

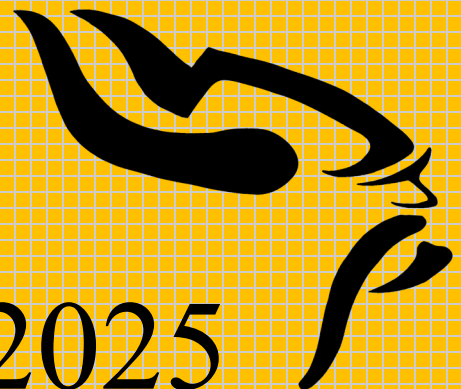
# **Tri County High School** course catalog

**Programs that we  
offer that many districts do not:**

**Anatomy/Physiology  
Entrepreneurship & Marketing  
Food Art  
Woodshop**



**2024-2025**



**Tradition**

**Character**

**Achievement**

**Success**

# TABLE OF CONTENTS

|                 |  |
|-----------------|--|
| Page 3.....     | Graduation Requirements                  |
| Page 3.....     | Scheduling Guidelines                    |
| Page 4.....     | Course List                              |
| Page 5.....     | Sample Class Schedule                    |
| Page 6.....     | Dropping/Adding                          |
| Page 6.....     | Withdrawal                               |
| Page 6.....     | Adequate Yearly Progress                 |
| Page 6.....     | Repeating Courses                        |
| Page 6.....     | Making up A Credit Deficit               |
| Page 6.....     | Participation in Graduation Ceremonies   |
| Page 6.....     | Qualifying for Academic Honors           |
| Page 7.....     | Non-Accredited Programs                  |
| Page 7.....     | Personal Curriculum                      |
| Page 7.....     | Graduation of Students with Disabilities |
| Page 7.....     | NCAA Eligibility                         |
| Page 8.....     | Testing Out                              |
| Page 8.....     | Articulated Credits                      |
| Page 9.....     | Dual Enrollment                          |
| Page 10.....    | Advisory                                 |
| Page 10.....    | Business Education                       |
| Page 11.....    | Career Centers                           |
| Page 12.....    | Communication                            |
| Page 13.....    | Dual Enrollment                          |
| Page 13.....    | Michigan Transfer Agreement              |
| Page 14.....    | English                                  |
| Page 15.....    | Fine Arts                                |
| Page 16.....    | Industrial Arts—Technology               |
| Page 17.....    | Mathematics                              |
| Page 18.....    | Modified Curriculum                      |
| Page 19.....    | Physical Education                       |
| Page 20-21..... | Science                                  |
| Page 22.....    | Social Studies                           |
| Page 23.....    | 21F Online Courses                       |
| Page 23.....    | Work Based Learning                      |
| Page 23.....    | Credit Recovery                          |
| Page 24.....    | World Language                           |
| Page 25.....    | Online—Edgenuity                         |
| Page 26.....    | Articulation—KCTC                        |
| Page 27.....    | Credit Equivalency—KCTC                  |
| Page 28.....    | Articulation—NCCTC                       |
| Page 29.....    | Credit Equivalency—NCCTC                 |

# ENROLLMENT INFORMATION

The following information is to be used when requesting classes for the **2024-2025** school year. This document and all supplementary materials must be read carefully.

## Graduation Requirements

The requirements that must be fulfilled for graduation from Tri County Area High School are:

1. See the table above for total credits needed for each graduating year.
2. Three years of marching band may waive the PE requirement.\*
3. Two seasons of a MHSAA sanctioned sport may waive the PE requirement.\*
4. Completion of all sections of the Michigan Merit Examination (MME)

| Grad Requirements              |           |
|--------------------------------|-----------|
| Electives                      | 4.0       |
| English                        | 4.0       |
| Math                           | 4.0       |
| PE/Health                      | 1.0       |
| Science                        | 3.0       |
| Social Studies                 | 3.0       |
| Visual/Performing/Applied Arts | 1.0       |
| World Language                 | 2.0       |
|                                |           |
| <b>TOTAL</b>                   | <b>22</b> |

## Scheduling Guidelines

### Freshmen must schedule:

|                 |   |
|-----------------|---|
| English:        | English 9 (1 credit)                      |
| Mathematics:    | Algebra or Geometry (1 credit)            |
| Science:        | Biology (1 credit)                        |
| Social Studies: | World History (1 credit)                  |
| PE/Health:      | Physical Education* and Health (1 credit) |

### Sophomores must schedule:

|                 |  |
|-----------------|--|
| English:        | English 10 (1 credits)                                   |
| Mathematics:    | Geometry or Algebra II (1 credit)                        |
| Science:        | Chemistry 1/Physics 1 or other science course (1 credit) |
| Social Studies: | Government and Economics (1 credit)                      |

### Juniors must schedule:

|                 |   |
|-----------------|---|
| English:        | English 11 or AP English & Composition (1 credits)                  |
| Mathematics:    | Algebra II, Precalculus, or math elective (1 credit)                |
| Science:        | Anatomy, Environmental Science, Chemistry 2 or Physics 2 (1 credit) |
| Social Studies: | American History (1 credit)   |

### Seniors must schedule:

|              |   |
|--------------|---|
| English:     | English 12 or Dual Enrollment (1 credits)                                   |
| Mathematics: | Algebra II, Precalculus, other math elective, or Dual Enrollment (1 credit) |

You must also include: 1 credit in Visual, Performing & Applied Arts (examples include Band, Jazz Band, Choir, Art, Woods, Culinary Arts, Yearbook, or some Career Center programs, etc.) and 2 credits in Language other than English

