



**ACADEMIES**  
OF SHAKOPEE

## 2023-24 SHAKOPEE HIGH SCHOOL REGISTRATION GUIDE







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**Superintendent:** Dr. Mike Redmond  
**Building Principal:** Jeff Pawlicki  
**Academy Principal:** Sarah Jordan  
**Academy Principal:** Stephanie Wheelock  
**Academy Principal:** Stuart Lang

January 2023

Dear SHS Students and Parents:

This course registration guide is an important tool as you plan for the 2023 - 24 school year and beyond. In it you will find valuable information as we prepare for another school year. Please take the time to review the information provided in this guide and know that we have multiple resources including counselors, teachers, and administrators available to answer your questions.

As we progress in the academy model, it is important to remember that our focus is on college and career readiness no matter what academy a student chooses. Our model allows students to explore **many** areas while having the opportunity to explore a defined pathway in their education. No matter the academy, our students will have the tools they need to be successful in any endeavor beyond high school.

Our goal this year is to have the registration process completed near the end of February. Course requests will determine our staffing and scheduling for next year so please take every opportunity to make an informed decision. We are here to help you with the registration process. Please call the Main Office at 952-496-5152 with any questions you may have.

We are excited to provide our students with all the wonderful opportunities found in this guide! Please read through it carefully to learn about all we have to offer.

Thank you,

Jeff Pawlicki  
Principal  
Shakopee High School  
952.496.5152

# Mission

Shakopee Schools, in partnership with our community, will educate lifelong learners to succeed in a diverse world.



## School Board Members

Joseph Aldrich, Tim Brophy, Chad Johnson, Ibrahim Mohamed, Kristi Peterson, Jeff Smith, Caroline Valdez

## District Administration

-952.496.5000

Dr. Mike Redmond – Superintendent

Jim Miklausich – Asst. Superintendent

Nancy Thul – Director of Teaching & Learning

Julie Fred – Director of Special Services

## High School Administration

-952.496.5151

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Academies of Shakopee

Stephanie Wheelock | Assistant Principal – ext. 5169  
Freshman Academy

Sarah Jordan | Assistant Principal – ext. 5163  
A&C – B&E – S&T

Stuart Lang | Assistant Principal – ext. 5159  
E&M – Health Science – Human Services

## High School Counselors

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Jenny Kuske | Freshman Academy (Omega) – ext. 5128

Erica Lang | Arts & Communication – ext. 5187

Nicole Drangstveit | Business & Entrepreneurship – ext. 5164

Paige Swanson | Engineering & Manufacturing – ext. 5105

Beth Cordes | Health Science – ext. 5196

Kelsey LaRue | Human Services – ext. 5179

John Rose | Science & Technology – ext. 5106

Daniel Costa | EML Counselor – ext. 5147

## Excellence with Equity Team

Ray Betton | Equity Supervisor – ext. 5148

Juan Mitchell | Equity Specialist – ext. 5149

Dee Buros | Indian Education Coordinator – ext. 5790

Erin Heilman | AVID Director – ext. 5763

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# Graduation Requirements

## LOCAL GRADUATION REQUIREMENTS

New requirements will include completion of Freshman Seminar, Financial Literacy, and a three course Academy Program of Study. **Please refer to the table below to review your specific graduating class requirements.**

In addition, students must meet or exceed credits in each of the following subject areas/categories:

Graduation Requirements	Class of 2024	Class of 2025 and beyond
	(Grade 12)	(Grades 9-11)
English	8	8
Health	1	1
Mathematics	6	6
Physical Education	2	2
Science	6	6
Social Studies	8	8
Fine Arts	2	2
Freshman Seminar	0	1
Financial Literacy	1	1
Program of Study (3 Course Sequence)	3	3
<b>Total Required Credits</b>	<b>37</b>	<b>38</b>
<b>Total Elective Credits</b>	<b>19</b>	<b>18</b>
<b>Total Credits Required to Graduate</b>	<b>56</b>	<b>56</b>
<b>Total Possible Credits</b>	<b>64</b>	<b>64</b>

## TYPICAL COURSES OFFERED THAT MEET GRADUATION REQUIREMENTS

### ENGLISH Requirements (8 Credits)

- 9 | English 9 **OR** Accelerated English 9
  - 10 | English 10 **OR** Accelerated English 10
  - 11 | English 11 **OR** AP Lang & Comp
  - 12 | English Requirements | 2 Semesters
- o See Department section for qualifying courses

### HEALTH (1 Credit)

- 10-12 | Healthy Lifestyles

### PHYSICAL EDUCATION (2 Credits)

- 9 | Fit For Life **OR** Intro to Sport Performance
- 10-12 | Advanced Fit for Life **OR** Advanced Sport Performance

### MATHEMATICS (6 Credits)

- 9 | Geometry **OR** Accelerated Algebra II **OR** Pre-Calculus
- 10 | Algebra II **OR** Accelerated Algebra II **OR** Pre-Calculus **OR** Calculus **OR** CIS CSE Calculus I
- 11 | Functions, Statistics, & Trigonometry **OR** Pre-Calculus **OR** See Department section for additional options

### SCIENCE (6 Credits)

- 9 | Physics 9 **OR** AP Physics I
- 10 | Chemistry **OR** AP Chemistry
- 11 | Biology **OR** AP Biology

### SOCIAL STUDIES (8 Credits)

- 9 | Human Geography **OR** AP Human Geography
  - 10 | Modern U.S. History **OR** AP US History
  - 11 | Modern World History **OR** AP World History
  - 12 | US Political and Economic Systems **OR** CIS Microeconomics
- AND**
- 12 | Required Social Studies Elective
- See Department section for qualifying courses

### FINE ARTS (2 Credits)

### FRESHMAN SEMINAR (1 Credit)

### FINANCIAL LITERACY (1 Credit)

**PROGRAM OF STUDY (3 Credits)** *Note: A Program of Study is a minimum of 3 credits, some Programs are more than 3 credits.*

## COURSE CREDIT

The school year is divided into four quarters. A successfully completed one-quarter course will earn one credit. Courses concurrently enrolled with a college or university will earn a minimum of one credit for every two college/university semester credits. (Please consult course descriptions in this Registration Guide.)

## EXAMPLES

### High School Credit Only Option

#### English 10 – A & B

**Grade Level:** 10  
**Credits:** 2 Credits  
**Prerequisite:** None  
**NCAA Core Course**

### High School & College Credit Option

#### CIS: Principles of Microeconomics - A & B (APEC 1101)

**Grade Level:** 12  
**Credits:** SHS: 2 Credits  
**College:** 4 semester credits from the University of Minnesota/Twin Cities  
**Prerequisite:** None  
**Eligibility:** Must meet the University of Minnesota's course admission requirement: Must be a junior or senior in the top 20% of the class or instructor approval.  
**NCAA Core Course**

## COLLEGE ADMISSIONS

Minimum High School Requirements for Admission to Four-Year Colleges & Universities (9<sup>th</sup> – 12<sup>th</sup> grade)

- English | 4 years | 8 SHS Credits
- Math | 3 years | 6 SHS Credits
- World Language | 2 years (same language) | 4 SHS Credits
- Science | 3 years | 6 SHS Credits
- Social Studies | 3 years | 6 SHS Credits
- Fine Arts | 1 year | 2 SHS Credits

\*Some colleges may require additional coursework. For example, the University of MN requires 4 years of mathematics.

Parents and students are encouraged to investigate the admission requirements for specific colleges of their choice. Your counselor can assist with researching specific college requirements.

*Some Colleges have admission standards that include Fine Arts Credit.  
Please review all admission standards of your choice colleges.*

## **FINE ARTS (2 Credits)**

Both credits can be completed at any time in grades 9-12. To qualify for the fine arts credit, a course must focus on artistic skills and qualities and the production of a work of art.

### *Courses meeting the requirements include:*

- 9<sup>th</sup> Grade Band\*
- Acting
- Advanced Art Studio
- Advanced Woodworking – Cabinetry & Furniture
- AP Studio Art\*
- Behind the Scenes: Production & Technical Design
- Bel Canto Choir\*
- Broadcast and Video Production\*
- Cantare\*
- Ceramics 1\*
- Ceramics 2\*
- Concert Band\*
- Concert Choir\*
- Creative Professional
- Creative Writing (formerly Writers' Workshop)
- Design Fundamentals
- Graphic Design 1\* (formerly Digital Design 1)
- Graphic Design 2\* (formerly Digital Design 2)
- Drawing, Painting and Printmaking\*
- Elements of Media Production
- Fashion Merchandising & Design
- Interior Design
- Investigative Journalism (formerly Writing for Media)
- Live Production
- Music and Sound Recording\*
- Photography\*
- Practical Art\*
- Rock Band Essentials\*
- Saber Choir\*
- Shakopee Winds\*
- Symphonic Band\*
- Theatre
- Wind Ensemble\*
- Wood Production Technologies

\* Students planning to attend a 4-year college or university should plan to take their fine arts credit within the music or art department.

# ADVANCED COURSES

Shakopee Public Schools offers a variety of advanced courses, in grades 6-12, intended to provide appropriate challenges for students who want a more rigorous curriculum.

## TYPES OF ADVANCED COURSES:

**Accelerated:** The goal of accelerated courses is to provide students the opportunity to engage in above grade-level content and prepare students for college-credit courses. Due to the unique nature of each content area, this will lead to different pathways in each area. Students are identified for accelerated courses based on district-defined criteria.

Identified students will experience the following by each content area:

**English:** Students will participate in compacted courses that cover multiple grades levels of curriculum and lead to college-credit options during grades 11 and 12.

**Mathematics:** Students will participate in courses one to two years above their grade level, leading to college-credit options during grades 11 and 12.

**Science:** Students will participate in courses in order to help prepare them for college-credit options in grades 9 - 12.

**Social Studies:** Students will have access to college-credit options in grades 9 – 12.

**College Credit Options:** There are a variety of ways students can earn college credit while attending Shakopee Schools. See below for a brief overview of these options and eligibility criteria established by partnering colleges or universities. Please see your counselor regarding Shakopee Schools "[Early College](#)".

More detailed information regarding specific course pathways can be found on the district's High-Potential Services webpage (<http://shakopee.k12.mn.us/domain/50>)

## OVERVIEW OF COLLEGE CREDIT OPTIONS

**Advanced Placement (AP)** is an international program of college-level coursework. Typically, students who earn a 3, 4, or 5 on the AP test may qualify for college credit. To make sure that a particular college accepts AP credit, students must contact the specific college. The students' experience in an AP course, and what makes them eligible for college credit, include preparing for and taking the AP National Exam.

There are no eligibility criteria for AP courses established by the College Board. However, there may be prerequisite or co-requisite course requirements.

**Concurrent Enrollment** (College in the Schools – CIS, Normandale Community College, Hennepin Technical College) is a dual enrollment program in which students who successfully complete a course receive transcribed college credit and high school credit. University or college credit is awarded to students who successfully meet the standards of both the high school and college course.

Eligibility criteria for concurrent enrollment courses vary for each course. Please see the individual course descriptions for these criteria.

**Articulated Credit** can be earned in courses that have agreements with Minnesota Technical, Community, or 4-year Colleges and Universities. Students who successfully complete these courses, and any other additional requirements, have the option to earn college credit and high school credit.

There are no eligibility criteria for participation in articulated courses, however students should see the course instructor or counselor regarding any eligibility requirements needed to access college credit.

### WEIGHTED GRADES

Grades are weighted for college-level courses provided by a nationally accredited program. Grades will be weighted in the following manner:

Any grade of 'A' is awarded an additional 0.6 grade points.

Any grade of 'B' is awarded an additional 0.4 grade points.

Any grade of 'C' is awarded an additional 0.2 grade points.

Grades of 'D' or 'F' receive no additional grade points.

### WEIGHTED GRADES – COURSES OFFERED AT SHAKOPEE HIGH SCHOOL

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>● All Advanced Placement (AP) Courses</li><li>● All College in the Schools (CIS) Courses</li><li>● All Project Lead the Way (PLTW) Courses</li><li>● Emergency Medical Responder</li><li>● Nursing Assistant/Home Health Aide</li><li>● Exploring Education</li></ul> | <ul style="list-style-type: none"><li>● Multicultural Education</li><li>● CAPS Business Administration and Management</li><li>● CAPS Creative Media</li><li>● CAPS Engineering &amp; Manufacturing</li><li>● CAPS Healthcare and Medicine</li></ul> |
|---|---|

### IDENTIFICATION & ELIGIBILITY for Advanced Courses | Common Identification Criteria (District-wide)

#### **Identification for Accelerated Courses**

- **Accelerated Courses** | To be identified for Accelerated courses, student's average scores on MAP and MCA data over the previous two years must be at or above the 85<sup>th</sup> percentile, or other comparable test data.
- **Twice-Accelerated Courses** | To be identified for Twice-Accelerated courses, a student's average scores on MAP and MCA data over the previous two years must be at or above the 95<sup>th</sup> percentile.

### APPEALS PROCESS | Uniform process for Appeals across content areas, except Math

**MATH Appeals** | Students must test out of the pre-requisite course using an end of course assessment in order to advance.

**Appeals in ALL Other Disciplines** | If not initially invited into the course by initial identification, the student and parent(s) must...

1. Complete written Appeal Request Form (available from the building administration or counselors)
2. Building Administrator(s) reviews the student's file (with the HP Coordinator, as needed), including...
  - Core Data (as described above in Identification)
  - Other Supplementary Data, such as...
    - Subject-specific scores on standardized tests
    - Subject-specific grades and GPA (i.e. Math GPA, Science GPA, etc., NOT overall GPA)
    - Work samples
3. Building Administrator(s) reviews student's file and supplementary data with parents  
The Building Administrator will be the final authority on ALL appeals.

### EXIT CRITERIA | Common District Exit Criteria

#### **Methods of Exiting**

- **Request by student and/or parent** | When students and/or their parents request to be dropped from an advanced course, the following process must be followed:
  1. The student and/or parent(s) discuss ongoing concerns with the teacher as the course progresses.
  2. Teacher makes sure that parent(s) are included in discussions of concerns about the student.
  3. In normal circumstances, if a parent requests his/her student be exited from the course, that request will be honored at the end of the current grading period (The student's grade for that grading period will count in the student's GPA.)
- **Recommendation by Teacher** | Process for exit
  1. The teacher begins and maintains an ongoing discussion of concerns with students throughout the course.
  2. The teacher discusses the concerns with parents/guardians as soon as appropriate.
  3. The parties agree to a performance contract, signed by student and parent/guardian(s) and shared with the Building Administration.
  4. If the performance contract does not alleviate the concerns, the teacher shares the results with the student's counselor and Building Administration.
- **Student Failure** | If a student fails the course, s/he will be removed from that discipline's advanced course sequence.  
The Building Administrator will be the final authority on ALL student exits from advanced courses.

Course Summary – [Key: \* Pre-requisite or Co-requisite required | ! Fine Arts Credit]

Highlighted Courses offered Online AND In Person

To find these courses by page number, please refer to the index in the back.

English Language Arts Requirements

	Credit	Grades
English 9 – A & B	2.0	9
Accelerated English 9 – A & B	3.0	9
English 10 – A & B	2.0	10
Accelerated English 10 – A & B	3.0	10
English 11 – A & B	2.0	11
AP Language & Composition – A & B	2.0	11,12
English 12: 21 <sup>st</sup> Century Communication	1.0	12
English 12: Exploring Self-Identity	1.0	12
Humanities – English	1.0	11,12
CIS: Introduction to Public Speaking	2.0	12
CIS: Introduction to Literature	2.0	12
CIS: University Writing	2.0	12

Health/Physical Education Requirements

Fit for Life	1.0	9,10,11,12
Intro to Sport Performance	1.0	9,10,11,12
*Advanced Fit for Life	1.0	10,11,12
*Advanced Sport Performance	1.0	10,11,12
Healthy Lifestyles	1.0	10,11,12

Math Requirements

*Geometry - A & B	2.0	9,10,11,12
*Algebra 2 – A & B	2.0	9,10,11,12
*Accelerated Algebra 2 – A & B	2.0	9,10,11,12
*Functions, Statistics & Trigonometry – A & B	2.0	10,11,12
*Pre-Calculus – A & B	2.0	9,10,11,12
*Calculus – A & B	2.0	9,10,11,12
*College Algebra through Modeling – A & B	2.0	11,12
*CIS CSE Calculus I	2.0	10,11,12
*AP Calculus BC – A, B & C	3.0	10,11,12
*AP Statistics – A & B	2.0	10,11,12

Science Requirements

Physics of the Universe – A & B	2.0	9,10,11,12
*AP Physics I – A, B & C	3.0	9,10,11,12
*AP Physics C – A, B & C	3.0	10,11,12
*Chemistry in the Earth System – A & B	2.0	10,11,12
*AP Chemistry – A, B & C	3.0	10,11,12
*Biology: The Living Earth – A & B	2.0	11,12
*AP Biology – A, B & C	3.0	11,12

Social Studies Requirements

Human Geography – A & B	2.0	9
AP Human Geography – A & B	2.0	9
Modern U.S. History – A & B	2.0	10
AP U.S. History – A, B & C	3.0	10
Modern World History – A & B	2.0	11
AP World History – A & B	2.0	11
U.S. Political & Economic Systems	1.0	12
Environmental Ethics	1.0	10,11,12
Humanities – Social Studies	1.0	11,12
Intercultural Studies	1.0	11,12
Psychology	1.0	11,12
Sociology	1.0	11,12
CIS: Principles of Microeconomics	2.0	12
CIS: Introduction to Psychology	2.0	11,12
CIS: American Democracy in a Changing Wld.	2.0	11,12

Graduation Requirements

Freshman Seminar	1.0	9
Financial Literacy	1.0	11,12

Global Electives

	Credit	Grades
GLOmies	1.0	12
GLOmies PE	1.0	11,12
Team & Individual Sports 1	1.0	10,11,12
*Team & Individual Sports 2	1.0	10,11,12
<b>Music – Fine Art Electives</b>		
!9 <sup>th</sup> Grade Band – A & B	2.0	9
!Cantare Choir – A & B	2.0	9
!Bel Canto Choir – A & B	2.0	11,12
!Concert Band – A & B	2.0	11,12
!Concert Choir – A & B	2.0	11,12
!Saber Choir – A & B	2.0	10,11,12
!Symphonic Bands – A & B	2.0	10
!Wind Ensemble – A & B	2.0	11,12
<b>Theater – Fine Art Electives</b>		
!Theatre	1.0	9,10,11,12
<b>Visual Arts – Fine Art Electives</b>		
!*Advanced Art Studio	1.0	11,12
!*AP Art & Design – A & B	2.0	11,12
!Ceramics 1	1.0	9,10,11,12
!*Ceramics 2	1.0	10,11,12
!Practical Art	1.0	9,10,11,12
<b>World Languages</b>		
German 1 – A & B	2.0	9,10,11,12
*German 2 – A & B	2.0	9,10,11,12
*German 3 – A & B	2.0	10,11,12
*German 4 – A & B	2.0	10,11,12
Japanese 1 – A & B	2.0	9,10,11,12
*Japanese 2 – A & B	2.0	9,10,11,12
*Japanese 3 – A & B	2.0	10,11,12
*Japanese 4 – A & B	2.0	10,11,12
Spanish 1 – A & B	2.0	9,10,11,12
*Spanish 2 – A & B	2.0	9,10,11,12
*Spanish 3 – A & B	2.0	9,10,11,12
*Spanish 4 – A & B	2.0	10,11,12
*Advanced Spanish for Careers	2.0	11,12
*CIS: Spanish 1003	2.5	10,11,12
*CIS: Spanish 1004	2.5	10,11,12
Spanish for Spanish Speakers 1 – A & B	2.0	9,10,11,12
*Spanish for Spanish Speakers 2 – A & B	2.0	9,10,11,12
*Spanish for Spanish Speakers 3 – A & B	2.0	9,10,11,12

Course Summary – [Key: \* Pre-requisite or Co-requisite required | ! Fine Arts Credit]

Highlighted Courses offered Online AND In Person

To find these courses by page number, please refer to the index in the back.

