

Career and Technical Education and the Michael Berry Career Center

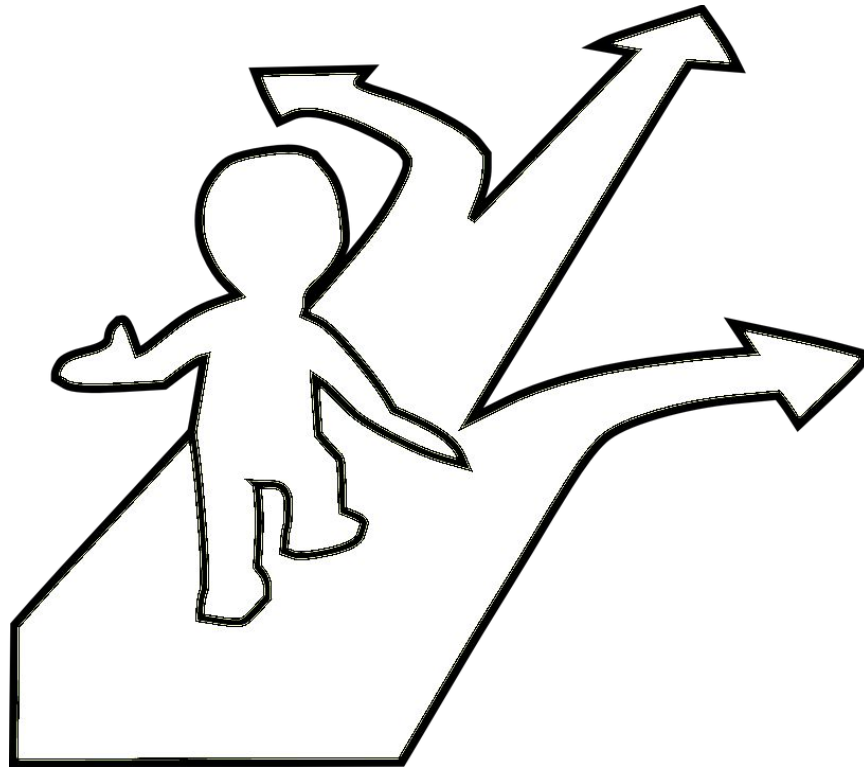
Training the Students of Today
For the Jobs of Tomorrow



MICHAEL BERRY
CAREER CENTER

Two Essential Scheduling Questions:

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





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

Learning that works for Michigan

CTE™

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

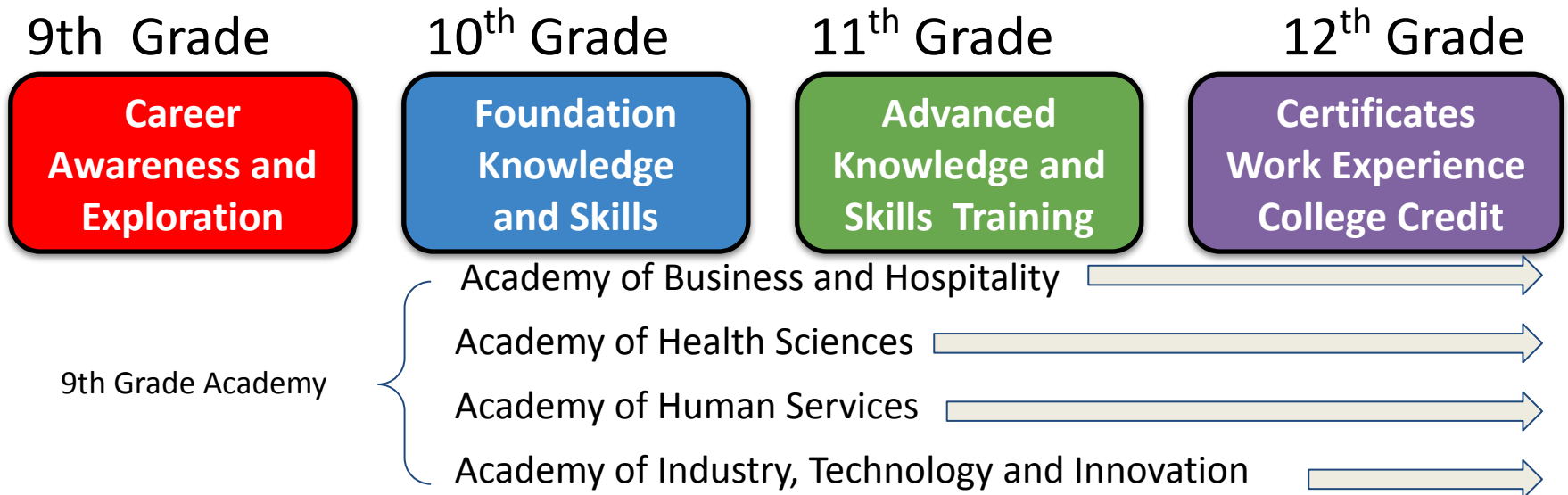
- High School Diploma
- 3 Years of Health Science Classes
- Health Science Knowledge & Skills
- 15+ College Credits (Health Science)
- Work Based Learning in Health Science
- 4+ Industry Recognized Certificates
- CTE Scholarship Opportunities
- Student Leadership/Competition (HOSA)

