



# McKenzie Center for Innovation & Technology

*Where everything is possible*

## Curriculum Guide 2017-2018

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Mr. Dale Sharpe III  
Assistant Principal

Mrs. Carletta Sullivan  
Community Liaison

Ms. Elizabeth Thomas  
Exceptional Learners

**MCIT's Mission**  
McKenzie serves as a foundation to improve student academic & career technical programs. We prepare graduates who can advance their education in a post-secondary setting & succeed in high-demand, high-skill, & high-wage careers.

SME-Prime Partner  
Society of Manufacturing  
Engineering

STEM Certified School

PLTW  
Innovation Zone  
Project Lead the Way

A.Y.E.S Certified  
Automotive Youth  
Educational Systems

Ed Martin Automotive  
Careers Training Center

CompTIA Certified  
Training Center  
Computer Technology  
Industry Association



### AUTO-SERVICE TECHNOLOGY

#### Auto Service Tech I

2 Semesters 4 Credits Grades 10, 11  
Course code: 5510M 2 blocks each semester  
Prerequisites: Successfully complete Algebra 1 and English 9

#### Auto Service Tech II

2 Semesters 4 Credits Grades 11, 12  
Course code: 5546M 2 blocks each semester  
Prerequisites: Successfully complete Auto Service 1

### AUTO-COLLISION REPAIR TECHNOLOGY

#### Collision Repair I

2 Semesters 4 Credits Grades 10, 11  
Course Code 5514M 2 Blocks each semester  
Prerequisite: Successful Completion of Algebra I

#### Collision Repair II

2 Semesters 6 Credits Grades 11, 12  
Course Code 5544M 3 Blocks each semester  
Prerequisite: Successfully complete Collision Repair I

### BUSINESS EDUCATION

#### Administrative & Office Management

2 Semesters 2 Credits Grades 11-12  
Course Code: 5268M  
Prerequisite: At least one prior business course

#### Digital Applications & Responsibility I (DAR I)

1 Semester 1 Credit Grades 10-12  
Course Code: 4528MA  
Prerequisites: 9<sup>th</sup> Grade, Passed Prep for College & Career  
Prerequisites: 10-12, None

#### Digital Applications & Responsibility II (DAR II) MOS Certification

1 Semester 1 Credit Grade 10-12  
Course Code: 4528MB  
Prerequisites: Passed DAR I

#### Entrepreneurship and New Ventures (Capstone)

2 Semesters 2 Credits Grades 11-12  
Course Code: 5966M  
Prerequisite: At least one prior business course

#### Introduction to Accounting

2 Semesters 2 Credits Grades 10-12  
Course Code: 4524M  
Prerequisite: At least one prior business course

#### Merchandising (Fashion)

2 Semester 2 Credit Grades 11-12  
Course Code: 5962M  
Prerequisite: At least one prior business course

#### Preparing for College and Careers

1 Semester 1 Credit Grade 9  
Course Code: 5394M  
Prerequisite: None

#### Principles of Business Management (Introduction)

2 Semester 2 Credit Grades 9-12  
Course Code: 4562M  
Prerequisite: None

### Principles of Marketing / Sports & Entertainment

2 Semesters 2 Credits Grades 10-12  
Course Code: 5914M  
Prerequisite: None

### Strategic Marketing Related

2 Semesters 2 Credits Grade 12  
Course Codes: 5918M  
Prerequisites: Paired with Work Base Learning (CO-OP)

### Work Based Learning (WBL) Cooperative (CO-OP) Programs

2 Semesters Up to 6 Credits Grade 12  
Course Codes: 5260M  
Up to 3 Blocks each semester

5260MA (1 Block, Business & Marketing Field Experience)  
5260MB (2 Blocks, Business & Marketing Field Experience)  
(May be offered any block)  
Prerequisites: Paired with Strategic Marketing Related

5892MA (1 Block, Trade & Industry) 3<sup>rd</sup> Year Students Only  
5892MB (2 Blocks, Trade & Industry) 3<sup>rd</sup> Year Students Only

### CONSTRUCTION TECHNOLOGY

#### Construction Trades I

2 Semesters 4 Credits Grade 11  
Course Code: 5580M 2 Blocks each semester  
Prerequisites: None

#### Construction Trades II

2 Semesters 4 Credits Grade 12  
Course code: 5578M  
Prerequisites: Successfully complete Construction Trade I

### COSMETOLOGY

#### Cosmetology I

2 Semesters 8 Credits Grade 11  
Course Code: 5802M 4 Blocks each semester  
Prerequisite: Commitment to the 2-year program  
Cost for Materials: \$465