Arts & Communications

	Credit	Grades
!* Acting	1.0	10,11,12
!Behind the Scenes: Production & Technical Design	1.0	10,11,12
!* Broadcast and Video Production	1.0	10,11,12
!* Creative Professional	1.0	11,12
!Creative Writing (formerly Writers' Workshop)	1.0	10,11,12
!Design Fundamentals	1.0	9,10,11,12
!Graphic Design 1	1.0	9,10,11,12
!* Graphic Design 2	1.0	10,11,12
!* Drawing, Painting, and Printmaking	1.0	10,11,12
!Elements of Media Production	1.0	9,10,11,12
!Fashion Merchandising & Design	1.0	9,10,11,12
!Interior Design	1.0	9,10,11,12
!Investigative Journalism (formerly Writing for Media)	1.0	10,11,12
!* Live Production	1.0	11,12
!* Music and Sound Recording	1.0	10,11,12
!* Photography	1.0	10,11,12
Public Speaking	1.0	10,11,12
!Rock Band Essentials	1.0	10,11,12
* Shakopee CAPS Creative Media – A & B	4.0	11,12
* Shakopee CAPS Creative Media Internship	2.0	11,12

Business & Entrepreneurship

* Accounting – A & B	2.0	10,11,12
* Advanced Business Seminar	1.0	11,12
Baking & Pastry	1.0	10,11,12
Business Dynamics	1.0	9,10,11,12
Business Technology	1.0	9,10,11,12
Culinary Arts 1	1.0	9,10,11,12
* Culinary Arts 2	1.0	10,11,12
* Culinary Arts 3	1.0	10,11,12
Entrepreneurship	1.0	10,11,12
* Finance and Investments	1.0	10,11,12
* Hospitality Management	1.0	10,11,12
* Management & Leadership	1.0	10,11,12
Marketing	1.0	10,11,12
* Shakopee CAPS Business Administration & Management – A&B	4.0	11,12
* Shakopee CAPS Business Administration & Management Internship	2.0	11,12
* Social Media Marketing	1.0	10,11,12
Sports & Entertainment Marketing	1.0	10,11,12

Engineering & Manufacturing

Aerospace Engineering (PLTW) – A & B	2.0	10,11,12
* Civil Engineering & Architecture (PLTW) – A & B	2.0	10,11,12
Computer Integrated Manufacturing (PLTW) – A & B	2.0	10,11,12
* Construction	1.0	10,11,12
* Construction Management & Development – A & B	2.0	11,12
* Engineering Design & Development (PLTW) – A & B	2.0	11,12
Intro to Engineering Design (PLTW) – A & B	2.0	9,10,11,12
Manufacturing and Construction	1.0	9,10,11,12
* Manufacturing Design and Development	1.0	11,12
* Marine, Motorsport, & Outdoor Power Equipment	1.0	10,11,12
* Principles of Engineering (PLTW) – A & B	2.0	10,11,12
* Shakopee CAPS Engineering & Manufacturing – A&B	4.0	11,12
* Shakopee CAPS Engineering & Manufacturing Internship	2.0	11,12
Small Gas Engines	1.0	9,10,11,12
* Super High Mileage Vehicle	1.0	11,12
* Welding and Metal Fabrication	1.0	10,11,12
!* Wood Production Technologies	1.0	10,11,12
* Advanced Welding – Design & Fabrication	1.0	10,11,12
!* Advanced Woodworking – Cabinetry & Furniture	1.0	10,11,12

Health Science

	Credit	Grades
* CIS: Human Physiology, Technology, and Medical Devices	2.0	11,12
* Community Health	1.0	11,12
* Emergency Medical Responder – A & B	2.0	11,12
* Global Health & Disease Prevention	1.0	10,11,12
Human Body Systems	1.0	9,10,11,12
* Human Movement Sciences	1.0	10,11,12
* Medical Interventions (PLTW) – A & B	2.0	11,12
* Healthcare Simulation	1.0	10,11,12
* Nursing Assistant – A & B	2.0	11,12
Nutrition for the Human Body	1.0	9,10,11,12
* Principles of Biomedical Science (PLTW) – A & B	2.0	10,11,12
* Shakopee CAPS Healthcare & Medicine – A & B	4.0	11,12
* Shakopee CAPS Healthcare & Medicine Internship	2.0	11,12
* Sports Medicine	1.0	11,12

Human Services

* A Case for Justice	1.0	10,11,12
* Advanced Child Development	1.0	10,11,12
* Community Leadership and Service	1.0	11,12
Criminal Justice & the Court	1.0	9,10,11,12
* Exploring Education – A & B	2.0	10,11,12
* Generation Now	1.0	10,11,12
Human Relations	1.0	9,10,11,12
Intro to Human Development	1.0	9,10,11,12
* Law and Legal Services	1.0	11,12
* Multicultural Education – A & B	2.0	11,12
* Positive Psychology: Building People and Community	1.0	10,11,12
* Shakopee CAPS Human Services – A&B	4.0	11,12
* Shakopee CAPS Human Services Internship	2.0	11,12
Sociology of the Family	1.0	10,11,12

Science & Technology

* AP Computer Science Principles (PLTW) – A & B	2.0	10,11,12
* AP Environmental Science – A & B	2.0	10,11,12
Computer Hardware and Software	1.0	9,10,11,12
* Cyber Security	1.0	10,11,12
* Ecology	1.0	10,11,12
* Environmental Ethics	1.0	10,11,12
* Environmental Solutions	1.0	11,12
Electricity	1.0	9,10,11,12
* Energy and Power Generation	1.0	10,11,12
Energy, Food and The Outdoors	1.0	9,10,11,12
Mobile App Development	1.0	9,10,11,12
* Technological Innovations	1.0	11,12
Web Development	1.0	9,10,11,12

Southwest Metro ED

Animal Science	2.0	11,12
Large Animal / Vet Science	2.0	11,12
Outdoor Power Equipment	2.0	11,12
Aviation Tech (Drone Tech)	2.0	11,12
Automotive Technology – A & B	4.0	11,12
Construction Technology – A & B	4.0	11,12
Residential Electrician	2.0	11,12
Computer Repair – A & B	4.0	11,12
* Computer Networking – A & B	4.0	12
Child Development Associate 1	2.0	11,12
Child Development Associate 2	2.0	11,12
Cosmetology 1 – A & B	4.0	11,12
* Cosmetology 2 – A & B	4.0	12
Criminal Justice – A & B	4.0	11,12
Graphic Design & Print 1 – A & B	4.0	11,12
* Graphic Design & Print 2 – A & B	4.0	12
Emergency Medical Responder	2.0	11,12
* Emergency Medical Technician	2.0	11,12
Nursing Assistant	2.0	11,12
Medical Terminology	2.0	11,12
Photography 1	2.0	11,12
* Photography 2	2.0	11,12
* Advanced Photography	2.0	12

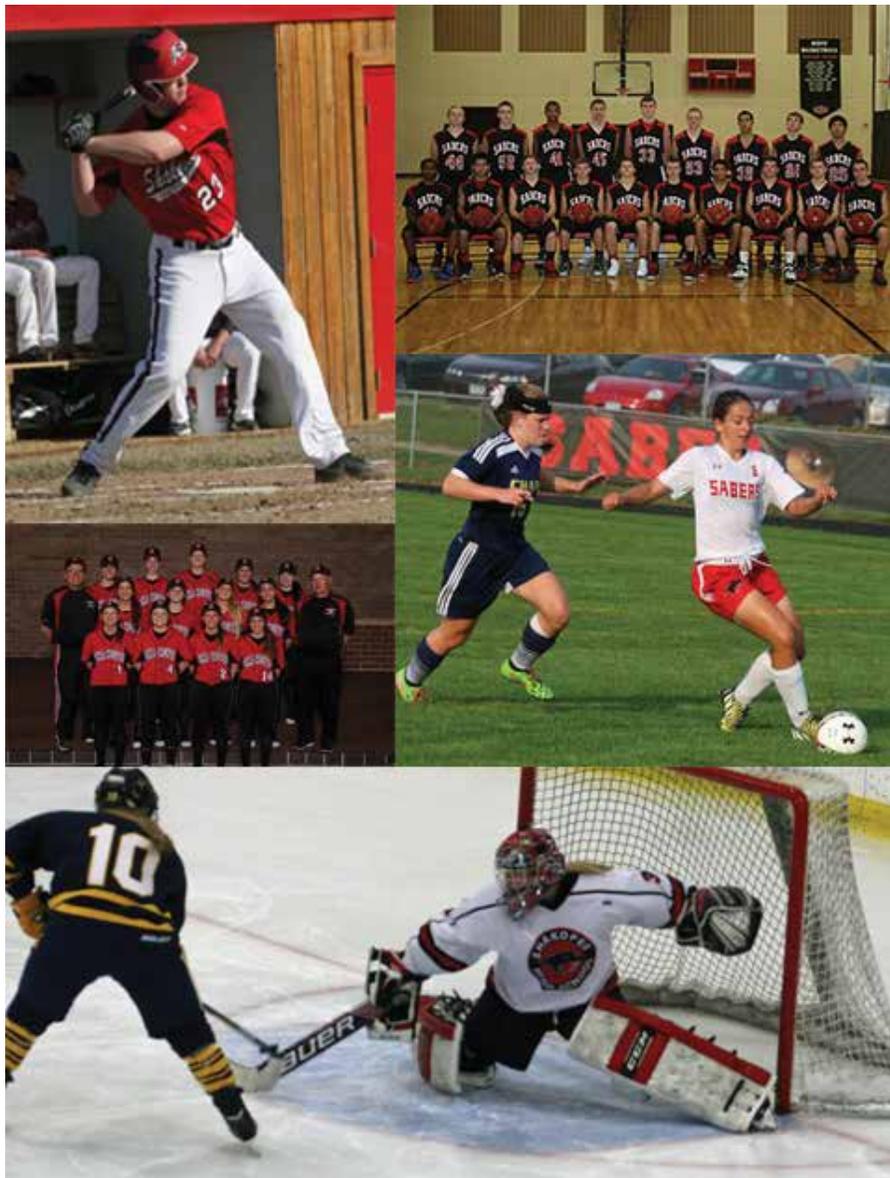
# NCAA Eligibility Information

## NCAA Freshman-Eligibility Standards

### Know the Rules:

NCAA Eligibility for student athletes is strict and has a list of rules that must be followed in order to be eligible. Parents and students are encouraged to read guidelines and speak with coaches at choice colleges. It is recommended to start the core course planning in 9<sup>th</sup> and 10<sup>th</sup> grade.

Information regarding the rules please go to [www.NCAA.org](http://www.NCAA.org). Scroll over "Student Athlete", then click on "NCAA Eligibility Center". Or visit the Eligibility Center website at [www.eligibilitycenter.org](http://www.eligibilitycenter.org). Please call the NCAA Eligibility Center if you have questions: Toll-free number: 877-262-1492



# Saber Online Information

High School Program (Grades 9-12)

Saber Online is fully accredited by the Minnesota Department of Education as an online learning provider. Students have the option to take online classes **full-time** or on a **part-time** basis in combination with classes that are held in-person at Shakopee High School. Saber Online will follow the 4-period block schedule starting at 8:20 AM and ending at 3:00 PM.

Students enrolled in Saber Online Courses should expect the same level of rigor that would be experienced in the in-person course.

There are two ways that an online course could be delivered by a Shakopee teacher:

**Full Online Section:** Students will meet daily for “live” instruction with their teacher and other students during their assigned block.

**Individualized Approach:** Students will participate in a more self-directed digital curriculum with daily “live” contact with a teacher during their assigned block to monitor progress, in small group or individual settings.

## Characteristics of a successful online student include:

- Motivated, flexible, and adaptable
- Excellent time management skills
- Willingness to actively participate and ask questions
- Ability to work independently
- Patience when faced with adversity
- Comfortable with technology

**Saber Online course offerings are highlighted in yellow throughout the Registration Guide.** All classes in yellow, on the Course Summary (pages 10-11) as well as in the sections containing course descriptions are tentatively offered both online and in-person for the 2023-24 school year. The number of student requests will determine how the course will be taught or if it will be offered at all.

*Students/Families are encouraged to read the full Saber Online course descriptions and Graduation Requirements in the Registration Guide.*

## REQUIRED COURSE OFFERINGS

Grade	English	Math	Social Studies	Science
9th grade	English 9-A&B <b>OR</b> Accelerated English 9-A&B	Geometry-A&B <b>OR</b> Algebra 2-A&B <b>OR</b> Functions, Statistics, & Trigonometry-A&B	Human Geography-A&B <b>OR</b> AP Human Geography-A&B	Physics 9-A&B <b>OR</b> AP Physics 1-A,B&C
10th grade	English 10-A&B <b>OR</b> Accelerated English 10-A&B	Algebra 2-A&B <b>OR</b> Functions, Statistics, & Trigonometry-A&B <b>OR</b> Pre-Calculus-A&B	Modern US History-A&B <b>OR</b> AP US History A,B&C	Chemistry-A&B <b>OR</b> AP Chemistry-A,B&C
11th grade	English 11-A&B <b>OR</b> AP Language & Composition-A&B	Functions, Statistics, & Trigonometry-A&B <b>OR</b> Pre-Calculus-A&B <b>OR</b> Calculus-A&B	Modern World History-A&B <b>OR</b> AP World History-A&B	Biology-A&B <b>OR</b> AP Biology-A,B&C
12th grade	English 12: Self Identity <b>AND</b> English 12: 21st Century Communication <b>OR</b> AP Language & Composition-A&B	<b>OPTIONAL:</b> Pre-Calculus-A&B Calculus-A&B AP Statistics-A&B	US Political and Economic Systems <b>AND</b> Psychology <b>OR</b> Sociology	

## COURSE OFFERINGS THAT MEET GRADUATION REQUIREMENTS

Freshman Seminar (9th Grade)	Financial Literacy	Fit For Life <b>AND</b> Advanced Fit for Life	Healthy Lifestyles	Fine Arts: <i>Refer to Arts &amp; Communication courses below</i>
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## ELECTIVE COURSE OFFERINGS

### World Languages

Spanish 1-A&B	Spanish 2-A&B
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## ARTS AND COMMUNICATION ACADEMY

Program of Study	Introduction	Intermediate	Advanced
<b>CREATIVE DESIGN</b>	Graphic Design 1	Graphic Design 2	Creative Professional
Academy Elective Courses			
Creative Writing	Interior Design	Fashion Design	Public Speaking

\*All Arts & Communication courses meet the Fine Arts graduation requirements

**Highlighted Courses offered Online AND In Person**

<b>BUSINESS AND ENTREPRENEURSHIP ACADEMY</b>			
Program of Study	Introduction	Intermediate	Advanced
<b>ENTREPRENEURSHIP &amp; BUSINESS MANAGEMENT</b>	Business Dynamics	Entrepreneurship	Advanced Business Seminar
<b>Academy Elective Courses</b>			
Business Technology	Social Media Marketing		

<b>ENGINEERING AND MANUFACTURING ACADEMY</b>			
Program of Study	Introduction	Intermediate	Advanced
<b>ENGINEERING AND DESIGN</b>	Intro to Engineering (PLTW)	Principles of Engineering (PLTW)	Engineering Design & Development (PLTW)

<b>HEALTH SCIENCE ACADEMY</b>			
Program of Study	Introduction	Intermediate	Advanced
<b>PUBLIC HEALTH</b>	Human Body Systems	Global Health and Disease Prevention	Community Health
<b>EXERCISE SCIENCE</b>		Human Movement Sciences	<i>Not currently offered online</i>
<b>Academy Elective Courses</b>			
Nutrition for the Human Body			

<b>HUMAN SERVICES ACADEMY</b>			
Program of Study	Introduction	Intermediate	Advanced
<b>SOCIAL AND MENTAL HEALTH SERVICES</b>	Intro to Human Development	Positive Psychology	Community Leadership and Service
<b>LAW AND LEGAL SERVICES</b>	Criminal Justice and the Court	<i>Not currently offered online</i>	<i>Not currently offered online</i>

<b>SCIENCE AND TECHNOLOGY ACADEMY</b>			
Program of Study	Introduction	Intermediate	Advanced
<b>COMPUTER SCIENCE</b>	Computer Hardware and Software	AP Computer Science Principles (PLTW)	Technological Innovations
<b>INFORMATION TECHNOLOGY SOLUTIONS</b>		Cyber Security	
<b>Academy Elective Courses</b>			
Mobile App Development	Web Development		



# ***Graduation Requirement Options***



Courses in this section meet graduation requirements and post-secondary admissions requirements. Students have various options to meet these requirements, including advanced course work. Please consult with your counselor to ensure you are choosing courses that meet your graduation requirements and post-secondary needs.

