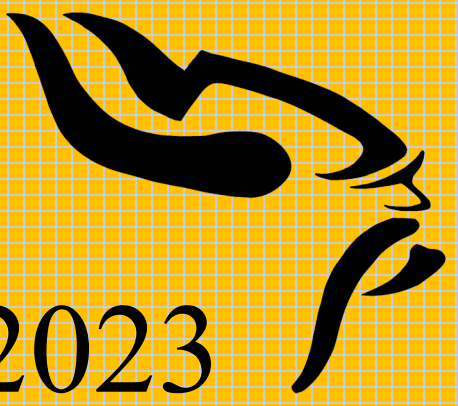
Tri County High School

course catalog

Programs that we offer that many districts do not:

Anatomy/Physiology
Entrepreneurship & Marketing
Food Art
Woodshop



2022-2023

Tradition Character Achievement Success

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ENROLLMENT INFORMATION

The following information is to be used when requesting classes for the **2022-2023** 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
TOTAL	***22***

Scheduling Guidelines

Freshmen must schedule:

English:	English 9 (1 credit)
Mathematics:	Math I, Algebra, or Geometry (1 credit)
Science:	Earth Science, Intro Bio
Social Studies:	World History (1 credit)
PE/Health:	Physical Education,* and Health (1 credit)

Sophomores must schedule:

English:	English 10 (1 credits)
Mathematics:	Math II, Geometry, Algebra II (1 credit)
Science:	Biology (1 credit)
Social Studies:	Government and Economics (1 credit)

Juniors must schedule:

English:	English 11 (1 credits)
Mathematics:	Math III, Algebra II or math elective (1 credit)
Science:	Physical Science, Chemistry or Physics (1 credit)
Social Studies:	American History (1 credit)

Seniors must schedule:

English:	English 12 or Dual Enrollment (1 credits)
Mathematics:	Math IV, Algebra II A & B, or math elective (1 credit)

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

		2022-2023 **COURSE LIST**		* Required Electives
9th Grade				
MATH	**SCIENCE**	**SOCIAL STUDIES**	**LANGUAGE ARTS**	**ELECTIVES**
Algebra I	Earth Science	World History/Geography	English 9	Art I
Geometry I	Biology A			Band
	Biology B			Choir
				Computers
Math I				Desktop Publishing
				Drafting
				*Health
				Jazz Band
				*Physical Education
				*Spanish I
				Woods I
10th Grade				
MATH	**SCIENCE**	**SOCIAL STUDIES**	**LANGUAGE ARTS**	**ELECTIVES**
Algebra II	Biology A	Economics	English 10	Art I, Art 2D/3D
Geometry I	Biology B	Government		Band
Math II	Chemistry I			Choir
				Desktop Publishing
				Drafting I & Adv Drafting
				Entrepreneurship/Marketing
				Food Art
				Illustrator
				Jazz Band
				Media Communications
				PE - High Performance
				Photoshop
				Spanish II
				Woods I & II
11th Grade				
MATH	**SCIENCE**	**SOCIAL STUDIES**	**LANGUAGE ARTS**	**ELECTIVES**
Algebra II	Anat/Phys	American. History	English 11	Art I, Art 2D/3D
Math III	Chemistry I, II		AP English	Advanced 2D/3D
Pre Calculus	Physics I			Band
				Choir
				Computers
				Desktop Publishing
				Drafting I - Adv Drafting
				Entrepreneurship/Marketing
				Food Art
				Illustrator
				Jazz Band
				PE - High Performance
				Photoshop
				Psychology
				Spanish I-V
				Woods I - IV
				Yearbook - All Year
12th Grade				KCTC/NCCTC
MATH	**SCIENCE**	**SOCIAL STUDIES**	**LANGUAGE ARTS**	**ELECTIVES**
Accounting	Anat/Phys	Dual Enrollment	English 12	All Classes listed above
Math IV	Chemistry I, II	Psychology	Dual Enrollment	
Pre Calculus	Physics II		AP English	
Stats				

Sample Class Schedule

Freshman Sample Schedule

1st Hour	Band
2nd Hour	Algebra I
3rd Hour	Earth Science/Bio
4th Hour	World History
5th Hour	English 9
6th Hour	Spanish I

Sophomore Sample Schedule

1st Hour	Math II
2nd Hour	Biology
3rd Hour	Econ/Govt
4th Hour	English 10
5th Hour	High Performance PE
6th Hour	Spanish II

Junior Sample Schedule

1st Hour	Yearbook
2nd Hour	Spanish III
3rd Hour	Chemistry
4th Hour	Algebra II
5th Hour	English 11
6th Hour	American History

Senior Sample Schedule

1st Hour	Yearbook
2nd Hour	Anatomy/Phys
3rd Hour	Spanish IV
4th Hour	Psychology
5th Hour	College English
6th Hour	Math

6 Hour Class Schedule

CLASS HOUR	M-T-W-Th-F
1st Hour	7:20—8:25 am
2nd Hour	8:29—9:29 am
Advisory	
3rd Hour	9:33—10:33 am
1st Lunch	10:33—11:03 am
4th Hour for 2nd Lunch	10:37—11:37 am
4th Hour for 1st Lunch	11:07—12:07 pm
2nd Lunch	11:37—12:07 pm
5th Hour	12:11—1:11 pm
6th Hour	1:15—2:15 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

Personal Curriculum Additional Resources: Supplement to the Personal Curriculum Parent and Educator Guide

Personal Curriculum Frequently Asked Questions: Supplement to the Personal Curriculum Parent and Educator Guide

Guidelines for the Use of Educational Development Plans

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.

