



McKenzie Center for Innovation & Technology

Where everything is possible

Curriculum Guide 2018-2019

November 10, 2017

7250 E. 75th St.
Indianapolis, IN 46256
(317) 964-8000
Fax (317) 849-2546
www.mckenzie.ltschools.org
Twitter: @MCITech

Dr. Shawn Smith
Superintendent

Mr. Frank Svarczkopf
Principal

Mr. Dale Sharpe III
Assistant Principal

Mrs. Carletta Sullivan
Community Liaison

Ms. Elizabeth Thomas
Exceptional Learners

Mrs. Jasmyne
Acevedo
Bilingual Specialist

Dual Credit = **

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

Introduction to Transportation **NEW**

2 Semesters 2 Credits Grade 10
Course Code: 4798M 1 Block each semester

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

Introduction to Transportation **NEW**

2 Semesters 2 Credits Grades 10
Course Code: 4798M 1 Block each semester

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

Preparing for College and Careers

1 Semester 1 Credit Grade 9
Course Code: 5394MF Offered in Fall Only/ Paired with
Intro to Business 4518MS One semester

Introduction to Business **NEW**

1 Semester 1 Credit Grade 9-10 One Semester
Course Code: 4518M Offered in Spring Only - Paired with PCC

Principles of Business Management (Introduction) **

2 Semester 2 Credit Grades 10-12
Course Code: 4562M Dual Credit Ivy Tech
ACP Principles of Business Mgmt. Course Code: 4562MK
ACP IU Kelly Business Dual Credit **

Introduction to Accounting ** **NEW**

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

Entrepreneurship and New Ventures (Capstone) **

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

Merchandising (Fashion) **

2 Semester 2 Credit Grades 10-12
Course Code: 5962M
Prerequisite: At least one prior business course

Administrative Leadership Management **

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

Banking & Investment **NEW**

2 Semester 2 Credit Grades 12
Course Code: 5258M
Prerequisite: At least one prior business course

Principles of Marketing **

2 Semesters 2 Credits Grades 10-12
Course Code: 5914M

Marketing In Hospitality & Tourism **NEW**

2 Semesters 2 Credits Grade 10-12
Course Codes: 5982M

Sports & Entertainment Marketing ** **NEW**

2 Semesters 2 Credits Grade 11-12
Course Codes: 5984M

Strategic Marketing Related **

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

Advanced Accounting **NEW**

2 Semesters 2 Credits Grades 11-12
Course Code: 4522M
Prerequisite: Successfully completed Intro to Accounting

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) 3rd Year Students Only
5892MB (2 Blocks, Trade & Industry) 3rd Year Students Only

CONSTRUCTION TECHNOLOGY

Introduction to Construction I **NEW**

2 Semesters 2 Credits Grade 10
Course Code: 4792M 1 Blocks each semester

Construction Trades I **

2 Semesters 4 Credits Grade 11
Course Code: 5580M 2 Blocks each semester

Construction Trades II **

2 Semesters 4 Credits Grade 12
Course code: 5578M 2 Blocks each semester
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: \$200 Non-Refundable

Cosmetology II **

2 Semesters 8 Credits Grade 12
Course Code: 5806M 4 Blocks each semester
Prerequisites: Successful completion Cosmetology I
Cost for Materials: \$265 Non-Refundable

Barbering I

2 Semesters 6 Credits Grade 11
Course Code: 5802MB 3 Blocks each semester
Cost for Materials: \$325 Non-Refundable

Barbering II **NEW**

2 Semesters 6 Credits Grade 12
Course Code: 5806MB 3 Blocks each semester
Prerequisite: Successful completion Barbering I
Cost for Materials: \$70 Non-Refundable

CULINARY ARTS & HOSPITALITY**Introduction to Culinary & Hospitality I** **NEW**

2 Semesters 2 Credits Grades 10
 Course Code: 5438M 1 Block each semester

Culinary Arts & Hospitality I ******

2 Semesters 4 Credits Grades 11
 Course Code: 5440M 2 Blocks each semester
 Recommended Preparation: Nutrition & Wellness
 Successful completion of Algebra I

Advanced Culinary Arts & Hospitality II ******

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

HEALTH SCIENCES**Introduction to Health Science Careers** **NEW**

2 Semesters 2 Credits Grade 10
 Course Code: 5272M 1 Block each semester

Health Sciences I ******

2 Semesters 4 Credits Grade 11
 Course Code: 5282M 2 Blocks each semester
 Prerequisite: Successful completion of English 10,
 Biology I, Algebra I or PBS & HBS