<b>Infographic Key:</b>		Fine Arts Credit		College Credit Opportunity		CAPS Program
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## Graduation Requirements

### Freshman Seminar

**Grade Level:** 9  
**Credits:** 1 Credit  
**Prerequisite:** None

**Description:** During the 9<sup>th</sup> grade year, all students will begin their high school career with a Freshman Seminar. The purpose of this course is to help students explore the following theme: *"Reflecting on my passion and strengths I will build upon my social, emotional, and academic skills to increase resiliency and make decisions now that lead to conscientious global citizenship."* As a result of this course, all students will examine the concept of "My Place. My Path. My Future" as they prepare and plan for the Academies of Shakopee and beyond. Students will build academic skills, connect with the Shakopee High School Community, and examine how their future goals connect to their current academic choices.

### Financial Literacy

**Grade Level:** 11, 12  
**Credits:** 1 Credit  
**Prerequisite:** None

**Description:** Financial Literacy is a course designed to help you prepare for your financial future. It will assist you in developing the skills needed to make sound financial decisions. You will understand the impact of individual choice on financial goals and future income potential. Financial topics covered will include but not be limited to behavioral finance, budgeting, banking, income and taxes, insurance, saving and investing, credit and identity theft, renting an apartment and risk management. This course will provide a foundation for making informed personal financial decisions.

## English Language Arts

Shakopee School Board's Graduation Requirements policy requires that 4 years' equivalent (8 credits) of English Language Arts courses are taken by students during their high school career.

Grade	Required English Courses	
	<i>General</i>	<i>Accelerated</i>
9	<i>English 9</i>	<i>Accelerated English 9</i>
10	<i>English 10</i>	<i>Accelerated English 10</i>
11	<i>English 11</i>	<i>AP Lang &amp; Comp</i>
12 <i>Required Options (Pick 2)</i>	<i>English 12: 21<sup>st</sup> Century Communication</i> <i>English 12: Exploring Self-Identity</i> <i>Humanities – English</i>	<i>CIS: Intro to Public Speaking</i> <i>CIS: Intro to Literature</i> <i>CIS: University Writing</i> <i>AP Lang &amp; Comp</i>

### Grade 9 Requirement Options

#### English 9 – A & B

**Grade Level:** 9  
**Credits:** 2 Credits  
**Prerequisite:** None  
**NCAA Core Course**

**Description:** The English 9 course is designed to fulfill the language arts core requirement for 9<sup>th</sup> grade. Students will write in a variety of formats including journals, narratives, research, and argument pieces. In addition, students will read and view fiction and nonfiction works critically, speak informally and formally, and study the grammar and mechanics of the English language.

### Grade 9 Requirement Options – (Cont.)

#### Accelerated English 9 – A & B

**Grade Level:** 9  
**Credits/Length:** 3 Credits / 2 Terms  
**Prerequisite:** Recommended – Accelerated English 8  
**Eligibility:** Placement based on District identification criteria  
**NCAA Core Course**

**Description:** The Accelerated English 9 course is the first of a two course English sequence (grades 9 & 10) that will fulfill 9<sup>th</sup>-12<sup>th</sup> grade standards. This course will compact and address critical 9<sup>th</sup> and 10<sup>th</sup> grade standards in one year. The course is designed for students who possess superior language arts skills and have the desire to learn at an intense, rigorous, accelerated pace. This is a challenging class designed for students who enjoy reading, writing, and interpersonal communication. Students will be expected to demonstrate high level critical thinking of both fiction and nonfiction through writing.

Grade 10 Requirement Options**English 10 – A & B****Grade Level:** 10**Credits:** 2 Credits**Prerequisite:** None**NCAA Core Course**

**Description:** English 10 focuses on analyzing author purpose and craft. Students are asked to read nonfiction reports of current events as well as literary works of art. In both types of tasks, students assess the use of rhetoric and literary devices. The course then evolves into students embedding these tools into their own argumentative writing.

Second quarter continues the theme of analysis with more focus on literature's relation to its context. Differences in cultures are examined through reading, writing, and discussing. Students develop skills related to vocabulary, independent reading, and grammar throughout the entire course.

**Accelerated English 10 – A & B****Grade Level:** 10**Credits/Length:** 3 Credits / 2 Terms**Prerequisite:** Recommended – Accelerated English 9**Eligibility:** Placement based on District identification criteria**NCAA Core Course**

**Description:** The Accelerated English 10 course is the second of a two course English sequence (grades 9 & 10) that will fulfill 9<sup>th</sup>-12<sup>th</sup> grade standards. This course will compact and address critical 11<sup>th</sup> and 12<sup>th</sup> grade standards in one year, earning students 3 semester credits in one year. The course is designed for students who possess superior language arts skills and have the desire to learn at an intense, rigorous, accelerated pace. This is a challenging class designed for students who enjoy reading, writing, and interpersonal communication. Students will be expected to demonstrate a high level of critical thinking while reading both literary and informational texts.

Grade 11 & 12 Requirement Options*(4 Credits Required)***English 11 – A & B****Grade Level:** 11**Credits:** 2 Credits**Prerequisite:** None**NCAA Core Course**

**Description:** English 11 addresses the reading, writing, speaking, and listening standards. Students will read, analyze, and discuss texts in multiple formats, including both fiction and non-fiction. Emphasis is placed on world literature and diverse perspectives. Students will write for a variety of purposes with an emphasis on argumentation.

Grade 11 & 12 Requirement Options – (Cont.)**English 12: 21<sup>st</sup> Century Communication****Grade Level:** 12**Credits:** 1 Credit**Prerequisite:** None**NCAA Core Course**

**Description:** 21<sup>st</sup> Century Communication is one quarter of a 12<sup>th</sup> grade English program that addresses the reading, writing, speaking and listening standards. Students will read, analyze, and discuss texts in multiple formats. Emphasis is placed on 21<sup>st</sup> century modes of communication. Students will write for a variety of purposes with an emphasis on analysis.

**English 12: Exploring Self-Identity****Grade Level:** 12**Credits:** 1 Credit**Prerequisite:** None**NCAA Core Course**

**Description:** Exploring Self-Identity is one quarter of a 12<sup>th</sup> grade English program that addresses the reading, writing, and speaking standards. Emphasis is placed on introspection, connection to the world around them, and understanding others' viewpoints. Students will write a narrative about an important event in their lives, research a community service organization, analyze editorial writing, and apply literary theory to a novel. Students will write for a variety of purposes with an emphasis on analysis.

**Humanities – English****Grade Level:** 11,12**Credits:** 1 Credit**Prerequisite:** None**NCAA Core Course**

**Note:** Students taking this course must also sign up for Humanities – Social Studies

**Description:** Humanities is designed to use a holistic approach to education. Humanities fosters understanding of how subjects parallel, using history, art, literature, religion, music, politics, and society to make connections between the past and the present, between the diverse world cultures and you. As a team-taught course between the Social Studies and English Departments, Humanities is intended to prepare juniors and seniors with knowledge and skills necessary to succeed in rigorous academic environments. Students will be expected to write four to five compositions, work on grammatical concepts, expand their knowledge base, think analytically, prepare presentations, and excel in class discussions. Each student who successfully completes the course will receive both a Social Studies and an English credit.

## Grade 11 &amp; 12 Requirement Options – [Cont.]

**AP Language & Composition – A & B****Grade Level:** 11,12**Credits:** 2 Credits**Prerequisite:** None**NCAA Core Course**

**Description:** The AP English Language and Composition course focuses on rhetorical analysis of nonfiction texts and the development and revision of well-reasoned, evidence centered, analytic and argumentative writing. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. Students will have the option to take the AP English Language and Composition exam.

**CIS: Introduction to Public Speaking –A & B (COMM 1101)****Grade Level:** 12**Credits:** SHS: 2 Credits**College:** 3 semester credits from the University of Minnesota-Twin Cities**Prerequisite:** Eligibility Requirement**Eligibility:** Must meet the University of Minnesota's course admission requirements: Must be a senior in the top 50% of the class.**NCAA Core Course**

**Description:** This course is intended for students who want a challenge and have confidence speaking in front of others. The objectives are to better understand the principles of oral communication; to improve skills in researching, writing, and organizing effective presentations that are appropriate to particular audiences; to improve and gain confidence in delivery skills; learn to critically evaluate your own speeches, as well as your classmates' speeches and to accept and implement the suggestions of others to enhance your own work; and to develop an awareness of the consequences of our communication and acquire an appreciation of the responsibilities of ethical communication. Students registering for this class must be comfortable speaking publicly and have a desire to improve rather than develop their abilities. Students successfully completing CIS Public Speaking will receive three University of Minnesota semester credits.

## Grade 11 &amp; 12 Requirement Options – [Cont.]

**CIS: Introduction to Literature – A & B Poetry, Drama & Narrative (ENGL 1001W)****Grade Level:** 12**Credits:** SHS: 2 Credits**College:** 4 semester credits from the University of Minnesota-Twin Cities**Prerequisite:** Eligibility Requirement**Eligibility:** Must meet the University of Minnesota's course admission requirements: Must be a senior in the top 20% of the class or with instructor approval.**NCAA Core Course**

**Description:** CIS: Introduction to Literature is designed and articulated through the University of Minnesota. Students who successfully complete this course will receive four U of MN credits in Literature and two Shakopee High School credits. Students read 8 to 10 stimulating books relating to poetry, drama, and fiction from a variety of eras. The novels for this course cover a range of mature, and sometimes controversial, subjects. Students should expect to read material that challenges what they know while embracing their individual interpretation. Students will discuss literary form and interpretation, as well as bring in their own experiences and connections. Actively participating in class discussion, helping to lead class discussion, writing essays and formal papers, and, of course, reading will be required of all students. This course is considered writing intensive. Students will write for a variety of purposes with an emphasis on thorough analysis and argumentation. Because this is a discussion-based course, absences will affect the student's understanding, learning, and grades, accordingly. College Credit is recorded on your official University of MN transcript.

**CIS: University Writing – A & B (WRIT 1301)****Grade Level:** 11,12**Credits:** SHS: 2 Credits**College:** 4 semester credits from the University of Minnesota-Twin Cities**Prerequisite:** Eligibility Requirement**Eligibility:** Must meet the University of Minnesota's course admission requirements: Must be a senior in the top 30% of the class or with instructor approval.**NCAA Core Course**

**Description:** College in the Schools: University Writing 1301 is designed and articulated with the University of Minnesota. Students who successfully complete this course will receive four U of MN credits in English. Students with above average writing ability are most successful in this college freshman course. Students will utilize the writing process required in a college setting, use multiple platforms of technology, research in and out of school, conference with peers and instructor about papers, critically analyze topics, and fluently express themselves. Students will write for a variety of purposes and audiences. Students successfully completing CIS University Writing 1301 will receive four University of Minnesota semester credits. College Credit is recorded on your official University of MN transcript.

## Health & Physical Education

Shakopee School Board's Graduation Requirements policy requires two credits of physical education and one credit of health. (3 total credits from the courses in this section). Additional elective courses offered by this department can be found within the Global Electives and Academy sections of this guide.

### Introductory Required Physical Education Options

(Choose 1 course for required credit)

**\*\* Freshman must choose Fit for Life or Intro to Sport Performance \***

#### **Fit for Life**

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Graduation Requirement:** Physical Education or Elective

**Description:** Are you fit for life? In this class, students will learn and develop personal fitness and nutrition programs based on the five components of fitness. Activities in this course will include aerobic exercise, resistance training, and lifetime activities through the development of the National Physical Education Standards. This course may best suit the student who is interested in learning how to live a healthy lifestyle through individual activities. Be Fit- Be Healthy- Be Happy!

#### **Intro to Sport Performance**

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Graduation Requirement:** Physical Education or Elective

**Description:** In this course, students will learn how to develop a personal performance program based on the Six Components of Sport Performance. Activities in this course will include strength training and force production, flexibility and balance, plyometric training, and competitive sport participation through the development of the National Physical Education Standards. This course may best suit the student who is interested in competitive, team-based physical activities and improving their sport performance.

### Intermediate Required Physical Education Options

(Choose 1 course for required credit)

#### **Advanced Fit for Life**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Fit for Life or Intro to Sport Performance

**Graduation Requirement:** Physical Education or Elective

**Description:** Are you fit for life? In this class, students will continue to learn and develop personal fitness and nutrition plans based on the five components of fitness. Activities in this course will include aerobic exercise, resistance training, and lifetime activities through the development of the National Physical Education Standards. This course may best suit the student who is interested in learning how to live a healthy lifestyle through individual activities. Be Fit- Be Healthy- Be Happy!

#### **Advanced Sport Performance**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Intro to Sport Performance or Fit for Life

**Graduation Requirement:** Physical Education or Elective

**Description:** Are you looking to perform at a higher level? In this course, students will learn how to develop a personal performance plan based on the six Components of Sports Performance. Activities in this course will include strength training, anaerobic training, and team activities through the development of the National Physical Education Standards. This course may best suit the student who is interested in competitive, team-based team activities and improving their sport performance.

### Health Requirement (grades 10-12)

#### **Healthy Lifestyles**

**Grade Level:** 10,11,12

(Students strongly encouraged to take this course Sophomore year)

**Credits:** 1 Credit

**Prerequisite:** None

**Graduation Requirement:** Health

**Description:** Providing current, accurate information that students can use to make informed decisions regarding their personal health is what this class is all about. The class is designed around the 6 priority areas of health education as published by the Center for Disease Control. Prevention of Unintentional and Intentional Injuries (Motor Vehicle Accidents and Suicide are the top two killers of high school aged students), drug Use and Abuse, Tobacco Use, Sexual Activity that Results in Unwanted Pregnancy, Sexually Transmitted Infections and HIV/AIDS, Physical Inactivity.

## Mathematics

Shakopee School Board's Graduation Requirements policy requires 3 years' equivalent (6 credits) of Mathematics courses are taken by students during their high school career. The chart below represents the mathematics options available to students throughout their high school careers.

REQUIRED MATH COURSE OPTIONS

GRADE	GENERAL	PARTIAL ACCELERATION	ACCELERATED	TWICE ACCELERATED
9	Geometry	No Partial Acceleration Option	Accelerated Algebra 2	Pre-Calculus
10	Algebra 2	Accelerated Algebra 2	Pre-Calculus	CIS CSE Calculus I
11	Functions, Statistics & Trigonometry	Pre-Calculus	CIS CSE Calculus I AP Statistics Calculus	AP Calculus BC AP Statistics

\* Many colleges require 4-years of mathematics. Students should consider the following advanced courses for a 4<sup>th</sup> year of mathematics: Pre-Calculus, College Algebra through Modeling, AP Statistics, Calculus, CIS CSE Calculus I, AP Calculus BC. Parents and students are encouraged to investigate the admission requirements for specific colleges of their choice.

### Math Requirement Options

#### Geometry – A & B

**Grade Level:** 9,10,11,12

**Credits:** 2 Credits

**Prerequisite:** Algebra 1

**Required Materials:** Scientific calculator

**NCAA Core Course**

**Description:** This is a two-credit sequential geometry course. The study of geometry will develop the student's ability to use geometric reasoning and think logically. Topics include similarity, congruence, trigonometry, perimeter/circumference, area, surface area, volume, properties of polygons and circles, as well as others.

#### Algebra 2 – A & B

**Grade Level:** 9,10,11,12

**Credits:** 2 Credits

**Prerequisite:** Geometry

**Required Materials:** Graphing calculator

**NCAA Core Course**

**Description:** This is a two-credit sequential second-year algebra course that strengthens and extends the basic skills and principles already learned in Algebra 1. The course will explore relationships and functions of the following types: linear, quadratic, and trigonometric. Other topics included are sequences and series, radicals, probability and statistics, and properties of exponents. It is designed to meet the needs of students who plan to attend a four-year college.

### Math Requirement Options

#### Accelerated Algebra 2 – A & B

**Grade Level:** 9,10,11,12

**Credits:** 2 Credits

**Prerequisite:** Accelerated Geometry or Geometry (Students not currently in the accelerated sequence are encouraged to consult their math teacher regarding this option)

**Required Materials:** Graphing calculator

**NCAA Core Course**

**Description:** Accelerated Algebra 2 is a two-credit course to prepare students for Pre-Calculus. It is a combination of Algebra 2 and FST. Topics covered include various functions (linear, quadratic, polynomial, exponential, logarithmic and rational), probability and statistics, sequences and series, and trigonometry. This is a rigorous course that moves at a rapid pace.

#### Functions, Statistics, & Trigonometry (FST) – A & B

**Grade Level:** 10,11,12

**Credits:** 2 Credits

**Prerequisite:** Algebra 2

**Required Materials:** Graphing calculator

**NCAA Core Course**

**Description:** This is a two-credit course focusing on functions, statistics and trigonometry. Topics include probability, statistics, logarithmic and exponential functions, trigonometric functions, piecewise functions, graphs and basic identities, rational and radical functions, and polynomial functions.

Math Requirement Options – (Cont.)**Pre-Calculus – A & B****Grade Level:** 9,10,11,12**Credits:** 2 Credits**Prerequisite:** FST OR Accelerated Algebra 2**Required Materials:** Graphing Calculator**NCAA Core Course**

**Description:** This is a two-credit sequential pre-calculus course. It is designed for the student who will need a good math background for college and technical study. This class will prepare students to take college algebra, pre-calculus, or calculus courses in college. Topics covered include polynomial, rational, radical, exponential and logarithmic functions. Additional topics include circular and triangle trigonometry, & conic sections.

**Calculus – A & B****Grade Level:** 9,10,11,12**Credits:** 2 Credits**Prerequisite:** Pre-Calculus**Required Materials:** Graphing calculator**NCAA Core Course**

**Description:** This course is designed for students who want an introduction to calculus. The course focuses on the major topics of calculus and their applications. In this course, algebra and pre-calculus topics are reviewed with limits and continuity introduced intuitively and numerically. Students will study methods of calculating derivatives, as well as applications of derivative functions and their graphs. Definite integrals are introduced and used to calculate area and volume. Students will have the opportunity to enroll in CIS Calculus upon successful completion of Calculus [see CIS Calculus for additional course prerequisites].

**College Algebra Through Modeling – A & B****Grade Level:** 11,12**Credits:** 2 Credits**Prerequisite:** FST**Required Materials:** Graphing calculator**NCAA Core Course**

**Description:** This course will focus on construction of mathematical models from the viewpoints of theory and real data. Those models are then used to describe real-world phenomena and make predictions. Students will explore applications of linear, polynomial, rational, exponential, and logarithmic functions as well as basic probability theory. This course is an elective course for students looking for a fourth year of mathematics.