|                    |                       | <b><u>2024-2025</u></b><br><b><u>COURSE LIST</u></b> |                             | * Required Electives       |
|--------------------|-----------------------|--|-----------------------------|----------------------------|
| <b>9th Grade</b>   |                       |  |                             |                            |
| <b><u>MATH</u></b> | <b><u>SCIENCE</u></b> | <b><u>SOCIAL STUDIES</u></b>                         | <b><u>LANGUAGE ARTS</u></b> | <b><u>ELECTIVES</u></b>    |
| Algebra I          | Biology               | World History/Geography                              | English 9                   | Art I                      |
| Geometry I         |                       |  |                             | Band                       |
| Algebra II         |                       |  |                             | Choir                      |
|                    |                       |  |                             | Desktop Publishing         |
|                    |                       |  |                             | *Health                    |
|                    |                       |  |                             | High Performance PE        |
|                    |                       |  |                             | Jazz Band                  |
|                    |                       |  |                             | Photoshop                  |
|                    |                       |  |                             | *Physical Education        |
|                    |                       |  |                             | *Spanish I                 |
|                    |                       |  |                             | Woods I                    |
| <b>10th Grade</b>  |                       |  |                             |                            |
| <b><u>MATH</u></b> | <b><u>SCIENCE</u></b> | <b><u>SOCIAL STUDIES</u></b>                         | <b><u>LANGUAGE ARTS</u></b> | <b><u>ELECTIVES</u></b>    |
| Algebra II         | Chemistry 1           | Economics  | English 10                  | Art I, Art 2D/3D           |
| Geometry I         | Physics 1             | Government   |                             | Band                       |
| Precalculus        | Chemistry 2           |  |                             | Choir                      |
|                    |                       |  |                             | Desktop Publishing         |
|                    |                       |  |                             | Entrepreneurship/Marketing |
|                    |                       |  |                             | Food Art                   |
|                    |                       |  |                             | High Performance PE        |
|                    |                       |  |                             | Jazz Band                  |
|                    |                       |  |                             | Photoshop                  |
|                    |                       |  |                             | Spanish II                 |
|                    |                       |  |                             | Woods I & Adv Woods        |
| <b>11th Grade</b>  |                       |  |                             |                            |
| <b><u>MATH</u></b> | <b><u>SCIENCE</u></b> | <b><u>SOCIAL STUDIES</u></b>                         | <b><u>LANGUAGE ARTS</u></b> | <b><u>ELECTIVES</u></b>    |
| Algebra II         | Anat/Phys             | American. History                                    | English 11                  | Art I, Art 2D/3D           |
| Precalculus        | Chemistry 2           | Dual Enrollment                                      | AP English                  | Band                       |
| Dual Enrollment    | Physics 2             |  |                             | Choir                      |
|                    | Environmental Science |  |                             | Desktop Publishing         |
|                    |                       |  |                             | Entrepreneurship/Marketing |
|                    |                       |  |                             | Food Art                   |
|                    |                       |  |                             | High Performance PE        |
|                    |                       |  |                             | Jazz Band                  |
|                    |                       |  |                             | Photoshop                  |
|                    |                       |  |                             | Spanish II                 |
|                    |                       |  |                             | Woods                      |
|                    |                       |  |                             | Yearbook                   |
|                    |                       |  |                             | KCTC/NCCTC                 |
|                    |                       |  |                             | Dual Enrollment            |
| <b>12th Grade</b>  |                       |  |                             |                            |
| <b><u>MATH</u></b> | <b><u>SCIENCE</u></b> | <b><u>SOCIAL STUDIES</u></b>                         | <b><u>LANGUAGE ARTS</u></b> | <b><u>ELECTIVES</u></b>    |
| Algebra II         | Anat/Phys             | Dual Enrollment                                      | English 12                  | All Classes listed above   |
| Precalculus        | Chemistry 2           |  | AP English                  |                            |
| Dual Enrollment    | Physics 2             |  | Dual Enrollment             |                            |
|                    | Environmental Science |  |                             |                            |
|                    | Dual Enrollment       |  |                             |                            |

# Sample Class Schedule

**Freshman Sample Schedule**

|                 |               |
|-----------------|---------------|
| <b>1st Hour</b> | Band          |
| <b>2nd Hour</b> | Algebra I     |
| <b>3rd Hour</b> | Biology       |
| <b>4th Hour</b> | World History |
| <b>5th Hour</b> | English 9     |
| <b>6th Hour</b> | Spanish I     |

**Sophomore Sample Schedule**

|                 |                     |
|-----------------|---------------------|
| <b>1st Hour</b> | Geometry            |
| <b>2nd Hour</b> | Chem 1/Physics 1    |
| <b>3rd Hour</b> | Econ/Govt           |
| <b>4th Hour</b> | English 10          |
| <b>5th Hour</b> | High Performance PE |
| <b>6th Hour</b> | Spanish II          |

**Junior Sample Schedule**

|                 |                  |
|-----------------|------------------|
| <b>1st Hour</b> | Yearbook         |
| <b>2nd Hour</b> | Adv Woods        |
| <b>3rd Hour</b> | Chemistry 2      |
| <b>4th Hour</b> | Algebra II       |
| <b>5th Hour</b> | English 11       |
| <b>6th Hour</b> | American History |

**Senior Sample Schedule**

|                 |                       |
|-----------------|-----------------------|
| <b>1st Hour</b> | Yearbook              |
| <b>2nd Hour</b> | Physics 2             |
| <b>3rd Hour</b> | High Performance PE   |
| <b>4th Hour</b> | Precalculus           |
| <b>5th Hour</b> | College English       |
| <b>6th Hour</b> | Environmental Science |

# 6 Hour Class Schedule

| <b>CLASS HOUR</b>      | <b>M-T-W-Th-F</b> |
|------------------------|-------------------|
| 1st Hour               | 7:20—8:29 am      |
|                        |                   |
| 2nd Hour               | 8:33—9:33 am      |
|                        |                   |
| 3rd Hour               | 9:37—10:37 am     |
|                        |                   |
| 1st Lunch              | 10:37—11:07 am    |
| 4th Hour for 2nd Lunch | 10:41—11:41 am    |
| 4th Hour for 1st Lunch | 11:11—12:11 pm    |
| 2nd Lunch              | 11:41—12:11 pm    |
|                        |                   |
| 5th Hour               | 12:15—1:15 pm     |
|                        |                   |
| 6th Hour               | 1:19—2:20 pm      |

## **ENROLLMENT INFORMATION**

### **Dropping / Adding**

Dropping / adding courses is allowed for one week at the beginning of each semester. Dropping / adding is with teacher / counselor / principal permission.

### **Withdrawal from Courses**

If a student *must* withdraw from a course after the drop/add period has ended and no alternate placement can be found, the student must then accept a grade of NC or E depending upon the instructor's judgment of their performance in the course and any mitigating circumstances.

### **Adequate Yearly Progress**

Federal law requires that high school students demonstrate Adequate Yearly Progress in reading, writing, mathematics, and science.

In Michigan, AYP is measured by means of the Michigan Merit Examination (MME). All eleventh grade students are required to take the MME.

### **Repeating Courses**

1. Courses may be repeated as indicated in course descriptions.
2. Students may repeat courses for credit under the following conditions:
  - a. Permission granted by the principal
  - b. The first time the course is taken it must be passed with a grade of "D" or below
  - c. The second time the course is taken it must be passed with a grade of "C" or higher. The "C" or higher grade is posted to the student's transcript and credit is granted; the lower grade is changed to "CR" and credit is retained

### **Making Up A Credit Deficit**

A student with a projected credit deficit may make up that deficit by earning credits by means of summer school, night school, virtual high school, and correspondence course. The TCHS principal must approve in advance all such credits.

### **Participation In Graduation Ceremonies**

With the principal's approval, a member of a graduating class may participate in TCHS graduation ceremonies by having earned enough credits that the student is within a 1 credit of the minimum required by the Friday preceding the graduation date.

### **Qualifying For Academic Honors**

At graduation, to qualify for TCHS academic honors, a student must earn a cumulative GPA of a 3.0 or higher and have successfully completed the Michigan Merit Curriculum. Please see TCHS Handbook for more information.

## ENROLLMENT INFO continued

### **Non-Accredited Programs**

Tri County High School accepts credits transferred from state accredited high school programs or credits earned through instructional activities devised and conducted by state accredited teachers. Such credits might be earned by means of traditional classroom instruction, instruction through the mail, or instruction by means of the Internet.

Only grades awarded by accredited high schools are used to determine TCHS grade point average, National Honor Society eligibility, or class rank including valedictorian/salutatorian status.

At the discretion of the principal, “home-school” instruction will be accepted for credit if learning activities are conducted by persons state certified.

### **Personal Curriculum**

The Personal Curriculum (PC) is a process to modify specific credit requirements and/or content expectations based on the individual learning needs of a student. It is designed to serve students who want to accelerate or go beyond the MMC requirement and students who need to individualize learning requirements to meet the MMC requirements. The PC must be developed and coordinated with other plans, including the Educational Development Plan (EDP) and the Individualized Education Program (IE). Parents and student 18 years of age or older may request a PC. The high school counselor will assist in the process and have current information on eligibility.

