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Dual Credit = \*\* DC

**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

Largest CTE High School  
in Indiana



# McKenzie Center for Innovation & Technology

*Where Everything is Possible*

## Curriculum Guide 2020 - 2021

### AUTO-SERVICE TECHNOLOGY

#### Introduction to Transportation (4798M)

1 Semesters 1 Credits Grade 10  
Offered Fall & Spring Semester

#### Automotive Service Technology I \*\* (5510M)

2 Semesters 4 Credits Grades 11, 12  
Weighted Course 1.0 2 blocks each semester  
Recommended Prerequisite: Intro. To Transportation

#### Automotive Service Technology II \*\* (5546M)

2 Semesters 6 Credits Grades 12  
Weighted Course 1.0 3 blocks each semester  
Required Prerequisites: Auto Service Technology I

### AUTO-COLLISION REPAIR TECHNOLOGY

#### Introduction to Transportation (4798M)

1 Semesters 1 Credits Grade 10  
Offered Fall & Spring Semester

#### Automotive Collision Repair I \*\* (5514M)

2 Semesters 4 Credits Grades 11, 12  
Weighted Course 1.0 2 Blocks each semester  
Recommended Prerequisites: Introduction to Transportation

#### Automotive Collision Repair II \*\* (5544M)

2 Semesters 6 Credits Grade 12  
Weighted Course 1.0 3 Blocks each semester  
Required Prerequisite: Automotive Collision Repair I

### BUSINESS EDUCATION

#### Preparing for College & Careers (5394MF)

1 Semester 1 Credit Grades 9-12  
1 Block each semester  
Offered Fall Only - Paired w/ Intro to Business (4518MS)

#### Introduction to Business (4518M)

1 Semester 1 Credit Grades 9, 10  
1 Block each semester  
Offered Spring Only - Paired w/ PCC (5394MF)

#### Principles of Business Management\*\* (4562M)

2 Semesters 2 Credit Grades 11, 12  
Weighted Course 1.0 1 Block each semester  
Recommended Prerequisite: Introduction to Business

#### Intro to Accounting \*\* (4524M)

2 Semesters 2 Credits Grades 10-12  
1 Block each semester

#### Advanced Accounting (4522M)

2 Semesters 2 Credits Grades 11, 12  
1 Block each semester  
Required Prerequisite: Introduction to Accounting

#### Merchandising \*\* (5962M)

2 Semesters 2 Credits Grades 11, 12  
Weighted Course 1.0 1 Block each semester  
Required Prerequisite: Principles of Marketing

#### Entrepreneurship and New Ventures \*\* (5966M)

2 Semesters 2 Credits Grade 12  
Weighted Course 1.0 1 Block each semester  
Required Prerequisite: Four credits from Business & Marketing Career Cluster

#### Administrative & Office Management (5268M)

2 Semesters 2 Credits Grade 12 1 block/sem.  
Required Prerequisite: Principles of Business Management or Principles of Marketing

### Banking & Investment Capstone (5258M)

2 Semesters 2 Credits Grade 12 1 block/sem.  
Required Prerequisite: Introduction to Accounting & Advanced Accounting

### Principles of Marketing \*\* (5914M)

2 Semesters 2 Credits Grades 10-12  
Weighted Course 1.0 1 Block each semester

### Sports & Entertainment Marketing (5984M)

2 Semesters 2 Credits Grades 11, 12 1 block/sem.  
Required Prerequisite: Principles of Marketing

### Marketing in Hospitality & Tourism (5982M)

2 Semesters 2 Credits Grades 11, 12 1 block/sem.  
Required Prerequisite: Principles of Marketing

### Strategic Marketing Related \*\* (5918M)

2 Semesters 2 Credits Grade 12  
Weighted Course 1.0 1 Block each semester  
Required: Must be paired with Work Base Learning

### WBL - Work Based Learning (5974M)

2 Semesters 6 Credits Maximum Grade 12  
Up to 3 blocks each Semester  
5974MA (1 Block), 5974MB (2 Blocks) & 5974MC (3 blocks)  
Required: Must be paired with Strategic Marketing

### CONSTRUCTION TECHNOLOGY

#### Introduction to Construction I (4792M)

1 Semesters 1 Credits Grade 10  
Offered Fall & Spring Semester

#### Construction Trades I \*\* (5580M)

2 Semesters 4 Credits Grades 11, 12  
Weighted Course 1.0 2 Blocks each semester

#### Construction Trades II \*\* (5578M)

2 Semesters 4 Credits Grade 12  
Weighted Course 1.0 2 Blocks each semester  
Required Prerequisites: Construction Trades I

### COSMETOLOGY

#### Cosmetology I \*\* (5802M)

2 Semesters 6 Credits Grades 11, 12  
Weighted Course 1.0 4 Blocks each semester w/Capstone  
Required Prerequisite: Commitment to the 2-year program  
Cost for Materials: \$200 Non-Refundable