Math Requirement Options – (Cont.)**CIS: CSE Calculus I – A & B (MATH 1371)****Grade Level:** 10,11,12**Credits:** SHS: 2 Credits**College:** 4 semester credits from the University of Minnesota/Twin Cities**Prerequisite:** Pre-Calculus or Calculus**Eligibility:** Must meet the University of Minnesota's course admission requirements: Must have earned a grade of at least a B in both semesters of a rigorous Pre-Calculus course.**Required Materials:** Graphing calculator**NCAA Core Course**

**Description:** This course is articulated with the University of Minnesota Department of Mathematics. Students who successfully complete the course will receive four semester credits from University of Minnesota in Mathematics. This class is for the serious student who desires college credit. Topics include functions and limits, differentiation, and integration. Graphing calculators are used daily and are required for the course. A field trip may be part of this course.

**AP Calculus BC – A, B & C****Grade Level:** 10,11,12**Credits:** SHS: 3 Credits**College:** Possible college credit with a score of 3 or better on the National AP Exam**Prerequisite:** Calculus or CIS CSE Calculus I**Required Materials:** TI-83+ or TI-84+ calculator**NCAA Core Course**

**Description:** This course will review topics such as limit theory, differentiation, applications of the derivative, integration, applications of integrals, and numerical approximations of definite integrals. The course covers parametric, polar, and vector functions, their derivatives, slopes fields, Euler's method, and convergence of improper integrals and series. Emphasis will be placed on preparing for the Advanced Placement Exam. A graphing calculator is required.

**AP Statistics – A & B****Grade Level:** 10,11,12**Credits:** SHS: 2 Credits**College:** Possible college credit with a score of 3 or better on the National AP Exam**Prerequisite:** Accelerated Algebra 2 or FST**Required Materials:** TI-83+ or TI-84+ calculator**NCAA Core Course**

**Description:** Statistics is the most widely applicable branch of mathematics and is used by people in more areas than any other kind of mathematics. This college-level statistics course will introduce students to concepts and tools for collecting, displaying, analyzing, and drawing conclusions from data. Computers and calculators will aid in exploring the data and displaying it, while the Internet will be utilized to discover existing sets of data and studies. Certain distributions of data will be examined, and characteristics identified. Generally, successful students in this course have a track record of completing Algebra 2A & 2B with a B- or higher both semesters. The class may be taken concurrently with Pre-Calculus, CIS Calculus or AP Calculus B/C.

# Science

Shakopee School Board's Graduation Requirements policy requires 3 years' equivalent (6 credits) of science and students are required to take Physics, Chemistry and Biology. The chart below represents the required science options available to students, by graduation year, throughout their high school careers.

Grade	Required Science Courses	
	General	Accelerated
9	Physics of the Universe	AP Physics I
10	Chemistry in the Earth System	AP Chemistry
11	Biology: The Living Earth	AP Biology

Some colleges may require 4-years of science during grades 9-12. For additional science courses, please consider the following options for advanced, lab-based science courses: **AP Physics C, CIS: Human Physiology, Technology, and Medical Devices, Ecology, AP Environmental Science, Principles of Biomedical Science (PLTW), Medical Interventions (PLTW)**. These courses can be found within the Academies of Shakopee section of this guide. Parents and students are encouraged to investigate the admission requirements for specific colleges of their choice.

## Physics Requirement Options

### Physics of the Universe – A & B

**Grade Level:** 9,10,11,12

**Credits:** 2 Credits

**Prerequisite:** None

**NCAA Core Course**

**Description:** Physics of the Universe will deep dive into the underlying principles that govern the interactions of systems. We will start by evaluating the motions, forces, and energies that guide the earth's systems. We will also be exploring wave behavior and nuclear relationships as observed on earth. Then extending those understandings to our wider universe. This course will include hands-on experiences, and modeling to better understand the origins and rules of our universe.

### AP Physics I – A, B, & C

**Grade Level:** 9,10,11,12

**Credits:** SHS: 3 Credits

**College:** Possible college credit with a score of 3 or better on the National AP Exam

**Prerequisite:** Completion of or concurrent enrollment in Accelerated Algebra II or FST

**NCAA Core Course**

**Description:** AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.



## Physics Requirement Options – (Cont.)

### AP Physics C – A, B, & C

**Grade Level:** 10,11,12

**Credits:** SHS: 3 Credits

**College:** Possible college credit with a score of 3 or better on the National AP Exam.

**Prerequisite:** Physics 9 or AP Physics I and previous or concurrent enrollment in Calculus.

**NCAA Core Course**

**Description:** AP Physics C is a three-credit, calculus-based course in introductory physics. Topics for this course include study of Forces, and Motion and study of Electricity and Magnetism. The content and pace of this course is equivalent to a first-year college physics course for students in physical science and engineering. Students should have taken a year of calculus or be concurrently enrolled in calculus. Students will prepare to take the AP Physics C: Mechanics exam and the AP Physics C: Electricity and Magnetism exam. AP Physics C students will explore these topics through extensive problem solving, laboratory experience, and peer collaboration.



Chemistry Requirement Options**Chemistry in the Earth System – A & B****Grade Level:** 10,11,12**Credits:** 2 Credits**Prerequisite:** Physical Science or Physics 9**Required Materials:** Calculator**NCAA Core Course**

**Description:** Chemistry in the Earth System is a course that focuses on the study of the composition of matter, changes in matter, and interactions of matter. These topics are integrated into the study of how human activities interact and impact earth systems. Students will explore these topics by asking questions, defining problems, developing and using models, planning and carrying out laboratory investigations, and analyzing and interpreting data.

**AP Chemistry – A, B, & C****Grade Level:** 10,11,12**Credits:** SHS: 3 Credits**College:** Possible college credit with a score of 3 or better on the National AP Exam**Prerequisite:** Physics or AP Physics I**Required Materials:** Calculator**NCAA Core Course**

**Description:** AP Chemistry is a fast-paced course designed to be the equivalent of a first-year college chemistry course. Successful students in AP Chemistry will be self-motivated, have a desire to challenge themselves, and have been successful in previous math and science courses. In this course, students will develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. Successful completion of the AP Chemistry course will prepare students to take the AP Chemistry Exam.

Biology Requirement Options**Biology: The Living Earth – A & B****Grade Level:** 11,12**Credits:** 2 Credits**Prerequisite:** Chemistry or AP Chemistry**NCAA Core Course**

**Description:** Biology: The Living Earth, is a two-quarter class that begins to explore the intertwining of both living and nonliving components of Earth's ecosystems. The course journeys into evolution and heredity by using evidence based on both biotic and abiotic systems. Topics will range from large scale systems to small scale systems. At the cellular level, the focus is on structure and function of cells, DNA, and molecules. The course will connect ecosystem dynamics with Earth systems while drawing connections to human impacts on climate change. Building on knowledge and skills learned in physics and chemistry of the Earth, students will engage in a variety of lab and group activities to utilize scientific skills and practices.

**AP Biology – A, B, & C****Grade Level:** 11,12**Credits:** SHS: 3 Credits**College:** Possible college credit with a score of 3 or better on the National AP Exam**Prerequisite:** Chemistry or AP Chemistry**NCAA Core Course**

**Description:** AP Biology is an introductory 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, and interactions. This course is recommended for students currently on an accelerated track and/or students who have been highly successful in a previous biology course. Successful completion of the AP Biology course will prepare students to take the AP Biology Exam.



# Social Studies

Shakopee School Board's Graduation Requirements policy requires 4 years' equivalent (8 credits) of Social Studies courses are taken by students during their high school career. Additional elective courses offered by this department can be found within the Academy sections of this guide.

Grade	Required Social Studies Courses	
	General	Accelerated
9	Human Geography	AP Human Geography
10	Modern U.S. History	AP U.S. History
11	Modern World History	AP World History
12	* See Grade 12 requirements and options on page 23.	

## Grade 9 Requirement Options

### Human Geography – A & B

**Grade Level:** 9

**Credits:** 2 Credits

**Prerequisite:** None

**NCAA Core Course**

**Description:** This course investigates current problems associated with an unequal world. Each topic will encourage students to dig deep into causes and potential for solutions to several of the world's most pressing concerns. Some of the problems to be investigated include population shifts, limited and depleting resources, contribution of stateless nations to civil wars, and humans' interactions and damage to the physical environment.

### AP Human Geography – A & B

**Grade Level:** 9

**Credits:** SHS: 2 Credits

**College:** Possible college credit with a score of 3 or better on the National AP Exam

**Prerequisite:** None

**NCAA Core Course**

**Description:** The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. Successful completion of the AP Human Geography course will prepare students to take the AP Human Geography Exam and give students tools to be successful in future AP courses.



## Grade 10 Requirement Options

### Modern U.S. History – A & B

**Grade Level:** 10

**Credits:** 2 Credits

**Prerequisite:** None

**NCAA Core Course**

**Description:** This course examines the quintessential people, ideas and events in twentieth and twenty-first century America. Fall semester will start with our country's emergence onto the global stage studying topics such as imperialism and the two world wars. Spring semester will focus on our country's most recent history with emphasis on the major movements and trends at the turn of the 21st century and beyond. Special attention will be placed on the development of cultural and critical literacy as well as connecting our country's past to our present.

### AP U.S. History – A, B, & C

**Grade Level:** 10

**Credits:** SHS: 3 Credits

**College:** Possible college credit with a score of 3 or better on the National AP Exam.

**Prerequisite:** None

**NCAA Core Course**

**Description:** 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. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places. Generally, successful students in this class demonstrate strong reading and writing skills as well as a strong work ethic to manage the workload. Successful completion of the AP U.S. History course will prepare students to take the AP U.S. History Exam.



Grade 11 Requirement Options

**Modern World History – A & B**

**Grade Level:** 11  
**Credits:** 2 Credits  
**Prerequisite:** None  
**NCAA Core Course**

**Description:** This course explores the defining watershed moments and events of modern world history. Each topic will explore the roots and origins of the historical event via our skills-based approach using research, inquiry, relevance, and cultural literacy. Beginning with the study of early humans and concluding with globalization, the main focus will be to connect students to a greater understanding of current events and give clarity to their ever-changing lives.

**AP World History – A & B**

**Grade Level:** 11  
**Credits:** SHS: 2 Credits



**College:** Possible college credit with a score of 3 or better on the National AP Exam.

**Prerequisite:** None  
**NCAA Core Course**

**Description:** The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. Generally, successful students in this class demonstrate strong reading and writing skills as well as a strong work ethic to manage the workload. Successful completion of the AP World History course will prepare students to take the AP World History Exam.

Grade 12 Requirement Options

(Required Economics Option – Choose 1)

**U.S. Political & Economic Systems**

**Grade Level:** 12  
**Credits:** 1 Credit  
**Prerequisite:** None  
**NCAA Core Course**

**Description:** This course is designed to give students an overview of U.S. political and economic systems. Students will understand basic economic concepts, analyze micro and macroeconomic principles in real life situations, understand the interactions of government and economy, and develop an active citizenship. The course will include analysis of historical development of economic and political philosophy; the interaction of global, domestic, and local economies; monetary and fiscal policy; and the organization of the federal government system.

Grade 12 Requirement Options – Continued

**CIS: Principles of Microeconomics – A & B (APEC 1101)**



**Grade Level:** 12  
**Credits:** SHS: 2 Credits  
**College:** 4 semester credits from the University of Minnesota/Twin Cities

**Prerequisite:** None  
**Eligibility:** Must meet the University of Minnesota’s course admission requirement: Must be a junior or senior in the top 20% of the class or instructor approval.  
**NCAA Core Course**

**Description:** Students who meet the requirements of qualification for the College in the Schools program will receive four semester credits in Economics from the University of Minnesota upon successful completion of this course. The main goal and focus of this course will be the issue of scarcity (the battle between unlimited wants versus limited resources). This beginning exploration of economic issues will consider the impact and role of government on current economic issues. Students will be required to write two major papers that explore the individual role in the overall global community.

Required Elective Options

(1 credit minimum required, more than 1 course can be taken for elective credit)

**CIS: American Democracy in a Changing World – A & B (POL 1001)**



**Grade Level:** 11, 12  
**Credits:** SHS: 2 Credits  
**College:** 4 Semester credits from the University of Minnesota/Twin Cities

**Prerequisite:** None  
**Eligibility:** Junior or Senior that meets ONE of the University of Minnesota’s course admission requirements:

- Cumulative GPA in recent social science courses above 3.25; OR
- Top 20% of your High School class; OR
- Demonstrate strength in the necessary reading and writing skills

**NCAA Core Course**

**Description:** This course is articulated with the University of Minnesota Department of Political Science. Students who successfully complete it will receive four semester credits from the University of Minnesota in Political Science. The areas of emphasis will include principles, organization, processes, and functions of government; the interplay of political forces in the United States; and American budgetary and economic systems.

Required Elective Options – (Cont.)**CIS: Introduction to Psychology – A & B  
(PSY 1001)****Grade Level:** 11,12**Credits:** SHS: 2 Credits**College:** 4 Semester credits from the University of Minnesota/Twin Cities**Prerequisite:** Biology and/or Psychology recommended**Eligibility:** Must meet the University of Minnesota's course admission requirement: Must be a junior or senior in the top 20% of the class or instructor approval.**NCAA Core Course**

**Description:** This course is articulated with the University of Minnesota Department of Psychology and students who successfully complete it will earn four semester credits from the University of Minnesota in Psychology. This rigorous hybrid course, intended for college-bound students, includes online lectures by U of M professors who specialize in each subfield of psychology (personality, learning, social and biological psychology, etc.). Course content will introduce students to the scientific study of human behavior and mental processes and emphasis will be placed on research methods used in psychology. Students will investigate and evaluate how research is applied to solve practical, "real-world" problems. Critical thinking and independent reading of challenging material will be emphasized throughout the course. Internet access (at home or at school) is required throughout the semester to view online lectures, complete online quizzes, and access class activities and handouts.

**Environmental Ethics****Grade Level:** 10,11,12**Credits:** 1 Credit**Prerequisite:** None**Required Materials:** Parent permission to drive to off-campus locations.**Graduation Requirement:** Social Studies

**Description:** This class is designed to attract the student who has a passion for the environment and to provide that student with a system of thought, through the application of the scientific method, service learning, ethics and classical logic, to evaluate human interaction with the environment. In a real-world approach, this course will include partnerships with the Minnesota Department of Natural Resources and Trout Unlimited. The classroom environment will include the Eagle Creek River System. The mission of this course is to assist students in developing an understanding of the direct footprint humans leave on the natural world and to explore methods for diminishing the impact of humans on the environment.

**Humanities – Social Studies****Grade Level:** 11,12**Credits:** 1 Credit**Prerequisite:** None**NCAA Core Course****Note:** Students taking this class must also sign up for Humanities-English

**Description:** Humanities is designed to use a holistic approach to education. Humanities foster understanding of how subjects parallel, using history, art, literature, religion, music, politics, and society to make connections between the past and the present, between the diverse world cultures and you. As a team-taught course between the Social Studies and English Departments, Humanities is intended to prepare juniors and seniors with knowledge and skills necessary to succeed in rigorous academic environments. Students will be expected to write four to five compositions, work on grammatical concepts, expand their knowledge base, think analytically, prepare presentations, and excel in class discussions. This course will be taught as a two-hour block, and each student who successfully completes the course will receive both a Social Studies and an English credit.

Required Elective Options – (Cont.)**Intercultural Studies****Grade Level:** 11,12**Credits:** 1 Credit**Prerequisite:** None**NCAA Core Course**

**Description:** You will study and analyze culture, race, and ethnicity through multiple perspectives. You will build your capacity to interact effectively in a culturally diverse society through understanding your own cultural orientation and how it impacts your view of commonalities and ability to manage the dynamics of differences. There will be a strong emphasis on authentic learning experiences that will incorporate voice and choice through inquiry and collaboration of relevant issues.

**Psychology****Grade Level:** 11,12**Credits:** 1 Credit - Elective**Prerequisite:** None**Graduation Requirement:** Social Studies**NCAA Core Course**

**Description:** Psychology is the study of the human mind and behavior. Throughout our course we examine what motivates or drives humans to think and behave the way they do. We will study a series of unethical experiments, examine the human brain, and engage in discussions of modern psychological issues. Through our course you will improve your self-awareness, as well as gain the analytical and soft skills that will empower you to better understand, communicate and relate to other people in your life; the insights you gain from psychology help us put our lives into perspective and self-actualize.

**Sociology****Grade Level:** 11,12**Credits:** 1 Credit - Elective**Prerequisite:** None**Graduation Requirement:** Social Studies**NCAA Core Course**

**Description:** Regardless of career choice, taking a Sociology course will not only increase understanding of yourself and the family, friends, neighbors, and future employers that surround you, but explain dynamics that occur between the two. With the understanding that society impacts every stage of your personal and professional life, why not figure out and embrace all it has to offer. The examination of culture, mass media, gender roles, deviant behavior, and social and economic stratification will encourage reflection on this society, giving you power to make positive decisions that will impact you throughout life. Using analysis of movies, mass media class discussions, and thought-provoking projects you will be empowered with a new understanding of yourself and the complex society that surrounds you.



# ***GLOBAL ELECTIVES***



# Global Electives

Infographic  
Key



Fine Arts Credit



College Credit Opportunity



CAPS Program

## GLOmies

**Grade Level:** 12

**Credits:** 1 Credit

**Application:** [Bit.ly/GLOmiesSHS](http://bit.ly/GLOmiesSHS)

**Description:** This course is for students interested in real-life, hands-on leadership experiences within the high school. These leadership opportunities will occur through working with the school's special education program in an effort to increase inclusion. Students will: plan, prepare, and facilitate whole-group activities for students within the special education program; serve as a Teacher's Aide in one of the center-based special education classrooms; assist in the planning and implementation of whole school engagement activities (Inclusion Week, After School GLOmies, Person First Campaign, Spread the Word to End the Word Day, GLOmies Track & Field Day, etc.). Interested students will be self-starters and passionate about inclusion.

*Enrollment requires approval from instructors and is based on teacher recommendation.*

## GLOmies P.E.

**Grade Level:** 11,12

**Credits:** 1 Credit

**Prerequisite:** Recommended Physical Education Graduation Requirements Completed.

**\*\* This course does NOT meet a physical education graduation requirement for students serving in a mentorship role \*\***

**Application:** [bit.ly/UPEappSHS](http://bit.ly/UPEappSHS)

**Description:** GLOmies PE allows students to develop leadership and service skills, while assisting their peers in meeting physical education goals. In this global elective course, students will assist cognitively and physically disabled students as they participate in physical education. Students will help plan and implement adapted physical education activities and assist students throughout. This course is intended to provide a leadership and mentorship opportunity for students. Enrollment in this course will be by application and based on instructor approval.