#### **Eligibility for Use of Personal Curriculum Modification**

A personal curriculum may be appropriate for a student who has demonstrated one or more of the following:

- \*Ability in a specific skill area consistent with a career pathway and/or a post-secondary goal or plan as determined by the EDP that requires additional or specialized instruction when there are limitations in time available for elective opportunities
- \*Ability to succeed in accelerated or advanced math, science, English language arts, or world languages
- \*Desire to complete math requirements, including the first half credit of Algebra II, through CTE or other program
- \*Eligibility for special education services and a documented need to make modifications determined to be necessary because of the student’s disability
- \*Lack of progress on the MMC despite documented interventions, supports, and accommodations for a student with an IEP
- \*Transferring from out of state or from a nonpublic school after successful completion of the equivalent of two years of high school credit

### **Course/Credit Requirements**

#### [Personal Curriculum Parent and Educator Guide](#)

Companion Documents

## **ENROLLMENT INFO continued**

### **Graduation of Students with Disabilities**

In accordance with state and federal law, a TCHS student with a disability will receive support services designed to address her/his individual needs. To the fullest extent possible, the student will participate in the general curriculum.

To receive a TCHS diploma, a special education student must fulfill the same minimum distribution requirements as regular education students.

Should an IEP team determine that a student is not capable of fulfilling all requirements for graduation, the student may instead be awarded a certificate of completion. A certificate of completion does not signify termination of the student's eligibility for special education services.

The duration of services may exceed the minimum eight (8) semesters required for a TCHS diploma.

### **NCAA Division I Freshman Eligibility Standards**

High school graduates who want to practice, compete, and receive athletic scholarships as freshman in NCAA Division I athletics must meet certain standards. Among the standards are qualifying ACT or SAT scores and satisfactory performance in high school academic core courses. Such students are responsible for making sure they fulfill all requirements while in high school. A copy of NCAA Division I and II Freshman Eligibility Standards is available from the TCHS Athletic Director.

All students who want to participate in intercollegiate athletics must complete the NCAA Clearinghouse. The Form is available through the TCHS Athletic Director.

All students who want to participate in intercollegiate (college) athletics must take the following high school courses:

1. Four years of English
2. Three years of mathematics Algebra I or higher level
3. Two years of natural or physical science (including one year of lab science)
4. One extra year of English, mathematics, or natural/physical science
5. Two years of social science
6. Four years of extra courses from any category above or foreign language

### **Testing Out**

"The board of a school district shall grant high school credit in any course to a pupil enrolled in" (that) "high school, but who is not enrolled in the course, who has exhibited a reasonable level of mastery of the subject matter of the course by attaining a grade of not less than "C+" (or 78%) "in a final examination in the course, or, if there is not a final examination, by exhibiting that mastery through the basic assessment used in the course which may consist of a portfolio, performance, paper, project, or presentation. For the purpose of earning credit under this section, any high school pupil may take the final examination in any course.

Once credit is earned under this section, a pupil may not receive credit thereafter for a course lower in course sequence (easier) concerning the same subject area."

*Tri County High School implements this law by means of the following:*

The student will take the semester final examination or other mastery assessment when it is regularly scheduled at the high school. In coming freshmen will take final examinations at the end of the eighth grade year.

- The grade for a successful course-completion-by-examination will be "CR" (credit).
- All credit-by-examination tasks must be completed before the twelfth grade year.
- The student must be of high school age.

### **Articulated Credits**

Students may receive articulated credits for certain approved courses that can be taken through Tri County



**Dual Enrollment Readiness  
Qualifying Assessments and Scores 2022-23**

| Assessment    | Test Section          | Content Area  | Minimum Qualifying Score |
|---------------|-----------------------|---|--------------------------|
| ACT           | Mathematics           | Mathematics   | 22                       |
| ACT           | Reading               | Reading   | 22                       |
| ACT           | Science               | Science   | 23                       |
| ACT           | English               | English   | 18                       |
| PSAT 8/9      | Critical Reading      | Evidence-Based Reading and Writing                        | 460                      |
| PSAT 8/9      | Mathematics           | Mathematics   | 510                      |
| PSAT 10       | Critical Reading      | Evidence-Based Reading and Writing                        | 460                      |
| PSAT 10       | Mathematics           | Mathematics   | 510                      |
| PSAT/NMSQT 11 | Critical Reading      | Evidence-Based Reading and Writing                        | 460                      |
| PSAT/NMSQT 11 | Mathematics           | Mathematics   | 510                      |
| SAT           | Critical Reading      | Evidence-Based Reading and Writing                        | 480                      |
| SAT           | Mathematics           | Mathematics   | 530                      |
| AP**          | Various subject areas | May qualify for credit and allow for higher level classes | Check with IHE           |
| CLEP**        | Various subject areas | May qualify for credit and allow for higher level classes | Check with IHE           |
| IB**          | Various subject areas | May qualify for credit and allow for higher level classes | Check with IHE           |
| ACCUPLACER**  | Various subject areas | May qualify for credit and allow for higher level classes | Check with IHE           |

**Please note: For the 2020-2021 school year student may qualify with a GPA. of 2.5 or higher.**

\*\*There are no state approved scores related to these assessments. Subject area and qualifying scores are specific to an Institution of Higher Education (IHE). It is best to contact the IHE to see what scores they accept as a qualifying score for the desired dual enrollment course.

- Depending on the policy of the post-secondary institution, the minimum grade required for taking the next college course in a sequence is “C”.
- TCHS is charged tuition for a dual enrollment course dropped by a student after the college drop deadline. A student who drops a dual enrollment course after the college semester drop deadline will not be allowed to enroll in a TCHS course to substitute for the dual enrollment class. Dual Enrolled grades will be letter grade only.
- Any student who receives an E or drops out of class after the full tuition drop date may incur tuition costs.

## BUSINESS EDUCATION

**Course: Entrepreneurship/Marketing**

*Credit: ½, ½*

*Prerequisite: 11th or 12 Grade*

*Course Description:* This course is an introduction to the marketing process and components of successful marketing and event planning. This course will involve after school events that students must attend.

## CAREER CENTER—KCTC

The following courses are offered through KCTC. Not all the courses are available to TCHS students every year. Some courses require that the student provide transportation for which they are not reimbursed. Course descriptions are available through TCHS counselors or the KCTC website, [www.kc-tc.org](http://www.kc-tc.org)

There are two (2) semesters in the KCTC school year. Unless otherwise noted, all courses are offered as two-year programs. *Many of these courses are articulated.*

### **Arts & Communication**

- Entrepreneurship & Marketing
- Graphic Communications

### **Engineering, Manufacturing & Industrial Technology**

- Applied Construction Technology
- Auto Collision Repair
- Automotive Technology
- Aviation Maintenance Technology
- Aviation Electronics
- Diesel & Equipment Technology
- Engineering & Architectural Design
- Heating, Ventilation, AC & Refrigeration
- Mechatronics
- Precision Machining Technology
- Welding

### **Health Sciences**

- Health Career Essentials—recommended for Juniors
- Sports Medicine & Therapies

#### *For Seniors*

- Diagnostics
- Emergency Medical Services
- Biomedical Technology—GVSU
- Medical Assistant
- Pharmacy
- Nurse Tech & Patient Care—Returning Seniors only

### **Human Services**

- Criminal Justice
- Hospitality & Culinary
- Teacher Academy

## CAREER CENTER—continued

### **Launch U**

Begins sophomore year; students will complete their HS diploma in five years instead of four, and will spend their 5th year at GRCC instead of TCHS. After completion of year 5, students will receive their HS diploma AND an associates degree from GRCC in the area of their choice. Choices for an associate's degree include: Information Technology Degree and Mechanical Design Degree

### **Natural Resources & Agriscience**

- Sustainable Agriscience

### **Technology & Digital Media**

- Digital Animation & Game Programming
- Information Technology

## CAREER CENTER—NCCTC

The following courses are offered through NCCTC. Not all the courses are available to TCHS students every year. Unless otherwise noted, all courses are offered as two-year programs. Course descriptions are available through TCHS counselors or NCCTC. *Many of these courses are articulated.*  
[www.ncresa.org](http://www.ncresa.org)

### **Programs offered:**

- Accounting
- Agriscience
- Automotive Technology
- Business Applied Technology
- Child Development Associate
- Construction Trades
- Cosmetology
- Criminal Justice
- Culinary Arts
- Engineering
- Future Educators
- Graphic Communications
- Health Science
- Heating, Ventilation, AC & Refrigeration
- Heavy Equipment Technology
- Information Technology
- Manufacturing
- Welding

## COMMUNICATION

### **Course: Desktop Publishing**

*Credit: ½*

*Course Description:* In this computer application class, students work with basic desktop publishing software with an emphasis on design. Students design posters, banners, invitations and complete a portfolio using Adobe Photoshop. This class is a prerequisite for Yearbook. Students interested in graphic design are strongly encouraged to take this class.

