MADISON METROPOLITAN
School District

Memorial High School
COURSE CATALOG
2020-2021

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Dear Students and Families,

It is my pleasure to welcome you to the 2020-2021 school year! We are excited to offer an incredible scope of courses and programs that we hope will build on your strengths, ignite your passions and interests, and meet your needs in the upcoming year.

Our school district has a vision that you will not only graduate, but graduate with the skills and abilities to be successful in college, career, and community. We want you to master academic content, build creativity, confidence and cultural competence, gain a strong sense of self and interpersonal skills and have a growth mindset to help you continually build the skills and abilities to be successful.

This vision for Madison's graduates comes to life in our students, and we hope that through the coursework included in this guide, every student will have the opportunities and experiences necessary to meet their goals and aspirations for the future.

We encourage you to devote time to thoughtful planning of your educational journey here in MMSD. Utilize the talents of our school counselors, teachers, administrators, and student services staff as you seek to make informed decisions about your future. Staff can provide insight and advice as you navigate the numerous choices that present themselves within this course selection- planning guide. Most importantly, have candid discussions with your parents about career interests, plans after high school, and the variety of pathways to reach your goals.

I am very excited about the upcoming 2020-2021 school year and all it has to offer.

Jane Belmore
Interim Superintendent

Madison has a vision for all students – that they will not only graduate, but graduate with the skills and abilities necessary to be successful in college, career, and community.

We want our students to master academic content, build creativity, confidence and cultural competence, gain a strong sense of self and interpersonal skills and have a growth mindset to help them continually develop the skills and abilities to be successful. This vision for Madison's graduates was developed with input from more than 2500 staff, students, and community members. And it is through our students that this vision comes to life.

Our graduates display a diversity of strengths, interests, skills, and bright futures that exist for every child in MMSD. In each of our students, we see them for who they are and who they are becoming.

CONFIDENCE
I advocate for myself, my ideas, and how I learn best to reach my goals.

COMMUNITY CONNECTION
I'm an active participant in my community.

INTERPERSONAL SKILLS
I collaborate and problem-solve with others, as a team member and a leader.

GROWTH MINDSET
I can learn anything and I look at mistakes as valuable learning opportunities.

WELLNESS
I make choices that are good for my mind and body.

CREATIVITY
I approach challenges with an open, creative mind and a love for learning.

CULTURAL COMPETENCE
I build meaningful connections with people who are different from me to learn from one another.

SELF-KNOWLEDGE
I know who I am and what I can do.

I'm on a Pathway.
Try and keep up.

As a current or future high school student, you have a key decision to make about what you want your high school experience to be going forward. You can attend classes traditionally or apply to a Personalized Pathway.

What does that mean?

All students attend high school every day for the same number of hours, taking all the required coursework that others take as well as any electives and advanced courses you choose. You will explore future options, set academic goals, and build relationships with your teachers and peers.

In a Personalized Pathway, you'll learn in a close-knit community, set academic goals, explore college and career options and tackle challenging classes, all around a broad theme that's connected to the world around you.

- See how your classes connect to each other and to the real world.

- Discover possibilities and apply what you learn to life after high school. You'll map out and refine your path to success after high school by exploring your unique interests and goals.

- Explore your passions and connect to your community. College visits, guest speakers, field trips, mock interviews, service learning, working with mentors, clinical experience and internships or apprenticeships are all a part of Pathways.These in-school and out-of-school experiences, tied to the broad pathways theme, help you prepare for college or your future profession.

- We combine all the great things about a traditional high school experience with a broad theme to take your learning deeper. You will explore this theme as it connects to the world around you.

The next two pages show an example schedule or program of study that students in each pathway could take.

Health Service Pathway
1

Information Technology & Communication Pathway
2

Traditional High School Pathway
3

"Pathways allows us to address individual student needs as a dedicated team. We aren't teaching "islands" where kids stop by for 50 min and move on. They know that we are a cohesive group who are going to work together to make sure they are successful."
– Erin Ennis, Pathways Teacher

"My first Pathways class I have every day is English. If my teacher brings up something... and then I hear it next hour in History, it really helps my understanding."
– Maggie, Pathways student

Health Service Pathway ①

A high school experience that's engaging and purposeful – Memorial's Health and Wellness – Program of Study

PATHWAYS CORE COURSES		**9**th	**10**th	**11**th	**12**th
	ENGLISH	**English 1** stand alone honors or earned honors (1.0)	**English 2** stand alone honors or earned honors (1.0) *OR*	**English 3** (1.0) *OR* **AP Language & Composition** (1.0)	**English 4** (1.0) *OR* **AP Literature & Composition** (1.0)
	SCIENCE	**Integrated Science** stand alone honors or earned honors (1.0)	**Chemistry** stand alone honors or earned honors (1.0) OR **Biology** (1.0)	**Biology** (1.0) *OR* **AP Biology** (1.0) OR **Chemistry** (1.0)	**Open for Choice** in or outside Pathway (see below for Recommended Pathways Course options)
	SOCIAL STUDIES	**US History** stand alone honors or earned honors (1.0)	**World History** *OR* **AP World History** (1.0)	**Modern U.S. History** (.5) *OR* **AP US History** (1.0) AND **Economics** (.5) OR **AP Micro Economics** (.5)	**Psychology** *OR* **AP Psychology** (1.0)
ELECTIVES Graduation Requirements include: Financial Literacy (.5), Physical Education (1.5), Health (.5), Humanities (1.0) theater, music, visual art or world language Many 4-Year Colleges require 2 or more years of a Single World Language		**Health Science Exploration** (.5) Required Pathways CORE Course	**Body Structure & Function** (.5) Required Pathways CORE Course	**Principles of Biomedical Science PLTW** (1.0) *OR* **Medical Terminology** (.5)	**Medical Interventions PLTW** (1.0) *OR* **Anatomy & Physiology** (1.0)
		Elective (.5)	Elective (.5)	Elective (.5)	Elective (.5)
		Elective (.5)	Elective (.5)	Elective (.5)	Elective (.5)
		Elective (.5)	Elective (.5)	Elective (.5)	Elective (.5)
		Elective (.5)	Elective (.5)	Elective (.5)	Elective (.5)
		Elective (.5)	Elective (.5)	Elective (.5)	Elective (.5)
MATHEMATICS in or outside Pathway Many 4-year colleges require four years of Math		**Algebra** stand alone honors or earned honors (1.0) *OR* **Geometry** (1.0)	**Geometry** stand alone honors or earned honors (1.0) *OR* OTHER MATH COURSE	**Full credit of math** (1.0)	**Open for Choice** (1.0)

Pathways CORE Courses
English, science, social studies and health science (and in some cases Math) concepts are brought together around a broad theme.

AVID students can take another elective such as World Language/Music/Art for 4 years while in Pathways

2 Information Technology & Communication Pathway

A high school experience that's engaging and purposeful – Memorial's Information and Communications Technology through Innovation – Program of Study

		9th	10th	11th	12th
PATHWAYS CORE COURSES	**ENGLISH**	**English 1** stand alone honors or earned honors (1.0)	**English 2** stand alone honors or earned honors (1.0) *OR*	**English 3** (1.0) *OR* **AP Language & Composition** (1.0)	**English 4** (1.0) *OR* **AP Literature & Composition** (1.0)
	SCIENCE	**Integrated Science** stand alone honors or earned honors (1.0)	**Biology** (1.0) OR **Chemistry** (1.0)	**Physics** (1.0) stand alone honors or earned honors (1.0) OR **Chemistry** (1.0)	**Open for Choice** in or outside Pathway (see below for Recommended Pathways Course options)
	SOCIAL STUDIES	**US History** stand alone honors or earned honors (1.0)	**World History** *OR* **AP World History** (1.0)	**Modern U.S. History** (.5) **AP US History** (1.0)	**Open for Choice** in or outside Pathway (see below for Recommended Pathways Course options)
ELECTIVES Graduation Requirements include: Financial Literacy (.5), Physical Education (1.5), Health (.5), Humanities (1.0) theater, music, visual art or world language Many 4-Year Colleges require 2 or more years of a Single World Language		**Pixels and Vectors Art** (.25) AND **Bit & Bytes** (.25) Required Pathways CORE Course	**Digital Art 1** (.5) AND/OR **Photo 1** (.5) OR **Intro to Programming** (1.0) Required Pathways CORE Course	**Video 1** (.5) AND/OR **Digital Art 2** (.5) AND/OR **Photo 2** (.5) **Computer Hardware and Software Essentials** (.5) AND/OR **Networking Essentials** (.5) AND/OR **Web Design** (.5)	**Yearbook Design and Publishing** (.5) - (1.0) OR **Digital Art 3** (.5) OR **Animation** (.5) OR **Video 2** (.5) **AP Computer Science** (1.0) AND/OR **Advertising and Social Media** (.5)
		Elective (.5)	Elective (.5)	Elective (.5)	Elective (.5)
		Elective (.5)	Elective (.5)	Elective (.5)	Elective (.5)
		Elective (.5)	Elective (.5)	Elective (.5)	Elective (.5)
		Elective (.5)	Elective (.5)	Elective (.5)	Elective (.5)
		Elective (.5)	Elective (.5)	Elective (.5)	Elective (.5)
MATHEMATICS in or outside Pathway Many 4-year colleges require four years of Math		**Full credit of math** (1.0)	**Full credit of math** (1.0)	**Full credit of math** (1.0)	**Open for Choice** (1.0)

Pathways CORE Courses
English, science, social studies and health science (and in some cases Math) concepts are brought together around a broad theme.

AVID students can take another elective such as World Language/Music/Art for 4 years while in Pathways

Sample Schedule - Pathways

Here's a sample schedule showing what your course load could look like while in one of the themed Pathways vs. the traditional route.

Traditional 9th Grade

- ENGLISH 1 — English 1 (honors options)
- SCIENCE — Biology (honors options)
- SOCIAL STUDIES — U.S. History (honors options)
- MATHEMATICS
- PHYSICAL EDUCATION | ELECTIVE
- ELECTIVE
- ELECTIVE

Pathways 9th Grade

- ENGLISH 1 — English 1 (honors options)
- SCIENCE — Biology (honors options)
- SOCIAL STUDIES — U.S. History (honors options)
- MATHEMATICS
- PHYSICAL EDUCATION | Pathways Core Course
- ELECTIVE
- ELECTIVE

EXPERIENTIAL LEARNING OPPORTUNITIES

Awareness Learning
ex. Field-trip or Guest Speaker

INTEGRATED PROJECTS

Academic Advising and Post-Secondary Planning

We know that it seems like there is a lot to know - and a lot of decisions to make - about choosing courses, making decisions about academic programs, and planning for after high school. Although these decisions are ultimately yours to make (with consultation and support from your family), there are many, many people at your high school who are ready to help you be successful on your journey to graduation. Additionally, throughout your high school journey you will get opportunities to explore your options through hands-on exploration opportunities, through reflecting on your growth, and through using Xello--an online post-high school planning tool.

Choosing Courses and Creating My Schedule

How many credits do I need to earn a diploma from MMSD?

Typically, students need somewhere between 22 and 26 credits to earn an MMSD diploma. If you transfer into MMSD from another school district during your high school years, the number of credits required to graduate from MMSD will be determined by your MMSD high school.

I Will Complete...	Credits needed for Graduation
9th - 12th grade at East, La Follette, West, or Memorial with a 7-period schedule	22 credits needed for graduation
10th - 12th grade having spent some time at East, West, or Memorial *and* some time at La Follette	24-26 credits needed for graduation
Will graduate from an MMSD high school but spent some of my time in 10th-12th grade at a school outside of MMSD	Credits needed vary

If you have additional questions, we encourage you to meet with your counselor to understand the credit requirements that match your individual situation. Specific policy language about MMSD graduation requirements can be found in our Board of Education Procedures Documents under Policy #3540: Graduation Requirements.

To support you in staying on track for graduation, we also have a requirement for the total number of credits you need in your schedule each year. Typically, students will need to have the following number of credits each year, for a 7-period day:

    9th-11th grade: 6 credits
    12th grade: 5 credits

Exceptions to this must be approved by your school principal and the MMSD Board of Education.

What specific courses do I need to take to earn my MMSD diploma?

Because of recent revisions to our graduation requirements (Summer 2016), the specific courses that you need to earn a diploma from MMSD varies depending on your grade level. Some variation may also exist for students receiving Special Education services based on their Individualized Education Plan or for students who are English Language Learners based on their individual learning needs. Please see the chart on the next page for more information.

MADISON METROPOLITAN SCHOOL DISTRICT

Graduation Requirements

22* credits

4 credits **English**
- Including English 1 and English 2

3 credits **Math**

3 credits **Science**

3 credits **Social Studies**
- Including US History and Modern US History
- Pass the state Civics exam

6½ credits **Electives**
- Including 1 credit of Humanities

1½ credits **Physical Education**

½ credits **Health**

½** credits **Financial Literacy**

For more information,
visit **mmsd.org/grad-requirements**

*La Follette class of 2020, 21 and 22 may have different credit requirements due to the change from a block schedule. See your counselor for details.
**Starting with the class of 2021

For students who are...	English	Math	Science	Social Studies	Additional Requirements
In the graduating class of June 2021 and beyond	4 credits *Including successful completion of English 1 and English 2*	3 credits *Including successful completion of courses in algebraic and geometric concepts*	3 credits *Including successful completion of courses in biological* **and** *physical sciences*	3 credits *Including successful completion of US History and one semester of Modern US History*	1.5 credits Physical Education .5 credit Health Education Civics Exam* 1 credit of Humanities *(e.g., Art, Theater, Music, World Language, etc.)* .5 credit Financial Literacy

*In addition to earning the specific credits identified, all graduateing students must also complete a **state-administered civics examination**. Students who do not receive special education services must achieve a proficiency of 65% or higher to fulfill the requirement. Students who receive special education services must participate in, and complete, the examination to fulfill the requirement. The test is currently available in the following languages: English, Spanish, Hmong, Arabic, Chinese, French, Japanese, Khmer, Korean, Mandinka, Nepali, Vietnamese, Somali, Tibetan, Wolof, and American Sign Language (in collaboration with Wisconsin School for the Deaf).

A more detailed description of the graduation requirements outlined above is provided in the policy language in our Board of Education Procedures Documents under Policy #3540: Graduation Requirements.

Can I get Physical Education credit for participation in a high school sport?
If you participate in an MMSD board approved sport, you have the opportunity to apply for Physical Education Replacement Credit (PERC) in your junior or fall of senior year. Through PERC, 11th and 12th grade students can request approval to substitute a half-credit of English, math, science or social studies (above and beyond graduation requirements in those areas) for a half-credit of PE. There is an application process and applications must be completed and submitted **before** your athletic season begins. There are also eligibility requirements that must be met in order to receive credit: You must be an athlete in good standing for the full season of your sport, meet your academic eligibility requirements and not incur any suspensions during your season. The list of board approved sports can be found in our Board of Education Procedures #3160 *Interscholastic Athletics* and the policy language governing the PERC process can be found in our Board of Education Procedures #3540: *Graduation Requirements*.

For more information and/or to get an application for PERC, please visit your high school athletic office or reach out to the contact listed on page 32.

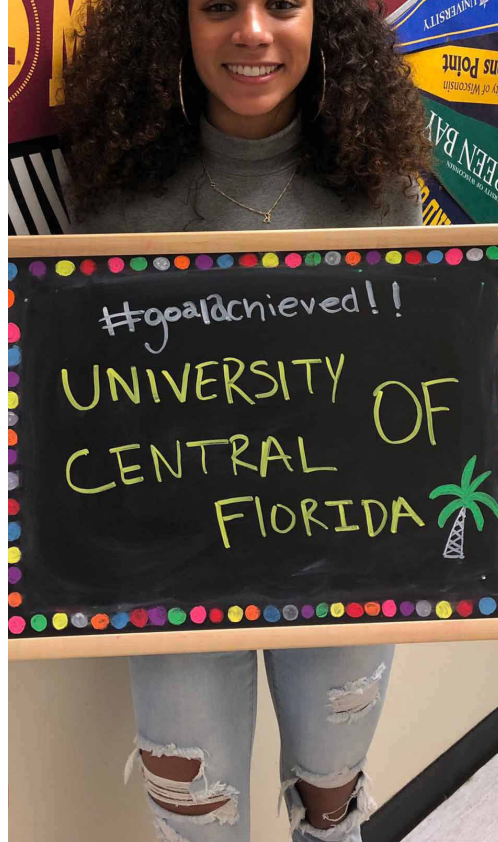**What if I took high school equivalent courses while I was in middle school?**
If you took high school equivalent courses while in 7th or 8th grade and - with your parent or educational guardian's support - completed the process of requesting to have these courses included on your high school transcript, these credits *count* towards your total graduation requirements. These courses should be listed on your high school transcript and the credits earned should be reflected in the Credit Summary feature of your high school transcript. If you have questions about this, please check-in with your high school counselor. Board policy language guiding this practice can be found under Policy #3541 in the MMSD Board of Education Procedures documents.

Planning for After High School

What about credit requirements for post-secondary education options like college, university, apprenticeship programs, etc.? Each college, university, and training program has a specific set of entrance requirements and unique standards for what it considers to be "appropriate high school coursework." We strongly encourage you to begin exploring admissions requirements for post-secondary options of interest early in high school. Your high school counseling department has a variety of resources that can help you learn more about how to choose courses that help you keep your options open for after high school. One especially important way to support your exploration in this area is Xello, an online post-high school exploration tool. As in middle school, you will also spend time in high school participating in Academic and Career Planning lessons and experiences with teachers and counselors to support you in exploring and preparing for your personal post-high school aspirations.

Though every post-secondary program will have its own specific entry requirements, a few general suggestions are:

- Post-Secondary Institutions want to know you are ready for college-level challenges:

  » Take the most challenging courses possible and consider experiencing at least some Honors, Advanced Placement, or college-level coursework.

- Post-Secondary Institutions appreciate what they call "well-rounded" coursework.

  » Elective courses in the arts, music, technical areas and languages support this well-roundedness.

  » A number of selective colleges and universities require students to have at least **2 years of a world language** to be eligible for admission. The recommendation from colleges is that students should take two years of the same language while in high school. Some colleges may require more.

- Specific Programs may want to see more of certain types of courses, based on the program:

  » Many apprenticeship programs want to see strong math, reading and writing preparation.

  » Some programs - especially those with heavy science, engineering, or math focus - may want to see more math coursework than we require for graduation.

  » Visual Arts, Music and Design programs often require submission of a portfolio and will want to see evidence of advanced coursework in the visual and/or performing arts.

- The more selective and competitive the post-secondary program, the more likely they will want to see four years in all core subject areas (i.e., English, math, science and social studies).

  » UW-Madison and other highly selective college admissions staff recommend 4 years of English, math, social studies and science as well as three to four years of sequential world language study in one language.

Two Thirds of MMSD Graduates Enroll in a 2 or 4 Year College

#goalachieved!!
UNIVERSITY OF CENTRAL FLORIDA

College Testing

Almost all two and four-year colleges require applicants to submit some form of assessment scores as part of the application process. To determine what assessment(s) are needed you will want to review the admissions information for your post-secondary institutions of interest. Most four-year colleges and universities will accept either the ACT or SAT but students who are applying to more highly competitive schools, or are interested in applying to a wide range of scholarships, may want to consider taking both. In addition, some competitive schools and programs will request that interested students take SAT subject tests to demonstrate mastery in a particular content area.

Visit our College and Career Planning websites to learn more!

mmsd.org/college-planning
mmsd.org/career-planning

You can take the ACT or SAT as many times as you want. For admissions purposes, most colleges and universities will use your highest score. 12th graders need to pay attention to the admissions timelines for your schools of interest so that you have taken the appropriate assessments and have had your scores submitted by the application deadline.

ACT (www.act.org)

American College Test - the ACT is a national college admissions test that consists of subject tests in English, mathematics, reading, and science. The ACT plus writing includes the four subject tests plus an additional writing assessment. ACT results are accepted by all four-year colleges and universities in the United States and are preferred by the UW system. All juniors are required to take the ACT at least once, during a district-administered assessment in spring. Students can re-take the ACT in their junior or senior year, if needed. For qualifying students, two fee waivers (that cover the cost of the test) are available for the ACT. Students may request that their scores be automatically shared with up to four postsecondary institutions at the time of testing. After registration students who test using a fee waiver can also request up to an additional 20 score reports for free.

PSAT/NMSQT (www.cb.org)

Preliminary Scholastic Assessment Test/National Merit Scholarship Qualifying Test is a practice test for the SAT. This test is also used to determine National Merit semifinalists. The PSAT/NMQST is offered in mid-October and is open to 10th and 11th grade students. Students interested in being considered for National Merit status must take this exam in their junior year. National Merit is a scholarship program that identifies and recognizes academically high-performing students. Many National Merit finalists receive scholarship awards either through the National Merit Scholarship Corporation or the postsecondary institution they elect to attend.

SAT & SAT Subject Tests (www.cb.org)

Scholastic Assessment Test - the SAT is a globally recognized college admission test that lets you show colleges some of what you know and how well you can apply that knowledge in the areas of reading, writing, and math. Most students take the SAT during their junior and/or senior year of high school. SAT subject tests are additional tests that are specific to particular subject areas such as math, science, English, history and languages. Fee waivers are available for qualifying students. Some post-secondary institutions may use SAT subject tests to support course placement decisions and/or admission decisions to specific postsecondary programs.

ACT Preparation

All students have access to free ACT test preparation through the Method Test Prep program linked to their Xello account. Method Test Prep provides a range of test preparation resources ranging from brief sets of practice questions in each subject area up to timed full-length practice tests.
Additional resources for test preparation can be found on the testing websites:

    ACT: www.act.org   SAT: www.collegeboard.org

What if I hope to be a student athlete in college?

If you are interested in being part of a Division I, II, or III athletic team during your college or university career, you will need to be aware of the eligibility requirements outlined by the National Collegiate Athletic Association. The NCAA establishes very specific guidance about what high school courses you take, how well you do in them, (i.e., your GPA), and your performance on the ACT or SAT. For specific information about eligibility requirements for Division I, II, and III, we encourage you to review the information that can be found at http://www.ncaa.org/student-athletes/future and to consult with your school counselor. To make sure that you are keeping on track with preparing to be eligible, the NCAA also recommends the following actions:

9th Grade	10th Grade	11th Grade	12th Grade
Meet with your high school counselor to share your interest in working towards Div I, II, or III athletic eligibility. Make sure to choose NCAA-approved courses as you schedule for 10th grade.	Register with the NCAA Eligibility Center at eligibilitycenter.org. Make sure to choose NCAA-approved courses as you schedule for 11th grade.	Check in with your counselor to make sure you will graduate on time with all required NCAA core courses. Take the ACT or SAT and submit your scores to NCAA. Have your preliminary transcript sent to NCAA.	Finish your last NCAA core courses, earning a minimum of 2.3 GPA. Take ACT or SAT again if necessary to achieve needed score(s). After April 1st - request final amateurism certification decision from the NCAA eligibility center. After graduation, ensure your final transcript is sent - with proof of graduation - to NCAA.
Monitor your academic performance to make sure you are meeting the grade point average and course completion expectations established by NCAA.			

Opportunities for Advanced Coursework and College Credit

As you choose courses, we also want to make sure you know about all of the opportunities that exist for advanced learning experiences so that you can take advantage of them during your four years of high school. Taking advanced coursework can support you in a variety of ways:

- The number-one predictor of **success on the ACT** is what courses a student takes. More rigorous courses directly correlate to higher ACT scores. We know that ACT scores open doors to college and scholarships.

- Universities look at the level of courses that students take. **Universities would rather see respectable grades in more challenging courses than a higher GPA with less challenging courses.**

- Advanced courses teach you how to **think and ask questions.** Essential skills that you need to do **college level work.**

- Students who take challenging courses often **earn college credit, reducing the expense** of the tuition bill in college.

- Students who take challenging courses in high school are **less likely to need remedial college courses, reducing that tuition bill again!**

- Students who challenge themselves are **more engaged in high school.**

- The AP Program offers a number of **AP Scholar Awards** to students for outstanding performance on AP Exams. If you qualify, colleges will recognize this achievement.

- These classes can **increase your chances for college-specific merit aid**. Approximately 31 percent of colleges and universities will consider a student's AP coursework when making decisions about which students will receive scholarships.

  » Students who have AP classes on their transcript impress financial aid officers—this often translates into a student receiving more free money to pay for college. (https://www.teenlife.com/blogs/benefits-ap-classes)

- You will have **more flexibility in college.** With several basic classes out of the way, you may want to add a second major or minor, take more electives, or study abroad and still graduate in four years. If you have multiple interests, having taken AP courses and scoring high enough on your AP exam in high school can make it more feasible to add a minor or even a second major to your undergraduate academic plan. Part of the fun of college is exploring classes outside of your requirements. Having AP credits will also free you to take more elective courses, which can also help you zero in on a major sooner.

Your school counselor and/or content teacher is a great resource if you would like to know more about any of the opportunities described below. You will also receive information about all these opportunities during the scheduling workshops with your school counselor that take place at your school, typically in January, each year.

Additional information about each of these opportunities is also available on the Madison Metropolitan School District website. Webpage links and contact information for each type of opportunity is provided on the next page.

Type of Advanced Coursework	What is it? & Why take it?	How do I choose this type of course? Who can I contact for more information?
Advanced & Honors	Honors courses provide opportunities for learners to explore course material at a broader, deeper and more complex level than the standard course. Advanced courses typically offer students who have taken introductory-level courses to deepen their knowledge and skill. The number-one predictor of success on the ACT is what courses a student takes. More rigorous courses directly correlate to higher ACT scores. ACT scores are generally one component of the college application and/or scholarship process. We encourage all students to find the right level of challenge and academic "stretch" that keeps them connected to, and interested in, their experiences as a learner. All students are encouraged to enroll in advanced courses in at least one department of interest to them while in high school, as students who challenge themselves are more engaged in high school. Many colleges and universities offer college level credit if you place into a higher level of a World Language, which is accessible by taking an advanced level World Language course.	Advanced or Honors courses are offered at your high school and you can select them when you choose your courses each year using Xello. These courses are open to all students and can be a benefit to take as students who challenge themselves are more engaged in high school. If you are wondering whether an Honors or Advanced course would be the right fit for you, we encourage you to speak with your current teachers as well as students who have taken the course(s) you are considering, as well as to consult with your school counselor and family.
Earned Honors	Some courses at each high school offer Earned Honors opportunities. To earn honors in these courses, students must earn a C or better in the course and have an average of 3.2 or higher on predetermined performance assessments. Students do not need to predetermine if they would like to pursue the honors option.	Contact your school counselor for more information and to determine which courses are offered for Earned Honors.

Chart continues on next page

Type of Advanced Coursework	What is it? & Why take it?	How do I choose this type of course? Who can I contact for more information?
Advanced Placement (AP) Courses	AP courses use college-level curriculum and assessments. They help you be more prepared for college-level work by introducing you to the pace and challenge of a college-level class. Any student may enroll in an Advanced Placement course. At the end of an AP course you can choose to take the AP exam. **Many colleges and universities award college credit (or let you access more advanced college courses) if you earn a high score (3, 4 or 5) on the AP exam.** Madison Virtual Campus (MVC) can provide fully online access to AP courses if scheduling issues exist or availability of the course at your school is limited. Enrollment in an AP class at another MMSD high school may be possible through the use of Virtual Learning Space (VLS) equipment.	AP courses are offered at your high school and you can select them when you choose your courses (using Xello) in the spring. For more information: https://assessment.madison.k12.wi.us/advanced-placement-information For more information regarding Madison Virtual Campus or Virtual Learning Space access to AP classes, talk to your school counselor. See school-specific contact information on page 32.
Dual Transcripted Credit (DTC) Courses	Dual Transcripted Credit Courses use college-level curriculum and assessments and help you experience the rigor and pace of college-level material. You will earn high school credit for a DTC course and, **if you complete the course with a "C" grade or better, you also receive college credit on a college transcript.** Many of these college credits are transferable to other colleges and universities.	Dual Transcripted Credit courses are offered at your high school. **Ask your counselor for a list of current offerings.** DTC courses are marked "DTC" in the course guide and on your transcripts.
Project Lead the Way Courses	Project Lead the Way (PLTW) courses are challenging, engaging, hands-on classroom experiences. PLTW courses in Engineering and Biomedical Sciences are offered. Students who successfully complete the nationally developed end-of-course assessment may be eligible for college credit through the Milwaukee School of Engineering (MSOE). With transcripted credit from MSOE, many colleges and universities will award college credits toward your program or major.	PLTW courses are offered at your high school. PLTW courses are marked "PLTW" in the course guide and on your transcripts.