## Team & Individual Sports 1

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Recommended Physical Education Graduation Requirements Completed.

**\*\* DOES NOT MEET GRADUATION REQUIREMENT \*\***

**Description:** Students will learn to play and compete in many team and some individual sports. 80% of the course will be participation in the various sports and 20% devoted to fitness. This course is for those who like to participate.

## Team & Individual Sports 2

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Must have Physical Education Graduation Requirement Completed.

**\*\* DOES NOT MEET GRADUATION REQUIREMENT \*\***

**Description:** This course is for those who like to participate and compete in sports. Competitive spirit is a must. 80% of the course will be competing daily in various team and individual sports and students are graded on the results of the competition. 20% of the course is devoted to fitness.

**Fine Arts Courses**  
(2 Credits Required for Graduation)

**ADDITIONAL FINE ARTS COURSES ARE LISTED WITH THE FINE ARTS SYMBOL IN THE ACADEMY SECTION**

Music**9<sup>th</sup> Grade Band – A & B****Grade Level:** 9**Credits:** 2 Credit**Prerequisite:** Band 8 or Instructor approval**Required Materials:** **1)** Up to \$75 rental fee for students using school-owned instruments. **2)** Each member must have a black dress shirt and pants or a non-casual black dress. **3)** A lesson book for your instrument (can be the same as 9<sup>th</sup> grade book to start the year)**Description:** Each band student is required to take seven private lessons each semester. Mandatory performances include scheduled band concerts each semester, and a variety of pep bands. These major performances and events are planned well in advance so that students and families can plan accordingly. Band members have the opportunity to take one major trip and several smaller trips throughout their high school career. These trips are optional.

There are two equal 9th grade bands: Thole 9th Grade Band and O'Dowd 9th Grade Band. Placement in each band is determined by instrumentation. Music performed in each ensemble represents compositions in a variety of styles. All facets of the high school band program are designed to develop instrumental playing ability and foster greater appreciation and understanding of all music. Band students acquire technical skill on their instrument, achieve excellence through performance, and have fun through musical learning and group activities. There is no enrollment limit for the 9th grade bands. Students can start an instrument in high school but must consult the director for further information in the spring and sign-up for summer lessons before enrolling in band.

**Cantare – A & B****Grade Level:** 9**Credits:** 2 Credits**Prerequisite:** None**Required Materials:** Concert Black – Formal attire and shoes**NCAA Core Course****Description:** Cantare is open to any student who wishes to sing. Individual voices are heard each fall for range and voice part placement. Cantare emphasizes musical and vocal development and the enjoyment of singing. Students will explore a broad range of literature from many musical genres that include pop, Broadway musical theater, classical, and music from around the world. Cantare performs in multiple concerts per year.

*\*Students may also participate in Jazz Band and/or Chamber Choir, which meet before/after school and are offered as extra-curricular activities. Students must try out for these activities in the fall.\**

Music – (Cont.)**Symphonic Band – A & B****Grade Level:** 10**Credits:** 2 Credits**Prerequisite:** None**Required Materials:** **1)** Up to \$75 rental fee for students using school-owned instruments. **2)** Each member must have a black dress shirt and pants or a non-casual black dress. **3)** A lesson book for your instrument (can be the same as 9<sup>th</sup> grade book to start the year)**Description:** Each band student is required to take seven private lessons each semester. Mandatory performances include scheduled band concerts each semester, large group contest, and a variety of pep bands. These major performances and events are planned well in advance so that students and families can plan accordingly. Band members have the opportunity to take one major trip and several smaller trips throughout their high school career. These trips are optional.

There are two equal 10th grade bands: Symphonic Band and Shakopee Winds. Placement in each band is determined by instrumentation. Music performed in each ensemble represents compositions in a variety of styles. All facets of the high school band program are designed to develop instrumental playing ability and foster greater appreciation and understanding of all music. Band students acquire technical skill on their instrument, achieve excellence through performance, and have fun through musical learning and group activities. There is no enrollment limit for Symphonic Band. Students can start an instrument in high school but must consult the director for further information in the spring and sign-up for summer lessons before enrolling in band.

**Saber Choir – A & B****Grade Level:** 10,11,12**Credits:** 2 Credits**Prerequisite:** None**Required Materials:** Tenor/Bass – Black shoes, black socks, black pants. Soprano/Alto – Black shoes, nylons if desired**Description:** Saber Choir is a mixed voice ensemble that emphasizes musical and vocal development and the enjoyment of singing. Students will explore a broad range of literature from many musical genres that include pop, Broadway musical theater, classical, and music from around the world. Saber Choir represents the school at MSHSL contests as well as community and school performances. Course work includes sight-reading, ear training, proper voice care, voice lessons, and working cooperatively with others through the development of tone quality and blend.

*\*Students may also participate in Jazz Band and/or Chamber Choir, which meet before/after school and are offered as extra-curricular activities. Students must try out for these activities in the fall.\**

Music – (Cont.)**Concert Band – A & B****Grade Level:** 11,12**Credits:** 2 Credits**Prerequisite:** None**Required Materials:** **1)** Up to \$75 rental fee for students using school-owned instruments. **2)** Each member must have a black dress shirt and pants or a non-casual black dress. **3)** A lesson book for your instrument (can be the same as previous book to start the year)**Description:** Each band student is required to take seven private lessons each semester. Mandatory performances include scheduled band concerts each semester, large group contest, and a variety of pep bands. These major performances and events are planned well in advance so that students and families can plan accordingly. Band members have the opportunity to take one major trip and several smaller trips throughout their high school career. These trips are optional. Music performed in this ensemble represents compositions in a variety of styles. All facets of the high school band program are designed to develop instrumental playing ability and foster greater appreciation and understanding of all music. Band students acquire technical skill on their instrument, achieve excellence through performance, and have fun through musical learning and group activities. There is no enrollment limit for Concert Band. Students can start an instrument in high school but must consult the director for further information in the spring and sign-up for summer lessons before enrolling in band.**Wind Ensemble – A & B****Grade Level:** 11,12**Credits:** 2 Credits**Prerequisite:** None**Required Materials:** **1)** Up to \$75 rental fee for students using school-owned instruments. **2)** Each member must have a black dress shirt and pants or a non-casual black dress. **3)** A lesson book for your instrument (can be the same as previous book to start the year) **4)** Black Dress Shoes **5)** Tuxedo Shirt (Men Only)**Description:** Wind Ensemble is made up of primarily juniors and seniors, although advanced sophomores may have the chance to audition based on instrumentation needs. Each band student is required to take seven private lessons each semester. Mandatory performances include scheduled band concerts each semester and a variety of pep band events. These major performances and events are scheduled well in advance so that students and families can plan accordingly. Band members have the opportunity to take one major trip and several smaller trips throughout their high school career. These trips are optional.

Music performed in this ensemble represents compositions in a variety of styles. All facets of the high school band program are designed to develop instrumental playing ability and foster greater appreciation and understanding of all music. Band students acquire technical skill on their instrument, achieve excellence through performance and have fun through musical learning and group activities. Wind Ensemble is an auditioned group. All students must audition the previous spring to be considered for the Wind Ensemble.

Music – (Cont.)**Concert Choir – A & B****Grade Level:** 11,12**Credits:** 2 Credits**Prerequisite:** Instructor Approval**Required Materials:** Tenor/Bass – Black shoes, black socks, black pants. Soprano/Alto – Black shoes, nylons if desired**Description:** This mixed voice choral group is selected through a non-threatening audition process. It is designed for the more experienced singer who demonstrates a high degree of self-motivation to achieve the top performance level possible. Concert Choir represents the school in state/conference contests, MSHSL contests, tours, festivals, community/school events, and concerts. Students will explore a broad range of literature from many musical genres that include pop, Broadway musical theater, classical, and music from around the world. Course work includes sight-reading, ear training, proper voice care, voice lessons, and working cooperatively to develop tone quality and blend on a variety of repertoire. There are two audition times: 1) the previous Spring for all registered students and returning choir members; and 2) the first week of school for students who have transferred or registered late. See a choir instructor if you are interested in membership.*\*Students may also participate in Jazz Band and/or Chamber Choir, which meet before/after school and are offered as extra-curricular activities. Students must try out for these activities in the fall.\****Bel Canto Choir – A & B****Grade Level:** 11,12**Credits:** 2 Credits**Prerequisite:** Instructor Approval**Required Materials:** Black shoes, nylons if desired**Description:** This treble voice choral group is selected through a non-threatening audition process. It is designed for the more experienced singer who demonstrates a high degree of self-motivation to achieve the top performance level possible. Bel Canto represents the school in state/conference contests, MSHSL contests, tours, festivals, community/school events, and concerts. Students will explore a broad range of literature from many musical genres that include pop, Broadway musical theater, classical, and music from around the world. Course work includes sight-reading, ear training, proper voice care, voice lessons, and working cooperatively to develop tone quality and blend on a variety of repertoire. There are two audition times: 1) the previous Spring for all registered students and returning choir members; and 2) the first week of school for students who have transferred or registered late. See a choir instructor if you are interested in membership.*\*Students may also participate in Jazz Band and/or Chamber Choir, which meet before/after school and are offered as extra-curricular activities. Students must try out for these activities in the fall.\**

Theatre**Theatre****Grade Level:** 9,10,11,12**Credits:** 1 Credit**Prerequisite:** None**NCAA Core Course**

**Description:** Designed to examine the history of theatre and the development of character roles for the stage. A variety of topics and issues will be addressed and incorporated into the study of the craft of performance including: movement, character development, voice, and the audition process. Students will perform dramatic monologue(s) and dialogue(s). A critical review of a professional live performance will be required of each student. Coursework based on the National Core Arts Council standards for theatre.

Visual Arts**Ceramics 1****Grade Level:** 9,10,11,12**Credits:** 1 Credit**Prerequisite:** None

**Description:** All clay! All the time! Do you enjoy working with your hands? Do you like making art you can use? If so, Ceramics is the right class for you. Students in this class learn basic hand-building and wheel-throwing techniques to create unique and functional pottery. In addition to hands-on projects, students will study the historical significance of pottery, build creativity skills, provide and receive feedback, and reflect on and revise their work.

**Ceramics 2****Grade Level:** 10,11,12**Credits:** 1 Credit**Prerequisite:** Ceramics 1

**Description:** Wanted: Students with a passion for clay and desire to challenge themselves. Ceramics 2 will challenge you to create clay works you didn't know you could make. Students will explore the medium of clay as a method to communicate form and function. Functional and sculptural clay artwork will be created through hand building and wheel throwing. Student choice is vital in this studio-based class and will be shown in the student's choice of theme, clay technique, and finishing options.

**Practical Art****Grade Level:** 9,10,11,12**Credits:** 1 Credit**Prerequisite:** None

**Description:** Do you love creating things by hand? Have you dreamed of making your own crafts? Then this is the class for you! Students in this class will learn and practice a variety of artmaking techniques such as, macramé, glass art, hand sewing, and paper crafting. Each project made will serve a functional purpose. Students will improve their artistic abilities through the creation of at least five projects that they can take home and put to use. Students will study and appreciate the historical and cultural significance of the crafts while working to develop their art language and build artistic skills.

Visual Arts – (Cont.)**Advanced Art Studio****Grade Level:** 11,12**Credits:** SHS: 1 Credit**Prerequisite:** Photography, Drawing, Painting, and Printmaking, multiple courses within the same art medium, or instructor permission.

**Description:** Do you want to dig deeper into a single art material? Do you have more ideas for paintings, photographs, design, or pottery? In this class you will have time, support, structure with lots of choice and studio space to pursue your artmaking. Students will complete assignments in their choice of art material or to focus on one medium. Regardless of medium, students will be required to show a fundamental competence and range of understanding in visual concerns (and methods). Each student will demonstrate progress over time by developing a body of work and organizing a portfolio. Some students may utilize this course to develop work for an AP portfolio, in which case you would take AP Art and Design A & B immediately after this course, required in the same year (by application and instructor approval).

**Students who plan to submit an AP portfolio (by application and instructor approval), will be required to complete additional pieces, as well as enroll in the AP Art & Design course for the remainder of the school year.**

**AP Art & Design– A & B****Grade Level:** 11,12**Credits:** SHS: 2 Credits**College:** Possible college credit with a score of 3 or higher on a portfolio of work submitted to the College Board.

**Prerequisite:** Advanced Art Studio (must register in same academic year) **This is an independent study course, required application and instructor approval (instructor will have the application).**

# World Languages

While world language is not required for graduation, many colleges and universities require a minimum of two to four years of the same world language taken during grades 9-12. Please consult with your counselor to ensure course selections match post-secondary planning.

## GERMAN

### German 1 – A & B

**Grade Level:** 9,10,11,12

**Credits:** 2 Credits

**Prerequisite:** None

**NCAA Core Course**

**Description:** This course introduces students to the German language, its structure, pronunciation, and the cultures of Germany, Switzerland, and Austria. We will learn lots of new words and phrases and carry on simple conversations talking about ourselves and our world: family, friends, school, hobbies and activities. The emphasis of German 1 is gaining basic speaking and listening comprehension skills, but we will also read and write short dialogs, create skits, and complete other hands-on projects using our new language skills. German will be spoken whenever possible. This class requires a high degree of motivation and memory skills, along with good study habits. Good English grammar skills are a plus. German I is a demanding course and will prepare the student to take German II.

### German 2 – A & B

**Grade Level:** 9,10,11,12

**Credits:** 2 Credits

**Prerequisite:** German 1 or by placement test

**NCAA Core Course**

**Description:** This course continues the development of the student's conversational skills in German. We will improve our communicative abilities by learning all the basic "building blocks" of grammar, and increase our vocabulary through reading, listening and writing. We will also learn more about the geography and culture of the German-speaking world, and learn how to express our own ideas, feelings and reactions. Dialogs, skits, videos and hands-on projects continue to be a major focus.

### German 3 – A & B

**Grade Level:** 10,11,12

**Credits:** 2 Credits

**Prerequisite:** German 2 or by placement test

**NCAA Core Course**

**Description:** German 3 is the course where it all "comes together." Students will learn new ways to combine the basic "building blocks" of grammar that they've already learned, which will enable them to build toward creative self-expression. We will further expand our speaking, listening, reading and writing skills through role-playing, fairy tales, poetry, videos, short fiction readings, and current topics of interest for German youth. By the end of German 3, we will have developed our language skills to the extent that we will be able to travel as tourists through German-speaking countries!

### German 4 – A & B

**Grade Level:** 10,11,12

**Credits:** 2 Credits

**Prerequisite:** German 3 or by placement test

**NCAA Core Course**

**Description:** Wollt ihr einmal in Deutschland wohnen? In diesem Kurs lernen wir viel über die deutsche Kulturgeschichte, wir verbessern unser Deutsch, und wir sehen das moderne Leben in Deutschland durch die Augen eines neuen Charakters.

Students will learn to apply advanced grammar and develop the ability to "fine-tune" their self-expression in German to the point that they could live or study in Germany. We will also take a closer look at Germany's rich cultural history: art, literature, music, politics, and everyday lifestyles from the early beginnings of civilization to the present day, including current events on the Internet.

## JAPANESE

**Japanese 1 – A & B****Grade Level:** 9,10,11,12**Credits:** 2 Credits**Prerequisite:** None**NCAA Core Course**

**Description:** Students in Japanese 1 will be introduced to the foundation of Japanese language and culture. Students will learn to read and write using Japanese characters, while developing speaking and listening skills. Students will be able to describe themselves, family members and friends in simple sentences as well as their daily activities in the past, present and future tenses. Cultural topics including Japanese family, housing, school, sports, food, geography, arts, and annual events and festivals will be introduced and explored through films, projects, activities and presentations.

**Japanese 2 – A & B****Grade Level:** 9,10,11,12**Credits:** 2 Credits**Prerequisite:** Japanese 1 or by placement test**NCAA Core Course**

**Description:** Students in Japanese 2 will be introduced to a variety of verb forms to produce more complex sentences while developing the basic four skills of language; reading, listening, speaking and writing. Students will continue to build more vocabulary and sentence structures that enable them to describe their daily activities, physical features and clothing, state their opinions, make requests, etc. Students will explore deeper into Japanese culture and learn about the Japanese history, Japanese cities and their tourist attractions, physical geography, popular culture, and current events.

**Japanese 3 – A & B****Grade Level:** 10,11,12**Credits:** 2 Credits**Prerequisite:** Japanese 2 or by placement test**NCAA Core Course**

**Description:** Students in Japanese 3 will be able to use polite speech and casual speech comfortably in different situations and improve their proficiency in all four skills of language. Students will learn additional kanji characters and use them in their reading and writing. Students will build more vocabulary and sentence structures that enable them to describe their health conditions and experiences, compare and contrast multiple items, state opinions, etc. Students will explore deeper into Japanese culture and learn about visual arts, gift-giving custom, seasonal events, popular culture, current events, etc.

**Japanese 4 – A & B****Grade Level:** 10,11,12**Credits:** 2 Credits**Prerequisite:** Japanese 3 or by placement test**NCAA Core Course**

**Description:** The Japanese 4 course is intended for students who are interested in continuing with the development of their proficiency skills in Japanese. All four language skills (reading, writing, listening and speaking) will be emphasized in greater depth through authentic learning experiences including history, literature, cultural and social issues, and community involvement. Students in this course will explore honorific/humble expressions, passive/causative expressions, transitive/intransitive expressions through a variety of culturally relevant activities and develop their intercultural critical thinking. Students will also learn additional kanji characters to become a more proficient reader and writer.

## SPANISH

**Spanish 1 – A & B****Grade Level:** 9,10,11,12**Credits:** 2 Credits**Prerequisite:** None**NCAA Core Course**

**Description:** Designed exclusively for students with no prior exposure to Spanish, Spanish I focuses on the four basic skills: listening, speaking, reading, and writing. Relevant aspects of Hispanic culture are introduced. Students explore the culture and language through projects, music, and games. Upon completion of this course, students will be able to express basic information about themselves and others. This class requires a high degree of motivation, memorization skills, and good study habits.

**Spanish 2 – A & B****Grade Level:** 9,10,11,12**Credits:** 2 Credits**Prerequisite:** Spanish 1 or by placement test**NCAA Core Course**

**Description:** Designed for students who have successfully completed Spanish I, Spanish II focuses on the progressive development of the four basic skills: listening, speaking, reading, and writing. The class focuses on the mastery of common grammatical structures, expressing past experiences, and extending vocabulary. Students explore the culture and language through projects, music, and games. It is recommended students take this course the year following Spanish 1.