### **Course: Photoshop**

*Credit: ½*

*Course Description:* In this computer application class, students produce and edit photographs using Adobe Photoshop. Students will need access to a digital camera (some cameras are available for check out from teacher). This class is a prerequisite for Yearbook. Students interested in learning the basics of photography and digital editing are strongly encouraged to take this class.

### **Course: Yearbook**

*Credit: 1 credit (year-long course)*

*Prerequisite: Successful Completion of Photoshop, and Desktop Publishing, Application Process with permission of instructor, Grades 11-12*

*Course Description:* Students produce and market an all digital, online, high school yearbook. Yearbook students must be able to sell advertisements, produce yearbook spreads on the Jostens Online website, and take photographs at school events. Yearbook involves an after school commitment as students are required to attend school events for coverage. The Yearbook class also sponsors events that students must attend. This course may be repeated for credit with teacher permission

## DUAL ENROLLMENT

### Course: Dual Enrollment

*Credit:* ½ - 2½

*Prerequisite:* Required level or achievement on ASSET, MME, PLAN, or PSAT (see page 8) and Principal approval

*Course Description:* Students are enrolled in a college class and receive high school credit towards graduation. Students are required by state law to take a least one high school class while dual enrolled.

Colleges that students at TCHS have dual-enrolled:

- MCC
- GRCC
- FSU
- Muskegon Community College
- Baker
- Davenport
- GVSU

## MCC Dual Enrollment Courses

|            |                         |
|------------|-------------------------|
| ⇒ Engl 100 | Freshmen English 1      |
| ⇒ Engl 101 | Freshmen English 2      |
| ⇒ Hist 250 | US History through 1855 |
| ⇒ Hist 251 | US History 1855-present |
| ⇒ Arts 265 | Intro to Film           |
| ⇒ Comm 220 | Interpersonal Comm      |
| ⇒ Psyc 120 | Intro to Psycholgy      |
| ⇒ Span 130 | Spanish 1               |
| ⇒ Soci 235 | Social Problems         |
| ⇒ Envr 102 | Environ. Science        |
| ⇒ Biol 107 | Human Biology           |

\*This list is not exhaustive, students are able to chose other colleges/universities and other courses. **These are just the Dual Enrollment courses offered in our building.**

## Ferris Dual Enrollment Courses

|            |                                     |
|------------|-------------------------------------|
| ⇒ Math 115 | Intermediate Algebra                |
| ⇒ Math 130 | Adv Alg-Analytical Trig             |
|            | (equivalent course to MCC Math 180) |

## MTA—Montcalm Community College

The Michigan Transfer Agreement was designed to facilitate the transfer of general education requirements from one institution to another. Students may complete the MTA as part of an associates' degree or as a stand alone package at a Michigan Community College.

Starting in the 10th grade, students will work towards successfully completing at least 30 credits of coursework in six defined areas with at least a grade of a 2.0 in each.

When coursework requirements for meeting the MTA have been completed, the student may request that their transcript be posted MTA satisfied and must send an official copy to the four year institution.

## 4 Year Institutions in MTA

### 4-Year Institutions

- ⇒ Central Michigan University
- ⇒ Eastern Michigan University
- ⇒ Ferris State University
- ⇒ Grand Valley State University
- ⇒ Lake Superior State University
- ⇒ Michigan State University
- ⇒ Michigan Technical University
- ⇒ Oakland University
- ⇒ Saginaw Valley State University
- ⇒ University of Michigan—Ann Arbor
- ⇒ University of Michigan—Dearborn
- ⇒ University of Michigan—Flint
- ⇒ Wayne State University
- ⇒ Western Michigan University

### 4 Year Private Institutions

- ⇒ Cleary University
- ⇒ College for Creative Studies
- ⇒ Davenport University
- ⇒ Sacred Heart Major Seminary
- ⇒ Siena Heights University

## ENGLISH

### **Course: English 9**

*Credit:* 1

*Prerequisite:* Required Grade 9

*Course Description:* This course is for general or college bound students. Students will read classic and modern literature. A variety of written genres will be covered, including expository, informational and personal. Research techniques and manuscript preparation are developed.

### **Course: English 10**

*Credit:* 1

*Prerequisite:* Required Grade 10

*Course Description:* Students will study human relationships through thematic exploration of the ideas of American writers. Upon completion of the course, students will demonstrate competency in reading, persuasive writing and oral communication.

### **Course: English 11**

*Credit:* 1

*Prerequisite:* Required Grade 11

*Course Description:* This course is for general or college bound students. Students will study the specific history and development of human cultures as seen through literature. Students will compose a variety of writing pieces, including college/work related writing.

### **Course: English 12**

*Credit:* 1

*Prerequisite:* Required Grade 12

*Course Description:* This course is for general or college bound students. Students will study literature and composition skills that will prepare them to be successful in college and work.

### **Course: Advanced Placement English**

*Credit:* 1

*Prerequisite:* Teacher Recommendation for 11th & 12 grade students

*Course Description:* This focuses on rhetorical analysis of non-fiction texts and the development and revision of well reasoned, evidence-centered analytic and argumentative writing at a college level.

## FINE ARTS

### **Course: Art I**

**Credit:** 1

**Prerequisite:** Grades 9 - 12

**Course Description:** Students are introduced to many of the different forms of art and the basic terminology of visual art. Units include composition, perspective and drawing basics. Emphasis is placed on understanding the elements and principles of design. Students will use marker, pencil drawing, tempera paint, and clay. Students will continue the study of the elements and principles of design with more in depth assignments such as printmaking, clay, painting, and sculpture. Emphasis is placed on color theory.

### **2D Art**

**Credit:** ½

**Prerequisite:** C or better in Art 1A and 1B

**Course Description:** This course will first focus on the fundamentals of drawing: line, composition, proportion, spatial relationships, perspective, volume, light and shadow, foreshortening, value and texture. The second half will include an introduction to Painting techniques students can apply to original compositions using acrylic, tempera, and watercolor.

### **Advanced 2D Art**

**Credit:** ½

**Prerequisite:** Completion of pre-req class and instructor's approval.

**Course Description:** Students will work on advanced drawing and painting techniques, demonstrating mastery in perspective, proportion, composition, value and color theory.

### **3D Art**

**Credit:** ½

**Prerequisite:** C or better in Art 1A and 1B

**Course Description:** Students will explore three-dimensional art, developing skills in both additive and subtractive sculpture. Media will include clay, plaster, wire, paper mache, glass and mixed media.