Health Sciences II – Nursing ******

2 Semesters 6 Credits Grade 12
 Course Code: 5284M 3 Blocks each semester
 Prerequisites: Recommended successfully
 complete Health Sciences I or MI or concurrent
 enrollment in Anatomy & Physiology

PC NETWORKING & SUPPORT**Computer Tech Support (CompTIA A+ Cert)** ******

2 Semesters 4 Credits Grades 10-12
 Course Code: 5230M 2 Blocks each semester
 Recommended Prerequisite: College-level reading
 & comprehension (SRI scores >1000) English 9
 Successful completion of Algebra I
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)

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) English 9
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)

**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

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

2 Semesters 2 Credits Grades 9-12
 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 11-12
 Course Code: 5252M 2 Blocks each semester
 Prerequisites: Computer Science I
Weighted Course (1.0)

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

CRIMINAL JUSTICE**Criminal Justice I** ******

2 Semesters 4 Credits Grades 11-12
 Course Code: 5822M 2 Blocks each semester

Criminal Justice II

2 Semesters 4 Credits Grades 12
 Course Code: 5824M 2 Block each semester
 Prerequisites: Successfully complete Crim. Justice I

BIOMEDICAL SCIENCES**Core 40 Science Courses****PBS - Principles of Biomedical Sciences**

2 Semesters 2 Credits Grades 9
 Course Code: 5218M 1 Block each semester
Weighted Course (.5)
 Prerequisite: Successful completion or concurrent
 enrollment of Biology I

HBS – Human Body Systems

2 Semesters 2 Credits Grades 10-12
 Course Code: 5216M 1 Block each semester
Weighted Course (.5)

Recommended Prerequisite: Successful completion
 of PBS

MI – Medical Interventions

2 Semesters 2 Credits Grades 11, 12
 Course Code: 5217M 1 Block each semester
Weighted Course (1.0)

Recommended Prerequisite: Successful completion
 of HBS & PBS

BI – Biomedical Innovations ******

2 Semesters 2 Credits Grade 12
 Course Code: 5219M 1 Block each semester
Weighted Course (1.0)

Recommended Prerequisite: Successful completion
 of PBS, HBS & MI

ENGINEERING**IED – Introduction to Engineering Design** ******

2 Semesters 2 Credits Grades 9, 10
 Course Code: 4812M 1 Block each semester
 Prerequisite: Enrollment in Alg. I **Weighted Course (.5)**

POE – Principles of Engineering ******

2 Semesters 2 Credits Grades 10-12
 Course Code: 4814M 1 Block each semester
 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 1 Block each semester
Weighted Course (1.0)
 Prerequisite: Successful completion of IED, POE &
 Algebra I

DE – Digital Electronics ******

2 Semesters 2 Credits Grades 10-12
 Course Code: 4826M 1 Block each semester
Weighted Course (1.0)
 Prerequisite: Completion of either IED or POE

AE – Aerospace Engineering

2 Semesters 2 Credits Grades 11, 12
 Course Code: 4816M 1 Block each semester
Weighted Course (1.0)
 Prerequisite: Completion of 2 PLTW Courses or
 teacher recommendation.

CEA – Civil Engineering & Architecture ******

2 Semesters 2 Credits Grades 11, 12
 10th Grade with approval
 Course Code: 4820M 1 Block each semester
Weighted Course (1.0)
 Prerequisite: Completion of POE - Concurrent
 enrollment in Algebra II

ES – Environmental Sustainability

2 Semesters 2 Credits Grades 11, 12
 Course Code: 4818M 1 Block each semester
Weighted Course (1.0)

EDD – Engineering Design & Development

2 Semesters 2 Credits Grade 11-12
 Course Code: 4828M
Weighted Course (1.0)
 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.

Technology**FOT - Foundations of Technology** **NEW**

2 Semesters 2 Credits Grades 9, 10
 Course Code: 5239M 1 Block each semester

Computers in Design and Production **NEW**

2 Semesters 2 Credits Grades 10
 Course Code: 4800M 1 Block each semester
 (Precision Machining Pathway)
 Prerequisite: Completion of IED or FOT