**Spanish 3 – A & B****Grade Level:** 9,10,11,12**Credits:** 2 Credits**Prerequisite:** Spanish 2 or by placement test**NCAA Core Course**

**Description:** Spanish III curriculum is a faster-paced expansion of the four skills acquired in Spanish I and II. Communication is heavily stressed; students will be expected to learn new verb tenses, and more vocabulary. The focus of this class is to develop more fluency in self-expression and comprehension. We will study Hispanic culture and geography to point out cultural differences, possible cultural misunderstandings, stereotypes, and the importance of language in our multicultural society. 90% of the class is conducted in Spanish.

**Spanish 4 – A & B****Grade Level:** 10,11,12**Credits:** 2 Credits**Prerequisite:** Spanish 3 or by placement test**NCAA Core Course**

**Description:** This course is intended for those students who are interested in continuing the development of their proficiency skills in Spanish. All four language skills (reading, writing, listening, and speaking) will be emphasized in greater depth. Activities to improve these skills will include studying Hispanic literature, history, cultural and social issues.

**CIS: Spanish 1003 – A & B****Grade Level:** 10,11,12**Credits/Length:** SHS: 2.5 Credits / 2 Terms**College:** 5 semester credits for the year from the University of Minnesota/Twin Cities**Prerequisite:** Spanish 3, Spanish for Spanish Speakers 3, or instructor approval.**Eligibility:** Must meet the University of Minnesota's course admission requirements: Must be a junior or senior ranked in the top 30% of the class.**NCAA Core Course**

**Description:** This College in the Schools course is designed and articulated with the University of Minnesota. Students who successfully complete this course with a C- or better, will receive five U of MN credits. The course is intended for students who are looking for additional challenges in the fourth year of Spanish. Emphasis is on proficiency in reading, writing, speaking, and listening based on the intermediate level of the national standards. Students will utilize their Spanish skills through the study of history, art, culture, and literature of Spanish-speaking countries.

**CIS: Spanish 1004 – A & B****Grade Level:** 10,11,12**Credits/Length:** SHS: 2.5 Credits / 2 Terms**College:** 5 semester credits for the year from the University of Minnesota/Twin Cities**Prerequisite:** CIS: Spanish 1003 or Instructor Permission**Eligibility:** Must meet the University of Minnesota's course admission requirements: Must be a junior or senior ranked in the top 30% of the class.**NCAA Core Course**

**Description:** This College in the Schools course is designed and articulated with the University of Minnesota. Students who successfully complete this course with a C- or better, will receive five U of MN credits. The course is intended for students who have successfully completed C.I.S. 1003 and are looking for additional challenges in the fifth year of Spanish. Emphasis is on proficiency in reading, writing, speaking, and listening based on the intermediate level of the national standards. Students will utilize their Spanish skills through the study of history, art, culture, and literature of Spanish-speaking countries.



**Advanced Spanish for Careers – A & B****Grade Level:** 11,12**Credits:** 2 Credits**Prerequisite:** One of the following: Spanish 4, CIS Spanish 1003, CIS Spanish 1004, or CIS Spanish 1003/1004***NCAA Core Course***

**Description:** This course is intended for those students who are interested in continuing the development of Spanish in an authentic, community-based course. We will explore the relevance of Spanish within the Academics model, discovering and applying our knowledge to meaningful activities and projects in our school and community. Topics and themes may include journalism and film studies, public health, environmental studies, human rights, and more. The capstone experience of this course will be a student-driven independent study that connects a student's learning within their Spanish experience to their community. This course is designed for students to dive deeper into Spanish through self-directed work.

**Spanish for Spanish Speakers 1 – A & B****Grade Level:** 9,10,11,12**Credits:** 2 Credits**Prerequisite:** This class is for students who speak Spanish at home as a primary or secondary language. Students should be conversational in Spanish, but not necessarily able to read and write.***NCAA Core Course***

**Description:** This course is designed for students that speak Spanish conversationally or fluently and want to improve their Spanish skills. The class will be taught exclusively in Spanish, but it is not assumed that students know academic Spanish; academic vocabulary will be taught. The emphasis will be placed on developing reading, writing, spelling, and grammar. The objective is to support the student with their linguistic skills and provide them with the necessary academic skills to use written and spoken language in a more sophisticated way, both in Spanish and by transferring these skills to English. The class will include literature from Spanish speaking countries, cultural analysis and activities to define and understand how cultures intersect.

Este curso ha sido diseñado para el estudiante que habla español y quiere mejorar sus habilidades lingüísticas. La clase será impartida estrictamente en español, pero no se supone que los alumnos entienden español académico. El énfasis será puesto en el desarrollo de las habilidades en la lectura, la redacción, la ortografía, y la gramática. El objetivo es el de proveer al estudiante con las habilidades académicas necesarias para manejar el lenguaje en el discurso escrito y oral, y para transmitir las habilidades lingüísticas a otras clases y lecturas en inglés. La clase enfocará en literatura de culturas hispanas y ofrecerá al estudiante la oportunidad de aprender sobre culturas hispanas por análisis cultural y un estudio de cómo y cuándo cruzan con otras culturas.

**Spanish for Spanish Speakers 2 – A & B****Grade Level:** 9,10,11,12**Credits:** 2 Credits**Prerequisite:** Spanish for Spanish Speakers 1 or by placement test  
***NCAA Core Course***

**Description:** This course is designed for the student who speaks Spanish conversationally or fluently and wants to improve their literacy and linguistic skills. The class will be taught strictly in Spanish, but it will include instruction of academic vocabulary. The emphasis will be placed on building on skills in reading, writing composition, grammar, and will present more complex literature. The objective of this course is to support students in developing the academic skills necessary to use more sophisticated language in both reading and speaking. The class will also build on a study of Hispanic culture, with an emphasis on analysis of the historical forces that influence the development of Hispanic countries and cultures, and the implications on today's culture.

Este curso ha sido diseñado por el estudiante que habla español y quiere mejorar sus habilidades lingüísticas. La clase será impartida estrictamente en español, pero va a incluir enseñanza de vocabulario y español académico. El énfasis será puesto en el mejoramiento de las habilidades necesarias para manejar el lenguaje más complejo y sofisticado en el discurso escrito y oral. La clase también aumentará el estudio de la cultura hispana, con análisis profundo de las fuerzas históricas que han desarrollado la cultura y los países hispanos y las implicaciones en la cultura de hoy.

**Spanish for Spanish Speakers 3 – A & B****Grade Level:** 9,10,11,12**Credits:** 2 Credits**Prerequisite:** Spanish for Spanish Speakers 2 or by placement test***NCAA Core Course***

**Description:** This class is intended for students who wish to improve their Spanish reading and writing skills through the interpretation of authentic Spanish literature. The class will be taught exclusively in Spanish. In this class students will read authentic literature and use it as the springboard for learning language, building verbal and written communication skills, developing literary analysis and critical thinking skills, and connecting students with their rich and diverse cultural heritage.

Esta clase está diseñada para estudiantes que desean mejorar la lectura y la composición en español leyendo e interpretando obras de la literatura auténtica de España y los países Hispanos. Americanos Los estudiantes tendrán que interpretar literature escribiéndola. Esta clase será enseñada totalmente en español. En esta clase los estudiantes leerán literature auténtica y usarán estas lecturas para aprender su idioma mayor así como para desarrollar sus habilidades de comunicación oral y escrita desarrollar sus habilidades en el análisis literario y el pensamiento crítico y conectar a los estudiantes con su diverso patrimonio cultural.

# Find Your Passion at Shakopee Schools

## “Academies of Shakopee”



### To Shakopee Students and Families:

Our mission is to prepare all students to be college and career ready. A critical aspect of this mission is providing an opportunity for you to explore and find your interest and passion areas. Shakopee High School has begun a multi-year implementation plan to organize elective courses into six academies: Arts & Communications, Business & Entrepreneurship, Engineering & Manufacturing, Health Science, Human Services, and Science & Technology. Academies are small learning communities of students and teachers who are organized around your specific area of interest. You will find yourself with other students who have similar aspirations and with teachers who can help you make meaningful connections to your plans for the future.

Each academy has a separate section with a divider which contains the logos, brand and a curriculum framework which outlines programs of study with current and potential future courses. **A program of study is a three-course sequence of an introductory, intermediate and advanced course to help you go deeper into a particular area.** The class of 2024 and beyond will be required to complete a program of study for graduation. This graduation requirement is only three credits and will ensure you explore one area more deeply while still maintaining a wide variety of choices in other areas. Please note the curriculum framework for each academy is near completion, but slight changes may still occur in course offerings. The diagram on the next page is intended to help you understand the framework.

Are you interested in learning more about areas such as publishing, arts, business, healthcare, public service, science, technology, and engineering? The next pages in the guide outline the variety of courses you can select from. **This should continue your journey towards discovering the types of courses or programs you might want to pursue in the post-secondary school of your choice and how they relate to future career paths.**

We hope you find the course titles and descriptions exciting and intriguing – the courses were designed to help you **FIND YOUR PASSION!**

## Overview of the Academies of Shakopee

### Arts & Communication

- Art Production and Management
- Media Production and Recording
- Mass Communications
- Creative Design

### Business & Entrepreneurship

- Accounting and Finance
- Entrepreneurship and Business Management
- Marketing and Sales
- Hospitality and Restaurant Management

### Engineering & Manufacturing

- Architecture and Construction
- Manufacturing and Fabrication Technologies
- Engineering and Design
- Transportation Technologies

### Health Sciences

- Biomedical
- Public Health
- Exercise Science
- Healthcare

### Human Services

- Teaching and Educational Services
- Social and Mental Health Services
- Public Service
- Law and Legal Services

### Science & Technology

- Computer Science
- Information Technology Solutions
- Renewable Energy and Electrical Systems
- Environmental Science

# How to Read Your Academy Curriculum Framework:

## Key Terms Defined

<b>Area of Interest</b>	Broad area of interests commonly used by universities and the Minnesota Department of Education as career clusters.
<b>Gateway Course</b>	A quarter length course that introduces each Area of Interest and is a requirement for 6 <sup>th</sup> and 7 <sup>th</sup> grade students at the middle level.
<b>Programs of Study</b>	A sequence of courses that increase in depth and complexity in a more focused program within an Area of Interest and directly relates to 2-yr and 4-yr post-secondary options and relevant career opportunities.
<b>Introductory Course</b>	The first course in a sequence of courses within a program of study. Typically, taken by 9 <sup>th</sup> or 10 <sup>th</sup> graders exploring academies.
<b>Intermediate Course</b>	The second course in a sequence of courses within a program of study. Typically taken by 10 <sup>th</sup> and 11 <sup>th</sup> graders within the academy.
<b>Advanced Course</b>	The third course in a sequence of courses within a program of study. These courses must include value added programming. Typically, taken by 11 <sup>th</sup> and 12 <sup>th</sup> graders within the academy.
<b>Academy Elective</b>	An elective course within an academy that builds on the programs of study and is available to students outside of the academy.
<b>Global Elective</b>	A course that is not embedded within an academy. Typically meets a post-secondary or graduation requirement (e.g. World Language, Fine Arts).
<b>CAPS Program</b>	A profession-based, immersion program for 11 <sup>th</sup> and 12 <sup>th</sup> grade students who attend class, with a Shakopee High School teacher, at an industry partner location, with an opportunity for a second-semester internship.

MIDDLE SCHOOL	HIGH SCHOOL			
Area of Interest Courses (Grades 6-8)	Program of Study	Introductory Courses	Intermediate Courses	Advanced Courses
<b>Area of Interest Gateway (Grade 7):</b> Think Tank  <b>Middle School Electives (Grades 7 &amp; 8):</b> Innovation Lab Money Doesn't Grow on Trees Teen Chef	Accounting and Finance	Program of Study	Accounting Finance and Investments	Advanced Business Seminar  Three Course Sequence
	Entrepreneurship and Business Management		Business Dynamics	
	Marketing and Sales		Marketing	
	Hospitality and Restaurant Management	Business Dynamics Culinary Arts 1	Hospitality Management Culinary Arts 2	
<b>Middle School Connection</b>	<b>Additional Academy Elective Courses:</b>	Baking & Pastry Business Technology Culinary Arts 3	Sports & Entertainment Marketing Social Media Marketing	
	<b>CAPS Program:</b>	 CAPS Business Administration and Management (Can substitute for the Advanced Course in any Business & Entrepreneurship Program of Study)		



## ARTS & COMMUNICATION

Arts & Communication fosters creativity, innovation, and expression to ensure well-rounded individuals who can apply those skills in a number of fields. Career fields include the performing arts, visual arts, design, communications, and publishing.



# Arts & Communication Academy



**Related Careers:** Art Directors, Curator, Stage Manager, Museum and Exhibit Manager, Director, Performer (Musician, Actor), Music Directors and Composers, Audio and Video Technician, Sound Engineer, Producers and Directors, Editors, Writers and Authors, Public Relations and Fundraising Manager, News and Print Media, Journalist, Multimedia Artists and Animators, Interior Designers, Artist and Art Marketer, Graphic Designers

MIDDLE SCHOOL	HIGH SCHOOL			
Area of Interest Courses (Grades 6-8)	Program of Study	Introductory Courses	Intermediate Courses	Advanced Courses
<b>Area of Interest Gateway (Grade 6):</b>  Heroes  <b>Middle School Electives (Grades 7 &amp; 8):</b>  Digital Art  Pencils, Paints, and Prints  Drop a Beat  House of Style  Saber Animation & Video  Sculpt It	Arts Production and Management	Elements of Media Production	Behind the Scenes: Production and Technical Design	Live Production
	Media Production and Recording		Music and Sound Recording	Live Production
	Mass Communications		Broadcast and Video Production	Creative Professional
	Creative Design	Graphic Design 1	Graphic Design 2	Creative Professional
	Additional Academy Elective Courses:	Design Fundamentals	Photography  Drawing, Painting, Printmaking	
CAPS Program:	Acting Rock Band Essentials Interior Design Public Speaking Fashion Merchandising and Design Creative Writing			
	Shakopee CAPS Creative Media (Can substitute for the Advanced Course in any Arts & Communication Program of Study)			

Students in the Class of 2024 & Beyond will have to complete a 3 Course Program of Study


 Infographic  
Key


Fine Arts Credit



College Credit Opportunity



CAPS Program

### Introductory Courses

#### Elements of Media Production

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Arts Production and Management or Media Production and Recording


**Description:** Elements of Media Production will provide students with a foundation in film, television, photography, and music production. Students will explore video, sound and music editing, camera setup, broadcast studio setup and sound and music recording, and lighting.

#### Design Fundamentals

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Creative Design


**Description:** Are you looking to explore the world of art? Do you want to try out a variety of art materials? This class provides students with an introduction to a wide variety of art mediums and historical perspectives. An introduction to concepts of the studio classroom with guidance and structure. Techniques explored may include drawing, painting, printmaking, sculpture, photography, and fiber arts. In addition to hands-on projects the students will work to develop their art language, build artistic skills, offer written and oral critiques, and reflect on their work. This class is the prerequisite for Draw, Paint, Printmaking and Photography.

#### Graphic Design 1

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Creative Design


**Description:** Communicating through art! Whether it be to advertise or sell, inform, persuade, or explain the graphic arts communicates with a targeted audience. The course utilizes the Adobe Creative Suite (Photoshop, Illustrator, and others) and will be examined as the primary tools used to plan and execute graphically designed visual artwork. Students study the design principles, color theory, composition, and spatial relationships. Projects may include image collage, typography, building a logo design, digital collage, and personal capstone project.

This class builds skills that are applicable to the real world in the visual arts industry; the focus will be on finding creative visual solutions to communication problems using technical skills. In addition to hands on projects, the students will work to develop their art language, build artistic skills, provide/receive feedback, and reflect on and revise their work.

### Intermediate Courses

#### Behind the Scenes: Production & Technical Design

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Elements of Media Production

**Program of Study:** Arts Production and Management


**Description:** This course is designed to expose students to auditorium and performance space systems. Students will study and create lighting plots and technical design while working in the classroom, stage, scene-shop, catwalk, rigging, etc. This will be a hands-on class where students will recognize deadlines as they apply to performances and production dates throughout the school year.

#### Broadcast and Video Production

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Elements of Media Production

**Program of Study:** Media Production and Recording


**Description:** Broadcast and Video Production will have students experiment with a variety of film projects and styles. Students will explore the processes behind film and television production to create short films and packages in and out of the studio. Students will utilize video editing, sound and music editing, camera setup, broadcast studio setup, and lighting.

#### Music and Sound Recording

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Elements of Media Production

**Program of Study:** Media Production and Recording


**Description:** Students will learn the history and techniques of live sound production and multi-tracking, to effectively use microphones and MIDI devices, and to edit sound using a Digital Audio Workstation (DAW) to create high-quality recordings on their computers. Students will create several of their own original works and analyze popular music and recordings from the past 100 years. While portions of this class are geared to those with musical experience, no musical experience or talent is necessary to succeed, and there are non-musical options for all major projects.

#### Investigative Journalism (formerly Writing for Media)

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Elements of Media Production

**Program of Study:** Mass Communications


**Description:** If you love writing and are wondering how you can make it your career, this is the class for you. We will write for multiple purposes and audiences, experimenting with social media, press releases, personal blogs, and more. Students will learn to vary style, tone, and voice to achieve the goal of each task, and familiarize themselves with following style guides and the constantly evolving conventions of modern media.

Intermediate Courses – (Cont.)**Graphic Design 2****Grade Level:** 10,11,12**Credits:** 1 Credit**Prerequisite:** Digital or Graphic Design 1**Program of Study:** Creative Design

**Description:** Are you looking to build your skills in creative problem solving? Do you want to improve your ability to communicate visually in this visual world? This course will continue to build on the foundational graphic design skills using the Adobe Creative Cloud (CC) and gain exposure to additional applications (Illustrator, Photoshop & InDesign). Graphic Design foundations may include visual hierarchy, color theory, typography, illustration, layout design and image editing. Projects include goals in advertising to inform and persuade in social media and print advertising, layout design, package design and a personal capstone project. In addition to hands on projects, the students will work to develop their art language, build artistic skills, provide/receive feedback, and reflect on and revise their work.