### **Advanced 3D Art**

**Credit:** ½

**Prerequisite:** Completion of pre-req class and instructor's approval.

**Course Description:**

An extension of 3D Advanced Art A. Students will utilize advanced sculpture techniques working on a larger scale.

## FINE ARTS continued

### **Course: Food Art**

**Credit:** ½

**Prerequisite:** Grades 9-12

**Course Description:** Students are introduced to the art of preparation and presentation of food.

### **Course: Band**

**Credit:** 1

**Prerequisite:** Band students are expected to have participated in junior high band, or at least have a reasonable amount of proficiency on their instruments; may be repeated for credit

**Course Description:** Attendance at all band performances is required. The instrumental music department revolves, for the most part, around performance. The band begins the year with a rather extensive marching season consisting of shows for home football games and competitive performances. The concert season, which begins in November, involves concerts, District and State Band Festivals, Solo & Ensemble, and Pep Band. Band may be repeated for credit. *Successful completion of at least three (3) marching seasons will fulfill the TCHS physical education requirement. This course may be repeated for credit.*

### **Course: Choir**

**Credit:** ½-1

**Prerequisite:** None

**Course Description:** Students apply vocal musical skills to create and experience music as an ensemble. **This course may be repeated for credit.**

### **Course: Jazz Band**

**Credit:** ½-1

**Prerequisite:** Member of Band; pianists or guitarists; permission of instructor; may be repeated for credit

**Course Description:** High ability instrumental music students present polished performances in various venues. For Band students, Stage Band does not replace participation in concert band rehearsals and performances. Members of Jazz Band may be required to participate in evening performances. **This course may be repeated for credit.**

## INDUSTRIAL ARTS—Technology

### **Course: Woods I**

*Credit:* ½-1

*Prerequisite:* Grades 9 – 12; ability to work independently; ability to follow safety rules

*Course Description:* Students will learn wood technology, tool and equipment identification, safety, the use of hand tools and power tools and equipment, basic joinery, wood finishing processes, and fasteners. Students will build projects using the skills learned. Manufacturing/  
Mass production

### **Course: Advanced Woods**

*Credit:* ½-1

*Prerequisite:* Completion of Woods I

*Course Description:* Furniture Building and Cabinet making. **This course may be repeated for credit.**



## MATHEMATICS

### **Course: Algebra I**

*Credit:* 1

*Prerequisite:* Grades 9 - 12

*Course Description:* This course covers the basic tools of Algebra. The main focus is on solving and graphing equations. This course builds on material covered in Algebra I A. Polynomials, functions, and radical expressions are covered during this course.

### **Course: Geometry**

*Credit:* 1

*Prerequisite:* Algebra I

*Course Description:* Geometry is introduction to deductive thinking and its application to the real world. Geometry A consists of the study of the properties of shapes and objects. Skills that are necessary for Geometry are good spatial insight, and a good knowledge of algebra.

### **Course: Algebra II**

*Credit:* 1

*Prerequisite:* Geometry or Math III

*Course Description:* Algebra II is the study of the more advanced topics in mathematics. This course will cover variation, linear relations, matrices, systems of equations, and quadratic equations. Algebra II is required for admission to four-year colleges. Algebra II B will continue with the study of functions, powers, roots, and exponents. The course will finish with an introduction to trigonometry and polynomials. *This is an articulated course.*

### **Course: Financial Math**

*Prerequisite:* Grades 11 or 12

*Credits:*  $\frac{1}{2}$

*Course Description:* Financial mathematics is a course about personal money management. Students will apply critical thinking skills to analyze personal financial decisions based upon current & projected economic factors. Math & calculators related to the real world experiences include some of the following: net pay, income taxes, calculating mortgage payments, property taxes, insurance, buying a home & closing costs, interest (simple, discount & compound interest), financial aid for college, debt, retirement methods, credit cards, checking & savings accounts, loans, investments including stocks & bonds, retirement savings as well as other topics as time allows.

## MATHEMATICS continued

### **Course: Precalculus**

*Prerequisite:* Algebra II

*Credits:* 1

*Course Description:* Pre-Calculus begins by going more in depth with functions, including power, polynomial, rational, exponential, logarithmic, and trigonometric functions. It also covers right triangle trigonometry as well as trigonometric identities and equations. In the second half of the class we study matrices, conic sections, parametric equations, vectors, polar coordinates, complex numbers, sequences and series. We also end with an introduction to calculus covering limits and derivatives.

### **Course: Contemporary Mathematics**

*Prerequisite:* Grade 11 or 12

*Credits:*  $\frac{1}{2}$

*Course Description:* The goal of this course is to help students be better prepared for basic college level mathematics and the content standards match those covered in a general education college math course. This class exposes students to a wide variety of mathematical concepts and their applications. Topics include algebraic applications, geometry, statistics, probability and mathematics of finance.

## MODIFIED CURRICULUM

Modified Curriculum courses are available to students who qualify under the terms of their Individualized Educational Development Plan (IEP).

### **American History**

Students will gain understanding of the timelines and historical events. Students will be able to identify important people and cultures that have contributed to the development of our government and country.

### **CBVT**

Students will work in a community job placement to gain employability soft skills, develop interpersonal skills, and communication skills needed to be gainfully employed.

### **Earth Science**

Study of surface features, how rocks and fossils help us understand history, common objects made from earth materials, recycling, safety precautions with the three states of water, and weather and weather tools.

### **English**

Basic English 9 - 12

Students will work individually on IEP goals and Michigan High School Extended Benchmarks for language arts. Topics covered: Fluency, Comprehension, Grammar, Applied Writing Skills, Basic Story Elements, Study of Different Genres, Poetry and Spelling.

### **Government**

Students will gain understanding of the American systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system.

### **KTC**

This unique program of hands-on learning and career exploration helps students learn what it means to be successful employees and gain valuable skills they can use at work and in life. Students will participate in hands-on learning and class field trips. Students can apply what they learn in the classroom through internships at actual job sites where they will be mentored by

business partners and supported by the Transition Center Team.

### **Life Science**

Study of cells and classification systems, comparison of major classification groups, life cycle of an organism associated with human disease, basic technology used to prevent, diagnose, and treat disease in humans, and dominant and recessive traits.

### **Mathematics**

Basic Math 9 – 12

Students will work individually on IEP goals and Michigan High School extended benchmarks for mathematics. Topics covered: Basic and Applied Math Skills, Patterns, Time, Money, Measurement, Graphs, and Area.

### **Physical Science**

Study of household and agricultural material, atoms, motion of molecules in solids, liquids and gasses, simple and parallel circuits and physical changes in matter.

# PHYSICAL EDUCATION

## High Performance Training

*Credit: 1*

*Prerequisite:* This is a semester class and may be taken more than once.

*Course Description:* This course is designed for our male and female athletes. Non-athletes are welcome in the class upon approval of instructor and counselor, should numbers allow. This is an intense class designed to meet the needs of the serious athlete. This course will provide each individual with programs that will develop significant strength gains while improving the individual's cardiovascular level as well. Proper nutrition, rest, and dietary supplements will be addressed, as well as the dangers associated with the use of illegal muscle enhancing drugs. Monthly testing in the areas of strength, vertical jump, speed, and agility will be recorded and evaluated. Form running and advanced running techniques will be taught as part of the speed development unit. Scholastic achievement, leadership, sportsmanship, and career direction are also critical aspects of course content. Student/athletes will benefit from the opportunity to improve strength and conditioning during school hours while having additional time for enhancing academic responsibility and accountability outside of school. This course may be taken more than once.