Type of Advanced Coursework	What is it? & Why take it?	How do I choose this type of course? Who can I contact for more information?
Youth Apprenticeship (YA) Program Technical Coursework and Work-based Learning	Youth Apprenticeship courses are for 11th and 12th graders. The YA program combines academic and technical preparation with hands-on job experience. There are 12 state approved YA career cluster areas. YA students take technical-related coursework at either their high school or through a technical college/university and also spend time each semester in a workplace. College YA courses earn both high school and college credit. Work hours (during school year or summer) also earn high school credit.	There is an application process for Youth Apprenticeship courses. Typically, students will start this process in their 10th grade year, prior to making their junior year schedule. You can work with your school counselor, or Monique Billings (contact info below) to connect to the YA application process. https://cte.madison.k12.wi.us/youth-apprenticeship Monique Billings mdbillings@madison.k12.wi.us 608-663-5384
Start College Now and Early College Credit	The **Start College Now (SCN)** program provides juniors and seniors (11th and 12th graders) with the opportunity to take approved courses at Wisconsin Technical Colleges during the fall or spring semester. The **Early College Credit (ECCP)** allows juniors and seniors (11th and 12th graders) the opportunity to take approved courses at Wisconsin public (University of Wisconsin) and private universities. Course tuition and fees are at no cost to the student, provided MMSD's board of education determines that the course is eligible for high school credit and is not comparable to a course currently offered in any of the MMSD high schools or programs. Students are eligible to take up to 18 credits, and no more than 2 courses at a time, over the course of their junior and senior years. Students who successfully complete their college courses earn both high school and college credit.	There is an application process for both of the Early College Credit Options. Students interested in a Fall course must apply by **March 1st** of the prior spring. Students interested in a Spring course must apply by **October 1st** of the prior Fall. Completed applications should be given to your school counselor who will submit them for you. Your school counselor will also help you explore how best to plan the rest of your high school schedule to accommodate your courses. https://cte.madison.k12.wi.us/early-college-credit-options Jen Wegner jwegner@madison.k12.wi.us 608-663-5229

Personalizing Your Learning Experience & Earning High School Credit

As an MMSD student you have access to a variety of educational experiences that happen both within and outside of your high school classroom. Some of these opportunities won't show up in your high school course catalog but can help enhance or extend the experiences you are having in your classes. These experiences include courses offered through our online learning platform (Madison Virtual Campus), self-designed independent study projects, experiential and work-based learning opportunities and unique district-wide course offerings. They offer you more choices and greater opportunity to personalize your learning experience during high school.

Typically, these experiences:
- Have a sign-up or application process and specific requirements that must be met to earn high school credit.
- Require additional learning and preparation time, outside of your school day.

A brief description of each of these programs is provided below. We encourage you to talk with your parents, teachers and school counselor to learn more about whether or not one of these options might be a good match for you based on your interests, skills, and goals.

Type of Experience	What is it? How does it work?	How do I earn credit?
Volunteer/Work-Based, Experiential Learning Experiences	Volunteer/Work-Based, Experiential Learning Experiences, including job-shadowing, internships, supervised, paid (or unpaid) employment, and apprenticeships offer a great opportunity to earn valuable knowledge and skills outside of the high school classrooms. Students who engage in district-approved volunteer or work-based, experiential learning opportunities and complete the program requirements may earn up to 5 elective credits, and apply these credits to fulfill graduation requirements. Credits are earned based on hours of experience with 45 hours = .25 credits, 90 hours = .5 credits, etc. Students who have graduated from eighth grade are eligible to earn experiential elective work/volunteer credit the summer before their freshman year begins The specific guidelines for earning credit are provided in MMSD's Board of Education Policy #3150	Your counselor can help you understand how to set-up a work-based, experiential learning opportunity that is credit eligible and/or how to apply for credit for an existing part-time job that you currently already have. More information about Work-Based Experiential Learning can also be accessed from: Monique Billings mdbillings@madison.k12.wi.us 608-663-5384

Type of Experience	What is it? How does it work?	How do I earn credit?
Foundations of Leadership (FOL)	An experiential, social justice and leadership development course based on the experiences of youth of color and LGBTQ+ youth. (Delivered in partnership with GSAFE). Course experiences include project-based learning, collaborative group work, discussions and community involvement. Students from all high schools are eligible to apply or be nominated as rising 9th graders or as 10th graders - Application/Nomination form (https://goo.gl/forms/t66FwHQpaYCLFPBi2) Participants meet on Mondays from 3:15-4:45 at the Red Gym (UW-Madison campus). Transportation provided. To hear why FOL students choose this course, watch our video: https://youtu.be/OZ0swdi6M0Q	Students can earn .25 elective credits per semester. Credits are earned through attendance, self-assessments & projects. For more information about FOL, contact: Leanne Born, Advanced Learning, lewesselhoft@madison.k12.wi.us Enrollment; Transportation Ali Muldrow, GSAFE Co-Director, ali@gsafewi.org Course Instructor Sherie Hohs, LGBTQ+ Lead, shohs@madison.k12.wi.us Recruitment For more information on FOL, go to GSAFE's website: https://www.gsafewi.org/programs/youth-leadership/foundations-of-leadership/
Independent Study	Independent Study provides an opportunity to earn credit for a self-designed, independently completed project. If you are interested in designing an Independent Study project, you will need to: 1. Develop your project idea and document it in an Independent Study Contract application 2. Find a teacher or other certified staff member who is willing to be your project advisor. 3. Submit your proposal at your school and see if it gets approved for credit by your building principal. If you are interested in Independent Study we encourage you to meet with your school counselor to learn more about the process (including application deadlines) and to obtain a copy of the application.	Once you submit your Independent Study Contract your project will be reviewed by school staff. If it is approved by your school, you will be eligible for credit once you have provided evidence that you have successfully met the learning goals that you identified in your project proposal. Credit is provided based on project hours: 45 hours = .25 credit 90 hours = .50 credit Students can earn: • up to 1 credit in Independent Study within a given year, • up to 1 credit in Independent Study in a given subject area, • and can apply up to 2 credits towards meeting graduation requirements Specific board policy language regarding Independent Study can be found in our Policy #4029.

Type of Experience	What is it? How does it work?	How do I earn credit?
Madison Virtual Campus (MVC) Online Courses	MVC is a district-wide program that provides access to online courses for MMSD students. MVC helps meet student needs for staying on track to graduation, accessing courses not offered at their school, and taking courses they otherwise cannot fit into their current schedule. MVC students will work with an online coach at their school and an online WI licensed teacher for their content course. Courses available to MMSD students are listed in the MVC Course Catalog (https://curriculum.madison.k12.wi.us/mvc-online-courses). Courses include core, Advanced Placement and electives.	If you are interested in MVC, contact your school counselor to learn more about the application process. Spots in MVC are limited and priority is typically given to students closest to graduation and/or students who have other compelling needs. (https://goo.gl/hkKp3W) More information about MVC can be found on our district website: https://secondary.madison.k12.wi.us/mvc See school-specific contact information on page 32.
Early College STEM Academy	The Early College STEM (Science, Technology, Engineering, Math) Academy is a partnership between the Madison school district and Madison College. The Academy is designed to expand access to college courses in science, technology, engineering and math and to increase opportunities for students to earn college credit in high school at no cost to them or their families.	High school sophomores, who meet eligibility requirements receive an invitation to apply for the Academy. A committee reviews applications, interviews applicants and then selects students who will be invited to enroll in the program. Students enrolled in the program will attend 11th and 12th grade at Madison College, learning in classes taught by Madison College instructors, as well as Madison school district teachers. For more information see your School Counselor.

Flexible Course Opportunities

Are you…

- Looking for a way to **access a course** you want to take, but currently can't in your schedule?

- Interested in **accelerating** to earn your credits needed for graduation?

- Open to being **flexible** with your learning?

- A good **time manager**, or wanting to work on those skills?

- Looking for **something a little different** during your day, or extra?

- Motivated to learn in a **technology-driven** environment?

Details
In addition to fully online courses available through Madison Virtual Campus (MVC), you also have several other virtual opportunities for courses next year.

Benefits
- Meet a graduation requirement
- Creative scheduling options available (Free up a class period during your school day, or take an additional credit)
- Possibility to accelerate and get ahead in your credits for graduation

A Note About Virtual Learning Space (VLS) courses:
Each comprehensive high school has access to a Virtual Learning Space (VLS) telepresence system that can be used to connect classrooms together if schedules align. The virtual connection allows groups of students and a teacher to participate in a class together at the same time, while located at different buildings. Students will be physically present at their own school and will meet with their teacher and other classmates virtually. There may be online content to support learning. Learn more about taking a class over a system like our VLS on this website: http://tinyurl.com/MMSDVLS. Talk to your school counselor if you are interested in taking a class at another MMSD high school through VLS access. There are several planned offerings noted in the "Flexible Course" section in this catalog, and other connections may be possible.

Advanced Placement German (VLS)
In the AP German Language and Culture course, students continue to develop and refine their German proficiency in interpersonal, interpretive, and presentational communication. The course is comparable to a third year college course. The class is conducted exclusively in German. Authentic German written texts and audio sources are used to enhance students' reading and listening comprehension. Through the continual integration of listening, speaking, reading and writing skills, students review and refine their grammatical and vocabulary knowledge and develop an enhanced cultural understanding of German-speaking countries in contemporary and historical contexts. The course develops students' awareness and appreciation of German culture, social practices, and perspectives. Assessment of student proficiency is based on the rubrics used to assess student performance on the AP German Language & Culture Exam. This is a Virtual Learning Space (VLS) course.

Blended Personal Finance course
This blended learning course is part online and part face-to-face. It will be delivered through two face-to-face meetings (TBD by school) and through flexible online modules that allow you to work on your own time (5-10 hours per week) while gaining valuable life skills and knowledge. Personal Finance is one of the most useful classes you can take in order to prepare for your future! It is proven that poor financial decisions can lead to an accumulated debt spiral that will prevent you from saving and planning for a secure financial future. Learn

about careers and college, financial decision making and goal setting, budgeting, saving and investing, credit, insurance, and more!

Online Health Education
This online course is recommended for 10th graders to satisfy the 0.5 credit graduation requirement for Health Education. This course is designed to provide opportunities to practice the necessary skills to become health literate individuals through application of knowledge, developing attitudes and skills to make positive decisions, and taking action to promote and protect one's health and the health of others. This course will be taught by a Health Education teacher within the student's school building to support learning. The course will be completed through online modules, which can be completed at any time in one's daily schedule. Students may also have the potential to meet face-to-face with classmates and the teacher during the semester (TBD by school). The recommended time spent in the course is 5-10 hours per week. This is not a Madison Virtual Campus course.

Online Physical Education
This online course is recommended for 10th through 12th graders to satisfy 0.5 Physical Education credits of the total 1.5 credits required for graduation. The course is designed to provide students with opportunities to deepen their physical literacy by applying knowledge and skills of various fitness and activity concepts and principles. Students will have opportunities to self-reflect and set goals to take steps to maintain an active and healthy lifestyle. There will be a regular amount of physical activity required to fulfill the course expectations, typically to be tracked/completed on a weekly basis. This course will be taught by a Physical Education teacher within the student's school building to support learning. The course will be completed through online modules, which can be completed at any time in one's daily schedule. Students may also have the potential to meet face-to-face with classmates and the teacher during the semester (TBD by school). The recommended time spent in the course is 5-10 hours per week. If you have taken a Madison Virtual Campus Phy Ed class before, you may not be eligible for this class.

Want to know more?
Talk to your school counselor to look at possibilities.

Additional Programs and Learning Opportunities

Advancement Via Individual Determination (AVID)

What is AVID/TOPS?
AVID/TOPS is a college readiness system, in partnership with Boys & Girls Clubs of Dane County, that includes an elective course for students in grades 7-12. The AVID/TOPS targets students of color, low-income students, and first-generation college students in the academic middle with a GPA between 2.0 and 3.5. In the elective course, students keep the same AVID teacher and AVID/TOPS throughout high school. The elective course focuses on organizational strategies, study skills, critical thinking, tutorial support, and career and college awareness. On Mondays and Wednesdays, AVID/TOPS learn the important skills, habits and knowledge that will make them successful in high school and college. On Tuesdays and Thursdays, college-age tutors work with small groups of AVID/TOPS students to help them better understand their classwork. On Fridays, AVID/TOPS students visit colleges, listen to motivational speakers and engage in fun activities that will prepare them for college success. AVID/TOPS students visit over 10 colleges in 4 years. In addition, AVID/TOPS students have the opportunities for paid summer job internships, community mentors and a paid career exploration experience. What's more, every AVID/TOPS student gets college coaching from the beginning of their senior year and continuing until college graduation.

Does AVID/TOPS work?
Yes! Years of AVID/TOPS Data prove AVID/TOPS helps students succeed in high school and college. AVID/TOPS has been evaluated by researchers at the University of Wisconsin-Madison and they consistently found that AVID/TOPS significantly and positively impacts student achievement.
1. 100% of students in the AVID Elective Class graduate in 4 years
2. The AVID/TOPS class increases students' GPAs
3. AVID/TOPS students take more Advanced Placement (AP) and Honors courses and they earn higher grades in these courses.
4. Students in the AVID Elective class are more likely to enroll in college and more likely to graduate from college.

Why does AVID/TOPS work?
AVID/TOPS is a fully integrated partnership between MMSD and the Boys & Girls Club of Dane County that provides students in the AVID Elective Class with opportunities to succeed in the classroom and explore career and community activities that will prepare them for their future. Students in the AVID/TOPS elective class are more successful because of four key program supports.
1. AVID/TOPS places students in a rigorous curriculum and gives them the support to achieve.
2. AVID/TOPS teaches students specific strategies to succeed in high school and get into a good college.
3. Students stay with their AVID/TOPS peers for four years providing for a community of positive and motivated peers and supportive adults.
4. AVID/TOPS students are surrounded by a team of adults who advocate for every student's success.

What is the AVID/TOPS application and selection process?
AVID/TOPS targets students in the academic middle (GPAs between 2.0-3.5 and middle to high tests scores) with the desire to go to college and the willingness to work hard. Typically, they will be the first in their families to attend college, and come from groups traditionally underrepresented in higher education. These are students who are capable of completing a rigorous curriculum but would benefit from structured support. In the fall semester, high schools will invite all 8th grade students, who fit the target criteria to apply for the AVID/TOPS 9th grade elective class.

Note: students who participate in AVID in middle school must also apply to participate in high school. Once invited, interested students must 1) complete an AVID/TOPS application, 2) submit a teacher recommendation, and 3) interview with high school AVID/TOPS Site Team members. Then each high school AVID/TOPS Site Team will select the students who can enroll in the 9th grade AVID/TOPS elective course. **Students who are not initially selected to be in the 9th grade AVID/TOPS elective class may still join AVID/TOPS until the first semester of their junior year, so long as they fit the criteria.** Students interested in joining AVID/TOPS after the first semester of 9th grade should contact the AVID Coordinator at their high school.

Sample Schedule - AVID

Here's what a sample schedule would look like while taking the AVID elective course.

AVID Coordinator Contact List by School

School	AVID Coordinator	Phone number	Email address
East High School	Kate Brien	(608) 204-1673	kbrien@madison.k12.wi.us
East High School	Steve Somerson	(608) 204-1533	ssomerson@madison.k12.wi.us
La Follette High School	Lindsay Simonson	(608) 204-3731	ldsimonson@madison.k12.wi.us
La Follette High School	Anne Hank Braga	(608) 204-3588	amhank@madison.k12.wi.us
Memorial High School	Johanna Golden	(608) 663-6261	jgolden@madison.k12.wi.us
West High School	Danielle Borneman	(608) 204-4988	dborneman@madison.k12.wi.us

Dual Language Immersion

Dual Language Immersion (DLI) programs offer MMSD students the opportunity of becoming bilingual, biliterate and to develop multicultural skills and dispositions while accessing grade-level content area standards. For the 2020-2021 SY, high school continuation courses are offered at East High School (9th-10th) , La Follette High School (9th-12th), Memorial High School (9th), and West High (9th, 10th, and 11th).

What are DLI courses? As part of the district's Dual Language Immersion high school continuation program, the following classes are offered:

- Spanish Language Arts 1 & 2 (9th and 10th grade)
- Spanish Literature and Language Arts 1 Advanced Placement (11th grade)
- Spanish Literature and Language Arts 2 Advanced Placement (12th grade)
- US History in Spanish (9th grade)
- World History in Spanish (10th grade)
- Ethnic Studies (or alternate course at some high schools) in Spanish
- Latin American Studies (or alternate course at some high schools) in Spanish

Sample Schedule - Dual-Language Immersion (DLI)
Here's what a sample schedule would look like for a student in DLI.

Wisconsin Global Education Achievement Certificate & Seal of Biliteracy

If you have particular interests in global studies and world languages, there are two opportunities that you can pursue that allow you to engage more deeply in this interest area and earn special recognition for your efforts.

Global Education Achievement Certificate (GEAC)	Seal of Biliteracy
The GEAC recognizes students who have demonstrated knowledge of the world, awareness of diverse cultures and perspectives, and strong communication and collaboration skills. Interested students engage in additional learning experiences, including reading books and exploring media of choice with a multicultural or global focus, completing a community service project, participating in extracurricular events, and preparing a final reflection on your experience as a global scholar.	The Wisconsin Seal of Biliteracy is awarded to graduating high school students in districts with a Department of Public Instruction-approved program, who have demonstrated achievement in bilingualism, biliteracy and multicultural competence in two or more languages (English and a partner language) by successfully participating in the development of the languages through our schools, their families and the community. The Seal of Biliteracy honors the incredible benefit that comes from striving to become multilingual and recognizes the important role that multilingualism can play in supporting culturally competent graduates.
Students interested in the program submit a statement of intent form to their GEAC coordinator and then work with their instructors to complete and share their portfolio of experiences. Students who successfully complete their portfolio are awarded the distinction of Wisconsin Global Scholar by the Wisconsin Department of Public Instruction. More information can be found at: http://www.globalwisconsin.org/the-policy https://dpi.wi.gov/international-education/achievement-certificate	Students interested in the program should contact the Seal of Biliteracy coordinator and then work with their instructors to complete and share their portfolio of experiences. Students who successfully complete their portfolio are awarded the Wisconsin Seal of Biliteracy by the Wisconsin Department of Public Instruction. In addition, more information can be found at: https://assessment.madison.k12.wi.us/seal-biliteracy https://dpi.wi.gov/english-learners/wi-seal-of-biliteracy

GEAC and SBL Contact Information by School

School	Coordinator(s)	Phone	Email
East High School	Kathy Grimm (GEAC and SBL) Spencer Hesse (GEAC and SBL)	(608)204-1799 (608)204-1833	kgrimm@madison.k12.wi.us sdhesse@madison.k12.wi.us
La Follette High School	Mikaela Hagen (GEAC and SBL)	(608)204-3600	mhagen@madison.k12.wi.us
Memorial High School	Jenni Zupan (GEAC only) Jamie Sparks (GEAC only)	(608)663-5990 (608)204-2093	jzupan@madison.k12.wi.us jespearks@madison.k12.wi.us
West High School	Megan Cunningham Deana Zorko	(608)204-4100 (608)204-3511	mecunningham@madison.k12.wi.us dzorko@madison.k12.wi.us

Student and Staff Support

The Department of Student & Staff Support works collaboratively with the Department of Student Services and other departments across the central office to support the development of healthy, safe, and thriving school communities that create a true sense of belonging for all stakeholders. This includes support in the following areas:

Culture and Climate
Support for the development of the four foundation practices, Culturally Responsive Teaching (CRT), Restorative Justice (RJ), Social Emotional Learning (SEL), and Positive Behavior Interventions and Supports (PBIS). This also includes support for mindfulness systems across MMSD, and for staff wellness.

School-Based Support Teams
Support and professional learning for the School Social Workers, School Counselors, School Psychologists, School Nurses and Nurse Assistants (NAs), Behavior Education Assistants (BEAs) and PBIS Coaches. This also includes support for school teaming structure, and for the development of the tiered intervention systems they provide for students.

Mental Health
Support for the array of mental health interventions across MMSD, including Behavioral health in Schools (BHS), Bounce Back, CBITS, SBIRT, FACE Kids groups, and Building Bridges support for families.

Health Services
Support for the health offices supported by nurses and nurse assistants, and for the individualized health supports for students in every school.

Our department is committed to the physical, mental, and behavioral well-being of all students and staff in MMSD. We pride ourselves on supporting every school to be thriving school where every child graduates college, career, and community ready.

Student Services

In alignment to the district's Strategic Framework, the mission of the Department of Student Services is to ensure that all students, especially those with disabilities, are engaged in high quality curriculum and instruction within inclusive educational environments leading to deep learning which results in college, career, and community readiness.
The Department of Student Services has two overarching areas of responsibility:

5. Provide specialized services and supports such that students with disabilities are appropriately identified and receive a free appropriate public education through special education/related services and/or §504 accommodations resulting in meaningful benefit.
6. Provide state and federal resources to remove educational barriers and equitably support students, staff and families.

Student Services staff provide the necessary resources and supports to assist schools in increasing student access to high quality instruction, especially those experiencing barriers to success in areas such as attendance, achievement, behavior, physical health, mental health and basic needs. By promoting wellness for the whole child, this department contributes to the district vision of preparing all children to be college, career and community ready upon graduation.

English as a Second Language Courses and English Language Learner Supports

Who takes English as a Second Language (ESL) courses?
ESL courses are designed for students whose native language is not English and who have tested as eligible for English language development services. ESL courses are designed for students who have recently entered the U.S. and students at emerging and developing levels of proficiency in English. ESL courses include instruction in English Language Arts, mathematics, science, and social studies taught by teachers who are certified in both the content area and English as a Second Language.

What additional supports are available for English Language Learners?
Students identified as English learners, and whose parent/guardians who want learning support services for their student, receive an English learner Individual Plan of Service. This plan explains the students English language level related to Listening, Speaking, Reading and Writing, and specifies the types of supports the school will provide to them. English learners benefit from access to linguistically and culturally attentive instruction and related services as coordinated by English as a second language, bilingual, and content area licensed educators in the general education classroom, working in collaboration with administrators and bilingual counselors.

English as a second language (ESL) educators and bilingual resource teachers (BRT) provide specialized instruction as specified in the English learner student's Individual Plan of Service within and outside of the classroom to English learners in general education environments with instruction in English and/or dual language education environments.

Bilingual counselors are also available at each high school to assist English language learners with course selection and post-secondary planning.

English as a second language teachers, bilingual resource teachers, and bilingual counselors also serve as case managers. Case managers (a) provide a school-based contact/advocate for parents and students, (b) document English learner data, and (c) explain data management to parents in order to keep them informed of students' academic progress/status. This work is part of the student and families' rights in relation to the English learner student's Individual Plan of Service.

Bilingual Resource Specialists (BRS) offer translation and interpretation in students' home languages as a supplemental resource in general education classrooms. In addition, these highly-trained individuals serve as a conduit between families and schools to build lasting and supportive learning relationships.

Interventions & Options for Credit Recovery

What do I do if I need additional support or if I need to recover a class?
Some students may need additional supports to achieve grade level skills. High schools have processes in place to identify students who need extra support in addition to their core courses.

Some of these supplemental support opportunities are non-credit bearing (e.g., tutoring, in class supports, supported study halls) and some are credit bearing (e.g., Read 180 course, System 44 course, Language Live, blended online course). These supplemental supports and interventions are available to all students based on criteria specific to each supplemental support option. Please see your counselor to discuss literacy and math intervention courses that may be available at your school as credit bearing classes. Other non-credit bearing supplemental support options are afforded to students through a comprehensive high school schedule where extra time is designated.

Students who earned a failing semester grade in one or more core courses are eligible for Credit Recovery. Credit Recovery is most commonly defined as a structured means for students to regain credit in order to graduate from high school. The length of credit recovery courses shall be dictated by the skills and knowledge the student needs to recover and not be a fixed length of seat time. Core academic credits include credits required for graduation in English, social studies, mathematics, physical education, health and science. For these courses, students must retake the same course required for graduation (see Board Policy 3540). Credit Recovery courses can be delivered in a face-to-face class, an online class, or in a blended class using Apex Learning online during the school year or during summer school. If a student is taking online credit recovery courses, a maximum of two per year is allowed.

Course Request Process & Course Change Procedures

How will I select my courses?
Each year, (typically in January or February) you will have the opportunity to select courses for the following school year: During course selection you will receive information about the various courses that are available to you from both school counselors and teachers. You will have the opportunity to consult with your teachers, your family, and your school counselor in order to make choices that support you in exploring your interests, complete graduation requirements and build the knowledge and skills needed to support your personal post-secondary plans. Other resources that will support you in your decision making include your Academic and Career Plan experiences and the postsecondary exploration and planning tools in your Xello account. We recommend that you review your transcript (accessible through your Infinite Campus account or from your school counselor) each semester to ensure that your academic record is accurate and up-to-date. Your transcript can also help you to identify what credits still need to be completed as you progress towards meeting all of your graduation requirements. If you have any questions about required coursework, we encourage you and a key adult to make an appointment with your school counselor at any time.

Counselor contact information
Your school counselor, teachers and family may assist you in selecting the courses that will best align with your interests, skills and postsecondary goals. It is always recommended to review your selected courses with these adults.

Changing a Course Request
Schedule changes will only be made during enrollment if:
- A student did not pass a class that was required and/or the student's schedule does not meet grade level or graduation requirements.
- A student did not pass a class that was a prerequisite for another class.

- A student's Early College Credit or Start College Now course or other approved MMSD course conflicts with the student's schedule.
- Summer School course work necessitates a change in the student's schedule.

Adding/Dropping a Course
Each school has specific procedures for adding and dropping courses once the school year has begun. However, a student who is carrying more than the required number of credits may request to drop a class anytime within the first seven weeks of the semester (7-period day) provided the student still carries the minimum number of credits and appropriate courses needed to stay on track for graduation.

Finishing an "Incomplete"
The "I" (Incomplete) grade in a course at the end of a semester implies that the student will have an opportunity to complete the course for credit. To change a semester grade of "I" to a passing grade, the student must successfully complete the course within a nine-week period at the beginning of the next semester. Any student who does not make up work within the nine-week period will automatically receive "F" for the course unless granted an extension by SLC principal. Upon student completion of work, the teacher will complete a Grade Change form and submit it to the appropriate office.

Note: If an athlete receives an Incomplete, they become instantly ineligible. They only have 10 days to make up the work, and then eligibility will be regained.

Applying for Early Graduation
If you are interested in the possibility of early graduation - that is, finishing graduation requirements, and earning your diploma, prior to your expected graduation date you will want to share this interest with your school counselor. Your counselor will want to arrange a meeting with you and your parents or guardians to discuss your interest and make sure that you and your family have all the information that you need to make the best decision. **If you decide to pursue early graduation, you and your family will need to complete a request form and have it approved by your school.** Then, your counselor will help you to map out a plan for completing your graduation requirements at a more accelerated pace.

Any student who graduates in January of their senior year is eligible for all awards, privileges and distinctions given to the graduating class. As with any graduate, it is ultimately an early graduate's responsibility to become aware of and apply for these honors and to coordinate with the neighborhood secretary regarding graduation materials and activities.

Acceptable Use Policy for Technology

As learning integrates technology into coursework, it is important to note the responsibilities and expectations of devices and the internet within the district. To read the Acceptable Use Policy, please visit https://ts.madison.k12.wi.us/aup. In addition to Board Policies, high school students should adhere to the following guidelines as established high schools in the following agreement.

Social Media Usage
Social Media is an integral part of the Madison Metropolitan School District's (MMSD) communications strategy. The District recognizes its value, the role it can play in enhancing communication with our many audiences, and its role within the classroom. There are many factors to consider when using social media and as such students should use social media per Board Policy 3721 (Student Policy, Procedures, and Rules for Using Information Technology). When we as an online community follow these policies it protects our students and community in a respectful and relevant manner.

Student Use of Social Media
Students should always exercise the utmost caution when participating in any form of social media or online communications, both within MMSD's community and beyond, and abide by all District policies when pursuing the development of the school-affiliated site for education purposes.