Education With A Purpose

Educational Development Plan (EDP)

Academies of Dearborn

Career and Technical Education



What class(es) **SHOULD** I take next?

- Student Career **INTEREST**
- Student Career **APTITUDE**
- Student Academic **ACHIEVEMENT**

What is Career and Technical Education (CTE)?

- Multi-course, multi-year programs aligned to student's *Educational Development Plans*
- Prepare students for careers that are:
 - High Skill
 - High Demand
 - High Pay
- Provide a rich learning experience in addition to classroom work
 - **HANDS ON SKILLS AND SAFETY 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)
 - Marketable industry recognized **CERTIFICATIONS**

Michael Berry Career Center

- CTE Courses offered at the ***Dearborn Heights Campus***
- Available to **ALL** Dearborn 10th, 11th and 12th grade students.
- Bus transportation provided to and from campus.
- Full Year commitment (can't join/drop 2nd semester).
 - Second year option recommended for most students
- Students can still join their high school athletic teams, band, plays, clubs, etc.
- Some MBCC CTE programs still housed in the high schools
 - » **Automotive Technician** (FHS and EFHS)
 - » **Teacher Cadet** (Education Careers)
 - » **Construction Trades** (FHS and EFHS)

Current Dearborn CTE Programs

- **Academy of Business and Hospitality**
 - [Culinary Arts](#)
 - [Dearborn Business Academy](#)
 - » Accounting
 - » Business Technology and Management
 - » Marketing
- **Academy of Health Sciences**
 - [Allied Health](#)
 - Advanced Allied Health
 - » Medical Assisting
 - » Dental Assisting
 - » Sports Medicine
 - » Clinical (Seniors Only)
 - » Pharmacy Technician (Seniors Only)

Current CTE Programs

- **Academy of Human Service**
 - [Aspiring Dearborn Educators \(ADE\) - Teacher Cadet](#)
 - [Criminal Justice and Law Careers](#)
- **Academy of Industry, Technology and Innovation**
 - [Automotive Technician \(EFHS and FHS\)](#)
 - [Computer Programming/Programmer](#)
 - [Digital/Multimedia](#)
 - » Design Concepts (Art Based)
 - » Software Specialist (Application Based)
 - [Construction Trades \(FHS and EFHS\)](#)
 - [Welding Technician \(EFHS only\)](#)

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

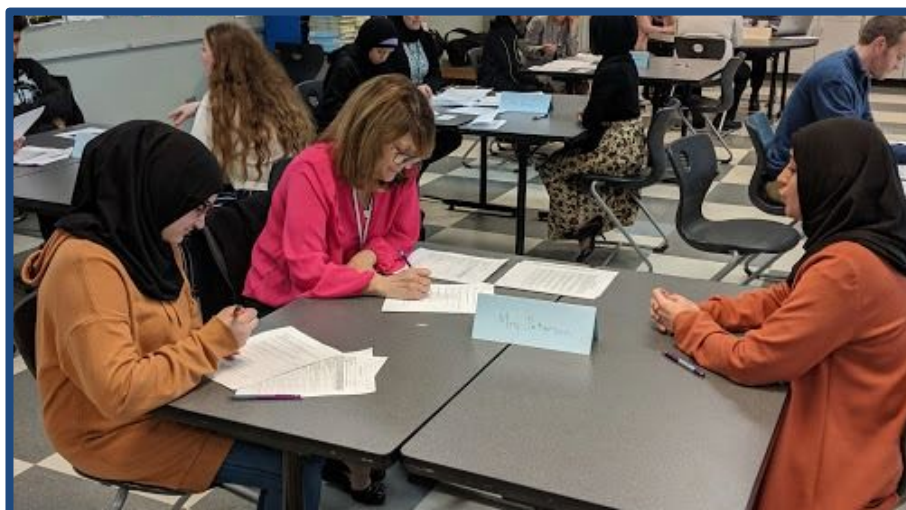
Accounting/Finance Path

Accounting 1

Accounting 2

Accounting 3

Accounting 4



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



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

2nd/3rd Year

Suggested Electives

Allied Health (2 hrs)