## Course: Physical Education

*Credit: ½*

*Prerequisite:* Required for 1<sup>st</sup> time P.E. students

*Course Description:* Students will concentrate on developing personal fitness. Students will be required to perform exercises that involve building muscle mass as well as aerobic activity. Students will be tested on their growth in several areas, such as; flexibility, strength and endurance. Grading will be based on attendance, participation, and physical achievement on a personal level. With prior approval from the high school principal, the physical education requirement may be fulfilled by successful completion of at least three (3) seasons of marching band.

## Course: Health 9

*Credit: ½*

*Prerequisite:* Required Grade 9

*Course Description:* Students explore procedures and information necessary for a healthy lifestyle.

Components include the study of alcohol, tobacco, and other drugs, personal behavior, mental health, environmental influences on health and human physiology. Students will explore stress reduction, nutrition, and reproductive health.

## SCIENCE

### **Course: Chemistry I**

*Credit:* ½

*Prerequisite:* Grade 10

*Course Description:* Chemistry is the study of the composition of matter. In this course you will study topics such as atomic structure, stoichiometries, electron configuration, quantum numbers, Periodic Table, chemical bonding, solutions, acids, bases, salts, chemical equilibrium and oxidation-reduction. Many laboratory experiments will be used to reinforce the principles being studied. This subject involves the extensive use of algebraic mathematics.

### **Course: Chemistry II**

*Credit:* 1

*Prerequisite:* Algebra II

*Course Description:* Chemistry is the study of the composition of matter. In this course you will study topics such as atomic structure, stoichiometries, electron configuration, quantum numbers, Periodic Table, chemical bonding, solutions, acids, bases, salts, chemical equilibrium and oxidation-reduction. Many laboratory experiments will be used to reinforce the principles being studied. This subject involves the extensive use of algebraic mathematics.

### **Course: Biology**

*Credit:* 1

*Prerequisite:* Required grade 9

*Course Description:* The biology capstone class will bring together the ideas studied in Introductory & Molecular Biology, Earth Science, Introductory Chemistry and Introductory Physics courses and bring them together to study biological topics which include maintaining environmental stability, element recombination, changes in ecosystems, human impact, populations, environmental factors, Darwin's theory of evolution, evolutionary evidence, natural selection and origin of life studies.

## SCIENCE continued

### **Course: Anatomy/Physiology**

*Credit:* 1

*Prerequisite:* Successful completion of biology

*Course Description:*

**Anatomy & Physiology A:** Introductory course to human anatomy and physiology. Students will understand the importance, anatomy, physiology, homeostatic mechanisms, and chemistry of cells and tissues, and the skeletal, muscular, nervous systems, and endocrine systems for which they support. Students will also learn vocabulary pertinent to medical, anatomical, physiological, and chemical features and processes of these systems. Common diseases of each organ system will also be introduced.

**Anatomy & Physiology B:** Introductory course to human anatomy and physiology. Students will understand the importance, anatomy, physiology, homeostatic mechanisms, and chemistry of the senses, and the cardiovascular, lymphatic, urinary, respiratory, digestive, integumentary, and reproductive systems. Students will also learn vocabulary pertinent to medical, anatomical, physiological, and chemical features and processes of these systems. Common diseases of each organ system will also be introduced.

### **Course: Physics I**

*Credit:* ½

*Prerequisite:* Grade 10

*Course Description:* In Physics, you will study the concepts of displacement, velocity, forces (including gravity, friction, and other everyday forces), motion, projectiles, vectors, momentum, impulse, collisions, simple machines, gravitational forces between planets, torque, pressure, buoyancy, density, and fluid dynamics.

You will need a strong background in trigonometry, and should have some experience with scientific notation. It is recommended that you purchase your own scientific calculator.

## SCIENCE continued

### **Course: Physics 2**

*Credit:* 1

*Prerequisite:* Algebra II, taking Precalculus concurrently is beneficial

*Course Description:* In Physics, you will study the concepts of displacement, velocity, forces (including gravity, friction, and other everyday forces), motion, projectiles, vectors, momentum, impulse, collisions, simple machines, gravitational forces between planets, torque, pressure, buoyancy, density, and fluid dynamics.

You will need a strong background in trigonometry, and should have some experience with scientific notation. It is recommended that you purchase your own scientific calculator.

### **Course: Environmental Science**

*Credit:* 1

*Prerequisite:* Grades 11-12

*Course Description:* This science course covers a wide range of topics, including ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policies.

## SOCIAL STUDIES

### **Course: American History**

**Credit:** 1

**Prerequisite:** Required grade 11

**Course Description:** American History is a survey of the development of the United States from the time of the Industrial Revolution to WWII.

Attention is given to the Gilded Age, Progressive Era between Western Expansion and The Golden 20s. Western Expansion, The Golden 20's, and the Great Depression. American History is a survey of the development of the United States from 1940 to present day. Attention is given to World War II, the 1950's, Vietnam War, Civil Rights, and current topics.

### **Course: Economics**

**Credit:** ½

**Prerequisite:** Grade 10

**Course Description** This course is designed to bring someone with little or no knowledge of the subjects to the point at which they can understand the world around them, understand what they read in the papers and see on the news, and communicate with others intelligently on the subjects in question. Emphasis, to the extent possible, is placed on practice rather than theory, and the course is structured in such a way as to be engaging, even to those with little prior experience or interest in economics. The course will focus on the works of Dave Ramsey, Adam Smith, H and R Block and other outside economists. *This course also covers the Personal Finance state requirement for the Class of 2029 and beyond.*

### **Course: Government**

**Credit:** ½

**Prerequisite:** Required grade 10

**Course Description:** Government course description: American Government focuses on the foundations of government, the three branch system of government, foreign affairs/globalization, political parties/campaigns, citizenship/participation, civil rights, and current events, and how these aspects apply to today's world.

## SOCIAL STUDIES continued

### **Course: World History**

**Credit:** 1

**Course Description:** 400 AD through the present age This course includes studies of political and social revolutions in history throughout Asia, Africa, Europe, and Latin America. Specific topics of study include the role of religion in each area, the rise and fall of various empires, Europe in the Middle Ages, the Renaissance and Reformation, Enlightenment, the French Revolution, European imperialism, both World Wars, and the Cold War era.

## 21F ONLINE COURSES

The State of Michigan, under Section 21f of the State School Aid Act, has launched the choice for parents to request that their student(s), in grades 5-12, be enrolled in no more than two (2) online courses in place of a currently scheduled course. Tri County Area Schools supports online learning and as a district; we pride ourselves on innovative uses of technology to support learning. Keeping in line with our district's motto of helping every child achieve their best future, our goal is for academic accomplishment and student growth. We do, however, encourage parents to consider carefully if a 100% online course is ideal for their child given the fact that they will be forfeiting face-to-face interaction with a teacher.. Parents should carefully consider the unique qualities of their child when deciding if an online class is right for him/her. These factors include:

- Can your student self-advocate to seek help within a virtual setting?
- Can your student create and maintain a study schedule without the face-to-face instruction of a teacher?
- Does your student possess independent study habits needed to complete an entire course online without direct supervision?
- Does your student have the reading, writing, math and computer literacy skills to succeed in a class that is completely online?

*Prerequisite:* Permission of Counselor

*Course Description:* An interactive teacher directed internet connected learning environment, in which pupils are separated from their teachers by time/location. Beginning the 2015-16 school year, all 21F courses will be granted a letter grade.