#### Cosmetology II \*\* (5806M)

2 Semesters 6 Credits Grade 12  
Weighted Course 1.0 4 Blocks each semester w/Capstone  
Required Prerequisites: Cosmetology I  
Cost for Materials: \$265 Non-Refundable

#### Barbering I (5802MB)

2 Semesters 6 Credits Grades 11, 12 3 blocks/sem.  
Required Prerequisite: Commitment to the 2-year program  
Cost for Materials: \$325 Non-Refundable

#### Barbering II (5806MB)

2 Semesters 6 Credits Grade 12 3 blocks/sem.  
4 Blocks each semester w/Capstone  
Required Prerequisite: Barbering I  
Cost for Materials: \$70 Non-Refundable

### EARLY CHILDHOOD

#### Early Childhood Education I (5412M)

2 Semesters 4 Credits Grades 11, 12 2 blocks/sem.  
Recommended Prerequisite: Advanced Child Development

**CULINARY ARTS & HOSPITALITY****Introduction to Culinary Arts (5438M)**

2 Semesters 2 Credits Grades 9, 10  
1 Block each semester

**Culinary Arts & Hospitality I\*\* (5440M)**

2 Semesters 4 Credits Grades 11, 12  
**Weighted Course 1.0** 2 Blocks each semester  
Recommended Prerequisite: Nutrition & Wellness or Introduction to Culinary Arts

**Culinary Arts & Hospitality II\*\* (5346M)**

2 Semesters 6 Credits Grade 12  
**Weighted Course 1.0** 3 Blocks each semester  
Required Prerequisites: Culinary Arts & Hospitality I

**HEALTH SCIENCES****Medical Terminology (5274M)**

2 Semesters 2 Credits Grade 10-12  
1 Block each semester

**Introduction to Health Science Careers (5272M)**

2 Semesters 2 Credits Grade 10  
1 Block each semester

**Health Sciences I\*\* (5282M)**

2 Semesters 4 Credits Grade 11  
**Weighted Course 1.0** 2 Blocks each semester  
Recommended Prerequisite: Introduction to Health Science Careers

**Health Sciences II – Nursing\*\* (5284M)**

2 Semesters 6 Credits Grade 12  
**Weighted Course 1.0** 3 Blocks each semester  
Required Prerequisites: Health Science Education I

**PC NETWORKING & SUPPORT****Information Technology Support I\*\* (5230M)**

2 Semesters 4 Credits Grades 10, 11  
**9<sup>th</sup> Grade: Teacher recommendation**  
**Weighted course (1.0)** 2 Blocks each semester  
Recommended Prerequisite: Digital Applications and Responsibility or Introduction to Computer Science

**Networking I\*\* (5234M)**

2 Semesters 4 Credits Grades 11, 12  
**Weighted (1.0) course** 2 Blocks each semester  
Recommended Prerequisites: Information Technology Support I

**Networking II: Infrastructure Systems\*\* (4588M)**

2 Semesters 2 Credits Grades 11, 12  
**Weighted course (1.0)** 1 Block each semester  
Required Prerequisites: Networking I

**Networking II: Servers & Security\*\* (5257M)**

2 Semesters 2 Credits Grades 11, 12  
**Weighted course (1.0)** 1 Block each semester  
Required Prerequisites: Networking I

**INTERACTIVE MEDIA****Graphic Design & Layout\*\* (5550M)**

2 Semesters 2 Credits Grades 10, 11  
**Weighted course (1.0)** 1 Block each semester

**Interactive Media\*\* (5232M)**

2 Semesters 4 Credits Grades 11, 12  
**Weighted course (1.0)** 2 Blocks each semester

**COMPUTER SCIENCE****Digital Applications & Responsibility (4528M)**

1 Semesters 1 Credits Grades 9-12  
Fall – Paired with Introduction to Computer Science

**Introduction to Computer Science (4803M)**

1 Semesters 1 Credits Grades 9-10  
Spring – Paired with DAR

**Computer Science I\*\* (4801M)**

2 Semesters 2 Credits Grades 10-12  
1 Block each semester  
Recommended Prerequisite: Introduction to Computer Science

**Computer Science II: Programming\*\* (5236M)**

2 Semesters 2 Credits Grades 11, 12  
**Weighted Course (1.0)** 1 Block each semester  
Required Prerequisites: Computer Science I

**Computer Science III: Video Gaming Apps (5252M)**

2 Semesters 4 Credits Grades 11, 12  
**Weighted Course (1.0)** 2 Blocks each semester  
Required Prerequisites: Computer Science I  
Recommended Prerequisite: Computer Science II

**Computer Science III: Cybersecurity (5253M)**

2 Semesters 2 Credits Grades 10-12  
**Weighted Course (1.0)** 1 Block each semester  
Required Prerequisite: Computer Science I  
Recommended Prerequisite: Computer Science II