The district is committed to the security and privacy of student data. Teachers will only use digital resources that are compliant with state and federal laws related to student records and online safety and are an essential tool for student learning goals. Teachers will also communicate with parents how social media is used within their classrooms.

Important Contacts

Counselors:

Troy Arneson - Wolf Neighborhood last names A-Sn

Emily Cochran - Wisconsin Neighborhood last names A-Sn

Dan Maloney - Rock Neighborhood last names A-Sn

Len Mormino - AVID students

Amy Olson - Fox Neighborhood last names A-Sn

Andrew Stendahl - last names So-Z

Ying Vang - ELL students

You can contact your counselor for assistance with and information about PERC and AP.

MVC Contact - Sacia Wheeler (663-5990)

9	10	11	12	COURSE NAME	FEES	COURSE #	PAGE
9	**10**	**11**	**12**	**ART**			
X	X	X	X	Art Experiences	$20 fee	ART 1025	39
X	X	X	X	Art Experiences (Peer Partners)	$20 fee	A-ART 1025	39
	X	X	X	Yearbook Design & Publishing		ART 1060	40
X	X	X	X	Drawing 1	$20 fee	ART 2075	40
X	X	X	X	Drawing 2	$20 fee	ART 2085	40
	X	X	X	Drawing 3	$30 fee	ART 2095	40
X	X	X	X	Painting 1	$20 fee	ART 3015	40
X	X	X	X	Painting 2	$20 fee	ART 3035	41
X	X	X	X	Ceramics & Sculpture 1	$20 fee	ART 4015	41
X	X	X	X	Ceramics & Sculpture 2	$30 fee	ART 4025	41
	X	X	X	Ceramics & Sculpture 3	$30 fee	ART 4035	41
X	X	X	X	Art Metals & Glass 1	$60 fee	ART 5055	41
X	X	X	X	Art Metals & Glass 2	$60 fee	ART 5065	41
X	X	X	X	Photography 1	$20 fee	ART 6015	42
X	X	X	X	Photography 2	$20 fee	ART 6025	42
	X	X	X	Photography 3	$30 fee	ART 6035	42
X	X	X	X	Computer Art: Animation	$15 fee	ART 6085	42
X	X	X	X	Video 1	$15 fee	ART 6145	42
	X	X	X	Advanced Video Production (full year)	$40 fee	ART 9040	43
	X	X	X	Advanced Video Production (semester)	$20 fee	ART 9045	43
X	X	X	X	Digital Art 1	$15 fee	ART 6315	43
X	X	X	X	Digital Art 2	$15 fee	ART 6325	43
	X	X	X	Digital Art 3	$15 fee	ART 6335	43
X	X	X	X	Fashion Design and Clothing Construction	$30 fee	ART 9075	43
9	**10**	**11**	**12**	**BUSINESS & INFORMATION TECHNOLOGY**			
	X	X	X	Accounting		BUS 2010	44
		X	X	Advanced Accounting		BUS 2030	45
	X	X	X	Personal Finance		BUS 2055	45
X	X	X	X	Introduction to Business & Marketing		BUS 2065	45
	X	X	X	Law & Ethics		BUS 3015	45
	X	X	X	Professional Communications		BUS 4075	45
	X	X	X	Take Charge: Leading and Managing!		BUS 4085	46
X	X	X	X	Innovation Zone 1: Entrepreneurship		BUS 4095	46
9	**10**	**11**	**12**	**COMPUTER SCIENCE**			
X	X	X	X	Digital Technologies		CMP 1025	47
	X	X	X	Computer Hardware Essentials		CMP 1035	47
X	X	X	X	Bits & Bytes: Computer Media		CMP 1045	47
X	X	X	X	Introduction to Programming		CMP 2010	47
	X	X	X	AP Computer Science		CMP 2020	47
	X	X	X	Networking Essentials		CMP 4025	47
X	X	X	X	Business Technologies		CMP 4035	48
9	**10**	**11**	**12**	**MARKETING EDUCATION**			
X	X	X	X	Marketing & Sales		MRK 1015	48
X	X	X	X	Advertising and Social Media		MRK 1035	48
	X	X	X	Sport and Event Management		MRK 1045	49
		X	X	Innovation Zone 2: Be Your Own Boss		MRK 1055	49
9	**10**	**11**	**12**	**ENGLISH**			
X				English 1		ENG 1010	50
X				English 1 Honors		ENG 1020	50
	X			English 2		ENG 1040	50
	X			English 2 Honors		ENG 1050	50

9	10	11	12				
		X		English 3		ENG 1070	50
		X		AP Language and Composition		ENG 2010	51
			X	English 4		ENG 1110	51
			X	AP Literature and Composition		ENG 3010	51
	X	X	X	Creative Writing		ENG 2025	51
	X	X	X	Film Study		ENG 4015	51
	X	X	X	Drama 1		ENG 5055	51
	X	X	X	Public Speaking		ENG 6015	52
		X	X	Literature of the African Diaspora		ENG 8035	52
9	**10**	**11**	**12**	**ENGLISH AS A SECOND LANGUAGE**			
X	X	X	X	English Fundamentals		ENG 1290	53
X	X	X	X	Intermediate English		ENG 1300	53
X	X	X	X	Advanced English		ENG 1270	53
X	X	X	X	English for Academic Success		A-ENG 1280	53
X	X	X	X	Literature Fundamentals		A-ENG 3200	53
X	X	X	X	Intermediate Literature		A-ENG 3210	54
X	X	X	X	Advanced Literature		A-ENG 3220	54
X	X	X	X	Literature for Academic Success		A-ENG 3230	54
X				Literacy Skills 1		A-GEN 2290	54
	X			Literacy Skills 2		A-GEN 2300	54
		X		Literacy Skills 3		A-GEN 2310	54
			X	Literacy Skills 4		A-GEN 2320	54
X	X	X	X	Extended Literacy		EXTLIT 1010	54
X	X	X	X	Algebra 1		A-MAT 1010	55
	X	X	X	Geometry		A-MAT 2010	55
X	X	X	X	Science Fundamentals		A-SCI 2060	55
X	X	X	X	Unified Science		A-SCI 2050	55
X	X	X	X	Conceptual Biology		A-SCI 1020	55
X	X	X	X	Social Studies Fundamentals		A-SOC 1200	55
X	X	X	X	US History		A-SOC 1010	55
X	X	X	X	World History		A-SOC 2010	56
9	**10**	**11**	**12**	**FAMILY & CONSUMER SCIENCES**			
X	X	X	X	Culinary Basics	$30 fee	FCS 1015	57
X	X	X	X	International Cuisine	$30 fee	FCS 1025	57
	X	X	X	ProStart Chef 1	$30 fee	FCS 1035	57
	X	X	X	ProStart Chef 2	$30 fee	FCS 1045	58
	X	X	X	Child Development-Birth to 5 years		FCS 2015	58
		X	X	Careers with Children/ACCT Certification	$10 fee	FCS 2025	58
X	X	X	X	Parenting and Children		FCS 2035	58
	X	X	X	Healthy Relationships		FCS 2055	59
	X	X	X	Independent Living		FCS 2065	59
X	X	X	X	Health Science Exploration		FCS 4015	59
	X	X	X	Medical Terminology		FCS 4035	60
	X	X	X	Body Structure & Function		FCS 4065	60
		X	X	Nursing Assistant		FCS 4040	60
9	**10**	**11**	**12**	**GENERAL STUDIES**			
	X	X	X	Human Relations		GEN 2025	61
9	**10**	**11**	**12**	**MATHEMATICS**			
X	X	X	X	Algebra 1		MAT 1010	62
X				Algebra 1 Honors		MAT 1020	62
	X	X	X	Geometry		MAT 2010	63
X	X			Geometry Honors		MAT 2020	63
	X	X	X	Algebra 2/Trig		MAT 3010	63

9	10	11	12	Course	Fee	Code	Page
	X	X	X	Algebra 2/Trig Honors		MAT 3020	63
		X	X	Algebra 3		MAT 4010	63
		X	X	Algebra 3 Honors		MAT 4020	64
		X	X	Advanced Algebra		MAT 5010	64
	X	X	X	Pre-Calculus		MAT 3060	64
		X	X	Statistics		MAT 9020	64
		X	X	AP Statistics		MAT 5040	64
	X	X	X	AP Calculus AB		MAT 5020	65
		X	X	AP Calculus BC		MAT 5030	65
	X	X	X	AP Computer Science Principles		CMP 4010	65
9	**10**	**11**	**12**	**MUSIC**			
X	X			Concert Band I		MUS 1040	66
X	X			Concert Band 2		MUS 1050	**66**
	X	X	X	Symphonic Band		MUS 1030	66
X	X	X	X	Jazz Ensemble		MUS 1085	66
	X	X	X	Wind Ensemble		MUS 1090	66
X	X			Concert Orchestra		MUS 3030	66
	X	X	X	Symphony Orchestra		MUS 3020	67
		X	X	Philharmonic Orchestra		MUS 3040	67
X	X	X	X	Chorale		MUS 2010	67
	X	X	X	Treble Chorus		MUS 2020	67
	X	X	X	Concert Choir		MUS 2070	67
X	X	X	X	Popular Vocal Styles		MUS 2035	67
X	X	X	X	Guitar I		MUS 4045	68
X	X	X	X	Guitar II		MUS 4055	68
X	X	X	X	Music Appreciation (Peer Partners)		MUS 4065	68
		X	X	Hip Hop Studies		MUS 4075	68
	X	X	X	Music Theory		MUS 4085	68
9	**10**	**11**	**12**	**PHYSICAL EDUCATION**			
X				Foundations of Physical Activity		PHY 1015	69
	X			Health Education		PHY 1035	69
	X	X	X	Lifestyle Changes & Choices	$15 fee	PHY 1045	**69**
	X	X	X	Individual Sports	$40 fee	PHY 2035	69
	X	X	X	Team Sports	$25 fee	PHY 3015	69
	X	X	X	Weight Training 1		PHY 4015	70
	X	X	X	Weight Training 2		PHY 4025	70
	X	X	X	Personal Fitness		PHY 4035	70
		X	X	Challenges and Adventure	$40 fee	PHY 5015	70
		X	X	Advanced Ropes	$60 fee	PHY 5025	70
		X	X	Racquet & Team Sports	$40 fee	PHY 5065	71
	X	X	X	Social Dance	$10 fee	PHY 6015	71
	X	X	X	Lifeguard Training/Pro CPR	$135 fee	PHY 7025	71
		X	X	Introduction to Sports Medicine	$25 fee	PHY 7055	71
	X	X	X	Life Skills Physical Education (Peer Partners)		A-PHY 1205	71
9	**10**	**11**	**12**	**READING**			
X	X	X	X	Reading to Achieve		A-RDG 1050	73
X	X	X	X	Language!		RDG 1160	73
		X	X	Advanced Reading Techniques		RDG 1065	73
9	**10**	**11**	**12**	**SCIENCE**			
X				Integrated Science		SCI 6040	74
X				Integrated Science Honors		SCI 6050	74
	X	X	X	Biology		SCI 1020	74
		X	X	Anatomy and Physiology		SCI 1080	74

9	10	11	12				
		X	X	AP Biology		SCI 1090	75
	X	X	X	General Physics		SCI 2030	75
		X	X	AP Physics I		SCI 20010	75
			X	AP Physics II		SCI 20020	75
	X	X	X	Chemistry		SCI 3030	75
	X	X	X	Chemistry Honors		SCI 3040	75
		X	X	AP Chemistry		SCI 3060	76
		X	X	AP Environmental Science		SCI 4010	76
	X	X	X	Earth Science 1		SCI 4020	76
		X	X	Earth Science 2		SCI 4030	76
		X	X	Astronomy		SCI 5020	77
		X	X	Aerospace Engineering	$60 fee	SCI 5040	77
		X	X	Forensic Science (full year)		SCI 6030	77
		X	X	Forensic Science (semester only)		SCI 6035	77
X	X	X	X	Principles of the Biomedical Sciences (BSE)	$20 fee	SCI 7010	78
	X	X	X	Human Body Systems (HBS)	$20 fee	SCI 7020	78
	X	X	X	Medical Interventions (MI)	$20 fee	SCI 7030	78
			X	Biomedical Innovations (BI)	$20 fee	SCI 7040	78
9	**10**	**11**	**12**	**SOCIAL STUDIES**			
X				US History		SOC 1010	79
X				US History Honors		SOC 1030	79
X				US History in Spanish (DLI)		SOC 6070	79
	X			World History Overview		SOC 2010	79
	X			AP World History		SOC 2040	79
		X		Modern US History		SOC 1045	80
		X	X	AP US History		SOC 1060	80
	X	X	X	Religion, Culture, and Democracy		SOC 1025	80
	X	X	X	Particular Topics in US Government		SOC 1085	80
	X	X	X	Ancient Civilizations		SOC 2075	80
	X	X	X	AP European History		SOC 2090	81
		X	X	Economics		SOC 3015	81
		X	X	AP Macroeconomics		SOC 3025	81
		X	X	AP Microeconomics		SOC 3035	81
	X	X	X	Psychology		SOC 4025	81
		X	X	AP Psychology		SOC 4050	81
X	X	X	X	US Ethnic Studies		SOC 4075	82
	X	X	X	U.S. Gender Studies		SOC 4085	82
	X	X	X	Particular Topics in Sociology		SOC 4095	82
	X	X	X	United States and World Affairs		SOC 5015	82
		X	X	AP United States Government & Politics		SOC 5040	82
	X	X	X	Social and Restorative Justices Studies		SOC 7025	82
	X	X	X	Foundations of Leadership		SOC 7035	82
9	**10**	**11**	**12**	**SPECIAL EDUCATION**			
X	X	X	X	Life Skills English		A-GEN 1220	83
X	X			English 1 & 2		A-ENG 1200	83
		X	X	English 3 & 4		A-ENG 1210	83
X	X	X	X	Life Skills - Physical Ed (Peer Partners)		A-PHY 1205	84
X	X	X	X	Life Skills – Health		A-PHY 1220	84
X	X	X	X	Life Skills Math		A-MAT 1200	84
X	X	X	X	Math 1		A-MAT 1220	84
X	X	X	X	Math 2		A-MAT 1230	84
X	X	X	X	Math 3		A-MAT 1240	84
X	X			US History		A-SOC 1010	85

9	10	11	12				
		X	X	Modern U.S. History		A-SOC 1040	85
X	X			World History		A-SOC 2010	85
		X	X	Civics		A-SOC 4200	85
X	X	X	X	Self Determination		A-GEN 2340	85
X	X	X	X	Personal Growth & Development		A-GEN 2330	85
X				Study Skills 1		A-GEN 4210	86
	X			Study Skills 2		A-GEN 4220	86
X	X	X	X	Introductory Voc. Skills		A-GEN 3200	86
X	X	X	X	Community Voc. Experience		A-GEN 3290	86
			X	Post-Grad Supported Emp. Skills		A-GEN 3250	86
	X	X	X	Competitive Emp. Transition Skills		A-GEN 3240	87
		X	X	Coop. Work Experience		A-GEN 3270	87
X	X	X	X	Art Experiences (Peer Partners)		A-ART 1025	87
X	X	X	X	Music Appreciation (Peer Partners)		MUS 4065	87
9	**10**	**11**	**12**	**TECHNOLOGY AND ENGINEERING**			
X	X	X	X	Wood Fabrication 1	$20 fee	TEC 3015	88
X	X	X	X	Wood Fabrication 2	$30 fee	TEC 3045	88
	X	X	X	Wood Fabrication 3	$40 fee	TEC 3050	88
	X	X	X	Wood Fabrication 4	$40 fee	TEC 3060	88
X	X	X	X	Home Maintenance and Improvement	$30 fee	TEC 3025	89
	X	X	X	Fundamentals of Construction	$30 fee	TEC 3030	89
X	X	X	X	Consumer Auto	$20 fee	TEC 2015	89
X	X	X	X	Outdoor Power Equipment Technology	$20 fee	TEC 2025	89
X	X	X	X	Auto Technology 1	$20 fee	TEC 2035	89
	X	X	X	Auto Technology 2	$20 fee	TEC 2040	90
	X	X	X	Auto Technology 3	$20 fee	TEC 2050	90
	X	X	X	Auto Technology 4	$20 fee	TEC 2060	90
X	X	X	X	Design and Drafting	$30 fee	TEC 4015	91
X	X	X	X	Introduction to Engineering (PLTW)	$30 fee	TEC 1010	91
	X	X	X	Principles of Engineering (PLTW)	$30 fee	TEC 1020	91
	X	X	X	Civil Engineering & Architecture (PLTW)	$30 fee	TEC 1040	91
9	**10**	**11**	**12**	**THEATRE**			
X	X	X	X	Theatre Arts 1		THR 7015	92
9	**10**	**11**	**12**	**WORLD LANGUAGE**			
X	X	X	X	Chinese 1		FOR 5010	93
X	X	X	X	Chinese 2		FOR 5020	93
X	X	X	X	Chinese 3		FOR 5030	**93**
X	X	X	X	AP Chinese Language and Culture		FOR 5050	93
X	X	X	X	French 1		FOR 1010	93
X	X	X	X	French 2		FOR 1020	94
X	X	X	X	French 3		FOR 1030	94
X	X	X	X	French 4		FOR 1040	94
X	X	X	X	AP French Language		FOR 1060	94
X	X	X	X	German 1		FOR 3010	94
X	X	X	X	German 2		FOR 3020	94
X	X	X	X	German 3		FOR3030	95
X	X	X	X	German 4		FOR 3040	95
X	X	X	X	Spanish 1		FOR 2010	95
X	X	X	X	Spanish 2		FOR 2030	95
X	X	X	X	Spanish 3		FOR 2040	95
X	X	X	X	Spanish 4		FOR 2050	95
X	X	X	X	AP Spanish Language		FOR 2070	96
X				Spanish Literature and Language Arts (DLI)		FOR 8050	96

ART

Memorial art courses are designed to foster self-confidence, technical abilities, and academic achievement to our students while imparting a creative perspective with lifelong learning skills. Current research on brain development emphasizes the unique and valuable role that visual arts courses play in the development of the "whole person." Learning through the visual arts provides a unique and effective way to learn these skills required for success in the 21st century: critical thinking and problem solving, communication, collaboration, and creativity and innovation. Visit http://www.p21.org/storage/documents/P21_arts_map_final.pdf to learn more. For these reasons many colleges are requiring a fine arts credit for their incoming freshmen. The Memorial Art Department is comprised of caring, professional teachers who possess a student-first perspective and expertise in the disciplines they instruct. When making course selections please be aware of the following:

1. **MOST** art courses are one semester in length. Select as many art classes as you desire!
2. All art courses require a lab/materials fee.
3. Studio courses are performance-based. Daily attendance is required. Most assignments are in-class. Extra studio time will be made available.
4. Opportunities for students to display their artwork in school are provided throughout the year.
5. Assistance in developing a portfolio and researching colleges for an art-based career is available from the art teachers. We have successfully supported many students in this way.
6. Teaching Assistant positions offer unique learning experiences. If interested, see a teacher.
7. Independent Study may also be an option worth exploring. If interested, see an art teacher.

People wishing to learn more about the art department and our course offerings can contact any of the teachers (emails found with each course description) and/or visit our website: https://jmm.madison.k12.wi.us/art

The **MEMORIAL ART DEPT**

	LEVEL 1	LEVEL 2	LEVEL 3	CLASS DESCRIPTION
FINE ARTS	ART EXPERIENCES			AN OPPORTUNITY TO SAMPLE THE FULL MENU OF ART-MAKING OPTIONS AT JMM
	PEER PARTNERS			MAKE ART AS A TEAM & EMPOWER PEERS OF ALL ABILITIES TO GROW
	FASHION DESIGN			LEARN THE TECHNIQUES OF DESIGN & CLOTHING CREATION
	PAINTING 1	PAINTING 2		LEARN TO PAINT WITH ACRYLIC, WATERCOLOR, & OIL PAINTS
	DRAWING 1	DRAWING 2	DRAWING 3	TALENT ISN'T INHERITED -, IT'S LEARNED -- SO LEARN THE TECHNIQUES TO DRAW ANYTHING YOU CAN IMAGINE
	CERAMICS & SCULPTURE 1	CERAMICS & SCULPTURE 2	CERAMICS & SCULPTURE 3	LEARN TO CREATE 3-D SCULPTURES USING CLAY, PLASTICS, & THE POTTER'S WHEEL
	METALS & GLASS 1	METALS & GLASS 2	METALS & GLASS 3	HARNESS THE POWER OF FIRE TO CREATE SCULPTURES & WEARABLE JEWELRY
DIGITAL ARTS	PHOTO 1	PHOTO 2	PHOTO 3	ANYONE CAN TAKE A SELFIE. -- LEARN THE ART OF PHOTOGRAPHY & TAKE YOUR WORK TO THE NEXT LEVEL
	DIGITAL ART 1	DIGITAL ART 2	DIGITAL ART 3	LEARN THE ART SOFTWARE PROFESSIONALS USE, LIKE ADOBE PHOTOSHOP, ILLUSTRATOR, ETC.
	VIDEO 1	VIDEO 2		EXPLORE HOW TO BEST CREATE, RECORD, & SHARE YOUR STORIES WITH ANY AUDIENCE
	ANY LEVEL 1 DIGITAL ART CLASS	YEARBOOK		CREATE THE SCHOOL'S ANNUAL YEARBOOK FROM THE GROUND UP WITH YOUR CLASSMATES
	ANIMATION			LEARN THE ART OF BRINGING LIFE TO YOUR DRAWINGS
ICT	PIXELS & VECTORS			EXCLUSIVE TO THE ICT PATHWAY, PAIRED WITH 'BITS & BYTES'

Information Communication Technology through Innovation Pathway
The "ICT" Pathway empowers students to develop the confidence and capacity to utilize technology to become problem solvers in an evolving world that requires creativity and innovation. We aim to advance students' natural curiosity for learning and growth in the domain of Information and Communications Technology by fostering new ways of thinking and doing in agile learning environments.

As 9th graders, students in this Pathway will take the usual four required classes – English, social studies, science and math – but the central theme of Information and Communications Technology through Innovation will be woven into these classes through interdisciplinary learning. Additionally, each student will take Bits & Bytes with **Pixels & Vectors.** As students continue their high school pathway, they can choose digital art electives to complement their continued studies. The Art sequence in the pathway makes use of 2 computer art labs, solid state hard drives, Wacom tablets, digital cameras, sound studio, video studio, 2 portrait studios, scanning stations, Adobe Creative Suite, digitally proficient art teacher and lots of real-world digital art challenges.
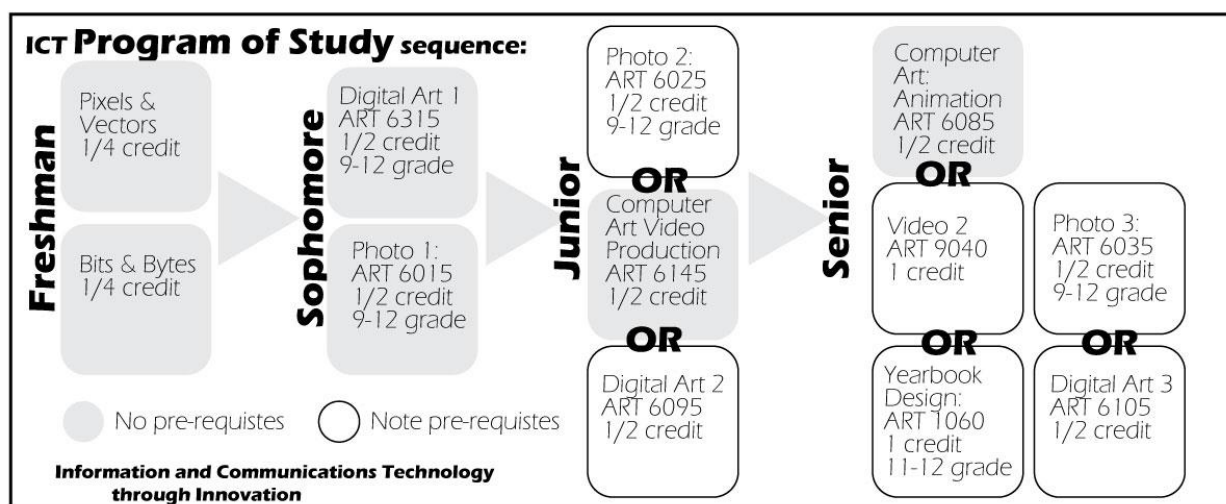
Art Experiences	ART 1025	½ Credit	$20 fee	Elective 9, 10, 11, 12

Take a tour of the Art Department with this ever-changing course and become part of a supportive and collaborative working art studio. Students work with a broad range of materials and explore: metals, drawing, digital art, painting, photography, and ceramics. There are approximately 6 three-week projects and a field trip. This is the perfect class to try if you don't know what your artistic specialty is, if you can only take one art class, or if you like to experiment with materials. For more information, contact Grace Riedle at gariedle@madison.k12.wi.us

Art Experiences Peer Partners	A-ART 1025	½ Credit	$20 fee	Elective 9, 10, 11, 12

Team up to create art! The focus of this course is collaboration in artmaking for students with and without disabilities. Students will create a variety of short, low pressure art pieces that allow for experiences with different tools, art making methods, materials, and themes. Students will work primarily in partners and support each other throughout the artmaking process. For more information, contact Grace Riedle at gariedle@madison.k12.wi.us

| **Yearbook Design & Publishing** | **ART 1060** | **1 Credit** | | **Elective 10, 11, 12** |

It is recommended that students complete one or more of the following: Photography, Digital Art, or AP Language and Composition or with instructor approval.

This course is for the student who wants to create and work on the publication and distribution of the Olympian Yearbook, Sword & Shield and other school-wide media. Students can also create videos for the Olympian as well as Spartan News. This class will look at primarily 2D design concepts, composition, layout, image use, writing concise body copy and captions for the yearbook, newspaper and student announcements. Students should be able to work well both independently and within a team environment. This course is for students who feel connected to the school community (via clubs, sports, and regular attendance) and ready to work with peers, teachers and administration for gathering media for the yearbook, newspaper, announcements and video news. Each student will be an influential part in decisions made about the creation and design of the yearbook. Students will utilize Adobe InDesign, Photoshop, Illustrator and/or Premiere. This course may be repeated for credit. For more information contact Teri Parris Ford; tparrisford@madison.k12.wi.us

| **Drawing 1** | **ART 2075** | **½ Credit** | **$20 fee** | **Elective 9, 10, 11, 12** |

This introductory drawing course is designed to further develop student skills and creative thought processes through an in-depth study of various mediums and techniques. Students will create a wide variety of drawings using various mediums, and learn fundamentals like shading, still-life, portraiture, human anatomy, contour, shading, two-point perspective, grid and life drawing. Student experiences will include exploration of elements of art and principles of design, history and cultural applications, contemporary artists, careers, the art of critique and art appreciation. For more information contact jdnewland@madison.k12.wi.us

| **Drawing 2** | **ART 2085** | **½ Credit** | **$20 fee** | **Elective 9, 10, 11, 12** |

This course builds on skills and concepts learned in Drawing 1. This course allows you to refine and expand skills learned in Drawing 1 while offering new experiences and challenges. Opportunities will be given for students to sharpen their drawing skills and creativity while generating images from their experiences. Experiences will include study of elements of art and principles of design, history, cultural applications, contemporary artists, careers, the art of critique, student work portfolio and art appreciation.

| **Drawing 3** | **ART 2095** | **½ Credit** | **$30 fee** | **Elective 10, 11, 12** |

Successful completion of Drawing 2 recommended, or with instructor approval. As veteran drawers, this course offers still greater challenges to artists yet with more room for interpretation. Heightened creative freedom and personal styles are encouraged to address larger artistic challenges. Sketchbook / journal, regular exercises outside of class, as well as group critiques are an integral part of this class. For more information contact jdnewland@madison.k12.wi.us

| **Painting 1** | **ART 3015** | **½ Credit** | **$20 fee** | **Elective 9, 10, 11, 12** |

Painting 1 is designed as a skill building exploration into the processes, materials and principles of painting. Students can expect to gain a strong foundation in painting in this beginning level and will be encouraged to develop their technique and exploration in painting. Composition, the visual elements, the principles of design, and the basic techniques and concepts of painting will be covered. Students will exhibit knowledge of art forms, artists and art history and will be asked to reflect on this knowledge through their creation of artwork, and a written critique of an artist's work. For more information, contact pcastanedatu@madison.k12.wi.us.