**Drawing, Painting, and Printmaking****Grade Level:** 10,11,12**Credits:** 1 Credit**Prerequisite:** Design Fundamentals**Program of Study:** Creative Design

**Description:** Oodles of doodles! A Plethora of Paint! Piles of Prints! Is your notebook full of drawings? Is your room filled with paintings and prints? If so, this class is the place for you. In Draw, Paint, and Printmaking, students learn and practice a variety of two-dimensional techniques and mediums, such as acrylic painting, colored pencils, pen and ink, and reduction printing. In addition to hands-on projects, students will work to develop their art language, build creativity skills, provide/receive feedback, and reflect on and revise their work.

Intermediate Courses – (Cont.)**Photography****Grade Level:** 10,11,12**Credits:** 1 Credit**Prerequisite:** Digital or Graphic Design 1 or Design Fundamentals**Required Materials:** Camera equipment is available to check out, but students may provide their own camera equipment.**Program of Study:** Creative Design

**Description:** Do you want to learn more about the art of creating photographs? The ability to control all of the settings on a Digital SLR camera is a very powerful tool that allows for lots of creative flexibility in photography. Learning how to use an SLR camera will take you beyond the snapshot! This class is designed as a three-part learning course: technical camera tools, technical software (Adobe Photoshop & Lightroom) for editing and processing photographic work, and creative composition projects. With each unit, you will learn something new from all three areas to improve your photography skills. In addition to photographing in natural light, you will have experiences with ambient light in our lighting studio. Students will work to develop their art language, build artistic skills, understand historical influences, provide, and receive feedback, and reflect on and revise their work.

## Arts & Communication

### Highlighted Courses offered Online AND In Person

#### Advanced Courses

##### Live Production

**Grade Level:** 11,12

**Credits:** 1 Credit

**Prerequisite:** One of the following: Music and Sound Recording, Broadcast and Video Production, or Behind the Scenes: Production & Technical Design

**Program of Study:** Arts Production and Management or Media Production and Recording



**Description:** Teams of students will design and facilitate all aspects of live events, which may include broadcasts for the student body, production of shows in various theater spaces, and school or community events. Tasks may include but are not limited to video, lighting, sound, performance, stage management, site management, set-up (staging & equipment), and production. Students will engage in community partnership with experts in a chosen field of study.

##### Creative Professional

**Grade Level:** 11,12

**Credits:** 1 Credit

**Prerequisite:** One of the following: Music and Sound Recording, Broadcast and Video Production, Media Messaging and Design, Digital or Graphic Design 2, Photography, or Drawing, Painting, and Printmaking

**Program of Study:** Media Production and Recording, Mass Communications, or Creative Design



**Description:** In this course, you will fill the role of designer, photographer, artist, writer, sound engineer, musician, videographer and more. Add your talent to team projects such as advertising campaigns, magazine layouts, music videos or albums, art installations, original films and documentaries, murals, and beyond.

These authentic experiences will guide students through creative collaboration with classmates and industry professionals. Students will utilize project management tools and develop professional and technical skills while practicing for real-world industry environments.

#### Advanced Courses – (Cont.)

##### Shakopee CAPS Creative Media

**Grade Level:** 11,12

**Credits/Length:** SHS: 4 Credits / 2 Terms

**College:** 3 semester credits from Hennepin Technical College

**Prerequisite:** Intermediate Course in an Arts & Communication Program of Study or an Advanced Course in another Academy

**Schedule:** 1<sup>st</sup> Semester only (Blocks 1 and 2)

**Location:** Shakopee Mdewakanton Sioux Community Marketing

**Eligibility:** Entrance to CAPS is based on a completed application and course registration. All applications are due at the close of registration. Hennepin Technical College has a separate application once enrolled in CAPS. See your counselor for any questions regarding the application process. Please use the link below to view application.

**Application:** [bit.ly/CAPSapp23](https://bit.ly/CAPSapp23)

**Description:** Shakopee CAPS Creative Media is ideal for students who are interested in developing the professional and technical skills required to pursue a career in creative services, graphic design, written communications, digital marketing, or traditional media. This program will educate students in design methods, theory, professional communication, and creative problem-solving utilized in the industry today. Students will create visual concepts and learn how those concepts are perceived, interpreted, and communicated.

Students will be fully immersed at our leading business partner, the Shakopee Mdewakanton Sioux Community (SMSC), where they will gain insight to the inner workings of the creative media department of a self-sustaining community and organization. Students will create a wide array of digital, print, and communication pieces in a professional-based learning environment. This will provide opportunities to collaborate with mentors and business clients on a variety of media projects where students will develop their professional skills. Additionally, students have the opportunity to gain Intro to Graphic Design Credits through Hennepin Technical College while working on projects with SMSC. The program will be led by a creative educator and supported by diverse professionals visiting the classroom, career presentations from professionals, shadowing experience with SMSC and volunteer experience. Students may learn various degrees of Dakota culture, including history, traditions, and language. Students will deliver real products to their clients, create a professional portfolio that illustrates their creative talent, and explore career opportunities in creative media.

##### Shakopee CAPS Creative Media Internship

**Grade Level:** 11,12

**Credits/Length:** SHS: 2 Credits / 1 Term

**College:** 2 Semester Credits from Hennepin Technical College

**Prerequisite:** Shakopee CAPS Creative Media – Semester 1

**Schedule:** 3<sup>rd</sup> Quarter only (Block 1 and 2)

**Location:** Various internship locations in Shakopee area

**Eligibility:** Acceptance into an internship will depend on student's application and interview. Students are NOT guaranteed placement into an internship.

**Description:** The Shakopee CAPS Creative Media Internship will give students direct experience working in the field of digital design. Students will gain invaluable professional skills working alongside graphic design and business professionals. A variety of internships are available; students will be able to pursue internships that most interest them. All students will apply and interview for these competitively placed positions. Students will create first-hand with design professionals. Students who have participated in internships show a higher chance of completing college and with less debt. Come get a start on your future and develop your competitive edge.



Arts & Communication  
Highlighted Courses offered Online AND In Person

Academy Elective Courses

**Acting**

**Grade Level:** 10,11,12  
**Credits:** 1 Credit  
**Prerequisite:** Theatre



**Description:** Students will continue at an advanced level to examine the history of theatre and include development of character roles for the stage. This course will survey historical aspects of theatre, including Greek and Shakespearean studies through Contemporary styles of performance and stage work. Students will focus more on acting skills, interpretation of character, and studying script. Students will journal personal reflections of various in-class individual and group performances. A critical review of a professional live performance will be required in this class. An end project will be a capstone or theatre performance before an audience of peers. Coursework based on the National Core Arts Council standards for theatre.

**Creative Writing**

**Grade Level:** 10,11,12  
**Credits:** 1 Credit  
**Prerequisite:** None  
**NCAA Core Course**



**Description:** Creative Writing is designed for students who enjoy creative self-expression through writing. Works of established authors will be discussed and evaluated. A variety of writing styles will be examined. Students will concentrate on the tools and techniques of writing: characterization, setting, and plot. Students will write three major creative pieces and some minor works.

**Fashion Merchandising & Design**

**Grade Level:** 9,10,11,12  
**Credits:** 1 Credit  
**Prerequisite:** None



**Description:** Interested in the world of fashion? This is your opportunity to explore the concepts of buying and selling clothing in a retail setting as well as explore the creative, fashion design process. You will learn how to use the elements and principles of design to create eye-appealing styles. As an important part of merchandising and design, you will learn how to construct and sew clothing and apply those skills to create a garment of your choice.

**Interior Design**

**Grade Level:** 9,10,11,12  
**Credits:** 1 Credit  
**Prerequisite:** None



**Description:** When you walk into a room, do you imagine a new design? Do you want to re-create the space in your own way? In Interior Design I, you will learn the basics of designing spaces for the interior and exterior of homes. This course will emphasize designing and drawing floor plans, types of furniture and furniture layout, window treatments, wall coverings, the history of housing, and the elements and principles of design. These skills will guide students to creatively and knowledgeably design rooms. Students will create floor plans and presentation boards that reflect their creativity as an interior designer.

Academy Elective Courses – (Cont.)

**Public Speaking**

**Grade Level:** 10,11,12  
**Credits:** 1 Credit  
**Prerequisite:** None  
**NCAA Core Course**

**Description:** Public Speaking is an introductory course combining communication theory with practical speaking experiences. Students will learn how to plan, prepare, organize, outline, and deliver a speech. A variety of speaking experiences of varying lengths are required. Some types of speeches may include: values, career, demonstration, storytelling, oral interpretation, informative, persuasive, debate, and impromptu. This course will help students be successful with real-life experiences and in preparation for the required college public speaking course.

**Rock Band Essentials**

**Grade Level:** 10,11,12  
**Credits:** 1 Credit  
**Prerequisite:** None



**Description:** Do you want to learn about the music industry? Rock Band Essentials is the first step in your journey. Students will benefit from unique hands-on instruction that incorporates learning basic chords and progressions, rock beats, bass lines, vocals, and songwriting. Study will include, but not be limited to digital drums, keyboards, and guitars. In this course, students will form a band and learn about the difficult but rewarding process of bringing together a group of individuals into a rock band.



## BUSINESS & ENTREPRENEURSHIP

Business & Entrepreneurship offers students industry relevant experiences that will allow students creative platforms to produce ideas and products that propel the growth of local, state, national, and the global economy. Career fields include marketing, sales, finance, hospitality and tourism, management, and entrepreneurship.



# Business & Entrepreneurship Courses



**Related Careers:** Accountant, Bookkeeper, Actuary, Insurance Underwriters, Loan Officer, Financial Planner, Tax Preparer, Venture Capitalist, Small Business Owner, Entrepreneur, Business Analysts, Office Manager, Supply Chain Manager, Hotel Management, Event Planner, Tour Operator, Food and Beverage Manager, Executive Chef, Sous Chef, Restaurant Owner, Market Research Analysts, Recruiters, Social Media Marketing Manager, Sale Representatives & Retail Managers, Fundraiser, Media Buyer

MIDDLE SCHOOL	HIGH SCHOOL			
Area of Interest Courses (Grades 6-8)	Program of Study	Introductory Courses	Intermediate Courses	Advanced Courses
<b>Area of Interest Gateway (Grade 7):</b> Think Tank  <b>Middle School Electives (Grades 7 &amp; 8):</b> Innovation Lab Money Doesn't Grow on Trees Teen Chef	Accounting and Finance	Business Dynamics	Accounting  Finance and Investments	Advanced Business Seminar
	Entrepreneurship and Business Management		Management and Leadership  Entrepreneurship	
	Marketing and Sales		Marketing	
	Hospitality and Restaurant Management	Business Dynamics  Culinary Arts 1	Hospitality Management  Culinary Arts 2	
	Additional Academy Elective Courses:	Baking & Pastry Business Technology Culinary Arts 3	Sports & Entertainment Marketing Social Media Marketing	
	CAPS Program:	 CAPS Business Administration and Management (Can substitute for the Advanced Course in any Business & Entrepreneurship Program of Study)		

Students in the Class of 2024 & Beyond will have to complete a 3 Course Program of Study

Infographic  
Key



Fine Arts Credit



College Credit Opportunity



CAPS Program

### Introductory Courses

#### **Business Dynamics**

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Accounting and Finance, Entrepreneurship and Business Management, Hospitality and Restaurant Management, Marketing and Sales

**Description:** Amazon knows... Nike knows...Mark Zuckerberg knows...how to turn passion into profit! Uncover business secrets and learn the skills necessary to succeed in today's dynamic business environment. This course exposes you to the business cornerstones of marketing, entrepreneurship, finance, management, and more. Students will participate in hands-on activities and have the opportunity to put concepts and skills into practice by competing at local, state, and national levels. Begin your journey to business success today!

#### **Culinary Arts 1**

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Hospitality and Restaurant Management

**Description:** If you are passionate about food and are considering a career in the culinary field, this course will help you develop the professional skills to be successful in the food & lodging industry. You will be immersed in hands-on labs and lessons to build your professional culinary skill set. You will master the fundamental techniques on how to make sauces, stocks, soups, breakfast foods and sandwiches. We will also explore nutrition, kitchen basics, food service equipment and safety and sanitation. This course is the first level of the ProStart® Program which is an industry-based program that prepares students for careers in the restaurant and foodservice industry.

### Intermediate Courses

#### **Culinary Arts 2**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Culinary Arts 1

**Program of Study:** Hospitality and Restaurant Management

**Description:** The Culinary Arts 2 curriculum provides a continued opportunity for students to acquire comprehensive knowledge of the food service industry. Students will be immersed in hands-on labs and lessons to advance their professional culinary skill set. Students will master the advanced techniques on how to make global cuisine, breakfast foods & sandwiches, salads & garnishes, and meat/seafood dishes. Students will apply nutritional principles to food preparation and storage, investigate marketing strategies and develop menus, and strengthen their business and math skills.

*This course is the second level of the ProStart® Program which is an industry-based program that prepares students for careers in the restaurant and food service industry. Optional: Students are encouraged to find employment in the field in order to achieve the 400 hours (and two exams) required to earn the ProStart certificate.*

#### **Accounting – A & B**

**Grade Level:** 10,11,12

**Credits:** SHS: 2 Credits

**College:** Students can meet the requirements for college credit from Normandale Community College in this course. Please see your instructor or academy counselor for details.

**Prerequisite:** Business Dynamics

**Required Materials:** Calculator

**Program of Study:** Accounting and Finance

**Description:** Accounting is the language of business, and many post-secondary institutions require this knowledge in business degree programs. This course will prepare students 1) who need a foundation for studying business and accounting at the post-secondary level; 2) who desire careers in related business fields for which some accounting knowledge and application is needed; or 3) who desire vocational preparation for an accounting career. This course is highly recommended for students who are interested in being a part of the business world in any capacity. Accounting will teach students how to apply accounting theory to typical business transactions. You will learn accounting procedures for starting a business, creating financial statements, and completing an accounting cycle for a service business organized as a sole proprietorship. Daily use of hands-on learning using web-based applications and Excel will take place. No matter what types of businesses rise and fall, there will always be a need for accountants and this class will only make you more marketable. Recommended this course be taken in 11<sup>th</sup> or 12<sup>th</sup> grade.



Business & Entrepreneurship  
Highlighted Courses offered Online AND In Person

Intermediate Courses – (Cont.)

**Finance and Investments**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Business Dynamics

**Program of Study:** Accounting and Finance

**Description:** The next best thing to a "money-making machine" ...this class is designed to equip students with the tools and knowledge necessary for understanding corporate finance and building wealth! This course introduces the fundamentals of the financial industry including an emphasis on a wide variety of real-world situations. Financial markets, securities, mutual funds, futures, real estate, and other investment vehicles will be analyzed in preparation for the student to create a hands-on personal investment strategy and portfolio. If you put dollars in solid and thoughtful investments today, how much would you accumulate for your future? Join the class and learn how to make time and money work for you.

**Management & Leadership**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Business Dynamics

**Program of Study:** Entrepreneurship and Business Management

**Description:** Management and Leadership will explore a variety of management strategies that will help you lead and influence others. It will provide business management concepts and principles in a realistic, investigative, and enriching manner. This course is designed to give students an understanding of how to communicate in the workforce, learn to make decisions, deal with conflict, and other management issues and current trends in the world of business. You will gain an understanding of how businesses use tools and structures to work together and operate.

**Entrepreneurship**

**Grade Level:** 10,11,12

**Credits:** SHS: 1 Credit

**College:** Students can meet the requirements for college credit from Normandale Community College in this course. Please see your instructor or academy counselor for details.

**Prerequisite:** Recommended - Business Dynamics

**Program of Study:** Entrepreneurship and Business Management

**Description:** This course will engage students in the exciting process of starting your own business. We will learn many of the aspects needed to begin a new business venture, including recognizing opportunity, finding your market, funding and operating a new business, and managing to maximize profitability. If you are willing to take on the challenge of running your own business, come learn the skills needed to turn your business dreams into a reality. If being your own boss is your goal, we can help give you the tools! This course is an intermediate course in the Entrepreneurship program of study within the Academy of Business and Entrepreneurship.



Intermediate Courses – (Cont.)

**Hospitality Management**

**Grade Level:** 10,11,12

**Credits:** SHS: 1 Credit

**Prerequisite:** Business Dynamics or Culinary Arts 1

**Program of Study:** Hospitality and Restaurant Management

**Description:** The Hospitality Management course will introduce students to the world's largest industry that includes: lodging, travel and tourism, recreation, amusements, attractions, resorts, event planning, and food beverage service. You will learn how geography, economics, and cultures affect this industry around the world. The course offers insights into the hospitality industry that will enhance the student's chances for gaining employment in hospitality and other service-related industries through authentic projects, collaboration with businesses and other student-based projects.

**Marketing**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Recommended - Business Dynamics

**Program of Study:** Marketing and Sales

**Description:** What do Lululemon, Apple, Adidas and other top brands have in common? They are all able to maximize the success and profile of their business by generating excitement and hype around their products.

Whether developing a new energy drink or offering a promotion for the cell phone you cannot live without, marketing focuses on satisfying customer needs and wants while turning a profit. As we learn the "art of the sale," students engage in the marketing and promotion of products and learn how to increase profits through the development of a 21st century advertising campaign. Students will use print, video, and online media resources to create promotional campaigns to demonstrate the core marketing principles of Product, Place, Price and Promotion. Students will explore how companies brand their products and services to compete in a global marketplace.

Business & Entrepreneurship  
Highlighted Courses offered Online AND In Person

Advanced Courses

**Advanced Business Seminar**

**Grade Level:** 11,12

**Credits:** 1 Credit

**Prerequisite:** Business Dynamics or Culinary Arts 1 AND one of the following: Accounting, Finance and Investments, Management and Leadership, Entrepreneurship, Marketing, Hospitality Management, or Culinary Arts 2

**Description:** Advanced Business Seminar students will work in collaborative teams to complete an authentic project for a community/business partner. Using project management skills, students will utilize skills and knowledge gained from introductory and intermediate classes to develop quality deliverables. In addition, students will hone their professional skills and create an executive portfolio for future use in school and career opportunities.

**Shakopee CAPS Business Administration & Management**



**Grade Level:** 11,12

**Credits/Length:** SHS: 4 Credits / 2 Terms

**College:** 6 semester credits from Normandale Community College

**Schedule:** 1<sup>st</sup> Semester only (Blocks 1 and 2)

**Location:** Valleyfair and SMSC

**Prerequisite:** Intermediate Course from a Business and Entrepreneurship Program of Study or Advanced Course in another Academy.

**Eligibility:** Entrance to CAPS is based on a completed application and course registration. All applications are due at the close of registration. Normandale Community College has a separate application once enrolled in CAPS. See your counselor for any questions regarding the application process. Please use the link below to view application.