#### Cosmetology II

2 Semesters 8 Credits Grade 12  
Course Code: 5806M 4 Blocks each semester  
Prerequisites: Successful completion Cosmetology I  
Cost for Materials: \$180

#### Barbering I

2 Semesters 6 Credits Grade 11  
Course Code: 5802MB 3 Blocks each semester  
Prerequisite: Counselor Recommendation  
Cost for Materials: \$465

#### Barbering II

2 Semesters 6 Credits Grade 12  
Course Code: 5806MB 3 Blocks each semester  
Prerequisite: Successful completion Barbering I  
Cost for Materials: \$180

### CRIMINAL JUSTICE

#### Criminal Justice I

2 Semester 4 Credits Grades 11, 12  
Course Code: 5822M 2 Blocks each semester

#### Criminal Justice Advanced II

2 Semester 4 Credits Grades 12  
Course Code: 5824M  
Prerequisites: Successfully complete Criminal Justice I

**CULINARY ARTS & HOSPITALITY****Culinary Arts & Hospitality I**

2 Semesters 4 Credits Grades 10, 11  
 Course Code: 5440M 2 Blocks each semester  
 Recommended Preparation: Nutrition & Wellness

**Advanced Culinary Arts & Hospitality II**

2 Semesters 6 Credits Grades 11, 12  
 Course code: 5346M 3 Blocks each semester  
 Prerequisites: Successful completion Culinary Arts I

**HEALTH SCIENCES****Medical Terminology**

2 Semesters 2 Credits Grade 10-12  
 Course Code: 5274M 1 Block each semester  
 Prerequisite: None

**Health Sciences I**

2 Semesters 4 Credits Grade 11  
 Course Code: 5282M 2 Blocks each semester  
 Biology I & Algebra I (Or Recommendation)

**Health Sciences II**

2 Semesters 6 Credits Grade 12  
 Course Code: 5284M 3 Blocks each semester  
 Prerequisites: Successfully complete Health Sciences I, completion or concurrent enrollment in Anatomy & Physiology, (recommendation)

**INFORMATION TECHNOLOGY****Computer Tech Support (CompTIA A+ Certification)**

2 Semesters 4 Credits Grades 10-12  
 Course Code: 5230M 2 Blocks each semester  
 Recommended Prerequisite: College-level reading & comprehension (SRI scores >1000)  
**Weighted course (1.0)**

**Networking I (CompTIA Network+ Certification)**

2 Semesters 4 Credits Grades 11, 12  
 Course code: 5234M 2 Blocks each semester  
 Prerequisites: Successfully complete CompTIA A+ Certification  
**Weighted (1.0) course**

**Networking II/Infrastructure Systems**

2 Semesters 2 Credits Grades 11, 12  
 Course Code: 4588M 1 Block each semester  
 Prerequisites: Successfully complete CompTIA Net+ Certification  
**Weighted course (1.0)**

**Networking II/Server & Security**

2 Semesters 2 Credits Grade 12  
 Course Code: 5257M 1 Block each semester  
 Prerequisites: A+ and Net + Certification  
**Weighted course (1.0)**

**INTERACTIVE MEDIA****Interactive Media I / 3 D**

2 Semesters 4 Credits Grades 10, 11  
 Course Code: 5530M 2 Blocks each semester  
 Recommended Preparation: College-level reading & comprehension (SRI >1000)  
**Weighted course (1.0)**

**Interactive Media II**

2 Semesters 4 Credits Grades 11, 12  
 Course code: 5232M 2 Blocks each semester  
 Prerequisites: Successfully complete Interactive Media I  
**Weighted course (1.0)**

**COMPUTER SCIENCE****Computer Science I / Visual Basic**

2 Semesters 2 Credits Grades 10-12  
 Course Code: 4801M 1 Block each semester

**Computer Science II / Programming**

2 Semesters 2 Credits Grades 11, 12  
 Course Code: 5236M 1 Block each semester  
 Prerequisites: Successfully complete Computer Science I  
**Weighted Course (1.0)**