Painting 2	**ART 3035**	**½ Credit**	**$20 fee**	**Elective 9, 10, 11, 12**

This course serves as an extension of the painting 1 class. In this class, students may continue to explore traditional as well as modern painting mediums and techniques, such as acrylic, watercolor, and digital painting. Other topics may include: mixed media, portfolio creation, acrylic, watercolor, printmaking, and water-based oil. Advanced media applications in acrylic polymer and watercolor are introduced. Students continue to develop their painting skills and explore creative directions in their work. Experiences will include study of elements of art and principles of design, color theory, history, cultural applications, contemporary artists, careers, the art of critique, and art appreciation.

Ceramics & Sculpture 1	**ART 4015**	**½ Credit**	**$20 fee**	**Elective 9, 10, 11, 12**

Ceramics & Sculpture 1 is designed as an introductory course into the many possibilities of creating 3D artworks with clay. We will explore several hand-building techniques, begin wheel-throwing basics, and learn the fundamentals of firing clay and coloring and glazing ceramic pieces. All of the assignments are designed to encourage and develop students' artistic creativity. Experiences will include elements of art and principles of design, history, contemporary artists, the art of critique, and art appreciation. Students interested in solving three-dimensional artistic challenges which involve inventive thinking and direct involvement with a highly versatile material should consider this course. For more information, contact pcastanedatu@madison.k12.wi.us.

Ceramics & Sculpture 2	**ART 4025**	**½ Credit**	**$30 fee**	**Elective 9, 10, 11, 12**

This course will build on the experiences, knowledge and techniques presented in Ceramics and Sculpture I. Students will have the opportunity to focus on wheel-thrown and/or hand-built ceramics as they work through a series of design problems. Students are encouraged to develop their inventive thinking, creativity and technique through vigorous involvement with the media to emphasize exploration of form, texture, and surface decoration while fostering personal expression and the development of a unique artistic style. An expanded investigation of ceramics will include historical, and career elements while examining contemporary trends and artists. For more information, contact pcastanedatu@madison.k12.wi.us

Ceramics & Sculpture 3	**ART 4035**	**½ Credit**	**$30 fee**	**Elective 10, 11, 12**

This course is for the student-sculptor and student-potter who strive to develop a true artistic "style" in their artwork. 3-D challenges are both skill-oriented and idea driven. Wheel forms emphasize refinement, functionality and working on series. Assignments are usually theme-based where the artist has the artistic liberty to decide on how to best solve them. Alternative firing techniques, teapots, multi-section wheel forms, field trips, participation in a Ceramics student exhibit, selling their artwork, overnight experience at Adamah Ceramics Studio and more are available in this course. This course may be repeated with teacher's permission. For more information, contact pcastanedatu@madison.k12.wi.us.

Art Metals & Glass 1	**ART 5055**	**½ Credit**	**$60 fee**	**Elective 9, 10, 11, 12**

This course will provide students with an introductory experience in the design and fabrication of jewelry and sculpture in metal and glass. No experience is necessary because all techniques will be taught and practiced. Emphasis is placed on design and construction of well-crafted, original work using a variety of tools and processes including but not limited to: sawing, filing, piercing, soldering, cold joining, texturing, annealing, polishing, and glass mosaics. Basic studio skills such as proper care of tools and equipment, studio safety procedures (we use fire and power tools), and working vocabulary associated with techniques will be emphasized. For more information, contact Grace Riedle at gariedle@madison.k12.wi.us

Art Metals & Glass 2	**ART 5065**	**½ Credit**	**$60 fee**	**Elective 9, 10, 11, 12**

Successful completion of Art Metals & Glass 1 or prior experience with fabricating metal and glass is recommended. You'll expand on your understanding of metal and discover how to add enameled color, set stones, cast, cold connect, and create movable 3D pieces. You will use glass to create a fused glass dish, mosaic, and/or a stained-glass panel. For more information, contact Grace Riedle at gariedle@madison.k12.wi.us

Photography 1   **ART 6015**   **½ Credit**   **$20 fee**   **Elective 9, 10, 11, 12**

This is an introductory course for students of all levels who are interested in digital photography. In this course you will learn the fundamentals of photography, composition, and how to use a digital camera with manual controls effectively, maximizing the effect shutter speed, aperture and ISO have on your exposures. Students will learn digital imaging techniques to create both black and white and color artwork. Students will also learn how to creatively compose photographs with a variety of subject matter, study the elements of composition, the use of light, narrative portraiture, and surrealism to create personally meaningful artwork. Students will learn how to use Photoshop to edit and enhance your photos. A digital camera with manual controls is recommended for this course. For more information contact jfrontier@madison.k12.wi.us or tparrisford@madison.k12.wi.us

Photography 2   **ART 6025**   **½ Credit**   **$20 fee**   **Elective 9, 10, 11, 12**

This course challenges students to expand and refine their ability to take and manipulate high-quality creative photographic images while building on the skills developed in Photography 1. Students will continue to enhance their Adobe Photoshop editing skills through creativity-based projects based on composition, documentary photography, digital manipulation of photographic images, and conceptual art, among others. Students will further advance their visual communication skills, the development of personal artistic vision, and their critical thinking abilities. Students will engage important photographic genres and learn about career opportunities in photography. Access to a Digital Single Lens Reflex (DSLR) or a point and shoot camera with Manual controls for ISO, Shutter Speed, and Aperture is recommended as well as successful completion of Photography 1.

Photography 3   **ART 6035**   **½ Credit**   **$30 fee**   **Elective 10, 11, 12**

This course is designed for you to work on a college portfolio. You will work on concept-based art projects while you continue to work on digital techniques. Possible themes are music visualization, symbolic self-portraiture, community, public art, digital photography, video, media communication, large scale works, etc. Work is done individually and in groups. Access to a Digital Single Lens Reflex (DSLR) or a point and shoot camera with Manual controls for ISO, Shutter Speed, and Aperture is recommended as well as successful completion of Photography 2. For more information contact jfrontier@madison.k12.wi.us

Computer   **ART 6085**   **½ Credit**   **$15 fee**   **Elective 9, 10, 11, 12**
Art: Animation

Animation provides a unique and challenging set of artistic learning experiences involving drawing, movement and sound. First quarter focuses on learning the Adobe Animate software and many of its capabilities. Second quarter focuses on learning the essential steps involved in animation design and production: character and environment design; character movement; camera placement and movement; soundwork; storyboarding; lip syncing and more. Animations will be constructed in Adobe Animate with sound work performed in Adobe Audition and Audacity. For more information, contact tparrisford@madison.k12.wi.us

Video 1   **ART 6145**   **½ Credit**   **$15 fee**   **Elective 9, 10, 11, 12**

This course explores digital video as a contemporary art of expression, communication, and entertainment. This course explores filming, editing, and composition techniques, and presents training in a variety of digital media including Adobe Premiere Video Editing software. Coursework includes video editing, self-portraiture, animation, music visualization, narrative story-telling, and video journalism. Work will be done individually and in groups. For more information, contact jfrontier@madison.k12.wi.us.

Advanced Video	**ART 9040 (Full year)**	**1 Credit**	**$40 fee**	**Elective 10, 11, 12**
Production	**ART 9045 (Semester only)**	**½ Credit**	**$20 fee**	**Elective 10, 11, 12**

Successful completion of Computer Art: Video 1 recommended, or teacher approval. Advanced Video Production (formerly CAMM) offers students the opportunity to work on enhancing and adding to their writing, filming and editing skills learned in Video Production 1. Students work on informational and/or artistic short films that are used for Spartan News, The School Community, Video Contests, College Portfolios and JMM Student Film Fest. This course may be repeated for credit. For more information, contact jfrontier@madison.k12.wi.us

Digital Art 1	**ART 6315**	**½ Credit**	**$15 fee**	**Elective 9, 10, 11, 12**

This course serves as an introduction to Adobe Illustrator and Adobe Photoshop, the industry-standard art software used by professional graphic designers, concept artists, & illustrators. In-class projects offer creative challenges to learn the basics of this software, while addressing fundamentals of art and design, technique, and career applications. Such challenges include, but are not limited to: Vectored art, digital manipulation of photographic art, symbolic communication, portraiture, using a drawing tablet and stylus, and learning to upload & refine hand-drawn work digitally.

Digital Art 2	**ART 6325**	**½ Credit**	**$15 fee**	**Elective 9, 10, 11, 12**

Building off of Digital Art 1, this class further explores art software used almost universally across all art careers with greater creative challenges. Additional tools and capabilities in both Photoshop and Illustrator are covered, including their practical application in the creation of graphic design, advertising, and visual communication. Projects include, but are not limited to 3-D rendering, digital painting, poster creation, product design, and concept art. For more information, contact jdnewland@madison.k12.wi.us

Digital Art 3	**ART 6335**	**½ Credit**	**$15 fee**	**Elective 10, 11, 12**

Building off of Digital 2, this class provides greater independence and creative challenges for advanced digital artists already familiar with Photoshop & Illustrator, with an emphasis on creative problem solving & design fundamentals. Largely student driven, the projects of this class are designed to help bolster a robust digital art portfolio. For more information, contact jdnewland@madison.k12.wi.us

Fashion Design & Clothing Construction	**ART 9075**	**½ Credit**	**$30 fee**	**Elective 9, 10, 11, 12**

Fashion design is an exciting industry that embraces teamwork and attention to detail. In this semester-long class, you will explore designers, trends, and textiles. You will design and construct fashion items & accessories using sewing machines and hand sewing techniques, as well as hand dye fabrics using a variety of methods from around the world. Develop sewing and drawing skills, gain critical-thinking experiences, all while creating usable items in a supportive studio environment. For more information, contact gariedle@madison.k12.wi.us

BUSINESS & INFORMATION TECHNOLOGY

When making course selections, you should be aware of the tremendous employment opportunities in the many business-related fields. Students who have taken business courses simply have a greater ability to get better, higher-paying jobs over the short-term and long-term in comparison to students who have not taken advantage of these curriculum offerings.

You may also consider joining our growing student FBLA (Future Business Leaders of America) chapter. In addition to meeting friends that have similar career interests, you will join the largest business career student organization in the world. Our mission is to bring business and education together in a positive working relationship through innovative leadership and career development programs. In addition to participating at the high school level, students will be well prepared to continue with the college associated chapter PBL (Phi Beta Lambda). Currently UW-Madison has the largest PBL chapter in the nation. FBLA-PBL members have the competitive edge, as the best and brightest of FBLA and PBL convene to compete in leadership events, share their successes, and learn new ideas about shaping their career future.

For more information, please see http://jmm.madison.k12.wi.us/business-marketing-it or contact Sacia Wheeler spieper@madison.k12.wi.us.

Information Communication Technology through Innovation Pathway
The "ICT" Pathway empowers students to develop the confidence and capacity to utilize technology to become problem solvers in an evolving world that requires creativity and innovation. We aim to advance students' natural curiosity for learning and growth in the domain of Information and Communications Technology by fostering new ways of thinking and doing in agile learning environments.

As 9th graders, students in this Pathway will take the usual four required classes – English, social studies, science and math – but the central theme of Information and Communications Technology through Innovation will be woven into these classes through interdisciplinary learning. Additionally, each student will take **Bits & Bytes** with Pixels & Vectors**.** As students continue their high school pathway, they can choose digital art electives or business electives to complement their continued studies.
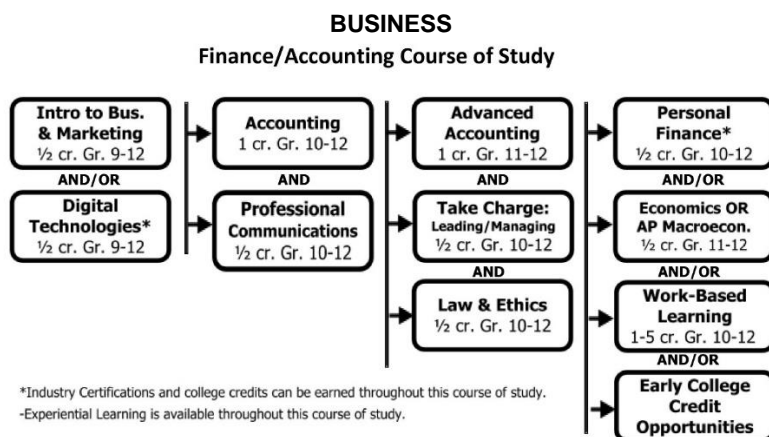
BUSINESS
Finance/Accounting Course of Study

This course of study map represents a suggested sequence of courses leading to capstone, work-based learning, and post-secondary experiences which will assist students in being as successful as possible after leaving high school. Although each student will personalize their experiences, the earlier a student begins this sequence, the more opportunities students will have to fully explore the educational and community options available. These sequences should be coupled with appropriate core courses as well as life-skills and courses in a student's area of interest.

Accounting	**BUS 2010**	**1 Credit**	**Elective 10, 11, 12**

Accounting is the key to opening the door to the business world and that is why it is called the "language of business." Every business in our society is impacted by accounting-based decisions. In addition, accounting is essential in many occupations as well as being useful in comprehending your personal finances. Understanding how accounting data is accumulated through the double-entry procedure and the reporting and basic analysis of this financial information are key outcomes of the course. Other topics covered include payroll, inventory, depreciation, and career exploration. This is an important college preparatory course for students planning to major in any area of business.

| **Advanced Accounting** | **BUS 2030** | **1 Credit** | **Elective 11, 12** |

Successful students will have completed Accounting with a C or better.

Give yourself the competitive edge! Whether your post-secondary plans include education or going straight to the working world, Advanced Accounting is for the young professional who wants to understand "how" a business operates. Emphasis is given to the analysis and interpretation of financial activity, preparing and interpreting financial statements, and applying accounting theory in decision making. This class will prepare you to manage, report, interpret, and analyze financial data as well as help you to develop the skills necessary to understand the "story behind the numbers"! (Dual/transcripted credit is offered by Madison College with transfer possibilities to other colleges and universities.)

| **Personal Finance** | **BUS 2055** | **½ Credit** | **Elective 10, 11, 12** |

Personal finance is one of the most useful classes you can take in order to prepare for your future! It is proven that poor financial decisions can lead to an accumulated debt spiral that will prevent you from saving and planning for a secure financial future. Learn to manage your personal financial affairs through real life applications. Areas of study include investing, banking, taxes, credit, acquiring insurance and loans, budgeting, and successful employment skills. Technology is infused throughout this course, with applications ranging from personal money management to preparation of income tax forms to evaluating investment options. Walk away from this class with the W!SE Financial Literacy Certification.

| **Intro to Business & Marketing** | **BUS 2065** | **½ Credit** | **Elective 9, 10, 11, 12** |

Knowledge is power and this course is perfect for introducing and preparing you to view the world in a whole new way. Through hands-on projects, guest speakers, and real-life activities, you will be exposed to concepts relating to our global economy and the economic way of thinking, types of business organizations, cultural traditions, competition, current business trends and developments, and basic marketing and business concepts.

| **Law & Ethics** | **BUS 3015** | **½ Credit** | **Elective 10, 11, 12** |

What can you do if you've been tricked into a poor contract? Where would you take your lawsuit? How high up the court structure can your case go? Learn answers to these and other legal questions pertaining to both personal and business law applications. This course is designed to familiarize you with the basic legal principles relevant to your roles as citizens, consumers and employees. Content includes the origin of law, criminal and civil law, the court system, business ethics, basic elements of contracts, intellectual property, consumer laws, employer-employee relations, and environmental law. Emphasis throughout the course will be given to application of basic principles of law to everyday situations through case studies, possible field trips, and class discussion. You will also undertake a "mock trial" experience, which provides firsthand experience in a courtroom atmosphere.

| **Professional Communications** | **BUS 4075** | **½ Credit** | **Elective 10, 11, 12** |

Communication is a skill set that is extremely important in the pursuit of academic and career success. Whether you are planning to go to work immediately upon graduation, attend a technical college, or go to a four-year university, communication skills are crucial. A survey of the top Fortune 500 companies indicates that strong communication skills accompanied by teamwork are the most important skills in job effectiveness. This course will incorporate project-based learning, professional presentations, and case studies. Various topics that will be covered in this course include corporate presentations, business and international etiquette, "netiquette", digital tools in business, communication strategies, and professional workplace procedures.

Take Charge: Leading and Managing!	BUS 4085	½ Credit	Elective 11, 12

Learn management and leadership skills that span across all functions of a business and your life. Current business and community topics and events will play a role in learning how the role of a manager/leader continues to evolve. In this class you will learn how to plan, organize and implement various management, supervisory, and leadership strategies and techniques to be truly successful!

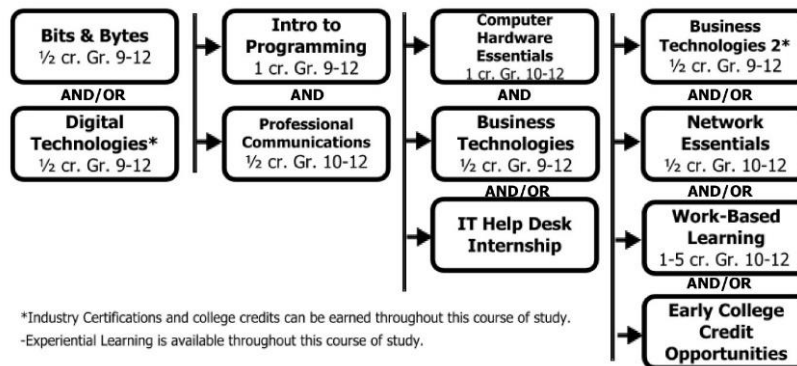| Innovation Zone 1: Entrepreneurship	BUS 4095	½ Credit	Elective 9, 10, 11, 12

Innovate! Explore! Create! Take a Risk! Learn about the fascinating inner workings of being an entrepreneur. Learn about business, marketing, finance, management and more while you develop your own school-based enterprise. Find your inner entrepreneurial spirit to someday be your own boss.
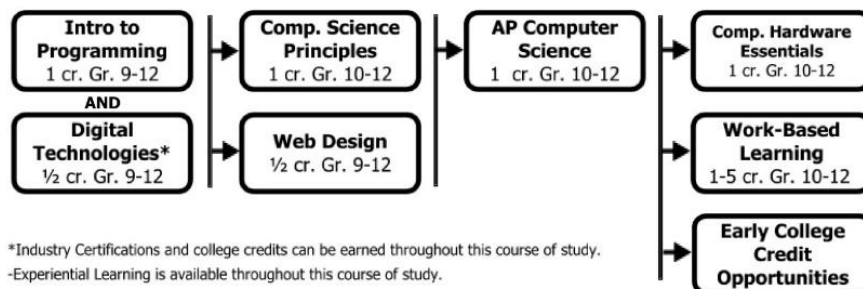
COMPUTER SCIENCE

Information Support & Services Course of Study

*Industry Certifications and college credits can be earned throughout this course of study.
-Experiential Learning is available throughout this course of study.

This course of study map represents a suggested sequence of courses leading to capstone, work-based learning, and post-secondary experiences which will assist students in being as successful as possible after leaving high school. Although each student will personalize their experiences, the earlier a student begins this sequence, the more opportunities students will have to fully explore the educational and community options available. These sequences should be coupled with appropriate core courses as well as life-skills and courses in a student's area of interest.

Programming & Software Development Course of Study

*Industry Certifications and college credits can be earned throughout this course of study.
-Experiential Learning is available throughout this course of study.

This course of study map represents a suggested sequence of courses leading to capstone, work-based learning, and post-secondary experiences which will assist students in being as successful as possible after leaving high school. Although each student will personalize their experiences, the earlier a student begins this sequence, the more opportunities students will have to fully explore the educational and community options available. These sequences should be coupled with appropriate core courses as well as life-skills and courses in a student's area of interest.

| **Digital Technologies** | **CMP 1025** | **½ Credit** | **Elective 9, 10, 11, 12** |

A must-have course for all students who want to be successful in today's technology-driven world. You'll work in a real-world environment and prepare for success in your high school years, college, or employment by using advanced concepts in word processing, spreadsheets, databases, desktop design, keyboarding, and presentations, as well as gain hands-on experience with the latest online and digital tools. You will also be exposed to emerging technologies and their practical use in education and beyond!

| **Computer Hardware Essentials** | **CMP 1035** | **½ Credit** | **Elective 10, 11, 12** |

This course presents an in-depth exposure to Personal Computer (PC) hardware and operating systems. Students learn the functionality of hardware components as well as suggested best practices for safely maintaining and repairing PC's. Through hands on activities and labs, students learn how to assemble and configure a computer, install and work with an operating system, connect up to a network, and troubleshoot computer hardware and software problems using a variety of diagnostics. (Dual/transcripted credit is offered by Madison College with transfer possibilities to other colleges and universities.)

| **Bits & Bytes: Computer Media** | **CMP 1045** | **½ Credit** | **Elective 9, 10, 11, 12** |

Like computers? Want to learn about the many areas of information technology through fun, real-world projects? You will explore programming, acoustical/sound manipulation, graphic design, web design and animation, multimedia, troubleshooting and support, along with basic network configuration. Career options in information technology (IT) will also be discussed. This course is the gateway to many other IT pathway courses.

| **Introduction to Programming** | **CMP 2010** | **1 Credit** | **Elective 9, 10, 11, 12** |

This is an introductory course in computer programming which offers exposure to a variety of programming environments. Students will learn how to approach a program and will learn about the basic formats used in programming. Skills learned in this course will give students a strong background to enter additional programming courses. Units of study could include problem solving, web design, introduction to programming, app inventor, data analysis, and robotics. Anyone with an interest in computer science and/or information technology is welcome.

| **AP Computer Science** | **CMP 2020** | **1 Credit** | **Elective 10, 11, 12** |

Completion of Algebra 2-Trig **or** *Intro to Computer Programming* **or** *consent of instructor recommended.*
This course uses the Java language and is comparable to an introductory programming course offered in colleges and universities. Students will deepen their understanding of the basic programming structures and techniques. Students who have taken this course have often gone on into careers in computer related fields, although anyone with an interest in programming is welcome. This course will prepare students to take the Advanced Placement Computer Science exam. More information is available at:
http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html

| **Networking Essentials** | **CMP 4025** | **½ Credit** | **Elective 10, 11, 12** |

Welcome to the Cisco Certified Network Associate (CCNA) Discovery course, Networking for Home and Small Businesses. The goal of this course is to introduce you to fundamental networking concepts and technologies. This course provides a hands-on introduction to networking and the Internet using tools and hardware commonly found in the home and small business environment. This course's materials will assist you in developing the skills necessary to plan and implement small networks across a range of applications. This course prepares you to pursue entry level positions or further education for careers such as Network Technician, Computer Technician, Cable Installer, and Help Desk Technician jobs.

| **Business Technologies** | **CMP 4035** | **½ Credit** | **Elective 9, 10, 11, 12** |

Master the features of Microsoft Office and enjoy the benefits in both your academic and business careers. No matter what your career choice, you will be expected to have professional software application skills. In any business, time is money. People who know how to successfully use Excel, Word, PowerPoint, Publisher, and Access give themselves a competitive advantage in the job market. Advance your skills in up to three of the five areas of Microsoft Office each time you take this course. A valuable option available to you is the opportunity to become certified as a Microsoft Office Specialist (MOS). This MOS credential is globally recognized by colleges and the modern workplace and distinguishes an individual as qualified and knowledgeable in Microsoft applications. This course can be taken more than once to complete additional certifications. (Dual/transcripted credit is offered by Madison College with transfer possibilities to other colleges and universities.)

MARKETING

Advanced Standing credits may be granted by Madison College. Check with your instructor.

Marketing Course of Study

*Industry Certifications and college credits can be earned throughout this course of study.
-Experiential Learning is available throughout this course of study.

This course of study map represents a suggested sequence of courses leading to capstone, work-based learning, and post-secondary experiences which will assist students in being as successful as possible after leaving high school. Although each student will personalize their experiences, the earlier a student begins this sequence, the more opportunities students will have to fully explore the educational and community options available. These sequences should be coupled with appropriate core courses as well as life-skills and courses in a student's area of interest.

| **Marketing & Sales** | **MRK 1015** | **½ Credit** | **Elective 9, 10, 11, 12** |

What do Apple, ESPN, Twitter, Google, and Nike have in common? They are all successful marketers! Learn the skills and methods that have helped these companies to become some of the world's most recognized and celebrated brands. Marketing touches the lives of people on a daily basis as family members, consumers, and employees. This course will provide the opportunity for you to gain valuable marketing insight, knowledge, and skills in the processes and procedures that occur from the creation of a product/service to the consumption of those products/services by the consumer. You will explore the functions of marketing with a specific emphasis on promotion, selling, market research, distribution, and pricing.

| **Advertising & Social Media** | **MRK 1035** | **½ Credit** | **Elective 9, 10, 11, 12** |

Advertising and Social Media is designed to challenge you in analyzing topics related to advertising, social media, and customer service; as well as designing visual and digital media for real-life application. Classroom activities will showcase fun and challenging case studies that will provide a good understanding of many careers in business and marketing.

| **Sport & Event Management** | **MRK 1045** | **½ Credit** | **Elective 10, 11, 12** |

Billions of dollars are spent annually on sports and other forms of entertainment. This fascinating service area is a growing industry that employs advertising and promotion agents, personal assistants, sports agents, event planners, and many other professionals. You will apply the fundamental principles and concepts in sports and event management and develop critical thinking and decision-making skills through hands-on, real-world projects. Classroom instruction will be reinforced through guest speakers, case studies, and field trips.

| **Innovation Zone 2: Be Your Own Boss** | **MRK 1055** | **½ Credit** | **Elective 11, 12** |

Successful students will have completed Innovation Zone 1: Entrepreneurship with a C or better. If you are one of the seventy percent of all high school students who say they want to start their own business, this is the class for you! Expand on your knowledge from Innovation Zone: Entrepreneurship. Develop a startup business framework and learn from local entrepreneurs to work through problems you will encounter. Pitch your idea at a city-wide event.

ENGLISH

Memorial offers a sequential English program with skills and concepts building from one year to the next.

9TH GRADE

| **English 1** | **ENG 1010** | **1 Credit** | **Required 9** |

In this year-long course, students build on their learning from grade 8 as they develop their skills and understandings from the Common Core State Standards grades 9-10 band. Reading, discussing, and writing in response to high-quality, high-interest literary and informational texts develop students' ability to synthesize ideas within and across texts, analyze the choices authors make, use knowledge of language and its conventions, acquire and use vocabulary words, and foster the joy of reading. Using collaborative discussions and activities enables students to understand the importance of considering various perspectives. Students write for a variety of purposes and audiences, using the writing process and technology to create and publish narrative, informative/explanatory, and argument texts.

| **English 1 Honors** | **ENG 1020** | **1 Credit** | **Required 9** |

Honors English 1 parallels the core curriculum with greater rigor. A course that receives an honors designation has expectations for students that are measurably broader, deeper, and/or more complex in comparison to its standard course.

10TH GRADE

| **English 2** | **ENG 1040** | **1 Credit** | **Required 10** |

In this year-long course, students continue to develop their skills and understandings from the Common Core State Standards grade 9-10 band. Students engage with both literary and informational texts to hone their ability to read, write, and think critically about the course's themes and topics while engaging in both collaborative work with their peers as well as independent work. Students write shorter and extended texts in the modes of narrative, informative/explanatory, and argumentative texts, leveraging technology, the research process, and the writing process to develop and publish writing.

| **English 2 Honors** | **ENG 1050** | **1 Credit** | **Required 10** |

Honors English 2 parallels the core curriculum with greater rigor. A course that receives an honors designation has expectations for students that are measurably broader, deeper, and/or more complex in comparison to its standard course.

11th GRADE

| **English 3** | **ENG 1070** | **1 Credit** | **Required 11** |

In this year-long course, aligned to the Common Core State Standards 11-12 band, students build on their skills from 9th and 10th grades. Students develop their abilities to read, write, and think critically, and engage in collaborative work with peers for many opportunities to practice speaking and listening. Students also continue past work with the study of Latin and Greek word stems and with practice in employing various sentence patterns. Students read and study a variety of literary and informational texts throughout the year, at times developing their own writing in response, in narrative, informative/ explanatory, and argumentative modes. Students will complete on-demand, spontaneous writing tasks; write in response to ACT essay prompts; and take on extended writing projects, in which they will use a writing process of pre-writing, drafting, revising. Students will use technology to compose and share their writing.

AP Language and Composition	ENG 2010	1 Credit	Required 11

Please note: You must check with English 2 teacher for details of required summer project.