Students are able to choose online courses to take from the Michigan Virtual University (MIVU) website. <https://michiganvirtual.org/courses/students/>

## WORK BASED LEARNING

*Course:* School - To - Work

*Credit:* Grade 10 maximum 1/6 hours; Grade 11 and 12, maximum 2/6 hours

*Prerequisite:* Valid driver license; registered vehicle; permission of career preparation coordinator; job placement related to documented career goals.

*Course Description:* Students gain on-the-job work experience in preparation for a career for which they have a documented interest. **This course may be repeated for credit**

## CREDIT RECOVERY

**Edgenuity**

*Credit:* ½ credit

*Prerequisite:* Permission of Counselor

*Course Description:* Students complete course work using a student directed internet based learning program.

**Spanish 1**

*Credit:* 1

*Prerequisite:* A basic understanding of the English language, in addition to strong organizational and listening skills.

Course Description: Students will be introduced to the Spanish language through the 5 C's: Communication, Culture, Connections, Comparisons, and Communities. They will be immersed in the Spanish language, and will be encouraged to use the language, applying what they learn about the 5 C's. Language acquisition will be primarily through TPRS (Teaching Proficiency through Reading and Storytelling). Fluency in the Spanish language will progress through the Novice Low, Mid, and High proficiency levels (as defined in the State of Michigan World Language Standards).

**Spanish 2**

*Credit:* 1

*Prerequisite:* Reaching the Novice High Proficiency Level within the topics covered in Spanish 1 (as required by the state of Michigan)

Course Description: By the end of Spanish 2, students will demonstrate proficiency of the Spanish language at the Novice High Level (as defined in the State of Michigan World Language Standards). Students will be able to function in highly predictable situations using words, phrases, and complete sentences. This will be accomplished through the continued understanding of the 5 C's (see Spanish 1), and also through TPRS (Teaching Proficiency through Reading and Storytelling).



**PLEASE click here to see the Edgenuity Course Catalog:**

<https://www.edgenuity.com/wp-content/uploads/2017/07/Course-Description-Catalog.pdf>

## **Viking Virtual Electives offered in the Edgenuity Course Catalog**

- Human Geography A/B
- Personal Finance
- Psychology A/B
- Environmental Science A/B
- Career Planning & Development
- Computer Science A/B
- Intro to Communication & Speech
- Intro to Information Technology
- SAT Prep Math
- SAT Prep Reading
- Sociology
- Art History

While the course catalog from Edgenuity shows more electives, these are currently the only elective courses that are offered to our TCHS students in addition to all traditional core classes offered in-person at TCHS.

# ARTICULATION—KCTC

|                              | <b>GRCC</b> | <b>Davenport</b> | <b>Baker</b> | <b>Ferris</b> |
|------------------------------|-------------|------------------|--------------|---------------|
| <b>KCTC</b>                  |             |                  |              |               |
| Graphic Communications       | X           | X                |              | X             |
| 3D Animation and Game Design | X           |                  |              |               |
| Entrepreneurship & Marketing | X           | X                | X            | X             |
| Information Technology       | X           | X                | X            |               |
| Adv IT                       | X           | X                | X            |               |
| Applied Construction Tech    |             | X                |              |               |
| Engineering & Arch Design    | X           | X                | X            |               |
| HVACR                        | X           | X                |              | X             |
| Mechatronics                 | X           | X                | X            |               |
| Adv Mech                     |             |                  | X            |               |
| Precision Machining          | X           | X                |              |               |
| Auto Collision               |             | X                |              |               |
| Auto Tech                    | X           | X                | X            | X             |
| Aviation Electronics         | X           |                  |              |               |
| Aviation Maintenance         | X           | X                |              |               |
| Diesel & Equip Tech          |             | X                | X            | X             |
| CNA                          |             | X                |              | X             |
| Diagnostic                   |             | X                |              |               |
| Rehabilitation               |             | X                | X            |               |
| Exploring Health Careers     | X           | X                |              |               |
| Pharmacy Tech                |             | X                |              |               |
| Health Sci Early College     | X           | X                | X            |               |
| Criminal Justice             | X           | X                | X            |               |
| Intro Hospitality            | X           | X                | X            | X             |
| Adv Culinary/Adv Pastry      | X           | X                | X            | X             |
| Sustainable Agriscience      |             | X                |              |               |
| Welding                      |             |                  | X            | X             |

# CREDIT EQUIVALANCY—KCTC

## High School Credit Equivalency by Tech Center Program

Academic credit is awarded by each student's local high school and is subject to local district policies.

### Arts & Communications

|                          | Math     |        | ELA      |        | Science  |        | World Language |        |
|--------------------------|----------|--------|----------|--------|----------|--------|----------------|--------|
|                          | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC       | Credit |
| Graphic Communications   | *1       | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| 3D Animation/Game Design | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |

### Business, Management, Marketing

|                                 | Math     |        | ELA      |        | Science  |        | World Language |        |
|---------------------------------|----------|--------|----------|--------|----------|--------|----------------|--------|
|                                 | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC       | Credit |
| Information Technology          | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Advanced Information Technology | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Entrepreneurship & Marketing    | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |

### Engineering, Manufacturing, Industrial Technology

|                                    | Math     |        | ELA      |        | Science  |        | World Language |        |
|------------------------------------|----------|--------|----------|--------|----------|--------|----------------|--------|
|                                    | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC       | Credit |
| Applied Construction Technology    | *1       | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Engineering & Architectural Design | *1       | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Precision Machining                | *1       | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| HVACR                              | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Mechatronics                       | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Advanced Mechatronics              | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |

### Transportation

|                                 | Math     |        | ELA      |        | Science  |        | World Language |        |
|---------------------------------|----------|--------|----------|--------|----------|--------|----------------|--------|
|                                 | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC       | Credit |
| Auto Collision                  | *1       | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Automotive Technology           | *1       | 0.5    | 1        | 0.5    | 2        | 1      | 2              | 1      |
| Aviation Electronics            | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Aviation Maintenance Technology | *1       | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Diesel & Equipment Technology   | *1       | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |

### Health Sciences

|  | Math     |        | ELA      |        | Science  |        | World Language |        |
|--|----------|--------|----------|--------|----------|--------|----------------|--------|
|  | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC       | Credit |
| Certified Nursing Assistant (CNA) / NT | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Rehabilitation                         | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Exploring Health Careers               | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Pharmacy Technician                    | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Health Sciences Early College Academy  | 1        | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |

### Human Services

|                             | Math     |        | ELA      |        | Science  |        | World Language |        |
|-----------------------------|----------|--------|----------|--------|----------|--------|----------------|--------|
|                             | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC       | Credit |
| Criminal Justice            | *1       | 0.5    | 1        | 0.5    | 1        | 1      | 1              | 1      |
| Introduction to Hospitality | 1        | 0.5    | 1        | 0.5    |          |        |                |        |
| Advanced Culinary/Pastry    | 1        | 0.5    |          |        | *2       | 1      | *2             | 1      |

\* Students must complete Introduction to Hospitality and Advanced Culinary or Pastry to replace a full Science & World Language credit.

### Agriscience

|                         | Math     |        | ELA      |        | Science  |        | World Language |        |
|-------------------------|----------|--------|----------|--------|----------|--------|----------------|--------|
|                         | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC | Credit | Yrs@KCTC       | Credit |
| Sustainable Agriscience | *1       | 0.5    | 1        | 0.5    | 2        | 1      | 2              | 1      |

\* Students that complete 2 years of these programs are eligible for an additional .5 math credit.