**Computer Science II / Video Gaming Apps**

2 Semesters 4 Credits Grade 12  
 Course Code: 5252M 2 Blocks each semester  
 Prerequisites: Computer Science I

**JAG-JOBS FOR AMERICA'S GRADUATES****JAG I**

2 Semesters 2 Credits Grade 11  
 Course Code: 0522M 1 Block each semester

**JAG II**

2 Semesters 2 Credits Grade 12  
 Course Code: 0532M 1 Block each semester  
**Prerequisites:** Successfully complete JAG I

**JUNIOR RESERVE OFFICER TRAINING CORPS (J-ROTC)****CIVIL AIR PATROL (CAP) / JR ROTC**

2 Semesters 2 Credits Grades 10-12  
 Course Code: 0516M 1 Block each semester

**NON-PLTW ENGINEERING / TECHNOLOGY****Introduction to Construction**

1 Semester 1 Credit Grade 9-10  
 Course Code: 4792M

**Introduction to Manufacturing**

1 Semester 1 Credit Grade 9-10  
 Course Code: 4784M

**Introduction to Transportation**

1 Semester 1 Credit Grade 9-10  
 Course Code: 4798M

**PROJECT LEAD THE WAY (PLTW) BIOMEDICAL SCIENCES****PBS - Principles of Biomedical Sciences**

2 Semesters 2 Credits Grades 9  
 Course Code: 5218M **Weighted Course (.5)**  
 Recommended Prerequisite: Successful completion or concurrent enrollment of Biology I

**HBS – Human Body Systems**

2 Semesters 2 Credits Grades 10-12  
 Course Code: 5216M **Weighted Course (.5)**  
 Recommended Prerequisite: Successful completion of PBS

**MI – Medical Interventions**

2 Semesters 2 Credits Grades 11, 12  
 Course Code: 5217M **Weighted Course (1.0)**  
 Recommended Prerequisite: Successful completion of HBS & PBS

**BI – Biomedical Innovations**

2 Semesters 2 Credits Grade 12  
 Course Code: 5219M **Weighted Course (1.0)**  
 Recommended Prerequisite: Successful completion of PBS, HBS & MI

**PROJECT LEAD THE WAY (PLTW)-PRE-ENGINEERING****IED – Introduction to Engineering Design**

2 Semesters 2 Credits Grades 9, 10  
 Course Code: 4812M  
 Recommended Prerequisite: Enrollment in Alg. I

**POE – Principles of Engineering**

2 Semesters 2 Credits Grades 9-12  
 Course Code: 4814M  
 Recommended Prerequisite: Successful completion of Algebra I & IED  
**Weighted Course (1.0)**

**CIMS – Computer Integrated Manufacturing Systems**

2 Semesters 2 Credits Grades 10-12  
 Course Code: 4810M **Weighted Course (1.0)**  
 Recommended Prerequisite: Successful completion of IED, POE & Algebra I

**CIMS II – Non PLTW / Computer Integrated Manufacturing II**

2 Semesters 2 Credits Grades 11, 12  
 Course Code: 5534M  
 Prerequisite: Must successfully complete CIMS

**DE – Digital Electronics**

2 Semesters 2 Credits Grades 10-12  
 Course Code: 4826M **Weighted Course (1.0)**  
 Recommended Prerequisite: Completion of either IED or POE

**Digital Electronics – Non PLTW**

2 Semester 2 Credits Grade 11-12  
 Course Code: 5538M V.U. Early College for IT

**AE – Aerospace Engineering**

2 Semesters 2 Credits Grades 11, 12  
 Course Code: 4816M **Weighted Course (1.0)**  
 Recommended Prerequisite: Completion of IED or POE

**CEA – Civil Engineering & Architecture**

2 Semesters 2 Credits Grades 11, 12  
 10<sup>th</sup> Grade with approval  
 Course Code: 4820M **Weighted Course (1.0)**  
 Recommended Prerequisite: Concurrent enrollment in Algebra II & POE

**ES – Environmental Sustainability**

2 Semesters 2 Credits Grades 11, 12  
 Course Code: 4818M **Weighted Course (1.0)**

**EDD – Engineering Design & Development**

2 Semesters 2 Credits Grade 11-12  
 Course Code: 4828M  
 Recommended Prerequisite: Must have had at least two years of the pre-engineering course or involved with the FIRST Robotics team for two or more years. An application must be submitted.