AP Language and Composition is a college-level introductory course in (1) the writing of formal exposition, analysis, and argumentation, and (2) the reading of mature prose, primarily non-fiction, by classic writers. More information is available at: https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-english-language-course-overview.pdf

12th GRADE

English 4	ENG 1110	1 Credit	Required 12

In this year-long course, students continue to develop their skills and understandings from the Common Core State Standards grade 11-12 band, recalling and practicing those developed in the previous year. Students hone their abilities to read, write, and think critically, both on their own and in collaborative work with peers. Students will analyze and reflect on key pieces in British/World literature, as well as contemporary essays. Students will write in response to these texts, which will serve as models for the writing students do, including a college application essay, a literary analysis essay, and an argument essay. Students write across various spans of time (from on demand, spontaneous writing to extended writing) and through various lenses (pre-writing, drafting, revising, etc.). Students use a variety of technological resources to develop and share their writing.

AP Literature and Composition	ENG 3010	1 Credit	Required 12

Please note: You must check with English 3 teacher for details of required summer project.

The AP Literature and Composition course is a college-level course in the critical analysis of literature. The composition portion stresses that you master the skill of ordering ideas into a logical pattern, developing them with pertinent and valid detail, and communicating them to the reader with clarity and fluency. More information is available at: https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-english-literature-course-overview.pdf

ELECTIVES

Creative Writing	ENG 2025	½ Credit	Elective 10, 11, 12

This creative writing course is designed for students to experiment with many different types of short fiction/prose and poetry writing. Students will investigate various model and mentor texts and engage in their own writing process to craft creative pieces. This course will also include emphasis on analysis skills in a student workshop model, allowing students to guide the feedback and revision process for their peers. The culmination of this course is a student portfolio in which pieces will be revised and polished to showcase growth as creative writers.

Film Study	ENG 4015	½ Credit	Elective 10, 11, 12

In this elective course, students develop the skills to analyze, describe, and enjoy film as a dramatic form. Students will study several films from the American Film Institute's list of the 100 best films made during the past 100 years. Selections will include some of the best dramatic directors and actors in the American cinema. Students will write short responses about each film. In addition, one essay is written during the semester.

Drama 1	ENG 5055	½ Credit	Elective 10, 11, 12

In this elective course, students explore the world of theater, participate in performance and technical aspects, and learn about theater history. Students participate in projects and activities that allow the pursuit of interests in acting, directing, design, and production. You have the opportunity to write, perform, produce, and direct your own film. Students view plays and films, with discussion aimed toward a high level of enjoyment and understanding of the cultural aspects of our society.

| **Public Speaking** | **ENG 6015** | **½ Credit** | **Elective 10, 11, 12** |

This elective speech course will help students learn how to organize their thoughts and speak clearly in both informal and formal presentations. While some of the speeches are delivered in an impromptu or casual style, most are carefully researched and prepared. Students will have experience giving many different types of speeches to their classmates. The teacher will make careful critiques of the speeches and will hold conferences with students regarding the speeches performed during the semester. As a result of taking Public Speaking, students improve their articulation, poise, eye contact, gestures, and organization of ideas.

| **Literature of the African Diaspora** | **ENG 8035** | **½ Credit** | **Elective 11, 12** |

This course will introduce students to 19th, 20th and 21st century African Diaspora literature and theory in the form of prose, poetry, music, film and drama. Students will engage in discourse around the social, historical and political context of the literature in order to gain a deeper and more nuanced understanding of the work.

ENGLISH AS A SECOND LANGUAGE

The ESL/Bilingual Program offers non-remedial, sheltered courses in language arts, social studies, science, and math to English Language Learners on the basis of language proficiency levels are determined by the WIDA ACCESS Placement Test. The English language proficiency levels are determined by the WIDA ACCESS Placement Test.

Any student whose English proficiency is at DPI Levels 1 through 4.9 can receive services. The department offers ESL services based on English language proficiency. These supports help students progress in English/Language Arts, Social Studies, Science, and Math, at the same time. For ELs who need help in mainstream classes, staff also offer support classes, focused on building academic vocabulary, reading and writing, for every grade.

Memorial's ELL department offers support for multilingual students with a Guidance Counselor, Bilingual Resource Teachers, EL teachers, Bilingual Resource Specialists, and a Bilingual Social Worker. Additionally, there is tutoring support for academic classes.

English Fundamentals	**ENG 1290**	**1 Credit**	**English 9, 10, 11, 12**

Specifically for students new to the country, this is a class for beginners who speak little to no English (**Overall DPI level 1-1.9**). The course focuses on the basics of English language development through the use of the *Edge* Reading, Writing and Language series. This class should be taken in conjunction with Literature Fundamentals. Evaluation will be based on assignment completion and ongoing standards-based progress.

Intermediate English	**ENG 1300**	**1 Credit**	**English 9, 10, 11, 12**

Placement based on English language proficiency of high beginning to low intermediate (**Overall DPI level 2-2.9**). Curriculum focuses on English language acquisition in the four domains of reading, writing, listening and speaking through the use of the *Edge* Reading, Writing and Language series. This class should be taken in conjunction with Intermediate Literature. Evaluation will be based on assignment completion and ongoing standards-based progress.

Advanced English	**ENG 1270**	**1 Credit**	**English 9, 10, 11, 12**

DPI level approximately **2.5-3.5 in the area of Literacy**. This is an intermediate course for students learning to speak, read and write English. It focuses on building language structure and skills through the use of the *Edge* Reading, Writing and Language series. This class should be taken in conjunction with Advanced Literature. Evaluation will be based on assignment completion and ongoing standards-based progress.

English for Academic Success	**A-ENG 1280**	**1 Credit**	**English 9, 10, 11, 12**

DPI level approximately **3 - 3.9**. This course is for students who can read, write, and speak English comfortably. It is aligned with English 1 and includes much of the curriculum, but allows the students more time to complete the assignments. This class should be taken in conjunction with Literature for Academic Success. Evaluation will be based on assignment completion and ongoing standards-based progress.

Literature Fundamentals	**A-ENG 3200**	**1 Credit**	**Elective 9, 10, 11, 12**

This course MUST be taken in conjunction with ESL English Fundamentals. It will strengthen student skills in English language reading and vocabulary. Students will be exposed to a variety of texts and reading strategies. Materials for this course come from the *Edge* Reading, Writing and Language series. Evaluation will be based on assignment completion and ongoing standards-based progress.

| **Intermediate Literature** | **A-ENG 3210** | **1 Credit** | **Elective 9, 10, 11, 12** |

This course MUST be taken in conjunction with ESL Intermediate English. It is an intermediate reading course intended for students at a beginning reading level in English. Students will be exposed to a variety of texts and reading strategies. Materials for this course come from the *Edge* Reading, Writing and Language series. Evaluation will be based on assignment completion and ongoing standards-based progress.

| **Advanced Literature** | **A-ENG 3220** | **1 Credit** | **Elective 9, 10, 11, 12** |

This course MUST be taken in conjunction with ESL Advanced English. Students will be exposed to a variety of texts and reading strategies. Materials for this course come from the *Edge* Reading, Writing and Language series. Evaluation will be based on assignment completion and ongoing standards-based progress.

| **Literature for Academic Success** | **A-ENG 3230** | **1 Credit** | **Elective 9, 10, 11, 12** |

This class MUST be taken in conjunction with ESL English for Academic Success.   Students will develop content-related academic vocabulary, study advanced grammar and vocabulary and will be encouraged to discuss a variety of thought-provoking reading materials. Evaluation will be based on assignment completion and ongoing standards-based progress.

| **Literacy Skills 1** | **A-GEN 2290** | **1 Credit** | **Elective 9** |

Placement based on concurrent enrollment in English 1 and US History 9. This course will support the English 1 & US History and also help students develop advanced English grammar, academic vocabulary, reading and writing skills. They will have tutoring in academic reading and writing and other disciplines. Evaluation will be based on assignment completion and ongoing standards-based progress.

| **Literacy Skills 2** | **A-GEN 2300** | **1 Credit** | **Elective 10** |

Placement based on concurrent enrollment in English 2. This course will support the English 2 curriculum, and also help students develop advanced English grammar, academic vocabulary, reading and writing skills. They will have tutoring in academic reading and writing and other disciplines. Evaluation will be based on assignment completion and ongoing standards-based progress.

| **Literacy Skills 3** | **A-GEN 2310** | **1 Credit** | **Elective 11** |

Placement based on concurrent enrollment in English 3. This course will support the English 3 curriculum, and also help students develop advanced English grammar, academic vocabulary, reading and writing skills. They will have tutoring in academic reading and writing and other disciplines. Evaluation will be based on assignment completion and ongoing standards-based progress.

| **Literacy Skills 4** | **A-GEN 2320** | **1 Credit** | **Elective 12** |

Placement based on concurrent enrollment in English 4. This course will support the English 4 curriculum, and also help students develop advanced English grammar, academic vocabulary, reading and writing skills. They will have tutoring in academic reading and writing and other disciplines. College and career prep activities will also be included. Evaluation will be based on assignment completion and ongoing standards-based progress.

| **Extended Literacy** | **EXTLIT 1010** | **1 Credit** | **9, 10, 11, 12** |

This course is intended to allow students to have the opportunity for repeated practice, pre-teaching, re-teaching and/or explicit teaching of essential reading skills (e.g. fluency, comprehension, academic vocabulary, writing) as needed to enhance academic success in high school.

| **Algebra 1** | **A-MAT 1010** | **1 Credit** | **Math 9, 10, 11, 12** |

Placement based on successful completion of 8ᵗʰ grade math or its equivalent.
The topics covered in Algebra 1 include multiple representations of linear, quadratic, polynomial, and exponential functions. There is an emphasis on problem solving. This course satisfies the MMSD graduation requirement of one credit of mathematics in Algebra. A scientific calculator is required. Calculators will be provided.

| **Geometry** | **A-MAT 2010** | **1 Credit** | **Math 10, 11, 12** |

DPI level 2 - 3. Placement based on successful completion of Algebra 1. The objectives of Geometry are to develop an understanding of the properties and relationships of objects in two-and three-dimensional space. Emphasis is placed on using and extending Algebraic techniques, modeling real-world applications, and developing the idea of proof in mathematics. Calculators will be provided.

| **Science Fundamentals** | **A-SCI 2060** | **1 Credit** | **Science 9, 10, 11, 12** |

Placement based on DPI level 1 - 1.9. This introductory science course focuses on developing English skills through the study of Life Science, Earth Science and Physical Science. Emphasis is placed on acquisition of scientific language and on cultivating a passion for scientific inquiry. Course content is aligned with the Wisconsin State Science Standards and the Next Generation Science Standards.

| **Unified Science** | **A-SCI 2050** | **1 Credit** | **Science 9, 10, 11, 12** |

Placement based on DPI level 1.5 - 2.9. This is an introductory class where students learn about the different types of energy and how they relate to everyday life. It also focuses on skills and language relating to Life Science, Earth Science, Physical Science and science skills. This class gives a sample of concepts studied more in depth in other science classes. The course content is aligned with the Wisconsin State Science Standards and the Next Generation Science Standards.

| **Conceptual Biology** | **A-SCI 1020** | **1 Credit** | **Science 9, 10, 11, 12** |

Placement based on DPI level 2.5 - 3.9. This course is an introduction to the field of biology. Topics for study include characteristics of all living things, cycling of energy and matter in ecosystems, cells to organisms, and ecosystem stability and change. In addition, students will learn lab skills such as using microscopes, working in collaborative groups, collecting and evaluating evidence, and they will practice these skills in different investigations. The course content is aligned with the Wisconsin State Science Standards and the Next Generation Science Standards.

| **Social Studies Fundamentals** | **A-SOC 1200** | **1 Credit** | **Social Studies 9, 10, 11, 12** |

Placement is based on **DPI level (1)**. This is a beginner level course in basic Social Studies vocabulary and skills. The students will learn about US history. Students will learn about the First Americans through the 1850s. Students will concentrate on learning how to read nonfiction texts, how to interpret various graphics, and how to take notes at the high school level.

| **US History** | **A-SOC 1010** | **1 Credit** | **Social Studies 9, 10, 11, 12** |

Placement based on **DPI level (2-3)**. This course covers US History from the US Civil War to the end of World War II. Students will concentrate on reading nonfiction texts and taking notes. Students will work on building their comprehension skills. Students will focus on reading, speaking, and writing about history.

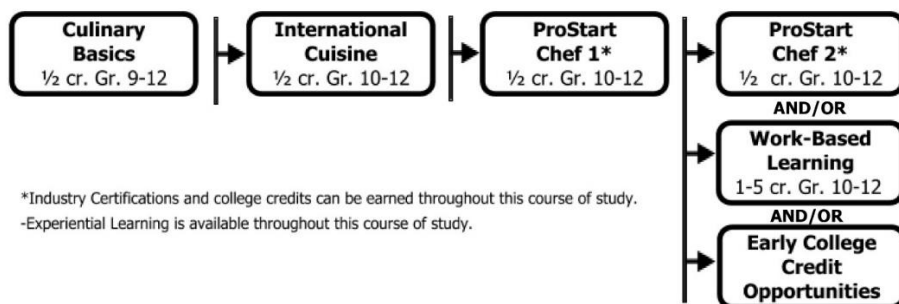| **World History** | **A-SOC 2010** | **1 Credit** | **Social Studies 9, 10, 11, 12** |

Placement based on **DPI level (2-3)**. This course is the study of the history of our world, from prehistory until today. There is a focus on vocabulary building, group work and events from history that shape our world today.

FAMILY AND CONSUMER SCIENCES

Family and Consumer Science will prepare students with skills for 21st Century Career and College Readiness. This vocational area offers classes that will prepare students for entry into related employment or for careers accessed through post-secondary education. Students may choose to get ahead in their careers by taking Certification programs in child care, food service or health science. Family and Consumer Science helps students cultivate the ability to use critical and creative thinking skills to make good decisions and develop healthy relationships.

Hospitality: Restaurant & Food/Beverage Course of Study

*Industry Certifications and college credits can be earned throughout this course of study.
-Experiential Learning is available throughout this course of study.

This course of study map represents a suggested sequence of courses leading to capstone, work-based learning, and post-secondary experiences which will assist students in being as successful as possible after leaving high school. Although each student will personalize their experiences, the earlier a student begins this sequence, the more opportunities students will have to fully explore the educational and community options available. These sequences should be coupled with appropriate core courses as well as life-skills and courses in a student's area of interest.

Culinary Basics	FCS 1015	½ Credit	$30 fee	Elective 9, 10, 11, 12

This course is for students who want to learn food preparation techniques. Units of study include: nutrition, safety and sanitation, proper use of equipment, etiquette, and menu planning. Teamwork is emphasized so you will enjoy working in kitchen labs and will develop a love of fresh healthy food. May be repeated for credit.

International Cuisine	FCS 1025	½ Credit	$30 fee	Elective 9, 10, 11, 12

Successful students will have completed Culinary Basics with a "C" or better.

Explore the food and hospitality industries as you study like a chef. Learn proper and safe, advanced, gourmet cooking techniques. Units include: preparing healthy food in sanitary kitchen-labs; professionalism in food service; perfecting knife skills; plating; soup making; cooking with fruits, vegetables, potatoes and grains; practicing good restaurant-style food service while participating in catering projects. ProStart is an initiative of the National Restaurant Association that offers a variety of scholarships and entry into culinary competitions.

ProStart Chef 1	FCS 1035	½ Credit	$30 fee	Elective 10, 11, 12

Successful students will have completed International Cuisine with a "C" or better.
Explore the food and hospitality industries as you study like a chef. Learn proper and safe, advanced, gourmet cooking techniques. Units include: preparing healthy food in sanitary kitchen-labs; professionalism in food service; perfecting knife skills; plating; soup making; cooking with fruits, vegetables, potatoes and grains; practicing good restaurant-style food service while participating in catering projects. ProStart is an initiative of the National Restaurant Association that offers a variety of scholarships and entry into culinary competitions.
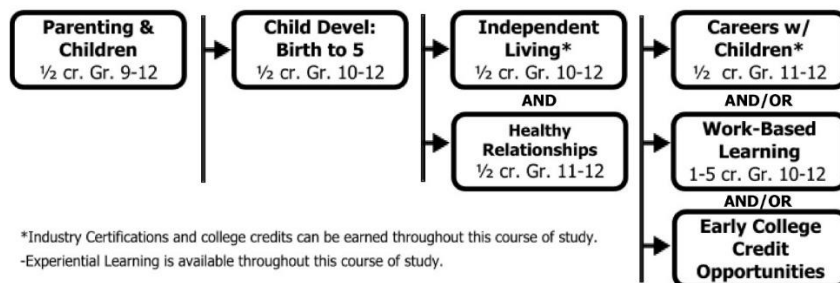
ProStart Chef 2	FCS 1045	½ Credit	$30 fee	Elective 10, 11, 12

Successful students will have completed ProStart Chef 1 with a "C" or better.
Sharpen your culinary skills preparing restaurant quality cuisine! Fine tune your sense of flavor! Students will use a variety of cooking techniques. Units include breakfast foods, meat, poultry, fish, baking and pastry including cake decorating. Interest in attending a 2-year or 4-year college in the culinary field is a bonus but not required. Students will have several restaurant and catering opportunities. ProStart is an initiative of the National Restaurant Association that offers a variety of scholarships and entry into culinary competitions.

Human Services: Early Childhood Development Course of Study

*Industry Certifications and college credits can be earned throughout this course of study.
-Experiential Learning is available throughout this course of study.

This course of study map represents a suggested sequence of courses leading to capstone, work-based learning, and post-secondary experiences which will assist students in being as successful as possible after leaving high school. Although each student will personalize their experiences, the earlier a student begins this sequence, the more opportunities students will have to fully explore the educational and community options available. These sequences should be coupled with appropriate core courses as well as life-skills and courses in a student's area of interest.

Child Development (Birth – 5 Yrs)	FCS 2015	½ Credit		Elective 10, 11, 12

This course focuses on the growth and development of children from conception to age five. Students will learn about the various areas of development (physical, cognitive, emotional, social, and moral) as a child grows. Opportunities for real-world application may include taking home a baby simulator. This course is valuable to those who decide to be parents or those who will be working with children in the future.

Careers with Children (ACCT Cert)	FCS 2025	½ Credit	$10 fee	Elective 11, 12

Successful students will have completed Child Development (Birth - 5 Years) with a "C" or better. Students must have a clean background check to participate in the Preschool or volunteer in a daycare center (Per caregiver law HFS12).

This course is for students who are capable of earning their Assistant Child Care Teacher (ACCT) Certification through the Department of Public Instruction, valuable for any career involving children. This class is challenging, and rewarding, as students plan and operate their own "in-house" preschool applying course knowledge and skills. "The Wisconsin Technical College System (WTCS) Early Childhood Education Programs will grant a student who has successfully completed the DPI approved ACCT Course from a Wisconsin high school, three elective credits upon acceptance into, and demonstrated success within, the WTCS Early Childhood Education Program (#10-307-1)."

Parenting And Children	FCS 2035	½ Credit		Elective 9, 10, 11, 12

Students must have a clean background check to participate in the Preschool or volunteer in a daycare center (Per caregiver law HFS 12).
What can we, as parents, do to help children grow to their fullest potential? Students explore how to teach skills as varied as toilet training and reading, while fostering their family's culture and values. Students will have opportunities to explore realistic life experiences by taking home a baby simulator. Units of study include: effective parenting, health and safety of children, children's nutrition, teaching the love of learning, and working with children with various needs.

| **Healthy Relationships** | **FCS 2055** | **½ Credit** | **Elective 11, 12** |

This course takes a mature look at the many aspects surrounding relationships and sexuality. Students taking this course should be willing to participate in a discussion based format. Units of study include: understanding ourselves, communication, decision-making, relationships, abstinence, and family crisis.

| **Independent Living** | **FCS 2065** | **½ Credit** | **Elective 10, 11, 12** |

Prepare yourself for a life after high school. Personal growth, financial literacy, legal responsibilities, and protective behaviors are some of the many topics covered in order to make your transition to the real world easier.

HEALTH SCIENCE

Health Science courses benefit students interested in the Health Science Career Cluster area. Related pathways provide students with a foundation for planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. Students are encouraged, but not required, to join the related student organization of Health Occupations Students of America (HOSA).

Health Science Course of Study
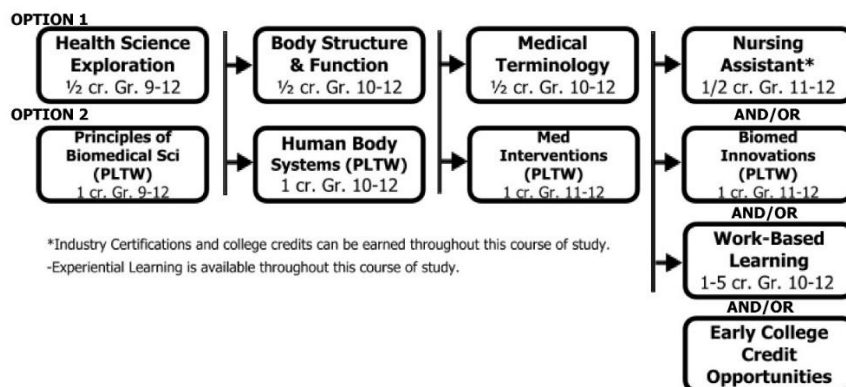
This course of study map represents a suggested sequence of courses leading to capstone, work-based learning, and post-secondary experiences which will assist students in being as successful as possible after leaving high school. Although each student will personalize their experiences, the earlier a student begins this sequence, the more opportunities students will have to fully explore the educational and community options available. These sequences should be coupled with appropriate core courses as well as life-skills and courses in a student's area of interest.

| **Health Science Exploration** | **FCS 4015** | **½ Credit** | **Elective 9, 10, 11, 12** |

Get a jump start on a career in the rapidly growing health care industry. Many describe this introductory course as a "make or break" in their decision to go into health care before investing in college tuition. Learn to use basic medical equipment while exploring the many career opportunities in health care. In this interdisciplinary course students will become introduced to medical terminology, health care delivery systems, legal and ethical health care issues, personal health financial literacy and employability and job seeking skills. This course is a prerequisite for the Nursing Assistant certification course. Students interested in the health care field are invited to participate in Health Occupation Students of America (HOSA) Club which sponsors community service projects and members are able to compete at the state and national events.

| **Medical Terminology** | **FCS 4035** | **½ Credit** | **Elective 10, 11, 12** |

Students will gain knowledge of medical terminology, vocabulary and abbreviations used in health-related careers. Students will practice formation, analysis and reconstruction of terms. There is an emphasis on spelling, definition and pronunciation. The class is an introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems related to health careers. Students are invited to participate in Health Occupations Students of America (HOSA) Club activities, community service and competitive state and national events.   (Dual/transcripted credit is offered by Madison College to 11th and 12th graders only, with transfer possibilities to other colleges and universities.)

| **Body Structure & Function** | **FCS 4065** | **½ Credit** | **Elective 10, 11, 12** |

Successful students will have completed Health Explorations with a "C" or better.
Designed to cover topics of body structure and function at an introductory level, this course prepares students for advanced study in Medical Terminology, Certified Nursing Assistant, and Physiology and Anatomy courses. Students use hands-on activities and anatomy in clay to understand and remember the body systems and how they are viewed and treated by medical personnel. Discussions center around prevention, pathology, diagnostics, therapies, emerging technology, and related careers.

| **Nursing Assistant** | **FCS 4040** | **1 Credit** | **Elective 11, 12** |

Successful students will have completed Body Structure & Function with a "C" or better and/or have taken Medical Terminology prior to taking this course.

This course is taught by a registered nurse from Madison College. Students seeking employment in any health care field will find this a valuable first step! Nursing Assistant is a Prerequisite to all Wisconsin Technical College System nursing programs and some 4-year college admissions to nursing programs. Units of study and skills include: human development, infection control, patient transfer, body in health and disease, personal care and hygiene, nutrition, and special care. To meet certification requirements, students must pass both theory and clinical experiences in a local health care agency arranged by the teacher, maintain a grade of 75% or better, and meet attendance requirements. A successful background check, TB skin tests, and certification test fee are required, but may be covered in whole or in part by the district. Class meets for additional hours of lab and clinical time on weekends, mornings, evenings, and/or breaks. Students can earn 3 college credits in addition to 1 high school elective credit.

Human Relations	GEN 2025	½ Credit	Elective 10, 11, 12

This course gives you the opportunity to get to know who you are, why you are a unique individual, and how you can become the person you would like to be. You also learn skills that aid you in small group communications and conflict resolution. Finally, you are exposed to societal problems such as discrimination, prejudice, labeling, and stereotyping. The major goal is to learn from one another by relating personal experiences. The atmosphere in this class is crucial to its success, so we keep it relaxed, confidential, and accepting.

MATHEMATICS

The Madison Metropolitan School District requires three (3) credits of mathematics classes for graduation. One credit must be earned from a course in algebraic concepts and one credit from a course in geometric concepts. Please see your counselor for details. Every course above Algebra 1 has recommendations which are intended to help students choose the appropriate class sequence. This sequence is intended as a guideline. Please speak with your current math instructor for further clarification.

COMMON MATHEMATICS COURSE SEQUENCES
(This is a suggested guide. Other combinations are possible)

Grade 9	Grade 10	Grade 11	Grade 12
Algebra 1	Geometry	Algebra 2/Trig	Algebra 3
Algebra 1	Geometry	Algebra 2/Trig	Statistics/AP Statistics
Algebra 1	Geometry	Advanced Algebra (TC)	Algebra 2/Trig
Algebra 1	Geometry	Advanced Algebra (TC)	Statistics
Algebra 1Honors	Geometry Honors	Algebra 2/Trig Honors	Algebra 3 Honors
Algebra 1Honors	Geometry Honors	Algebra 2/Trig Honors	Statistics/AP Statistics
Algebra 1Honors	Geometry Honors	Pre-Calculus	AP Calculus AB
Algebra 1Honors	Geometry Honors	Pre-Calculus	Statistics/AP Statistics
Geometry Honors	Algebra 2/Trig Honors	Algebra 3 Honors	AP Calculus AB
Geometry Honors	Algebra 2/Trig Honors	Algebra 3 Honors	Statistics/AP Statistics
Geometry Honors	Algebra 2/Trig Honors	Statistics/AP Statistics	
Geometry Honors	Pre-Calculus	AP Calculus AB	AP Calculus BC
Geometry Honors	Pre-Calculus	AP Calculus AB	Statistics/AP Statistics
Geometry Honors	Pre-Calculus	Statistics/AP Statistics	

Any student that needs a scientific calculator or graphing calculator for their math class can check one out for the year through the Math Department free of charge. Forms to check out calculators are available from every math teacher.

Algebra 1 **MAT 1010** **1 Credit** **Required 9, 10, 11, 12**

In this course, students will practice applying mathematical ways of thinking to real world issues and challenges. Topics include systems of linear equations and inequalities, linear, exponential, and quadratic relationships, and introductory statistics. Students will be challenged to think and reason both critically and mathematically by exploring multiple methods to solve real world problems. This course emphasizes mathematical modeling to analyze situations, and understand them better in order to make decisions. This course is aligned to the Common Core State Standards (CCSS) and follows the Traditional Pathway, as outlined in Appendix A. The CCSS Mathematical Practice Standards are applied throughout this course.

Algebra 1 **MAT 1020** **1 Credit** **Elective 9**
Honors

Successful completion of Math 8 with As in each quarter or Algebra 1 with a B average recommended along with consultation with your math teacher.

Algebra Honors parallels the core curriculum of Algebra 1 with greater levels of rigor. A course that receives an honors designation has expectations for students that are measurably broader, deeper, and/or more complex in comparison to its standard course.

| **Geometry** | **MAT 2010** | **1 Credit** | **Required 10, 11, 12** |

The purpose of this geometry course is to understand the attributes and relationships of geometric figures which can be applied in diverse contexts. Topics include, but are not limited to congruence, similarity, right triangle trigonometry, geometric properties of figures, modeling, probability, transformations, and constructions. Geometry is devoted primarily to plane Euclidean geometry, studied with and without coordinate systems. This course is aligned to the Common Core State Standards (CCSS) and closely follows the Traditional Pathway, as outlined in Appendix A. The CCSS Mathematical Practice Standards are applied throughout this course.

| **Geometry Honors** | **MAT 2020** | **1 Credit** | **Elective 9, 10** |

Successful completion of Algebra 1 Honors with a B average recommended along with consultation with your math teacher.

