Para obtener ayuda gratuita con la comprensión del contenido de este documento, por favor llame a la oficina de Servicios de los Estudiantes 827-3005 para recibir asistencia de traducción / interpretación.

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