Dual Enrollment Readiness
Qualifying Assessments and Scores 2020-2021

Assessment	Test Section	Content Area	Minimum Qualifying Score
EXPLORE	Mathematics	Mathematics	17
	Reading	Reading	15
	Science	Science	20
	English	English	13
PLAN	Mathematics	Mathematics	19
	Reading	Reading	17
	Science	Science	21
	English	English	15
ACT	Mathematics	Mathematics	22
	Reading	Reading	22
	Science	Science	23
	English	English	18
MME*	ELA	ELA	2100
	Mathematics	Mathematics	2100
	Science	Science	2100
	Social Studies	Social Studies	2100
PSAT 8/9	Critical Reading	Evidence-Based Reading and Writing	460
	Mathematics	Mathematics	510
PSAT 10	Critical Reading	Evidence-Based Reading and Writing	460
	Mathematics	Mathematics	510
PSAT/NMSQT 11	Critical Reading	Evidence-Based Reading and Writing	460
	Mathematics	Mathematics	510
SAT	Critical Reading	Evidence-Based Reading and Writing	480
	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

* MME scores are based on the Spring 2018 administration of the M-STEP exams
**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*: Computer Applications**
Credit: ½
Course Description: An emphasis is placed upon Google Documents, Creative commons and Copyright Laws, and cloud computing applications. Proper Digital Citizenship and Netiquette activities are explored. Students also work with coding.

***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

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
- Design Lab—for Sophomores

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

For Seniors
- Diagnostics
- Emergency Medical Services
- Biomedical Technology—GVSU
- Health Professionals
- Medical Assistant
- Pharmacy
- Certified Nursing Assistant
- CNA, 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

Programs offered:
- Agriscience
- Automotive Technology
- Business Applied Technology
- Child Development Associate
- Construction Trades
- Cosmetology
- Criminal Justice
- Culinary Arts
- Engineering
- Future Educators
- Graphic Communications
- Health Science
- Heavy Equipment Technology
- Information Technology
- Manufacturing Engineering
- Welding

COMMUNICATION

Course: Desktop Publishing
Credit: ½
Prerequisite: Successful Completion of Computer Application A, Grades 10-12
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: Illustrator
Credit: ½
Prerequisite: Successful completion of Computer Applications A, Grades 10-12
In this computer application class, students work with Adobe Illustrator to design many different pieces of vector art. Students will also be introduced to graphic design while working on design projects, such as, invitations, product packaging, and logos. Students interested in graphic design are strongly encouraged to take this class.

Course: **Media Communications**
Credit: 1/2 (can be taken for 2 semesters)
Prerequisites: Successful completion of IMovie
Grades 10-12

In this class, you'll learn how to express ideas clearly and creatively as well as develop familiarity with new media, electronic publishing, computer software, graphic design, web design, and multimedia production.

Areas this class will focus on:
Radio and TV Broadcasting--Tri County Morning Announcements and Events.
Social Media--using it to Promote Tri County High School
Publishing and Editing--finding and presenting news stories both traditionally and electronically--this will include our school newsletter and website.

Course: Photoshop
Credit: ½
Prerequisite: Successful Completion of Computer Application A, Grades 10-12
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 Class)
Prerequisite: Successful Completion of Computer Application A, 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

⇒ English 100	Freshmen English 1
⇒ English 101	Freshmen English 2
⇒ Math 120	Trigonometry
⇒ Math 159	College Algebra
⇒ History 250	US History
⇒ Comm 210	Speech
⇒ Comm 220	Interpersonal Comm
⇒ Psyc 120	Intro to Psycholgoy
⇒ Phil 222	BioEthics
⇒ Span 130	Spanish 1
⇒ SOCL 235	Social Problems
⇒ ENVR 101	Environ. Science
⇒ Biol 105	Intro to Anatomy

*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.**

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.

2 D 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 Stage 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.**

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MATHEMATICS

***Course*: Math I**
Credit: 1
Prerequisite: Grades 9 - 12
Course Description: The course includes material that focuses on arithmetic operations, problem-solving techniques, estimation of answers, measurement skills, geometry, data handling, simple statistics and the use of algebraic formulas to solve problems. Students solve problems in a variety of real world applications. The emphasis of the class is to understand and apply math to the real world. The continuation of Math I A. This course includes functions, polynomials, probability, and reasoning. The emphasis of the class is to understand and apply math to the real world.

***Course*: Math II**
Credit: 1
Prerequisite: Math I or Algebra I
Course Description: This course will build upon and reinforce the skills that were developed in Math I. There will be an introduction to systems of equations, functions, and geometric proofs. It is the continuation of Math II A. The course will include probability and statistics, quadratic and polynomial functions.