Geometry Honors parallels the core curriculum of Geometry with greater levels of rigor. A course that receives an honors designation has expectations for students that are measurably broader, deeper, and/or more complex in comparison to its standard course.

| **Algebra 2/Trig** | **MAT 3010** | **1 Credit** | **Elective 10, 11, 12** |

This is a third-year elective math course after Algebra 1 and Geometry. This course is **not** recommended for students who have completed their Algebra/Geometry requirement by attending Summer School.

The topics covered in Algebra 1 and Geometry are reviewed and expanded upon. Additional topics introduced are manipulating, graphing, and solving polynomial expressions, logarithms and exponential relationships, complex numbers, series and sequences and intermediate concepts of trigonometry. This course is intended to prepare students for taking math courses beyond high school. A scientific calculator is necessary.

| **Algebra 2/Trig Honors** | **MAT 3020** | **1 Credit** | **Elective 10, 11, 12** |

Successful completion of Geometry Honors with a B or better average along with consultation with your Geometry Honors teacher is recommended.

The topics covered in Algebra 1 Honors and Geometry Honors are reviewed and expanded upon. All of the topics of Algebra 2/Trig are covered at greater depth and at an accelerated pace. Additional topics are also included. A scientific calculator is necessary. A graphing calculator may be useful but cannot be used on some chapter tests and semester exams.

| **Algebra 3** | **MAT 4010** | **1 Credit** | **Elective 11, 12** |

Successful completion of Algebra 2/Trig or Algebra 2/Trig Honors with a B or better average recommended and consultation with your Algebra 2/Trig or Algebra 2/Trig Honors teacher.

This is a basic pre-calculus course and is an excellent preparation for a college pre-calculus course. After a review of linear and quadratic functions, the topics covered include polynomial and rational polynomial functions, exponential and logarithmic functions, polar coordinates and the complex number plane, vectors, matrices and determinants, sequences and series, probability and combinatorics, and advanced trigonometric functions. A scientific calculator is necessary. A graphing calculator may be useful but cannot be used on all exams.

| **Algebra 3 Honors** | **MAT 4020** | **1 Credit** | **Elective 11, 12** |

Successful completion of Algebra 2 /Trig Honors with a B or better average recommended **and** consultation with your Algebra 2/Trig Honors teacher.

This is a pre-calculus course and is an excellent preparation for a calculus course. The topics covered in Algebra 2/Trig Honors are reviewed and expanded upon.   After a review of linear and quadratic functions, the topics covered include polynomial and rational polynomial functions, exponential and logarithmic functions, polar coordinates and the complex number plane, vectors, matrices and determinants, sequences and series, probability and combinatorics, and advanced trigonometric functions. These are covered at an accelerated pace and in greater depth than regular Algebra 3.   Additional topics and material related to limits, intended to prepare students for Calculus is also covered as time permits. A scientific calculator is necessary. A graphing calculator may be useful but cannot be used on all exams.

| **Advanced Algebra** | **MAT 5010** | **1 Credit** | **Elective 11, 12** |

Advanced Algebra provides a thorough coverage of topics in an introductory college-level Algebra course. The course focuses on skills and techniques used in statistics, probability, linear expressions and equations, linear inequalities, polynomial expressions and equations, exponential and logarithmic expressions and equations, quadratic and radical expressions and equations, rational expressions and equations, as well as introducing trigonometry. Upon completion of this course with a grade of "C" or better, a student will receive both 1 elective credit, mathematics credit form MMSD, and 3 technical college credits from Madison College. College credit is at no cost to the student for students who complete the online Madison College application and enroll in the class.

| **Pre-Calculus** | **MAT 3060** | **1 Credit** | **Elective 10, 11, 12** |

An A average in both Algebra 1 Honors and Geometry Honors **and** consultation with current math teacher recommended.

This is an accelerated course for those who intend to take Calculus in high school. The content includes the topics of Algebra 2/Trig Honors and Algebra 3 Honors. Very little time is spent reviewing material learned in Algebra 1 Honors or Geometry Honors. A graphing calculator or a scientific calculator are necessary for this course.

| **Statistics** | **MAT 9020** | **1 Credit** | **Elective 11, 12** |

Successful completion of Algebra 2/Trig with a grade of "C" or better recommended **and** consultation of your Algebra 2/Trig teacher.

This course introduces you to the major concepts and tools for collecting, organizing analyzing, and drawing conclusions from data. It is taught as an introductory high school statistics course and is a good preparation for those who may be heading into the social sciences area after high school. Broad conceptual themes involve exploring data, planning a study, anticipating patterns, and using statistical inference. A TI-84 series graphing calculator is necessary.

| **AP Statistics** | **MAT 5040** | **1 Credit** | **Elective 11, 12** |

Successful completion of Algebra 2/Trig with a grade of B or better recommended **and** consultation of your Algebra 2/Trig teacher.

Statistics AP follows the AP curriculum in order to prepare you for the Statistics AP exam.   The course is non-calculus in its orientation, with a major focus on data analysis. It is the equivalent of an introductory statistics course at the college level. A TI-84 series graphing calculator is necessary. More information is available at: https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-statistics-course-overview.pdf

| **AP Calculus AB** | **MAT 5020** | **1 Credit** | **Elective 10, 11, 12** |

Successful completion of Pre-Calculus or Algebra 3 Honors with a grade of "B" or better **and** consultation with current math teacher is recommended.

Calculus AB (AP) is an Advanced Placement course which prepares you for the Advanced Placement AB exam. The emphasis is on the basic concepts of differential and integral calculus as well as on problem solving techniques.   This course is the equivalent of MATH 221 at the UW-Madison. You must pass the AP exam to receive college credit for this course. A TI-84 series graphing calculator is recommended. TI-89 or TI-Nspire CAS calculators are not allowed for use on tests. More information is available at: https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-calculus-ab-course-overview.pdf

| **AP Calculus BC** | **MAT 5030** | **1 Credit** | **Elective 11, 12** |

Successful completion of Calculus AB (AP) and consultation with your current math teacher is recommended.

This is the continuation of MAT 5020 and prepares you for the Advanced Placement BC examination. You are expected to take the AP exam. This course is equivalent to Math 222 at the UW-Madison.   You must pass the AP exam to receive college credit for this course. A TI-84 series graphing calculator is recommended. TI-89 or TI-Nspire CAS calculators are not allowed for use on tests. More information is available at: https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-calculus-bc-course-overview.pdf

| **AP Computer Science Principles** | **CMP 4010** | **1 Credit** | **Elective 10, 11, 12** |

In this course students will see how the principles of computer science allow people to change the world. Students will be introduced the big ideas of computer science: creativity, abstraction, data, algorithms, programming, internet, and impact. Students will learn to use languages such as Snap!, Javascript, and Python to make creative projects. College credit and/or advanced placement may be earned depending on the results of the AP test offered in May. This course will be transcripted as math credit.

MUSIC

All performance courses have several evening concerts throughout the year. Concert participation does factor in to student grades, and students are expected to attend except in the event of a district-approved absence.

BAND

Concert Band 1	MUS 1040	1 Credit	Elective 9, 10

The music department offers Concert Band to entering 9th-grade woodwind, brass, and percussion students for the study and performance of quality wind ensemble music. Class activities emphasize the development of instrument technique, tone production, tuning, fundamentals of music theory, music reading, and listening skills. Concert Band is a preparatory class for Symphonic Band and Wind Ensemble. Concert Band may also be used by 10th, 11th, and 12th grade musicians as lab band for learning a secondary instrument.

Concert Band 2	MUS 1050	1 Credit	Elective 9, 10

This ensemble is open to all 9th and 10th grade students who demonstrate a measure of success and understanding on a wind or percussion instrument. Emphasis is placed on increasing technical ability, tone production, and perception of quality performance. Placement in this ensemble is by audition for 9th grade and/or instructor approval. Generally, for students in grade 10.

Symphonic Band	MUS 1030	1 Credit	Elective 10, 11, 12

Students in Symphonic Band experience activities that emphasize the development and advancement of instrument technique, development of ensemble performance skills, tone production, tuning, fundamentals of music theory, music reading, and listening skills. The goal of the ensemble is the performance of the finest band repertoire at the highest levels of commitment, dedication, and musicianship.

Wind Ensemble	MUS 1090	1 Credit	Elective 10, 11, 12

Membership in this organization is open to all wind and percussion players who have successfully completed an advanced course of study on their instrument. This ensemble pursues an advanced musical repertoire and a heavier performance schedule. Emphasis is placed upon the stylistic and artistic performance aspects of band music. In addition to the regular performance schedule, the Wind Ensemble may tour schools in Madison and/or participate in outside music festivals. Placement in this ensemble is by audition and instructor approval and is for the more advanced performer

Jazz Ensemble	MUS 1085	½ Credit	Elective 9, 10, 11, 12

Preference is given to students enrolled in one of the four large bands during the school day. Some knowledge of jazz style and instrumental technique is necessary. Basic knowledge of improvisation, style and rhythmic control is extremely desirable for success in this course. Jazz Ensemble activities may include concerts, participation in jazz festivals, and service to the community. Jazz Ensemble may be taken in addition to other band courses and meets Monday evening at 7:00. Auditions and enrollment for this class will take place in the fall.

ORCHESTRA

Concert Orchestra	MUS 3030	1 Credit	Elective 9, 10

String students in this year-long course receive extensive experience in string orchestra performance. As part of a structured and comprehensive four-year curriculum, students receive training in specialized techniques in preparation for enrollment in upper level Orchestras. The Concert Orchestra presents three to four concerts per year. There are also opportunities that may include district music festivals and working with guest conductors/clinicians.

| **Symphony Orchestra** | **MUS 3020** | **1 Credit** | **Elective 10, 11, 12** |

Symphony Orchestra is open to all students in grades 10-12 with previous string performance experience. Further development of technical and musical skills is pursued with more advanced string orchestra literature. Students receive additional training which may include specialized techniques, history, theory, technique, and musicality, performance practices, and chamber music, placing an emphasis on the musical independence of each member of the ensemble.

| **Philharmonic Orchestra** | **MUS 3040** | **1 Credit** | **Elective 11, 12** |

Students in this year-long course continue to increase musical and technical skills through the performance of the finest full orchestra and string orchestra repertoire. Woodwind, brass, and percussion students are selected from the Wind Ensemble. Placement in this ensemble is by audition and/or instructor approval.

VOCAL

| **Chorale** | **MUS 2010** | **1 Credit** | **Elective 9, 10, 11, 12** |

Students in this year-long course will study and perform music from a wide variety of cultures and time periods. Emphasis is placed on improving technical ability, tone production, music literacy, performance expectations, evaluation of musical performances, and interpersonal skills. This ensemble is generally Soprano, Alto, & Baritone voicing; students of all gender identities are welcome.

| **Treble Chorus** | **MUS 2020** | **1 Credit** | **Elective 10, 11, 12** |

Treble Chorus will study and perform a variety of music selected from a wide spectrum of cultures and genres. Emphasis is placed on improving technical ability, tone production, music reading skills, critical thinking, interpersonal skills, and evaluation of performances. Students in Treble Chorus will study music written for soprano and alto voices, and choirs are open to and respectful of all gender identities. Placement for 9th grade students is by audition and instructor approval.

| **Concert Choir** | **MUS 2070** | **1 Credit** | **Elective 10, 11, 12** |

This ensemble is designed for the advanced singer. Concert Choir pursues an advanced musical repertoire and a heavier performance schedule. Emphasis is placed on the stylistic and artistic performance aspects of choral music. Placement in this ensemble is by audition and instructor approval. This ensemble is generally Soprano, Alto, Tenor, & Bass voicing; students of all gender identities are welcome.

| **Popular Vocal Styles** | **MUS 2035** | **½ Credit** | **Elective** | **9, 10, 11, 12** |

This is a one semester course offered to current and aspiring singers in all grades, regardless of their previous vocal music experience. The core curriculum explores healthy vocal technique, basic music theory, and stylistic practices related to Blues, Jazz, Musical Theatre, Gospel, Folk, R&B, Rock, Hip Hop, and other genres. This exploration takes place on a solo, small group, and large group performance level, and other class activities include lecture and extensive listening. In addition, students are expected to work individually and in small groups on a self-guided curriculum to explore areas of particular interest in further detail. Performances at concerts and other venues outside of the classroom will be available for interested students. Placement in this ensemble is by audition and instructor approval.

This class is offered contingent on student interest. If you are interested in taking this class, please discuss with the music department.

Guitar I	**MUS 4045**	**½ Credit**	**Elective**	**9, 10, 11, 12**

Guitar I is an introductory elective course designed to study basic, beginning guitar and guitar styles. Class guitars are provided. Basic techniques include: correct instrument posture, aural skills, folk/pop/rock chord types (major, minor, and 7th chords) and standard strumming styles for accompaniment and blues patterns. In addition, students will learn how to read music notation, tablature, and chord symbols. Advanced topics for individual exploration may include fingerpicking, elementary classical technique, barre shapes, advanced note reading (Jazz & Classical), and Rock & Blues improvisation.

Guitar II	**MUS 4055**	**½ Credit**	**Elective**	**9, 10, 11, 12**

Successful completion of Guitar I recommended or interview/audition with instructor.
Guitar II offers advanced instruction and guided independent work in the various genres introduced in Guitar I. The genres include Folk, Country, and Bluegrass, Blues and Rock, Jazz and Classical. Specific techniques include melodic flatpicking, advanced Travis-style finger picking, Blues and Rock solo improvisation and barre chord applications. The course will also cover the study and analysis of well-known pop guitar transcriptions using both notation and tablature and extensive note reading in both the Jazz and Classical idioms.

This class is offered contingent on student interest. If you are interested in taking this class, please discuss with the music department.

Music Appreciation (Peer Partners)	**MUS 4065**	**½ Credit**	**Elective**	**9, 10, 11, 12**

This elective is open to regular education and special education students, and is ideal for students involved in Peer Partners or those who are interested in pursuing music therapy. The course involves the study of basic music theory and an overview of music history from the Middle Ages to the present. All styles, including ethnic and popular music, are explored. Classroom activities involve extensive listening, learning about instruments and ensembles, and world drumming.

Hip Hop Studies	**MUS 4075**	**½ Credit**	**Elective**	**11, 12**

Hip-hop culture is the focus of this course, from its precursors in African-American musical to its inception in the Bronx in the 1970s to the global force it has become today. Hip-hop education is rooted in identifying and building upon the intellectual abilities exemplified within Hip-Hop music and pedagogy. Students will study Hip-hop history through lecture, reading, class discussion, in-class demonstrations, and extensive listening. Students will look critically upon the ability to perform this music through a combination of the four elements of hip-hop culture: emcee techniques, beat production, dance and graffiti. There is one performance outside of school hours.

Music Theory	**MUS 4085**	**½ Credit**	**Elective**	**10, 11, 12**

The study of written and aural music is open to all students who are proficient in music reading and have a working knowledge of major scales and key signatures. Emphasis is placed on ear training, analysis, and composition. This class begins at a basic level, but moves at a fast pace and covers most material found on the AP Music Theory exam. Music Theory may be taken in addition to other music courses.

This class is offered contingent on student interest. If you are interested in taking this class, please discuss with the music department.

PHYSICAL EDUCATION

One and one-half credits of Physical Education plus one semester of Health Education (1/2 credit) are required for graduation. ALL Physical Education classes are traditionally graded (A through F). By the end of the second week of each semester, parents/guardians may decide whether or not the grade will be counted as part of their student's grade point average (GPA). Health class is traditionally graded (A thru F), and is included in the GPA.

CORE PROGRAM

Foundations of Physical Activity and Health Education are required to provide students an opportunity to understand the importance of developing an active, healthy lifestyle. Educators motivate students to make a commitment to be physically active by aligning according to SHAPE America Standards for Physical Education & Health Education. This is the foundation to build meaningful and educational experiences for all students.

Foundations of Physical Activity	**PHY 1015**	**½ Credit**	**Required 9**

Foundations of Physical Activity is a course that provides opportunities for students to experience a wide variety of physical activities to promote lifelong health and wellness. Through this semester-long course, students will strive to refine various motor skills and movement patterns, increase understanding of activity strategies and concepts, and enhance physical fitness knowledge and performance. Participation in fitness and lifetime activities throughout the course will help students develop skills in teamwork, sportsmanship, and communication. This course aims to support students in developing an intrinsic connection to the importance of lifelong physical activity.

Health Education	**PHY 1035**	**½ Credit**	**Required 10**

Health Education is a course designed to provide skills-based learning experiences that support students in becoming health literate individuals. The course will focus on analyzing internal and external influences, accessing health resources, communicating effectively with others, making healthy decisions, setting personal goals, practicing healthy behaviors, and advocating for personal and community health. Critical content will include personal health and wellness, healthy eating, mental and emotional health, alcohol and other drugs, and human sexuality.

ELECTIVE PROGRAM

Lifestyle Changes and Choices	**PHY 1045**	**½ Credit**	**$15 fee**	**Elective 10, 11, 12**

Goals for the class are:
1. To introduce students to a variety of activities to improve their overall well-being and fitness.
2. Increase your cardiovascular fitness through low-impact aerobic activities such as jogging, walking, water aerobics, aerobic dance, step aerobics, weight training and other aerobic activities.
3. Find lifetime fitness activities in which you can participate, such as volleyball, basketball, tennis, badminton, Frisbee, and more. Activities vary with the class skills.
4. Create a Personal Wellness Plan.

This course may be repeated for credit.

Individual Sports	**PHY 2035**	**½ Credit**	**$40 fee**	**Elective 10, 11, 12**

This course emphasizes participation, with instruction focusing on concepts, strategies and skills. Units may include, cross country skiing, snowshoeing, bowling, golf, tennis, badminton, spinning, swimming, rollerblading, archery, racquetball, disc golf, table tennis, pickleball, lawn games. Fitness assessments will be completed periodically. This course may be repeated for credit.

Team Sports	**PHY 3015**	**½ Credit**	**$25 fee**	**Elective 10, 11, 12**

The course emphasizes participation with instruction focusing on team concepts, strategies and skills. Units may include: football, softball, Ultimate Frisbee, soccer, stxball, volleyball, floor hockey, bowling, team handball and basketball. Fitness assessments are completed periodically. Course fee covers bowling. This course may be repeated for credit.

| **Weight Training 1** | **PHY 4015** | **½ Credit** | **Elective 10, 11, 12** |

This course is activity-based to increase your personal strength and endurance through the use of progressive resistance exercise. Additionally, there is a weekly classroom component that includes units in basic anatomy, program development, exercise physiology, training concepts/methodologies, and nutrition. This course may <u>NOT</u> be repeated for credit.

| **Weight Training *2*** | **PHY 4025** | **½ Credit** | **Elective 10, 11, 12** |

Successful completion of Weight Training 1 with a B or higher recommended.
This course is activity-based and geared to the highly motivated student with increased conditioning, strength, endurance and personal fitness as goals. Both the weight room and gym space are utilized to incorporate a variety of training methods. Additionally, there is a weekly classroom component that includes units in exercise supplements, injury prevention, and a more thorough study of anatomy and exercise physiology as it pertains to muscles, their actions and relevance to specific resistance training exercises. Throughout the course, you will develop and modify your own personal exercise program. This course may be repeated for credit.

| **Personal Fitness** | **PHY 4035** | **½ Credit** | **Elective 10, 11, 12** |

The course provides you the opportunity to gain information about long-term health and fitness. MWF are aerobic activities with T TH core and strength activities. Activities **may** include running, low impact aerobics, resistance training, yoga, step aerobics, cross country skiing, water aerobics, kickboxing, rollerblading, spinning, snowshoeing, and biking. This course may be repeated for credit.

| **Challenges and Adventure** | **PHY 5015** | **½ Credit** | **$40 fee** | **Elective 11, 12** |

Good physical health recommended.
Two one-day field trips to the outdoor ropes course, an overnight camping trip to the Madison Forest, and a "caving experience" are graded course expectations. The class takes advantage of the ropes course in our field house, the field house itself, and the outdoor ropes course. It is intended to provide an approach to physical education based on taking safe physical and emotional risks, using a variety of problem-solving techniques, and thereby achieving specified objectives that are determined by each class of students and their instructor. Students will learn belaying skills and participate in the required climbing activities.   Students work to overcome the challenges of this course while learning about themselves and others; growing physically, mentally, and emotionally. The outdoor adventure aspect of the class is lecture/presentation based. Units include compass/orienteering, camping, "Leave No Trace" principles, First Aid, virtual hike project, survival book report and outdoor survival skills. Course fee covers field trips. This course may <u>NOT</u> be repeated for credit.

| **Advanced Ropes** | **PHY 5025** | **½ Credit** | **$60 fee** | **Elective 11, 12** |

Good physical health **and** completion of Challenges and Adventure with a grade of B or better recommended.
The class is designed for the enthusiastic climbers and belayers who want to grow emotionally and physically through some non-traditional activities. Climbing elements and becoming belay-trained are mandatory for this course. Increasing personal confidence, being a team member, and displaying strong leadership skills are major goals in the class.   Several mandatory trips occur during the semester. You learn facilitation skills while working with elementary-; middle-; and high school students on our ropes course. Course fee covers field trips. This course may <u>NOT</u> be repeated for credit.

| **Racquet &** | **PHY 5065** | **½ Credit** | **$40 fee** | **Elective 11, 12** |
| **Team Sports** | | | | |

This course combines components of both Individual and Team Sports. The course emphasizes participation, with instruction focusing on individual/team concepts, strategies and skills. Units include: tennis, badminton, pickleball, racquetball, basketball, volleyball, floor hockey, table tennis, football, team handball. Course fee covers bowling and racquetball. This course may be repeated for credit.

Social Dance	**PHY 6015**	**½ Credit**	**$10 fee**	**Elective 10, 11, 12**

Learn the basics of movement through dance. This course is designed to provide the beginning social dance student with a variety of dance experiences, such as contemporary (line dances and creative dance choreography) and traditional (ballroom dances and International folk dances). A portion of the class is devoted to creative elements that allow each individual to apply learned patterns and dance steps to create original dance routines in small and large group situations. Course fee covers cost of field trips. This course may be repeated for credit.

| **Lifeguard** | **PHY 7025** | **½ Credit** | **$135 fee** | **Elective 10, 11, 12** |
| **CPR/First Aid** | | | | |

Students must be 15 years of age and possess high-intermediate swimming skills, such as swim 300 yards without stopping using front crawl and breaststroke, swim 20 yards and surface dive to a depth of 7-10 feet, retrieve a 10-pound object and swim back 20 yards, and tread water for 2 minutes without using arms. Non-proficient swimmers unable to perform the above requirements will be removed from class.

The course gives you cognitive and practical experience in the areas of lifeguard training, First Aid, and CPR/AED. Students will learn basic first aid skills, adult, child, and infant rescue breathing, choking procedures, CPR, AED usage, water rescue skills for conscious and unconscious victims, and spinal injury management. Students can earn certification in Lifeguarding, First Aid, and CPR/AED for the Professional Rescuer after successfully completing final skill scenarios and written tests from the American Red Cross. After successful completion of the class, students will be ready to lifeguard at a public or private pool. Course fee to cover costs of required American Red Cross materials. This course may be repeated for credit.

Introduction	**PHY 7055**	**½ Credit**	**$25 fee**	**Elective 11, 12**
to Sports				
Medicine				

This is an upper-level elective designed for the highly-motivated student with an interest in healthcare professions. This course will provide the student with an overview of Athletic Training with an emphasis on anatomy/physiology; as well as, the prevention, recognition, evaluation, treatment, and rehabilitation of athletic injuries and/or illnesses. Additionally, information regarding healthcare administration and the professional responsibility and ethics related to Sports Medicine will be discussed. Laboratory components involving wound care, anatomy, evaluation of common injuries/illnesses, special testing, supportive bandaging and taping techniques applicable to a variety of musculoskeletal injuries will be practiced and refined. Course fee covers material/supplies. This course may NOT be repeated for credit.

Peer Partners	**A-PHY 1205**	**½ Credit**		**Elective 10, 11, 12**
Life Skills				
Physical				
Education				

Requires consent of Physical Education Department Chair and Instructor.
This course is specially designed to meet the needs of students who need moderate-intensity physical activity to promote their general fitness and social skill development. The individualized or small group instructional format emphasizes change in student health habits through a variety of fun, supportive group activities. Use of individualized and team lifetime recreational games promotes improvement in the student's general muscle strength, muscle endurance, joint flexibility, and aerobic fitness. Emphasis is placed on social interaction, the ability of each student to become involved with his/her peers and adults, and preparing each student for his/her future physical education and community/vocational opportunities. This course may NOT be repeated for credit.

PE COURSE SUBSTITUTION POLICY FOR JUNIOR AND SENIORS ONLY

A student who participates in a WIAA sanctioned athletic activity may, upon application and approval, be permitted to complete a maximum of a single additional one-half credit (.5) towards graduation in English, social studies, mathematics or science in lieu of one-half credit (.5) of physical education. In order to be eligible for a credit substitution a STUDENT **must**:

- Have prior written approval from the principal or his/her designee
- Participate in a WIAA athletic activity for an entire season during grade 11 or the fall season of grade 12
- Be an athlete in good standing during the entire season including regular attendance at all practices and competitions
- Not have been suspended for any period during the season as a result of a violation of the athletic code
- Remain academically eligible during the entirety of the season
- Not have missed more than two weeks or 25% of the season, whichever is less, due to illness or injury
- Submit a written application for approval prior to enrolling in the substitute course

If a request to substitute credit for physical education is denied, a written appeal may be submitted to the Assistant Superintendent for Secondary Schools within 10 calendar days of the denial. The Assistant Superintendent shall issue a written decision within 5 business days. The Assistant Superintendent's decision is final.

READING

| **Reading to Achieve** | **A-RDG 1050** | **1 Credit** | **Elective 9, 10, 11, 12** |

This course is designed for students who are interested in developing their functional literacy skills. This course requires daily participation in activities that focus on reading, writing, speaking, and listening as applied to practical literacy tasks, such as decoding bank statements and invoices, comprehending apartment leases or contracts for service, communicating specific needs to employers and/or medical professionals, and writing cover letters and resumes.

| **Language!** | **RDG1160** | **1 Credit** | **Elective 9, 10, 11, 12** |

Language! is a reading intervention designed to rapidly accelerate reading achievement. It integrates five essential components of reading: phonemic awareness, phonics, fluency, vocabulary and comprehension. Language! is designed for multiple entry points based on the placement test results/student reading level.

| **Advanced Reading Techniques** | **RDG 1065** | **½ Credit** | **Elective 11, 12** |

Advanced Reading Techniques is an elective course designed to improve students' skills in speed reading and using effective vocabulary. Students will work to practice these skills throughout the semester through direct instruction, drilling, and independent novel reading. The course also shows students how to examine text frames (the patterns with which texts are written) in order to gain information efficiently and effectively. As a final cap to the course, students will examine effective study skills for college.

SCIENCE

Planning your science course sequence:
To help you plan your high school science courses, the following course descriptions are provided. The Memorial graduate should have a well-balanced science experience that includes elements from biological, earth/space, and physical sciences. If at any time you are not certain which pathway to follow, or which course to take, see your science teacher or the science department chair with your questions.

Requirements:
Students need three credits of Science to meet graduation requirements. A biology class is required. Students pursuing 2- or 4-year college degrees should take a minimum of 3 science credits. This coursework should include a broad background from biology, chemistry, earth science, and physics. Students interested in careers directly related to science, technology, or engineering should take at least one course from each of biology, chemistry, earth sciences, physics and as many elective courses in their area of concentration as possible.

Integrated Science	**SCI 6040**	**1 Credit**	**Required 9**

Integrated science is a foundational science course in which the major concepts and skills used in all other science courses are introduced. Students will explore the cross-cutting theme of energy transfer across science disciplines with emphasis on physics, earth science and chemistry concepts. In this laboratory-based class, students investigate the following essential questions: What observable relationships exist between matter and energy? What interactions exist between matter and energy at the atomic level? What interactions exist between energy and Earth? What interactions of energy occur between Earth and Space? Students will develop science skills throughout the course investigations by asking questions, modeling natural phenomena, planning and conducting investigations, analyzing data, and constructing and presenting evidence-based arguments.

Integrated Science Honors	**SCI 6050**	**1 Credit**	**Required 9**

Integrated Science Honors parallels the core curriculum with greater rigor in skills and content. A course that receives an honors designation has expectations for students that are measurably broader, deeper, and/or more complex in comparison to its standard course.