Advanced Allied Health (2hrs)

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

- 2nd Advanced Course
- Anatomy & Physiology
- ER Response Train (advanced 1st Aid)
- CoOp in Health Field
- Dual Enroll HFC Health Science Program



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

Two Hour Block Classes
Criminal Justice : Public Safety & Law
Criminal Justice: Tools & Techniques

2nd Year

One Hour Block Classes
Adv Criminal Justice: Laws & Ethics
Adv Criminal Justice: Investigations & Reports
+
Forensic Science (Full Year)

Suggested Electives

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



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/3rd Year

Elementary Teacher Cadet
Blended Classroom and Field Experience in
Elementary Classroom as Teacher's Aide

480 hours required for Certification



Academy of Industry, Technology & Innovation



Auto Technician (EFHS or FHS)

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/3rd Year

Auto Tech 3
Engine
Electrical

Auto Tech 4
Engine
Performance

Auto Tech 5
Brakes and
Steering

Optional

Auto Tech 6
Adv Auto
Tech



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

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

Construction Trades (FHS and EFHS)

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)

3&4th Years

DS Construction
Wood Tech 3,4,5
Welding Tech
Home Tech
Dual EnrollHFC Construction

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



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)

CS
Discoveries

CS
Discoveries

CS
Discoveries

CS
Discoveries

2nd Year

AP Computer Science Principles

-or-

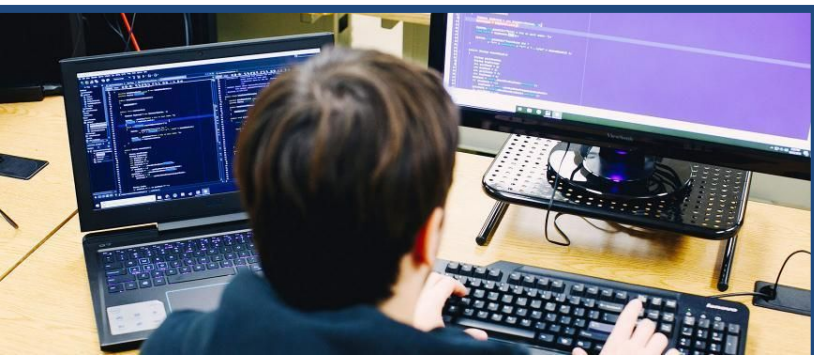
Software Specialist

3rd Year

AP Computer Science A (Java)

AP Computer Science Principles

AP Computer Science A (Java)



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

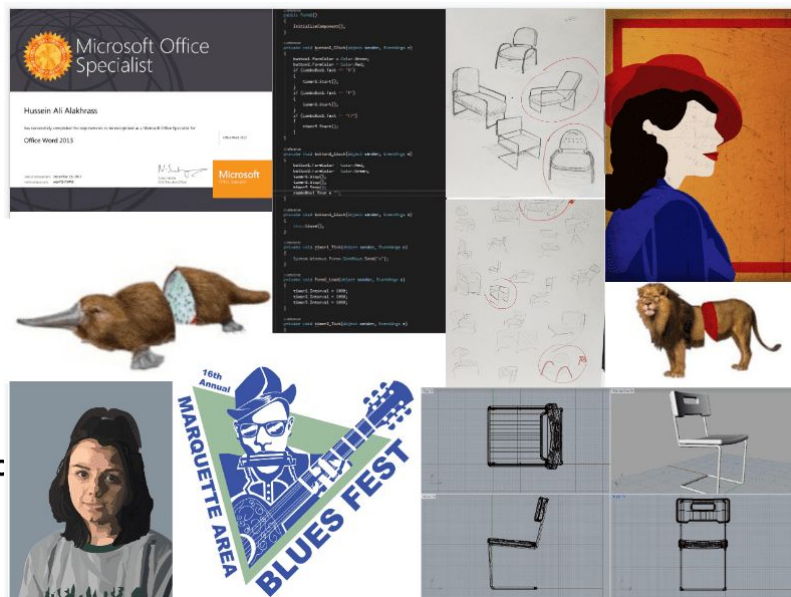
Software Specialist

Third Year

Adv Design Concepts
-or-
Adv Software Specialist

optional elective

AP Computer Science Principles



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