**JAG-JOBS FOR AMERICA'S GRADUATES****JAG I – Career Information & Exploration (0522M)**

2 Semesters 2 Credits Grades 10, 11  
1 Block each semester

**JAG II – College Entrance Preparation (0532M)**

2 Semesters 2 Credits Grade 11  
1 Block each semester  
**Prerequisites:** JAG I – Career Info. & Exploration

**CRIMINAL JUSTICE****Criminal Justice I (5822M)**

2 Semesters 4 Credits Grades 11, 12  
2 Blocks each semester

**Criminal Justice II (5824M)**

2 Semesters 4 Credits Grade 12  
2 Block each semester  
Recommended Prerequisites: Criminal Justice I

**BIOMEDICAL SCIENCES****PBS - Principles of Biomedical Sciences (5218M)**

2 Semesters 2 Credits Grade 9  
**Weighted Course (.5)** 1 Block each semester  
Required Prerequisite: Biology I or concurrent enrollment of Biology I

**HBS – Human Body Systems (5216M)**

2 Semesters 2 Credits Grades 10  
**Weighted Course (.5)** 1 Block each semester  
Recommended Prerequisite: PBS

**MI – Medical Interventions (5217M)**

2 Semesters 2 Credits Grades 11  
**Weighted Course (1.0)** 1 Block each semester  
Required Prerequisite: PBS; HBS or Anatomy & Physiology

**BI – Biomedical Innovations\*\* (5219M)**

2 Semesters 2 Credits Grade 12  
**Weighted Course (1.0)** 1 Block each semester  
Required Prerequisite: PBS, HBS or Anatomy and Physiology, and MI

**ENGINEERING****IED – Intro to Engineering Design\*\* (4802M)**

2 Semesters 2 Credits Grades 9  
**Weighted Course (1.0)** 1 Block each semester

**POE – Principles of Engineering\*\* (5644M)**

2 Semesters 2 Credits Grades 10, 11  
**Weighted Course (1.0)** 1 Block each semester  
Required Prerequisite: Intro. to Engineering Design

**CIM – Computer Integrated Manufacturing\*\* (5534M)**

2 Semesters 2 Credits Grades 11, 12  
**Weighted Course (1.0)** 1 Block each semester  
Required Prerequisite: IED & POE

**CIM II – Advanced Manufacturing II (5606M)**

2 Semesters 2 Credits Grades 11, 12  
1 Block each semester  
Required Prerequisite: CIM I

**DE – Digital Electronics\*\* (5538M)**

2 Semesters 2 Credits Grades 11, 12  
**Weighted Course (1.0)** 1 Block each semester  
Recommended Prerequisite: IED and POE

**AE – Aerospace Engineering (5518M)**

2 Semesters 2 Credits Grades 11, 12  
**Weighted Course (1.0)** 1 Block each semester  
Recommended Prerequisite: IED and POE

**CEA – Civil Engineering & Architecture\*\* (5650M)**

2 Semesters 2 Credits Grades 11, 12  
10<sup>th</sup> Grade with approval  
**Weighted Course (1.0)** 1 Block each semester  
Required Prerequisite: IED and POE

**ES – Environmental Sustainability (4818M)**

2 Semesters 2 Credits Grades 11, 12  
**Weighted Course 1.0** 1 Block each semester  
Recommended Prerequisite: IED & POE

**EDD- Engineering Design & Development (5698M)**

2 Semesters 2 Credits Grades 11, 12  
**Weighted Course (1.0)** 1 Block each semester  
Recommended Prerequisite: IED, POE and one pre-engineering specialty course

**TECHNOLOGY****FOT - Foundations of Technology (5239M)**

2 Semesters 2 Credits Grades 9, 10  
1 Block each semester

**JUNIOR RESERVE OFFICER TRAINING CORPS (J-ROTC)****CAP - CIVIL AIR PATROL (0516M)**

2 Semesters 2 Credits Grades 10-12  
1 Block each semester

**CLUBS AND PROGRAMS**

**ROBOTICS** — F.I.R.S.T Robotics and VEX Robotics  
<https://www.firstinspires.org/robotics/frc>

**CAP** — Civil Air Patrol  
<https://www.gocivilairpatrol.com/>  
Aerospace Education, CADET programs, Emergency Services, Civilian Air Force Cadets

**FBLA** — Future Business Leaders of America  
<https://www.fbla-pbl.org/>  
Local and national competitions

**HOSA** - Future Health Professionals <http://www.hosa.org/>  
Biomedical Sciences and Health Sciences students.  
HOSA is a national student organization whose mission is to promote career opportunities in the health care industry.

**DECA** - Distributive Education Clubs of America (Marketing and Business) [www.deca.org/](http://www.deca.org/)  
Provides members and advisors with development activities through local and national competitions

**ACE MENTORING** - Architecture, Construction and Engineering <https://acementor.org/>  
Engage, excite and enlighten high school students to pursue careers in architecture, engineering and construction through mentoring.

**NTHS** - National Technical Honor Society  
<https://nth.org/>

Encourages higher scholastic achievement, cultivates a desire for personal excellence, and helps top students find success in the workplace.

**SKILLS USA** - All Career and Technical students compete locally and nationally in skills and leadership.  
<https://www.skillsusa.org/>