Biology	**SCI 1020**	**1 Credit**	**Elective 10, 11, 12**

Biology is a lab-oriented course for students to develop their skills and understandings of science as described by the Next Generation Science Standards. Students will develop their science skills by asking questions, modeling natural phenomena, planning and conducting investigations, analyzing data, and constructing and presenting evidence-based arguments through actively investigating the major themes of biology including: Ecology and Ecosystems, Evolution, Cells to Organisms, and the Process of Carbon Cycling.

Anatomy & Physiology	**SCI 1080**	**1 Credit**	**Elective 11, 12**

Successful completion of IS, a passing grade in Biology or AP Biology, and a Chemistry course is recommended.

Anatomy and Physiology is an intensive course that examines both the anatomy and physiology of the human body. Through lecture, virtual laboratory, and wet laboratory experiences, students will understand the structures that make up the human body and how these structures work. As an integral part of this study, students will also perform a few dissection activities. Major units covered include language of anatomy, cell structure, histology, integumentary, skeletal, muscular, nervous, and digestive systems, and an end of the year project if time permits. This is a course for students who seek a strong background in the biological sciences, who are self-motivated, and who are prepared to do daily study outside of the classroom.

AP Biology	**SCI 1090**	**1 Credit**	**Elective 11, 12**

Successful completion of General Chemistry or Chemistry strongly recommended and consultation with science teacher.

AP Biology is a college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes - energy and communication, genetics, information transfer, ecology, evolution, and interactions. The course prepares students for the Advanced Placement biology exam, possibly resulting in science credit at many colleges/universities. More information is available online from the College Board website.

General Physics	**SCI 2030**	**1 Credit**	**Elective 10, 11, 12**

Successful completion of Geometry recommended.

This first year algebra-based physics course is designed to generally cover the major topics in physics. In this course, physics is taught so as to build a conceptual understanding of how the Universe works. This conceptual understanding is reinforced using basic math skills as a way to develop, analyze, summarize and challenge this understanding. Content builds on topics introduced in ISP or an introductory physical science course and may include motion and mechanics, gravity and astrophysics, momentum and energy, electricity and magnetism, waves and sound, light and optics as well as relativity. This course teaches problem solving and data handling techniques. Students will have an appreciation for the laws and principles that describe how our physical universe works.

AP Physics I	**SCI 20010**	**1 Credit**	**Elective 11, 12**

Successful completion of ISP and Algebra 2 is recommended. 10th graders must have permission from Science Department Chair.

AP Physics I is algebra-based and is the equivalent of a first-semester college course in physics, taught over a full academic year to enable students to develop a deep understanding of the content and to focus on applying their knowledge through inquiry labs. The full year also allows time for inclusion of physics content specified by state standards. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It also introduces electric circuits. The material covered in this course prepares students to take the AP Physics I exam.

AP Physics II	**SCI 20020**	**1 Credit**	**Elective 12**

Successful completion of AP Physics I and Algebra 3 is recommended.

Physics II is the equivalent of a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics. Topics covered in this course prepare students for the AP Physics II exam.

Chemistry	**SCI 3030**	**1 Credit**	**Elective 10, 11, 12**

Chemistry is a lab-oriented course in which students will develop their critical thinking and problem-solving skills through the exploration of matter, energy, and chemical change. Frequently working together, students will make predictions, conduct investigations, and use models to explain observations and the surrounding world. Throughout the course, students will also focus on the analysis of data, both descriptive and mathematical. Completion of this course will prepare students for advanced science courses, including Advanced Placement (AP) Chemistry.

Chemistry Honors	**SCI 3040**	**1 Credit**	**Elective 10, 11, 12**

Chemistry Honors parallels the core chemistry curriculum with greater rigor in skills and content. A course that receives an honors designation has expectations for students that are measurably broader, deeper, and/or more complex in comparison to its standard course.

| **AP Chemistry** | **SCI 3060** | **1 Credit** | **Elective 11, 12** |

Consultation with your Science teacher **and** one year of chemistry or the equivalent with a grade of B recommended.

AP Chemistry is a one-year course which completes the study of basic concepts begun in Chemistry Honors (Chemistry), and which relies heavily on extended laboratory experiences. Successful completion of the objectives outlined in the course syllabus should ensure a passing score on the AP exam. More information is available at: https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-chemistry-course-overview.pdf

| **AP Environmental Science** | **SCI 4010** | **1 Credit** | **Elective 11, 12** |

Successful completion of a chemistry and biology class is recommended.

This course is designed for all students interested in learning about the environment. You will investigate how all aspects of science connect to build a better understanding of the environment. You design your own research projects and conduct a wide variety of lab investigations to study how environmental systems interact. You have opportunities to hear lectures from people involved in environmental science and to practice techniques used to study different environments. Your studies will include both global and local environmental concerns, sometimes exploring both sides of environmental issues. In addition, the course prepares you for the Advanced Placement Environmental Science exam, possibly resulting in college credit. https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-environmental-science-course-overview.pdf

| **Earth Science 1** | **SCI 4020** | **1 Credit** | **Elective 10, 11, 12** |

This course focuses on the processes that shape planet Earth and their interconnectivity, which forms the Earth System. Course subjects explored include geology, weathering and erosion, hydrology, seismology, volcanoes, plate tectonics, meteorology, maps, astronomy, oceanography, and glaciers. Students will experience and explore these scientific fields through a variety of pathways including textbook readings, videos, hands-on activities, classroom discussions, presentations and direct instruction. The goal for students enrolled in earth science is to increase their critical thinking skill level to aid them in understanding and appreciating how the natural processes on our planet are connected and role humans play directly and indirectly within the Earth System.

| **Earth Science 2** | **SCI 4030** | **1 Credit** | **Elective 11, 12** |

Successful completion of Earth Science will provide students taking this course with the knowledge needed for a more in-depth study of the forces that shape our planet. Students are required to complete a research project. The instructor will work closely with each student for the purpose of creating an activity that reinforces the student's project. The course syllabus will be dictated to some degree by the topics chosen by the students.

| **Astronomy** | **SCI 5020** | **1 Credit** | **Elective 11, 12** |

*Successful completion of Integrated Science **and** Geometry recommended.*

Throughout the course, students become familiar with nighttime sky during all seasons. Astronomy makes extensive use of the planetarium as a laboratory tool/experience through which students make observations and gain the ability to describe daily, monthly, annual, and longer term motions of the stars, sun, moon, and planets. During the first quarter of the year we will "go dark" almost daily.

Starting with this observational foundation, the course shifts focus to the early explanations of astronomical phenomena. Students work through the various models of the Cosmos proposed by the ancient Greeks, Ptolemy, Copernicus, Tycho, Kepler, Galileo, and Newton used to describe both the patterns seen in, and ultimately the cause of, the many astronomical observations. This is the primary focus of the 2nd and 3rd quarter of the year.

The course shifts focus again during the 4th quarter of the year to conclude with a look at Newtonian physics and modern astronomy, as time allows. Our intention is to learn to act like a modern astronomer through experiences processing astronomical images to reveal variations over time in characteristics such as brightness and location of objects, which can allow study of asteroids, pulsars, variable stars, supernovae, etc.

| **Aerospace Engineering (PLTW)** | **SCI 5040** | **1 Credit** | **$60 fee** | **Elective 11, 12** |

Physics and Algebra 2 or concurrent enrollment recommended.

Aerospace is a two-semester integrated, project-based science course with an emphasis on the application of concepts from biology, chemistry and physics as the controlling factors behind the processes and equipment in aviation and space exploration. Units of instruction include aviation history, aerodynamics, wind tunnel testing, aircraft stability and design, physiology of flight, aerospace materials science, space exploration, and autonomous vehicle design. Major projects include RC aircraft, glider, rocket and autonomous vehicle design, construction and testing. Most lessons are reinforced through the use of computer technology and software such as Excel, Flight Simulator, 3D modeling software Inventor, and AERY glider design software. Field trips during the year offer the opportunity to pilot single-engine aircraft under the guidance of certified flight instructors and to experience kit built aircraft manufacturing, the EAA museum, and aircraft restoration. Students are responsible for course supplies and materials through a course fee collected during fall registration. This course is part of the national recognized pre-collegiate engineering program called Project Lead the Way.

| **Forensic Science** | **SCI6030** | **1 Credit (Full year)** | **Elective 11, 12** |
| | **SCI6035** | **½ Credit (Semester only)** | **Elective 11, 12** |

Successful completion of IS and Biology is recommended

Students will gain a fundamental understanding of crime scene investigation by applying basic biology, chemistry and physics principles to solve crimes. Units covered will include: observation & logic skills; manner, mechanism, cause and time of death; fingerprinting, blood & blood spatter; forensic anthropology; hair and fiber evidence; analysis of pollen, spore and soil evidence; DNA typing; Drug Identification and Toxicology.

PLTW: **Principles of** **Biomedical** **Sciences (BSE)**	**SCI 7010**	**1 Credit**	**$20 fee**	**Elective 9, 10, 11, 12**

9th and 10th graders require approval of Department Chair to register.
Credit: This course offers dual-credit through several accredited universities & high school transcript. Students who earn university credit receive 3 transcripted college credits.

This course introduces the biomedical sciences through exciting "hands-on" projects and problems. Student work involves the study of human medicine, research processes and an introduction bio-informatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious disease.

PLTW: **Human Body** **Systems (HBS)**	**SCI 7020**	**1 Credit**	**$20 fee**	**Elective 10, 11, 12**

Prerequisite: Principles of Biomedical Sciences
Credit: This course offers dual-credit through several accredited universities & high school transcript. Students who earn university credit receive 3 transcripted college credits.

Students will examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structures and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operations. Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense, and protection.

PLTW: Medical **Interventions (MI)**	**SCI 7030**	**1 Credit**	**$20 fee**	**Elective 11, 12**

Prerequisite: Human Body Systems
Credit: This course offers dual-credit through several accredited universities & high school transcript. Students who earn university credit receive 3 transcripted college credits.

Students investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important roles scientific thinking and engineering design play in the development of interventions of the future.

PLTW: Biomed **Innovations (BI)**	**SCI 7040**	**1 Credit**	**$20 fee**	**Elective 12**

Prerequisite: Medical Interventions
Credit: This course offers dual-credit through several accredited universities & high school transcript. Students who earn university credit receive 3 transcripted college credits

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.

SOCIAL STUDIES

For graduation, the Board of Education requires three years of compulsory courses, one and a half years of which are U.S. History courses.

US History	SOC 1010	1 Credit	Required 9

U.S. History is a comprehensive course that provides students with a survey of the history of the United States, examining time periods from Reconstruction through the World War II era. Students will explore the nature of change, how power is gained and maintained, what influences policy, how race, class and gender shape the American experience and their individual role in society. Within each unit, students will build their historical thinking, reading, writing, speaking and listening skills.

US History Honors	SOC 1030	1 Credit	Required 9

U.S. History parallels the core curriculum with greater rigor. A course that receives an honors designation has expectations for students that are measurably broader, deeper, and/or more complex in comparison to its standard course.

US History in Spanish	SOC 6070	1 Credit	Required 9

The course emphasizes active and critical exploration of history covering the period from the Civil War through WWII. Analysis of primary sources will introduce students to the voices of people who make history. Through classroom discussion, experiential activities and individualized research, students explore patterns of change, the continuity of ideas and defining turning points in US History. Students use the central concepts of capitalism, democracy, equality and justice as a backdrop in their investigation of the following topics: the rise of industrialization, organized labor's response, the immigrant experience, the struggle for racial equality, and the emergence of the U.S. as a world power following the Great Depression and the two world wars. An additional focus of this course is to improve students' writing, reading and discussion skills in Spanish and in alignment with the Common Core State Standards. ***This course is conducted almost exclusively in Spanish and is designed for students enrolled in the district's Dual Language Immersion program. Other interested students should consult with a counselor prior to registering.***

World History Overview	SOC 2010	1 Credit	Elective 10, 11, 12

World History Overview is a one credit survey course covering the timeframe from the beginning of recorded history to the present day. Students will become aware of the rich heritage and contributions of the world and its interdependence. Students will explore the nature of change, how power is gained and maintained, what influences policy, how race, class, and gender shape the global experience and shape individual's role within society. Students are expected to participate in class discussions, complete homework and readings, write papers, complete projects, including DBQs, to develop their ability to read, write, research, and think like a historian. As students examine the changing political, social and economic institutions in Asia, Africa, Europe, Oceania, and the Americas over time, they will focus on the diversity, the history and the culture of the world's people. Students will examine the rise and fall of nations and empires as well as the diffusion of ideas, geographical forces of change, intellectual revolutions, and cultural traditions that shaped the modern world. Students will discuss international issues and explore solutions to world problems and become critical thinkers while developing inquiry and discussion skills.

AP World History	SOC 2040	1 Credit	Elective 10, 11, 12

Consultation with US History or US History Honors teacher recommended. It is also strongly recommended that the student and parent review the time commitment required by this course. This course has been created for students with exceptional reading and writing ability and the desire to study World History at a college level. You may substitute this course for World History Overview (SOC 2010) in 10th grade, or take it in 11th or 12th grade. You will develop a greater understanding of global processes and contacts, as well as of different types of human societies and their interactions. In addition, the readings and discussions will be college level in difficulty and will require sophisticated analysis and synthesis skills. The course will prepare you for the AP exam in World History. If you earn a passing grade on the AP exam of a 3, 4, 5, you may qualify for college credit. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html

Modern US History	**SOC 1045**	**½ Credit**	**Required 11**

Modern U.S. History is a thematic course that surveys the political, social, and economic history of the United States from the post-WWII era to the present day. Students will explore the following themes: the impact of competing ideologies in the post-WWII era, the politics of power and its effects on society, and the challenges in the transition from the Superpower era to a globalized world. Within each unit, students will build their historical thinking, reading, writing, speaking and listening skills. You will satisfy the history requirement with either Modern US History or AP US History.

AP US History	**SOC 1060**	**1 Credit**	**Elective 11, 12**

The AP U.S. History course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. All U.W. System campuses grant credit for a passing grade on the AP exam. You will satisfy the history requirement with either Modern US History or AP US History. More information is available at:
http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html

Religion, Culture and Democracy	**SOC 1025**	**½ Credit**	**Elective 10, 11, 12**

Students will explore several religious traditions and the cultures in which they are embedded, including Buddhism, Christianity, Hinduism, Humanism, Islam, Judaism and Sikhism. At the end of the course, students will also have an opportunity to investigate other religious traditions that are culturally relevant to them. Students will learn about the power and influence of religion throughout history and in modern times and will investigate these topics through the use of readings, lectures, videos/films and discussions. This course utilizes a method and materials adopted from the Religious Literacy Project at Harvard Divinity School. This framework is an academic, non-devotional approach to the study of religion, which was adopted by the National Council for the Social Studies C3 Standards in 2017. The NCSS, the Supreme Court and MMSD are in agreement that the academic, non-devotional study of religion should be an essential part of the social studies curriculum. Religious illiteracy fuels antagonisms, tension and prejudice. The primary goal of this course is to promote peace and justice in a multicultural and religiously diverse world.

Particular Topics in US Government	**SOC 1085**	**½ Credit**	**Elective 10, 11, 12**

Classes will explore all aspects of the Criminal Justice system – from the basics of crime, to police, courts, corrections, and beyond. Students will develop an understanding of their rights and roles in the system. We will be visited by speakers from various segments of the criminal justice system and travel on a few field trips to enhance our learning. Students will be evaluated on daily work, projects, and exams.

Ancient Civilizations	**SOC 2075**	**½ Credit**	**Elective 10, 11, 12**

This semester course is designed to help students gain a better understanding of ancient civilizations and how they have established important foundations for our world today. Units of study will include Early Modern Humans, The Study and Classification of Civilization, Mesopotamia, Ancient China, Indus Valley Civilization, Classical Greece, Rome Medieval Cultures, and Africa. This course focuses on the development of agricultural techniques, permanent settlements, new political systems, and recent archaeological findings. Geography is emphasized in each unit of study.

| **AP European History** | **SOC 2090** | **1 Credit** | **Elective 10, 11, 12** |

While this course is designed for students wanting to take the AP exam, all students interested in European history or western civilization are encouraged to select the course. European political movements, cultural, economic, and social history are emphasized in both semesters. Independent study is required. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html

> Semester 1: Rise of nation-state, Reformation, Renaissance, Enlightenment, and French Revolution
> Semester 2: Industrial Revolution to the present

This class is offered every other year. It will be offered during the 2021-22 and the 2023-24 school years.

Beginning with the class of 2021, students must complete ½ credit of financial literacy in order to graduate. This requirement is satisfied through several course offerings, including Economics and AP Microeconomics.

| **Economics** | **SOC 3015** | **½ Credit** | **Elective 11, 12** |

The purpose of this course is to provide each student with the necessary tools and skills to understand the operation of the American and global economies. Additionally, it will provide the students with the ability to apply their understanding to real life issues. We all play the role of consumer, worker, investor, taxpayer, and voter. This course will allow the students to make more informed and reasoned judgments about their role in our economy.

| **AP Microeconomics** | **SOC 3035** | **½ Credit** | **Elective 11, 12** |

The purpose of this course is to prepare students for the Advanced Placement exam in Microeconomics and create a more rigorous option for our economics course. In addition, this course is to provide each student with the necessary tools and skills to understand the operation of the American and global economies. Additionally, it will provide the students with the ability to apply their understanding to real life issues. We all play the role of consumer, worker, investor, taxpayer, and voter. This course will allow the students to make more informed and reasoned judgments about their role in our economy.

| **AP Macroeconomics** | **SOC 3025** | **½ Credit** | **Elective 11, 12** |

Successful completion of AP Microeconomics or Economics recommended. Topics covered include the measurement of economic performance, national income and price determination, monetary and fiscal policy, and international economics. This course is designed for anyone interested in pursuing careers in politics, economics, business, finance, or commerce. The course prepares you for the Advanced Placement exam in Macroeconomics. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html

| **Psychology** | **SOC 4025** | **½ Credit** | **Elective 10, 11, 12** |

The human mind and human behavior are explored in this survey course. Topics include biological bases for behavior, states of consciousness including dreaming and hypnosis, learning, development, personality, and mental disorders. You examine psychology in the world today and how it impacts people's behavior. Class activities include experiments, observations, discussions, and speakers.

| **AP Psychology** | **SOC 4050** | **1 Credit** | **Elective 11, 12** |

This course is for students wanting a more in depth view of psychology. Through the use of psychological methods, students will explore psychology in learning/intelligence theory, development, mental disorders, group behavior, the biological bases of behavior, sensation and perception, cognition, and memory. Through labs, lectures and presentations this class is structured to provide support and success on the AP Psychology exam. . All U.W. System campuses grant credit for a passing grade on the AP exam. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html

US Ethnic Studies	SOC 4075	½ Credit	Elective 9, 10, 11, 12

Ethnic Studies explores various ethnic groups in America including African Americans, Latinos, Native Americans, Arab Americans, and Jewish Americans, with a focus on the historical entry of these groups into the American fabric and their contemporary status. Students will also learn about the concepts of "race", "ethnicity", "stereotypes", "prejudice", and "discrimination". Content will include power point lectures, class discussions, research projects, reading assignments, and films.

US Gender Studies	SOC 4085	½ Credit	Elective 10, 11, 12

This course is an introduction to gender studies. Students will examine how gender is shaped by media, politics, consumer goods, and popular culture. Likewise, students will also examine the intersections with race, class and sexuality. This class welcomes diverse view points and encourages respectful discussion on a wide variety of issues.

Particular Topics in Sociology	SOC 4095	½ Credit	Elective 10, 11, 12

Sports have a major impact on our society. Through projects, readings, videos and discussions, students will explore the political and economic importance in our society and issues surrounding its growth such as, gender, race and medical issues.

US and World Affairs	SOC 5015	½ Credit	Elective 10, 11, 12

A study of global interrelationships. Topics covered may include geographic, political, economic, and social issues of a particular country or region, with an emphasis on how these issues influence (or are influenced by) the way in which the United States relates to other countries in an interdependent world context.

AP United States Govern't and Politics	SOC5040	1 Credit	Elective 11, 12

AP United States Government and Politics is an in-depth study of the structures of government and the processes of the American political system. Through readings, lectures, simulations, and discussions, we will thoroughly examine politics in our country. The following topics are covered in depth: Constitutional Underpinnings of United States Government; Political Beliefs and Behaviors; Political Parties, Interest Groups, and Mass Media; Institutions of Nat'l Government: Congress, Presidency, Bureaucracy, Courts; Public Policy: Economic, Military, Social, Political; and Civil Rights and Civil Liberties.

All U.W. System campuses grant credit for a passing grade on the AP exam. More information is available at: http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html

Social and Restorative Justice Studies	SOC 7025	½ Credit	Elective 10, 11, 12

This semester course provides students who are interested in social justice issues the opportunity to develop a better understanding of both the root causes of our social problems and what specific strategies bring about social change. Specific subjects explored in the course will be the history of poverty, racism, classism, and sexism in the U.S. and how these have impacted our criminal justice system. The course provides training in the tools and processes related to Restorative Justice, allowing students to build their own leadership skills and confidence in their power to advocate. Students engage in a Case Study and Action Plan in order to deepen a culture of service and activism in the school and become lifelong leaders for social and restorative justice.

Foundations Of Leadership	SOC 7035	½ Credit	Elective 10, 11, 12

Foundations of Leadership is designed to support and challenge students to examine their own identities and express their own leadership style and ability. This is an interdisciplinary class which draws on literature, history, social issues, current events, art, speech, etc. to explore the identities of leaders who are often left out of the mainstream curriculum specifically leaders of color, women, and GLBTQ+ people. This class affirms the identities, contributions and leadership styles of traditionally marginalized groups. We will analyze our society and how our students can be transformative agents of change through their exploration of leadership.

SPECIAL EDUCATION
(Replaced and Supplemental Course Offerings)

Introduction

The special education program at Memorial High School provides services for students who have been determined, through an Individual Educational Team assessment, to have special education needs. In addition to supporting many regular education courses, the special education staff has developed replacement and supplemental course offerings in order to provide the framework for meeting group and individual student needs.

Students should review all course options (regular and special education) and select courses which will best prepare them for post-high school goals. Students are encouraged to consult with parents, school counselors, case managers and teachers before making final decisions.

* Special Education may:
1.   **Replace** regular education courses. (Sets a different learning standard than is usually set at the high school level). Note: These courses do not meet DPI/MMSD graduation standards but will count towards graduation by IEP.

2.   **Supplement** courses taught by regular education. (Special education courses such as Guided Study, Study Skills, Career/Vocational Education, etc., supplement required and elective regular education courses). Note: These special education courses are identified as elective and are counted toward graduation elective requirements.

RECOMMENDATION BY CASE MANAGER REQUIRED PRIOR TO ENROLLMENT.

ENGLISH
All reading skills classes are listed under the Reading section of this course catalog.

Life Skills English	**A-ENG 1220**	**1 Credit**	**Elective 9, 10, 11, 12**

Students in this course further develop the four language processes of listening, reading, speaking and writing. Emphasis will be placed on solving communication problems encountered in daily living relating to work, personal business, social interaction and leisure time activities. Level of materials and instructional methods will be based on current level of functioning as stated in the student's IEP.

English 1&2	**A-ENG 1200**	**1 Credit**	**Elective 9, 10**

This course is designed for students who have basic reading skills but need to improve reading strategies and basic language arts skills including written expression, spelling, speaking and vocabulary. Writing complete sentences and developing paragraphs, essays and writing narratives are covered. This course also includes the analysis and comprehension of novels, short stories, plays and reading, comprehension of nonfiction. Included in this course will be a unit on career exploration.

English 3&4	**A-ENG 1210**	**1 Credit**	**Elective 11, 12**

This course is designed for the development of more advanced reading and writing skills. These skills include vocabulary improvement, application of literary terms and higher-level comprehension skills. This course also includes the development of writing skills through the expository essay, poetry, short story writing, a research paper and practice in mechanics. This course requires participation in the areas of listening, speaking and viewing. Functional and vocational skills will be taught with the development of a resume, filling out forms, writing a business letter and completing a research paper on a career of interest. In addition, there may be opportunity for service learning projects.

HEALTH/PHYSICAL EDUCATION

Peer Partners Life Skills Physical Education   **A-PHY 1205**   **½ Credit**   **Elective 9, 10, 11, 12**

Prerequisite: Consent of Special Education Department Chair
This course is specially designed to meet the needs of students who need moderate-intensity physical activity to promote their general fitness and social skill development and/or have Specialized Physical Education (SPE) as a service in their IEPs. The individualized or small group instructional format emphasizes change in student health habits through a variety of fun, supportive group activities. Use of individualized and team lifetime recreational games promotes improvement in students' general muscle strength, muscle endurance, joint flexibility, and aerobic fitness. Emphasis is placed on social interaction, the ability of students to become involved with peers and adults, and preparing students for their future physical education and community/vocational opportunities.

Life Skills Health   **A-PHY 1220**   **1 Credit**   **Elective 9, 10, 11, 12**

This course will provide students with information on the importance of good health by studying the basic body systems, exercise and nutrition, first aid, AODA issues, adolescent physical, psychological and emotional development, plus other issues related to teens. Students may participate in physical activities such as swimming, weight training, basketball, aerobic walking and/or other activities designed to meet the students' individual educational needs.

This course is offered every other year. It will be offered during the 2020-21 and 2022-23 school years.

MATH

Life Skills Math   **A-MAT 1200**   **1 Credit**   **Elective 9, 10, 11, 12**

The course focuses on the development and application of functional math skills. Topics include addition, subtraction, telling time, introduction to decimals, money values and measurement. Student work is individualized according to IEP-identified skills.

Math 1   **A-MAT 1220**   **1 Credit**   **Elective 9, 10, 11, 12**

This course is for students who have not mastered computational skills of whole numbers and fractions. Students who take this course need continued practice and practical application of specific skills identified in their IEPs. The course is individualized and self-paced. Students investigate and master these skills with classroom presentations, workbook practice, online components, group projects and continual assessment. Projects are directed toward practice in the "real world" application of math skills.

Math 2   **A-MAT 1230**   **1 Credit**   **Elective 9, 10, 11, 12**

This course is for students who have not mastered basic computational skills of decimals, percents, and fractions. Students who take this course need continued practice and practical application of specific skills identified in their IEPs. Students investigate and master skills with classroom presentations, workbook practice, online components, group projects and continual assessments. Students will be placed in the course based on assessment.

Math 3   **A-MAT 1240**   **1 Credit**   **Elective 9, 10, 11, 12**

This course is for students who have not mastered simple algebraic expressions, inequalities, slope, estimation and functions. Students who take this course need continued practice and practical application of specific skills identified in their IEPs. Students investigate and master skills with classroom presentations, workbook practice, online components, group projects and continual assessments. Students will be placed in the course based on assessment.

SOCIAL STUDIES

US History   **A-SOC 1010**   **1 Credit**   **Elective 9, 10**

This is a rotating class offered every other year opposite World History. This course will next be taught in 2020-21. The course parallels the regular education course in curriculum. Students learn the history of our country from Reconstruction to the Early Cold War. The years studied are roughly from the 1870's through to around 1955, topics included are: Reconstruction, Immigration, Industrialization and Urbanization, Progressivism, Imperialism, WWI, the 1920's, The Great Depression, WWII, and the early part of the Cold War. Positive class participation will be stressed along with improving critical thinking skills.

Modern U.S. History   **A-SOC 1040**   **1 Credit**   **Elective 11,12**

This is a rotating class offered every other year opposite Civics. This course will next be taught in 2021-22. This course examines Hollywood feature films, critically acclaimed mini-series, and historical dramas as historical evidence. Students view films on various topics throughout American history in chronological order and participate in discussions, debates, and write essays comparing film evidence to information in more traditional sources, such as articles, film reviews and critical commentaries. The main goal of the course is to allow students to develop an understanding of events and issues America has been involved with since the start of colonization through the drone and computer age.

World History   **A-SOC 2010**   **1 Credit**   **Elective 9, 10**

This is a rotating class offered every other year opposite US History. This course will next be taught in 2021-22. The course parallels the regular education course in curriculum. This course will take a broad, chronological view of world history from the emergence of early humans to the present. Course units include geography, early civilizations, world religions, revolutions, industrialization, global conflicts, and current events. Positive class participation will be stressed along with improving critical thinking skills.