**Note:** All the programs listed meet MMC VPAA and OLE requirements. Students completing these programs over the number of years indicated for Science and World Language may use this credit to replace the MMC required 2nd credit of World Language and the 3rd Science credit requirement, per MCL 380.1278a and MCL 380.1278b. *Contact KCTC counselors Gary Moline, Angie Pulera or Lara Roessler for more information.*

### Design Lab: 10th Grade Students

Students in Design Lab attend a full session at KCTC (2.25 hours). A portion of this class consists of an online course students select with the assistance of their sending school counselor that will meet an MMC or elective requirement. The courses available are: Geometry, Algebra II, Biology, Chemistry, Physics, Honors Algebra 2, Honors Chemistry, Honors Biology, Honors Physics and College and Career Preparation. Students complete the entire two semester course during their full year in Design Lab.

# ARTICULATION—NCCTC

|                      | Baker College                                     | Musk CC                              | FSU   | WEST SHORE | UNO        | UTI       | NMU       |
|----------------------|---|--------------------------------------|---|------------|------------|-----------|-----------|
| Advanced Auto        | AST 102<br>AST 111A<br>AST 221A<br>AST 231A       | AT 114<br>AT 120<br>AT 210<br>AT 212 | AUTO 112<br>AUTO 113  |            |            |           |           |
| Agriscience          |   |                                      |   |            |            |           |           |
| Auto Tech            | 5 Credits   | 12 Credits                           | 8 Credits<br>AUTO 112   |            | 18 Credits | 4 Credits |           |
| Building Trades      |   |                                      | BCTM 213  |            |            |           |           |
| Computer Aided Draft | ACT 101 ACT 102<br>CAD 111 CAD 112<br>ME 101      | CAD 100<br>CAD 110<br>CAD 130        | CDTD 111<br>CDTD 112  |            |            |           |           |
| Construction         |   | 3 Credits                            |   |            |            |           | 5 Credits |
| Cosmetology          | 40 Credits  |                                      | 12 Credits<br>(1) Business Administration (2) Small Business & Entrepreneurship BS Degree (3) Associate Degree in General Bus |            |            |           |           |
| Culinary Arts        | CUL 131A<br>CUL 141                               |                                      | RFIM 113<br>RFIM 114<br>RFIM 115<br>RFIM127<br>RFIM 204<br>RFIM 211<br>RFIM 229   |            |            |           |           |
| Early Childhood Ed   | ECE 101B<br>ECE 111B                              | ED 120<br>ED 118                     | Free Elective<br>EDCD 104   |            |            |           |           |
| Electronics          | EET 111A<br>EET 115                               | ELTC 101<br>ELTC 109                 | EEET 111<br>EEET114<br>EEET115<br>EEET122   |            |            |           |           |
| Graphic Comm         | GRC 100 GRC 101A<br>GRC 104 GRC 121<br>GRC 131A   | GR 110<br>GRD 107                    | GRDE 109<br>GRDE 116  |            |            |           |           |
| Health Occupations   | 3 Credits<br>MED 103 MED 105<br>Basic Human Anat  | 3 Credits                            | 2 Credits<br>MRIS 102<br>CCHS 102   | 11 Credits |            |           |           |
| Heavy Equipment      | 4 Credits   |                                      | 6 Credits<br>HEQT 120<br>HEQT 101   |            |            |           |           |
| Management Support   | OAD 121<br>WPG 101B<br>WPG 122<br>WPG 123 WPG 224 |                                      | ISYS 105 ISYS 270<br>ISYS307 ISYS 310<br>ISYS 325 ISYS 411<br>ISYS 216 ISYS 316   |            |            |           |           |
| Mechatronics         | 12 Credits  | 17 Credits                           |   |            |            |           |           |
| Precision Machining  |   |                                      | MFGT 110<br>MFGT 113  |            |            |           |           |
| Welding              |   | Up to 7 CR<br>Welding 101            | Welding 113   |            |            |           |           |

# CREDIT EQUIVALANCY—NCCTC



## Michigan Merit Curriculum Options

| Content Areas                 | MMC   | CTE options  | Personal Curriculum Options  |
|-------------------------------|---|--|--|
| 5 Math Credits                | 1) Algebra I<br>2) Geometry<br>3) Algebra II<br>4) 4 <sup>th</sup> Year math<br>5) Math Integration (Geometry/Algebra II)   | Math Integration can be met through the following programs:<br>• Agriscience<br>• Graphics Communications<br>• Business Applied Technology<br>• Culinary Arts<br>• Automotive Technology<br>• Construction Trades<br>• Truck & Heavy Equipment Technologies<br>• Mechanical Engineering<br>• Welding<br>• Health Science<br>• Cosmetology<br>• Early Childhood | <b>Algebra II modifications (choose)</b><br>• Successfully earn 1 semester of Algebra II<br>• Algebra II Content over 2 years for 2 full credits<br>• Successfully earns 1 semester of statistics, functions, and data analysis<br>• Successfully earns 1 semester of technical mathematics<br><b>All students MUST do all</b><br>• Successfully earn 3.5 credits of math (including geometry and algebra)<br>• Successfully earn at least 1 math credit during the final 2 years of high school |
| 4 ELA Credits                 | 1) ELA 9<br>2) ELA 10<br>3) ELA 11<br>4) ELA 12   | None   | None   |
| 3 Science Credits             | 1) Biology<br>2) Physics or Chemistry<br>3) 3 <sup>rd</sup> Science   | • 1 credit Biology<br>• 1 credit Chemistry, Physics, Anatomy, Ag Science or 1 course that covers Chemistry and Physics benchmarks<br>• Science 3 <sup>rd</sup> credit<br>• Option 1: 1 credit Computer Science<br>• Option 2: Formal CTE Program or Curriculum   | None   |
| 3 Social Studies Credits      | 1) 10 US History and Geography<br>2) World History and Geography<br>3) ½ credit in Economics<br>4) Civics   | None   | <b>2 credits completed, including civics 3<sup>rd</sup> credit may be earned by:</b><br>• 1 additional credit in:<br>o English<br>o Math<br>o Science<br>o Language other than English<br><b>OR:</b><br>• Completion of a formal CTE program<br><i>This credit must be in addition to the number of those credits otherwise required.</i>  |
| Health and Physical Education | 1) 1 credit in health and physical education<br><b>OR</b><br>2) ½ credit in health and<br>3) ½ credit awarded for participation in extracurricular activities involving physical activity   | None   | <b>1 credit may be earned by:</b><br>• 1 additional credit in:<br>o English<br>o Math<br>o Science<br>o Language other than English<br><b>OR:</b><br>• Completion of a formal CTE program<br><i>This credit must be in addition to the number of those credits otherwise required.</i>   |
| Visual and Performing Arts    | 1 credit in visual arts, performing arts, or applied arts   | All CTE programs are considered to be applied arts courses   | <b>1 credit may be earned by:</b><br>• 1 additional credit in:<br>o English<br>o Math<br>o Science<br>o Language other than English<br><b>OR:</b><br>• Completion of a formal CTE program<br><i>This credit must be in addition to the number of those credits otherwise required.</i>   |
| On-Line                       | 1 credit in   | All CTE programs are considered to contain on-line requirements  | None   |
| World Language                | 1) 1 credit (K-12) that is grade-appropriate in a language other than English<br>2) 2 <sup>nd</sup> credit (K-12) that is grade-appropriate in a language other than English<br><b>OR:</b><br>Completion of a district-approved CTE program<br><b>OR:</b><br>1 additional credit in visual or performing arts | May replace 1 credit by completing a Formal CTE program  | None   |