***Course*: Math III**
Credit: 1
Prerequisite: Math II, Geometry, or Algebra II
Course Description: This course will build upon and reinforce the skills that were developed in Math II. Matrix multiplication and operations will be introduced. The continuation of Math III A will include reinforcement of the skills developed throughout the student's math career. Upon completion of Math III, a student will have the equivalent of Algebra I and Geometry.

***Course:* Math IV**
Credit: 1
Prerequisite: Math III or Geometry
Course Description: Math IV is the study of the more advanced topics in mathematics. This course will cover variation, linear relations, matrices, systems of equations, and quadratic equations. Successful completion of Math IV will fulfill the Algebra II requirement for graduation. Math IV B will continue with the study of functions, powers, roots, and exponents. The course will finish with an introduction to trigonometry and polynomials. Successful completion of Math IV will fulfill the Algebra II requirement for graduation.

MATHEMATICS continued

***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: ½
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 ecomonic 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, dscount & 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*: Pre Calculus**
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 cover 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: ½
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 1st 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: 1
Prerequisite: Molecular or Biology A /B
Course Description: Chemistry is the study of the composition of matter. In this course you will study topics such as atomic structure, stoichiometrics, 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. *Recommended for students concurrently tanking Math 3.*

***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, stoichiometrics, 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. *This is an articulated course.*

***Course*: Biology A & B**
Credit: ½
Prerequisite: Required grade 9-10
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. *Intro, Molecular, & Capstone Biology completion is articulated.*

SCIENCE continued

***Course:* Earth Science**
Credit: 1
Prerequisite: 9th Grade Standing
Course Description: Students will be studying the nature of science, composition of the earth, surface processes, atmosphere and the oceans, earth dynamics, geologic time, beyond of earth systems, and earth resources.

***Course:* Anatomy/Physiology**
Credit: 1
Prerequisite: Successful completion of Sophomore 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: 1
Prerequisite: Biology A//B
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.

Recommended for students concurrently taking Math 3.

***Course*: Physics II**
Credit: 1
Prerequisite: Algebra II and Chemistry A
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.
This is an articulated course. Recommended for students concurrently tanking Math 3.

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. *This is an articulated course.*

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.

***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.

Course: Psychology
Credit: 1
Prerequisite: Grade 11/12 (with teacher permission) and strong reading ability
Course Description: Psychology is the study of human behavior. This class is designed to give the student a solid background in general psychology as a basis for taking college psychology. Students study mental health. The student is also exposed to psychological knowledge that can contribute to productivity, happiness, and social effectiveness of

SOCIAL STUDIES continued

any person. *This is an articulated course.*

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.

WORLD LANGUAGE

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).

Spanish 3
Credit: 1
Prerequisites: Earning a grade of "B" or higher in Spanish 2 and also reaching the Novice High Proficiency level within the topics covered in Spanish 2 (as required by the State of Michigan)

Course Description: This is an advanced-level course. By the end of Spanish 3, students will demonstrate proficiency of the Spanish language at the Intermediate-Low Level (as Defined in the State of Michigan World Language Standards). Students will be able to use the target language in multiple situations, and will be able to communicate in the past, present, and future. 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).

WORLD LANGUAGE continued

Spanish 4
Credit: 1
Prerequisites: Earning a grade of "B" or higher in Spanish 3 and also reaching the Intermediate Low proficiency level by the end of Spanish 3.

Course Description: This is an advanced-level course. By the end of Spanish 4, students will demonstrate proficiency of the Spanish language at the Intermediate Mid Level (as defined in the State of Michigan World Language Standards). Students will be able to function in the target language in a variety of situations, and will be able to use the past, present, and future interchangeably. This will be accomplished through the continuing understanding of the 5 C's (see Spanish 1), and also through TPRS (Teaching Proficiency through Reading and Storytelling).

ONLINE—EDGENUITY

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—TCHS

TCHS Courses	Mont CC	GRCC	Davenport University	Baker College	Musk CC	FSU
Accounting A/B		BA 156	ACCT 201			
Algebra 2 A or Math 4 A/B		TE 103				
American History A/B			HIST 212			
Anatomy A/B			BIOL 120			
Architectural Drafting A/B		AR 119				
Biology (Intro/Molec/ Capstone)			BIOL 110			
Chemistry A/B			CHEM 150			
Computer Applications A/ B	CMIS 100 CMIS 101	CO 101	CISP 101			
Mechanical Drafting A/B		EG 110				
Physics A/B			PHYS 110 PHYS 100L			
Sociology / Psychology			PSYC 101			
Spanish 1/2 A/ B			SPAN 111			
Spanish 3/4 A/ B			SPAN 121			
See a counselor for more information specific to the school where you are interested, and to fill out an articulation application for that school (after completion of the requirements stated in that agreement). Agreements may change from year to year.						

*Subject to change

ARTICULATION—KCTC

	GRCC	Davenport	Baker	Ferris
KCTC				
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.

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ARTICULATION—NCCTC

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

NC RESA

Michigan Merit Curriculum Options

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