Civics   **A-SOC 4200**   **1 Credit**   **Elective 11,12**

This is a rotating class offered every other year opposite Modern U.S. History. This course will next be taught in 2020-21. During semester 1, this course covers the history of American government, the Declaration of Independence, the Bill of Rights, responsibilities of citizens, and the U.S. citizenship test. In semester 2, the course focuses on the powers of the federal branches, state and local governments, elections, court systems (adult and juvenile), and Supreme Court cases. Throughout the school year current events are discussed in relationship to class topics.

Self Determination   **A-GEN 2340**   **1 Credit**   **Elective 9, 10, 11, 12**

Consent of Special Education Department Chair required.
This course focuses on improving social-emotional and self-advocacy skills. Topics can include: interpersonal communication, personal control, decision-making, self-esteem enhancement, decreasing emotional distress, and stress management. Course is designed to be specific to students' IEP-related needs.

Personal Growth and Development   **A-GEN 2330**   **1 Credit**   **Elective 9, 10, 11, 12**

Consent of Special Education Department Chair required.
This course focuses on facilitating school success by exploring constructive ways of interacting with staff and peers and self-identifying strategies needed to gain and maintain social-emotional regulation. Course is designed to be specific to students' IEP-related needs.

DIRECTED STUDY

Guided Study   **A-GEN4230**   **1 Credit**   **Elective 9, 10, 11, 12**

Guided Study provides academic assistance and learning strategies to students with IEPs. Services include such things as reading tests and assignments, note taking and organizational strategies and proofreading. CD players, spell checkers, computer software, scanner, enlarged keyboards, textbooks and supplies are available for students.

Study Skills 1   **A-GEN4210**   **1 Credit**   **Elective 9**

Study Skills 1 provides IEP-identified supports for students enrolled in English 1. Students are given strategies to improve note taking, reading comprehension, assignment preparation, writing skills and test taking. Time is also allotted to the explicit instruction of reading and writing skills. Materials/ activities from the core courses are reviewed and adapted to meet the needs of individual students.

Study Skills 2   **A-GEN4220**   **1 Credit**   **Elective 10**

Study Skills 2 provides IEP-identified supports for students enrolled in English 2. Students are given strategies to improve note taking, reading comprehension, assignment preparation, writing skills and test taking. Time is also allotted to the explicit instruction of reading and writing skills. Materials/ activities from the core courses are reviewed and adapted to meet the needs of individual students.

VOCATIONAL

Introductory Vocational Skills   **A-GEN 3200**   **1 Credit**   **Elective 10, 11, 12**

This course is designed for students who are interested in completing on hands-on jobs and vocational activities within the school environment. Students will experience a variety of jobs. These experiences will serve as the beginning of a functional vocational assessment. Teachers help students identify vocational interests, work-related strengths and weaknesses, and the level of vocational services needed.

Community Vocational Experience   **A-GEN 3290**   **1 Credit**   **Elective 9, 10, 11, 12**

Community Vocational Experience is designed to give students the opportunity to gain on-the-job work training and/or exploratory **experiences** (short term work experiences, job shadowing, etc.) **in non-paid work environments** in the community during the school day. Experiences are structured to meet the student's individual educational needs. These experiences will also serve as part of a functional vocational assessment for students. Information gathered will assist in identifying vocational interests, work related strengths and weaknesses and needed transition services.

Post-Grad Supported Employment Skills   **A-GEN 3250**   **1 Credit**   **Elective 12**

Post-Grad Supported Employment Skills is designed for students who will be at least eighteen years old during the 2020-2021 school year, qualify for Dane County Supported employment Services, and require school staff support to find and maintain a job. Training will directly relate to the job site and employer expectations. Students will learn how to find a job, maintain a job, advocate for their needs, and coordinate their daily schedules around the job.

Competitive   **A-GEN 3240**   **1 Credit**   **Elective 10, 11, 12**
Employment
Transitions Skills

This course is designed for students who will be entering limited term or unsupported competitive employment. The skills taught in this class will be valuable to those students who plan to go directly to work after high school, as well as for students who plan to continue in post-secondary education. The goal is to give the students employability skills they can use immediately and in the future. Course curriculum will focus on job seeking skills such as completing applications, resumes, letters of application and employer contacts, as well as job advancement skills. Career awareness and identification of interest and abilities will also be emphasized.

Cooperative   **A-GEN 3270**   **1 Credit**   **Elective 11, 12**
Work Experience

Cooperative Work Experience is an opportunity for students to earn a credit for successful part-time employment. Its goal is to develop employability skills and give students a chance to explore job opportunities in a supportive setting. Students typically work an average of ten hours per week and meet periodically with a work experience teacher, submit time sheets/ hours log, and obtain successful work evaluations. This experience will also serve as part of a functional vocational assessment for students as it assists in identifying vocational interests, work-related strengths and weaknesses, and needed transition services.

FINE ARTS

Peer Partner   **A-ART 1025**   **½ Credit**   **$20 fee**   **Elective 9, 10, 11, 12**
Art Experiences

Students will participate in various artistic activities, projects, field trips, and art events. Students will be able to work in a broad range of art materials. The projects will use numerous disciplines including drawing, painting, digital art, ceramics, and photography. Emphasis will be placed on social interaction, and the ability of each student to become involved with his/her peers. For most projects, students will work together in pairs or small groups combining students with and without disabilities.
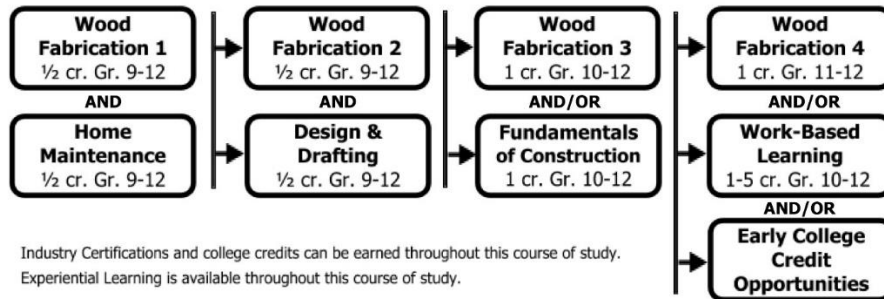
Music   **MUS 4065**   **½ Credit**   **Elective**   **9, 10, 11, 12**
Appreciation
(Peer Partners) This elective is open to regular education and special education students, and is ideal for students involved in Peer Partners or those who are interested in pursuing music therapy. The course involves the study of basic music theory and an overview of music history from the Middle Ages to the present. All styles, including ethnic and popular music, are explored. Classroom activities involve extensive listening and learning about instruments and ensembles.

TECHNOLOGY AND ENGINEERING

You are encouraged to elect courses from this department to better prepare yourself for life in our high-tech world. Technology and Engineering at Memorial emphasizes design, manufacturing, and transportation. You frequently work with equipment and materials in a lab environment. Appropriate safety rules are followed.

Construction Course of Study

Industry Certifications and college credits can be earned throughout this course of study.
Experiential Learning is available throughout this course of study.

This course of study map represents a suggested sequence of courses leading to capstone, work-based learning, and post-secondary experiences which will assist students in being as successful as possible after leaving high school. Although each student will personalize their experiences, the earlier a student begins this sequence, the more opportunities students will have to fully explore the educational and community options available. These sequences should be coupled with appropriate core courses as well as life-skills and courses in a student's area of interest.

| **Wood Fabrication 1** | **TEC 3015** | **½ Credit** | **$20 fee** | **Elective 9, 10, 11, 12** |

This foundational course puts students in the driver's seat of their manufacturing and/or construction pathway. Applying safety, measurement, hand and power tools, students will produce a variety of projects using wood. From material preparation to the final product, students will use basic production processes, working drawings and a plan of procedure to complete skill developing projects.

| **Wood Fabrication 2** | **TEC 3045** | **½ Credit** | **$30 fee** | **Elective 9, 10, 11, 12** |

Successful students will have completed Wood Fabrication 1.
This course is a continuation of the Wood Fabrication sequence using modern materials and processes. Students will learn advanced skills related to cabinet and furniture making, the use of panel products and jigs and fixtures. Students will explore career opportunities in wood product manufacturing.

| **Wood Fabrication 3** | **TEC 3050** | **1 Credit** | **$40 fee** | **Elective 10, 11, 12** |

Successful students will have completed Wood Fabrication 2.
Wood Technology 3 gives students the opportunity to expand their knowledge of Wood Product Manufacturing. Based on their previous experience in this pathway students will work in teams to analyze problems and find solutions. Creativity, collaboration, time management, and teamwork skills are a must as products are developed from design, costing, to assembly and quality control.

| **Wood Fabrication 4** | **TEC3060** | **1 Credit** | **$40 fee** | **Elective 11, 12** |

Successful students will have completed Wood Fabrication 3.
This capstone course is based on student mastery of manufacturing processes, utilizing the design process. Students will build projects, create and document the complete design and manufacture process from idea to completion. (Dual/transcripted credit is offered by Madison College with transfer possibilities to other colleges and universities.)
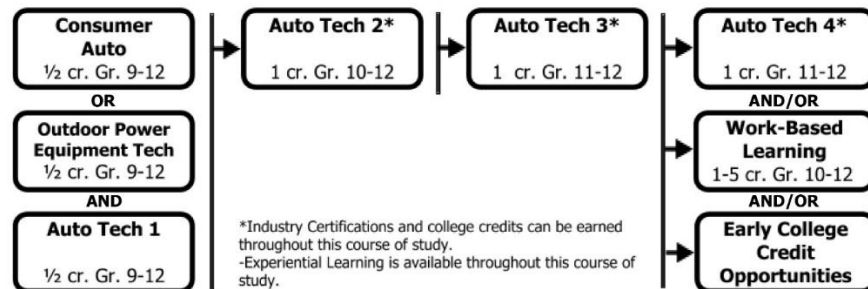
| **Home Maintenance & Improvement** | **TEC 3025** | **½ Credit** | **$30 fee** | **Elective 9, 10, 11, 12** |

This course covers the fundamental systems that comprise a residential dwelling including electrical, plumbing, framing etc. Students will learn practical maintenance and home improvement skills that apply to both future homeowners and those interested in the skilled trades.

| **Fundamentals of Construction** | **TEC 3030** | **1 Credit** | **$30 fee** | **Elective 10, 11, 12** |

In this hands-on focused light construction course, students will prepare for a career in the skilled trades. Through actual planning and building, this class will design and construct a small structure. Topics covered include: job site safety, drafting, construction codes, and fundamentals.

Transportation/Auto Course of Study

This course of study map represents a suggested sequence of courses leading to capstone, work-based learning, and post-secondary experiences which will assist students in being as successful as possible after leaving high school. Although each student will personalize their experiences, the earlier a student begins this sequence, the more opportunities students will have to fully explore the educational and community options available. These sequences should be coupled with appropriate core courses as well as life-skills and courses in a student's area of interest.

| **Consumer Auto** | **TEC 2015** | **½ Credit** | **$20 fee** | **Elective 9, 10, 11, 12** |

This course is designed for the students who would like to own and maintain a personal vehicle. This course covers basic car care, under hood inspection (fluids, belts, hoses), removing & replacing items (wiper blades, bulbs, fuses), cooling system maintenance, battery/charging system diagnosis, lubrication system maintenance, tire information, brake inspection, minor ignition system maintenance (spark plug, wires, firing order), car buying, car insurance, and service information for this course.

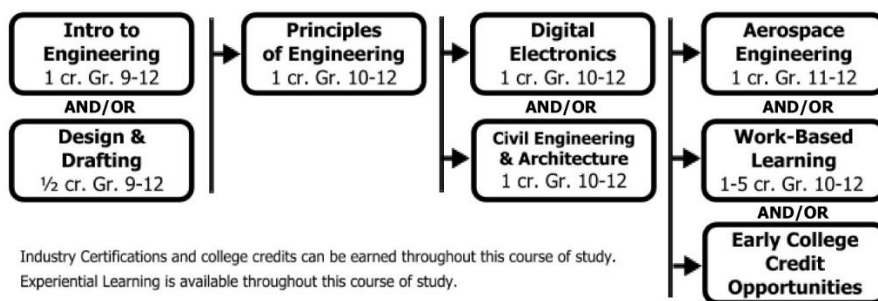| **Outdoor Power Equipment Technology** | **TEC 2025** | **½ Credit** | **$20 fee** | **Elective 9,10,11,12** |

Students in class will study the theory and operation of two-and four-stroke engines. They will gain hands-on experience by disassembling, analyzing, and reassembling small engines. Students will be encouraged to bring in projects needing repair from home. This course integrates and reinforces basic science and mathematical concepts while providing hands-on experience for students.

| **Auto Technology 1** | **TEC 2035** | **½ Credit** | **$20 fee** | **Elective 9,10,11,12** |

Successful students will have completed Consumer Auto or Outdoor Power Equipment.
Automotive Technology 1 is an introduction to basic engine construction and operation. Students will study engine components operation, testing procedures, and engine trouble diagnosis. Students will complete activities to study the following automotive engine systems: cooling, lubrication, fuel, electrical, and ignition systems. Units of study include: basic car care, basic cooling system, and batteries/starting/charging systems.

Auto Technology 2	**TEC 2040**	**1 Credit**	**$20 fee**	**Elective 10, 11, 12**

Successful students will have completed Auto Tech 1 with a "C" or better.
This course is designed for more in depth study of the automotive profession. It offers an introduction to automotive competencies in all eight of the ASE automotive certification categories. This course is designed for those students interested in entering the automotive profession or gaining a solid foundation in the automotive field.

Auto Technology 3	**TEC 2050**	**1 Credit**	**$20 fee**	**Elective 11, 12**

Successful students will have completed Auto Tech 2 with a "C" or better.
This course is designed for further study of the automotive profession. It offers further practice with automotive competencies in electrical/electronic systems, brake systems, suspension and steering systems, and engine performance systems.

Auto Technology 4	**TEC 2060**	**1 Credit**	**$20 fee**	**Elective 11, 12**

Successful students will have completed Auto Tech 3 with a "C" or better.
This course is designed for further study of the eight ASE certification areas and an opportunity for advanced students to learn more about emission diagnosis and spend more time working on projects in all of the eight ASE certification areas. This class should lead to students receiving ASE student certification in most of the certification areas as well as mobile A/C recovery and recycling certification.

Auto Youth Apprenticeship Program		**1 Credit**	**Elective 11, 12**

Recommended: On track for high school graduation, Automotive Technology 1
College credit is available. See your counselor for more information.
Automotive Youth Apprenticeship (YA) is a rigorous statewide elective program for high school juniors and seniors that combine academic and technical classroom instruction with mentored on-the-job learning. It's an opportunity for students to experience a career while still in high school. Madison students have the option of attending Memorial or La Follette High School or participating in McFarland High School on Wednesday evening from 6:00-9:00 pm. Students who continue the program for a second year, will continue taking courses at Madison Area Technical College. The second year courses run Monday and Wednesday evening from 6:00-9:00 pm, and courses are taught by technical college staff.
Please see your counselor and your automotive teacher if you are interested in this program. Student is responsible for obligations.

Engineering (Project Lead the Way) Course of Study

Industry Certifications and college credits can be earned throughout this course of study.
Experiential Learning is available throughout this course of study.

This course of study map represents a suggested sequence of courses leading to capstone, work-based learning, and post-secondary experiences which will assist students in being as successful as possible after leaving high school. Although each student will personalize their experiences, the earlier a student begins this sequence, the more opportunities students will have to fully explore the educational and community options available. These sequences should be coupled with appropriate core courses as well as life-skills and courses in a student's area of interest.

Design & Drafting	**TEC 4015**	**½ Credit**	**$30 fee**	**Elective 9,10,11,12**

This introduction to design and drafting covers the basics of creating a technical drawing, using both sketching and computer-aided drafting systems. Students will become familiar with the basic commands and functions of the software while they solve problems and design solutions both on paper and 3-Dimensionally on the computer. Students will learn the basics of architecture design and techniques also.   Students will learn major house and building styles by mimicking these styles while designing buildings.

Introduction to Engineering (PLTW)	**TEC 1010**	**1 Credit**	**$30 fee**	**Elective 9, 10, 11, 12**

This course introduces students to the design process and the tools used in product development. Students will experience first-hand the activities in which engineers engage throughout the design cycle. Development of design briefs, sketching, 3D solid modeling, and prototyping through computer-aided drafting are part of the course. Students will have the opportunity to learn ways in which design techniques apply to many fields, such as healthcare, business, art and animation, manufacturing, engineering, etc. Problem-solving and math as it applies to producing products and services for today's society are emphasized.   (Dual/transcripted credit is offered.)

Principles of Engineering (PLTW)	**TEC 1020**	**1 Credit**	**$30 fee**	**Elective 10, 11, 12**

Students will experience engineering and design technology and use various technological systems and manufacturing processes that demonstrate ways in which engineers and technicians use math, science and technology to benefit people. This course will be a mix of hands-on and academic activities including computer aided design projects, research activities, case studies, team product development, and discussions on the social and political consequences of technological change. (Dual/transcripted credit is offered.) This class is offered every other year. It will be offered during the 2021-22 and 2023-24 school years

Civil Engineering & Architecture (PLTW)	**TEC 1040**	**1 Credit**	**$30 fee**	**Elective 10, 11, 12**

In this class you will learn about Civil Engineering and Architecture, using the design process to solve real world problems and apply your creative skills to hands-on-projects. You will use state -of-the-art software to design residential and commercial buildings. This course covers topics such as the roles of civil engineers and architects, project planning, building design, project documentation and presentation, and interior design.   (Dual/transcripted credit is offered.) This class is offered every other year. It will be offered during the 2020-21 and 2022-23 school years.

THEATRE

Theatre Arts I   **THR 7015**   **½ Credit**   **Elective 9, 10, 11, 12**

Theatre I offers an introduction to the various Theatre Arts with a focus on performance. Students use an experiential learning model to explore Improvisation, the process of working in groups, Oral Interpretation of Literature, Pantomime, Acting, and learning techniques for more theatre work. The culminating assessments for the various units are performance projects which allow the student a great deal of choice, flexibility, and autonomy. In addition, theater experiences, such as, the viewing of a professional theatre performance and/or participating in crew for a class performance are also included in this course.

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WORLD LANGUAGES

In addition to providing the opportunity to learn basic study skills and the structure of language and grammar, world language study offers insight into the history and culture of other countries and increases opportunities for employment.

Most colleges recommend, and some require, high school language study for admission. A world language is required for the completion of many college majors. The U.W. Madison and many other colleges grant college graduation credit for high-school world language study.

Chinese 1	**FOR 5010**	**1 Credit**	**Elective 9, 10, 11, 12**

In Chinese 1, students will learn how to communicate in Mandarin Chinese through simple conversation and develop skills in listening, speaking, reading and writing in the language. Students use mainly simplified characters and pinyin, although they are exposed to traditional characters. They will explore the language and culture of the Chinese-speaking world, including poetry, calligraphy/painting, ancient legends and current pop culture. Through hearing and speaking mostly Chinese in class, students will develop the ability to communicate with ease in Chinese at a basic level around familiar topics like self and family, school, preferences, and everyday customs.

Chinese 2	**FOR 5020**	**1 Credit**	**Elective 9, 10, 11, 12**

Successful completion of Chinese I or teacher's signature recommended.
This course is a continuation of Chinese I. Emphasis is on the spoken language, but reading recognition of characters (both simplified and traditional), as well as the ability to write characters are cultivated. Cultural aspects of China are explored through short units on history, classical poetry, and philosophy. You correspond with pen pals, exchanging information on their interests, talents, lives inside and outside of school, fashions, endangered animals, ethnic groups, and more.

Chinese 3	**FOR 5030**	**1 Credit**	**Elective 9, 10, 11, 12**

Successful completion of Chinese 2 or teacher's signature recommended.
You study topics such as traveling to China, environmental and economic issues, selected periods of history, careers open to speakers of Chinese, traditional and modern culture, and the ethnic and geographic diversity of China. Readings from text books and authentic texts such as internet, children's books, etc. are in both traditional and simplified characters. Projects include communicating with students in China through blogs or letters, doing presentations to community members, and writing/creating projects to be shared with youth in China.

AP Chinese Language & Culture	**FOR 5050**	**1 Credit**	**Elective 9, 10, 11, 12**

Successful completion of Chinese 3 or teacher's signature recommended.
Chinese 4 is a continuation of Chinese 3 and also preparation for taking the AP Chinese exam. Many topics are shared with the previous year, but you work at a higher level. Activities may include writing and performing shadow puppet plays, researching crane species of China, studying the impact of rapid modernization and economic development, traditional art forms, Chinese history, and the ethnic and geographic diversity of China.

Projects include communicating with students in China through blogs or letters, reading internet, newspaper articles, children's literature, and historical tales, doing presentations to community members, and writing/creating projects to be shared with youth in China. More information is available at: https://apcentral.collegeboard.org/pdf/ap-chinese-course-description.pdf

French 1	**FOR 1010**	**1 Credit**	**Elective 9, 10, 11, 12**

In French 1, students will learn how to communicate in French through simple conversation and develop skills in listening, speaking, reading and writing in the language. They will explore the language and culture of the French-speaking world. Through hearing and speaking mostly French in class, students will develop the ability to communicate with ease in French at a basic level around familiar topics like self and family, school, preferences, and everyday customs.

| **French 2** | **FOR 1020** | **1 Credit** | **Elective 9, 10, 11, 12** |

Successful completion of French 1 or two years of middle school French and consultation with your previous teacher recommended.

You will build on the skills and knowledge from French 1 with the goal of speaking only French. You will increase your vocabulary and learn to express yourself in the present, future and past both orally and in writing. You will learn more about francophone countries and cultures.

| **French 3** | **FOR 1030** | **1 Credit** | **Elective 9, 10, 11, 12** |

Successful completion of French 2 or consultation with your teacher recommended.
You will build on the skills and knowledge from French 1 and 2 with the goal of speaking only French in class. You will subsequently increase your vocabulary and further develop your ability to use present, past, future and subjunctive to understand, read, speak and write in French at the intermediate level. You will learn more about France and francophone cultures.

| **French 4** | **FOR 1040** | **1 Credit** | **Elective 9, 10, 11, 12** |

Successful completion of French 3 or consultation with your teacher recommended.
You will build on the skills and knowledge from French 1, 2 and 3 in this advanced-level course. You will increase your vocabulary and further develop your ability to understand and communicate only in French, engaging in more speaking and reading activities to build your proficiency to a higher intermediate level. You will learn more about Quebec's history and culture and you will expand your knowledge of France and French culture via current events, literature and film.

| **AP French Language** | **FOR 1060** | **1 Credit** | **Elective 9, 10, 11, 12** |

Successful completion of French 1, 2, 3, and 4, or consultation with your world language teacher recommended for this college-level course.
You will increase your vocabulary and further develop your ability to understand and communicate in French, engaging in much more reading and many speaking activities to build your proficiency to an advanced-level. You will learn more about the people and cultures of the French-speaking world.
This class will prepare you for the French Language AP exam. More information is available at: https://apcentral.collegeboard.org/pdf/ap-french-course-and-exam-description.pdf

| **German 1** | **FOR 3010** | **1 Credit** | **Elective 9, 10, 11, 12** |

German 1 is an introduction to the language and culture of the German speaking countries. Students develop a basic vocabulary primarily through listening and speaking skills with a secondary emphasis on reading. Emphasis is placed on listening to spoken German and learning to speak with simple terms. Emphasis will also be placed on motivating students to see value in the continuing language/culture learning process. German grammar, some reading, and a small amount of writing will be taught toward the goal of establishing beginning level proficiency in the language. A variety of additional resources and activities, are used to emphasize the listening and speaking approach to language learning and proficiency.

| **German 2** | **FOR 3020** | **1 Credit** | **Elective 9, 10, 11, 12** |

Successful completion of German 1 or consultation with your teacher recommended.
You will review and expand your skills and knowledge from German 1. You will increase your vocabulary and learn a variety of new tenses and grammatical structures in order to further develop your ability to communicate in German both oral and written. You will study the geography and cultures of German-speaking countries in more detail

| **German 3** | **FOR 3030** | **1 Credit** | **Elective 9, 10, 11, 12** |

Successful completion of German 2 or consultation with your teacher recommended.
You will build on the skills and knowledge from German 1 and 2, speaking only German in class. You will substantially increase your vocabulary and further develop your ability to use tenses and grammatical structures developed previously, to read, speak and write German at an intermediate level. You will learn more about the people and cultures of the German-speaking world specifically about the current culture and events, the history and importance of certain places in Germany.

| **German 4** | **FOR 3040** | **1 Credit** | **Elective 9, 10, 11, 12** |

Successful completion of German 3 or consultation with your teacher recommended.
You will build on the skills and knowledge from German 3, speaking only German in class. You will continue to add vocabulary and practice the use of grammatical structures to increase your fluency in communicating in German. You will learn and practice more complex grammatical and linguistic structures. You will study samples of important German literature. You will learn about and discuss events affecting the German speaking world in more detail to gain a better understanding of the interrelation of culture, language, history and current life events.

| **Spanish 1** | **FOR 2010** | **1 Credit** | **Elective 9, 10, 11, 12** |

Spanish 1 is an introductory class where students will develop skills in reading, writing, speaking, listening and understanding in the target language. Students will explore the cultures and language of the Spanish-speaking world in connection to familiar topics like self and family, school, preferences, and everyday customs and practices. Emphasis will be given to the speaking communication mode through the use of a variety of instructional resources and materials. At the end of this course students will be able to handle short everyday social interactions, understand the main idea of a message, and communicate with ease on basic topics.

| **Spanish 2** | **FOR 2030** | **1 Credit** | **Elective 9, 10, 11, 12** |

Spanish 2 is a course that uses the ACTFL World Readiness for Language Learning Standards and the Common Core State Standards. Students will expand their ability to communicate in Spanish through simple conversation and continue to develop skills in listening, speaking, reading and writing in the language. They will further explore the language and culture of the Spanish-speaking world through use of authentic and created materials. Through speaking and listening to mostly Spanish in class, students will expand their abilities to communicate with ease in Spanish at a basic level around more themes like self and others, daily life in the community, home and family, and local and global community.

| **Spanish 3** | **FOR 2040** | **1 Credit** | **Elective 9, 10, 11, 12** |

Successful completion of Spanish 2 recommended, or consultation with your teacher.
You will build on the skills and knowledge from Spanish 1 and 2, speaking only Spanish in this class. You will substantially increase your vocabulary and further develop your ability to use all tenses and the subjunctive to understand, read, speak and write Spanish to an intermediate level. You will learn more about the people and cultures of the Spanish-speaking world.

| **Spanish 4** | **FOR 2050** | **1 Credit** | **Elective 9, 10, 11, 12** |

Successful completion of Spanish 3 recommended, or consultation with your teacher.

You will build on the skills and knowledge from Spanish 1, 2 and 3 in this advanced-level course. You will increase your vocabulary and further develop your ability to communicate in Spanish, engaging in many more speaking and reading activities to build your proficiency to a higher intermediate level. You will learn more about the people and cultures of the Spanish-speaking world.

| **AP Spanish Language** | **FOR 2070** | **1 Credit** | **Elective 9, 10, 11, 12** |

Successful completion of Spanish 4 recommended, or consultation with your teacher.

You will build on the skills and knowledge from Spanish 1, 2, 3, and 4 in this college-level course. You will increase your vocabulary and further develop your ability to communicate in Spanish, engaging in much more reading and many speaking activities to build your proficiency to an advanced level. You will learn more about the people and cultures of the Spanish-speaking world. This class will prepare you for the Spanish Language AP exam. More information is available at: https://apcentral.collegeboard.org/pdf/ap-spanish-language-and-culture-course-and-exam-description.pdf

| **Spanish Literature and Language Arts** | **FOR 8050** | **1 Credit** | **Elective 9** |

This course, in alignment with the Common Core State Standards, emphasizes reading, understanding, and reacting in writing to literature written in Spanish. In this course students will build upon prior knowledge of grammar, vocabulary, word use and the mechanics of writing. They will develop and apply this learning through the four skill domains of reading, writing, listening and speaking through linguistically and culturally authentic tasks. In this course, students will be introduced to literary genres through texts written in Spanish for a Spanish speaking audience from a range of historical eras and geographical contexts This course is conducted almost exclusively in Spanish. *This course is designed for students enrolled in the district's Dual Language Immersion programs. Other interested students should consult with a counselor prior to registering for this course.*