**Application:** [bit.ly/CAPSapp23](http://bit.ly/CAPSapp23)

**Description:** Shakopee CAPS Business Administration & Management program provides a dynamic introduction to business with unparalleled access to Valleyfair and the Shakopee Mdewakanton Sioux Community Gaming Enterprise. Students will partner with leading experts from these regional business centers to learn the principles of business and management. The hands-on, project driven curriculum will include marketing, sales, hotel and restaurant management, event planning, human resources training and development, and leadership and management skills.

**Shakopee CAPS Business Administration & Management Internship**



**Grade Level:** 11,12

**Credits/Length:** SHS: 2 Credits / 1 Term

**College:** 2 semester credits from Normandale Community College

**Schedule:** 3<sup>rd</sup> Quarter only (Block 1 and 2)

**Location:** Various internship locations in Shakopee area

**Prerequisite:** Shakopee CAPS Business Administration & Management

**Eligibility:** Acceptance into an internship will depend on student's application and interview. Students are NOT guaranteed placement into an internship.

**Description:** The Shakopee CAPS Business Administration & Management Internship will give students direct experience working in the dynamic field of business. Students will gain invaluable skills working alongside business and management professionals. A variety of internships are available; students will be able to pursue internships that most interest them. All students will apply and interview for these competitively placed positions. Through authentic work, students will learn first-hand the high expectations of the industry. Students who have participated in internships show a higher chance of completing college and with less debt. Come get a start on your future and develop your competitive edge.

Academy Elective Courses

**Baking & Pastry**



**Grade Level:** 10,11,12

**Credits:** SHS: 1 Credit

**College:** Students can meet the requirements for college credit in this course. Please see instructor or your counselor for details.

**Prerequisite:** None

**Description:** This course will take the skills you learned in previous culinary courses to a whole new level. You will explore various baking methods and learn techniques for making products like strawberry shortcake, pastry, pie, pretzels, pizza and cinnamon rolls. You will be immersed in several authentic learning projects throughout the course, producing products both in the school cafe and in restaurants of our industry partners. A significant portion of the course is devoted to developing cake decorating skills through projects such as Cupcake Wars & the Ultimate Cake competition. For those whose hearts are set on creating the sweeter things in life, Baking and Pastry is the class for you.

**Business Technology**

**Grade Level:** 9,10,11,12

**Credits:** SHS: 1 Credit

**Prerequisite:** None

**Description:** Business Technology will prepare students for jobs in today's technology-oriented business world. Students will bring their computer application skills to the next level using word processing programs, spreadsheets, charting applications, desktop publishing, and more. They will also learn the appropriate times to choose one platform over another. Students will be exposed to many other technology tools in order to create videos, podcasts, memes, comics, and infographics.

Students will work in collaborative groups and learn communication, human relation, and decision-making skills. They will perform office procedures and tasks while producing quality work with advanced features of business software applications. Skills learned in this course will be useful for students while furthering their education or working on a job.

Academy Elective Courses – (Cont.)

**Culinary Arts 3**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Culinary Arts 2

**Description:** This course is the third level of the ProStart® Program which is a three-semester industry-based program that prepares students for careers in the restaurant and foodservice industry. Students receive career-oriented instruction in both classic and modern culinary arts with an emphasis on the skills needed to succeed in the industry and postsecondary education. Hands-on experiences, skills-based competitions, event planning and collaboration with professionals will be the norm in order to practice and hone culinary skills.

*\*Upon the completion of this course, optional certifications (such as Serv-Safe and National Prostart Certificate of Achievement) are available. Certifications may include additional fees, exams and completing up to 400 work hours in the foodservice industry.*

**Social Media Marketing**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Marketing

**Description:** Do you love social media and digital communications? Did you know that social media management has become a sought-after skill in all industries? As of January 2018, there were thousands of job openings for social media and digital brand specialists.

Social Media Marketing focuses on these skills – the tools, strategies, and processes companies use to communicate digitally with customers. It also focuses on the skills needed to personalize one’s own digital brand – which are valued by colleges and employers. By the end of the course, you will have demonstrated an understanding of how social media and digital communication play a role in a company’s bottom line and have your own personal digital brand that will impress colleges, recruiters, and employers. Industry certification opportunities are available.

**Sports & Entertainment Marketing**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Description:** This course is designed to provide students with the skills necessary to apply marketing concepts to the sports and entertainment industry. Students will have the opportunity to develop and design their own sports or entertainment franchise along with learning about marketing college, amateur, and professional sports; endorsements; and legal issues for sports and entertainment. This will include the entertainment and recreation industries as well. As these fields are explored, a variety of applications will be used, including word processing, spreadsheets with charts/graphs, database, drawing, Podcast recording, and telecommunications.



## ENGINEERING & MANUFACTURING

Engineering and Manufacturing is a high tech, high skill, high demand area that will help students generate their own jobs and opportunities. Career fields include manufacturing, robotics, transportation, design, electronics, architecture, construction, and engineering.



# Engineering & Manufacturing



**Related Careers:** Aircraft Mechanic, Aeronautic Engineer, Architect, Building Engineer, Civil Engineer, CNC Machinist, Computer Control Programmer/Operator, Design Electrical Engineer, Engineer, Electrician, Entrepreneur, HVAC Controller, Industrial Engineer, Machinists, Manufacturing Mechanical Engineer, Process Engineer, Packaging Engineer, Process Engineer, Robot Technician, Quality Engineer, Structural Engineer, Tool and Die Maker, Welder

MIDDLE SCHOOL	HIGH SCHOOL			
Area of Interest Courses (Grades 6-8)	Program of Study	Introductory Courses	Intermediate Courses	Advanced Courses
<b>Area of Interest Gateway (Grade 7):</b>  Teen Engineer  <b>Middle School Electives (Grades 7 &amp; 8):</b>  GTT: Architecture (PLTW)  GTT: Design and Manufacturing (PLTW)  GTT: Robotics (PLTW)	<b>Architecture and Construction</b>	Manufacturing and Construction	Construction  Civil Engineering & Architecture (PLTW**)	Construction Management and Development
	<b>Manufacturing and Fabrication Technologies</b>		Welding and Metal Fabrication  Wood Production Technologies	Manufacturing Design and Development
	<b>Engineering and Design</b>	<b>Intro to Engineering Design (PLTW**)</b>	<b>Principles of Engineering (PLTW**)</b>  Computer Integrated Manufacturing (PLTW**)  Aerospace Engineering (PLTW**)  Civil Engineering & Architecture (PLTW**)	<b>Engineering Design &amp; Development (PLTW**)</b>
	<b>Transportation Technologies</b>	Small Gas Engines	Marine, Motorsport, and Outdoor Power Equipment	Super High Mileage Vehicle
	<b>Additional Academy Elective Courses:</b>	Advanced Welding – Design & Fabrication Advanced Woodworking – Cabinetry & Furniture		
	<b>CAPS Program:</b>	 Shakopee CAPS Engineering & Manufacturing (Can substitute for the Advanced Course in any Engineering & Manufacturing Program of Study)		

\*\*Project Lead the Way © affiliated course | pltw.org



### Introductory Courses

#### **Intro to Engineering Design (IED) - A & B (PLTW)**



**Grade Level:** 9,10,11,12

**Credits:** SHS: 2 Credits

**College:** Students can meet the requirements for college credit in this course. Please see instructor or your counselor for details.

**Prerequisite:** None

**Required Materials:** 2 - 2" 3-ring binder

**Program of Study:** Engineering and Design

**Description:** Introduction to Engineering Design (IED) is the starting point for students who are interested in becoming an engineer. See if you have what it takes to create the next great invention. In this class, you will learn how to efficiently design solutions to problems, create the solution on the computer and compete against other groups to see whose solution is the best. If you are looking at getting a head start on an engineering degree this class is a great opportunity, not only do you learn valuable skills but also the opportunity to earn 3 credits from St. Cloud State University.

*If students pass the course at 85% average for the year and the college final at 70% they are eligible for 3 college credits. This course also has weighted grades towards student's GPA.*

#### **Manufacturing and Construction**



**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Architecture and Construction, Manufacturing and Fabrication Technologies

**Description:** Do you like making and creating things? Do you want to learn how to do hands-on work with tools? If so, Manufacturing and Construction is the course for you. In this course, you will learn how to safely design and build fun projects with a variety of different materials and tools. This is the introductory course for the Manufacturing and Fabrication program of study and a great choice for students who are interested in woodworking, welding, plastics, construction or skilled trades. Begin your path to learning about the high-demand, hands-on careers of the future.

### Introductory Courses – (Cont.)



#### **Small Gas Engines**

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Transportation Technologies

**Description:** Have you ever wondered how an engine works? Have you thought about a career in the automotive, marine or power sport industries? Small Gas Engines is a great way to explore career options while learning the principles of how a small gas engine works. In this class you will learn about the principles of two-cycle and four-cycle small gas engines, the tools that are used to work on them, and how to disassemble and reassemble a working engine. An engine will be provided for you.

### Intermediate Courses

#### **Welding and Metal Fabrication**



**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Manufacturing and Construction (Formerly Intro to Manufacturing)

**Description:** Did you enjoy Manufacturing and Construction? Can you see yourself working in the lucrative and high demand fields of Metalworking and Welding? If so, Welding and Metal Fabrication is the course for you! Welding and Metal Fabrication introduces students to careers in the welding and metalworking industries. Students will learn to safely operate welding and metalworking equipment while building a variety of projects.

#### **Wood Production Technologies**



**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Manufacturing and Construction (Formerly Intro to Manufacturing)

**Program of Study:** Manufacturing and Fabrication Technologies

**Description:** Come learn the skills and techniques of woodworking and explore how artists and manufacturers must plan and manage their resources in order to produce a product. In this course, through hands-on experiences, you will be introduced to a variety of hand and power tools as you design and build with wood. Students will also apply manufacturing principles through production technologies, including the CNC router, lathe, and the laser engraver. Through this course, you will learn the principles needed for the growing, hands-on fields of manufacturing and the skilled trades.

Engineering & Manufacturing  
Highlighted Courses offered Online AND In Person

Intermediate Courses – (Cont.)

**Construction**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Manufacturing and Construction

**Program of Study:** Architecture and Construction



**Description:** Have you ever walked or driven by a new residential neighborhood, and asked yourself how these giant structures were being built? Construction 1 takes students through the basic steps needed for wood framed residential construction. Students will understand how carpenters and other trades people skillfully design, construct, install, and repair structures to comply with existing codes. Students will also read blueprints and specifications pertaining to standards and materials used in residential construction. Finally, students will form a small business, which will allow them opportunities to run a company from ordering to delivery, work with a client, and provide new construction to the community.

**Marine, Motorsport, & Outdoor Power Equipment**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Small Gas Engines

**Program of Study:** Transportation Technologies



**Description:** Marine, Motorsports, & Power Equipment focuses on transportation related systems apart from the internal combustion engine. The course covers: cooling and lubrication, basic electrical theory and troubleshooting, exhaust systems, brakes, wheels, tires, power transmission, steering, and suspension systems. It is meant to be a course that generally covers how most automotive & marine systems operate with a nod to engineering design as preparation for the following course in sequence: Super High Mile Vehicle. The course includes one or multiple hands-on projects. Current project is the restoration of a 1966 Ford Mustang, a project that is expected to last at least through the 2023-2024 academic year.

**Principles of Engineering (POE) - A & B (PLTW)**

**Grade Level:** 10,11,12

**Credits:** SHS: 2 Credits

**College:** Students can meet the requirements for college credit in this course. Please see instructor or your counselor for details.

**Prerequisite:** Recommended - Intro to Engineering Design (IED)

**Program of Study:** Engineering and Design



**Description:** Principles of Engineering (POE) is a course designed to take you further into the world of engineering by challenging your mind and building skills. Although not required, it is recommended that Introduction to Engineering (IED) is taken prior to this class, it helps to build a foundation to 3-D modeling, the design process, and many types of engineering terms and best practices. This hands-on course has students working on a variety of engineering projects including work with simple machines, bridge design, computer programming, statistical analysis, and robotics. Students are exposed to several engineering fields such as industrial design, civil engineering, and mechanical engineering. The activities in class are designed to have students work in groups and use modern technology to develop solutions for engineering problems.

*If students pass the course at 85% average for the year and the college final at 70% they are eligible for 3 college credits. This course also has weighted grades towards student's GPA.*

Intermediate Courses – (Cont.)

**Civil Engineering & Architecture (CEA) - A & B (PLTW)**

**Grade Level:** 10,11,12

**Credits:** SHS: 2 Credits

**College:** Students can meet the requirements for college credit in this course. Please see instructor or your counselor for details.

**Prerequisite:** Manufacturing and Construction or Intro to Engineering Design (IED)

**Program of Study:** Architecture and Construction



**Description:** Civil Engineering and Architecture (CEA) is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. Students will also get the opportunity to construct various models of structures using the 3-D Printer, and Laser Engraver. This course is completed with a capstone experience in which students work a real-world situation, along with help of professionals from the industry to come up with a solution that they then present to a team of engineers.

*If students pass the course at 85% average for the year and the college final at 70% they are eligible for 3 college credits. This course also has weighted grades towards student's GPA.*

**Aerospace Engineering (AE) - A & B (PLTW)**

**Grade Level:** 10,11,12

**Credits:** SHS: 2 Credits

**College:** Students can meet the requirements for college credit in this course. Please see instructor or your counselor for details.

**Prerequisite:** Recommended - Intro to Engineering Design (IED)

**NCAA Core Course**



**Description:** Aerospace Engineering propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software and explore robot systems through projects such as remotely operated vehicles.

*If students pass the course at 85% average for the year and the college final at 70% they are eligible for 3 college credits. This course also has weighted grades towards student's GPA.*

**Computer Integrated Manufacturing (CIM) - A & B (PLTW)**

**Grade Level:** 10,11,12

**Credits:** SHS: 2 Credits

**College:** Students can meet the requirements for college credit in this course. Please see instructor or counselor for details.

**Prerequisite:** Recommended - Intro to Engineering Design (IED)



**Description:** We are surrounded by products that have been designed and manufactured by people. Any product that is mass produced needs some help from robots, computer-controlled machinery, and the people that run, build, and program these machines. In Computer Integrated Manufacturing (CIM) you will get hands-on experience with using cutting edge manufacturing technology. You will achieve these skills: designing products in Autodesk Inventor that will be manufactured in our own lab, creating programs that machines and robots use to manufacture products, designing and building the machines used in manufacturing, and creating a flexible manufacturing system.

*If students pass the course at 85% average for the year and the college final at 70%, they are eligible for 3 college credits. This course also has weighted grades towards student's GPA.*

Engineering & Manufacturing  
Highlighted Courses offered Online AND In Person

Advanced Courses

**Engineering Design and Development (EDD)  
- A & B (PLTW)**



**Grade Level:** 11,12

**Credits:** SHS: 2 Credits

**College:** Students can meet the requirements for college credit in this course. Please see instructor or your counselor for details.

**Prerequisite:** Intro to Engineering Design AND one of the following: Principles of Engineering, Computer Integrated Manufacturing, Aerospace Engineering, or Civil Engineering and Architecture

**Program of Study:** Engineering and Design

**Description:** "Don't you hate it when..." is a common statement made by people who are constantly thinking of ways to improve products or situations. Engineering Design and Development (EDD) is the course that allows you to design a solution to a technical problem of your choosing. Now is your chance to eliminate one of the "Don't you hate it when..." statements of the world.

This course is an engineering course in which you will work in teams to research, design, and construct a solution to an open-ended engineering problem. You and your team will present and defend your solution to a panel of outside reviewers at the end of the semester.

Engineering Design and Development serves as the capstone course within the Project Lead The Way course sequence and allows you to apply all the skills and knowledge learned in the previous Project Lead The Way courses that you have taken, a minimum of two, during your high school career. This course will test your time management and team-work skills. Throughout this course you will find yourself working side by side with industry mentors and stakeholders to complete a prototype of a solution that your team has researched, designed, and created. This course offers the most real-world experience you can receive at a professional level. What a great thing to include on a resume or college application!

*If students pass the course at 85% average for the year and the college final at 70% they are eligible for 3 college credits. This course also has weighted grades towards student's GPA.*

**Super High Mileage Vehicle**

**Grade Level:** 11,12

**Credits:** 1 Credit

**Prerequisite:** Marine, Motorsport, and Outdoor Power Equipment

**Program of Study:** Transportation Technologies

**Description:** Would you like to attempt to break the world record for the highest fuel efficiency vehicle? This class follows the design, fabrication, and troubleshooting process to construct a fuel-efficient vehicle utilizing small engine power with the aid of community expert partnerships. Our class will then use this vehicle to compete with other schools throughout the state and the nation. If you are interested in engineering and the automotive field, this is a great class to combine technical and creative skills while you build your own race car.

Advanced Courses – (Cont.)

**Construction Management and  
Development – A & B**



**Grade Level:** 11,12

**Credits:** 2 Credits

**Prerequisite:** Construction or Civil Engineering & Architecture

**Program of Study:** Construction and Architecture

**Description:** Construction Management and Development is the capstone course for the Architecture and Construction program of study in which students will be involved in a variety of construction related aspects. Students who take this course will see the entire building process for multiple construction projects. They will learn management skills such as: record keeping, job-site management, use of subcontractors and scheduling. Students will learn soft skills for managing people through communication, critical thinking, collaboration, and character. Specific computer software programs will be used for construction project scheduling that will allow students to obtain industry standard experiences. Finally, students will work on projects with business and industry professionals in order to gain real-world experience that is transferable to any of the construction related industries.

**Manufacturing Design and Development**

**Grade Level:** 11,12

**Credits:** 1 Credits

**Prerequisite:** Welding and Metal Fabrication or Wood Production Technologies

**Program of Study:** Manufacturing and Fabrication Technologies

**Description:** Manufacturing Design & Development is the capstone course for the Manufacturing and Fabrication Technologies program of study in which students will experience the manufacturing process and the life cycle of a product from concept to completion. Working with business and industry professionals, students will gain real world experience designing, managing, and fabricating a product to fulfill a customer's request. Students will learn management skills such as: record keeping, facility management, material acquisition and scheduling. Students will learn soft skills for managing people through communication, critical thinking, collaboration, and character. Students will gain real world experiences that are transferable to any manufacturing industry.

Engineering & Manufacturing  
Highlighted Courses offered Online AND In Person

Advanced Courses – (Cont.)

**Shakopee CAPS Engineering & Manufacturing**



**Grade Level:** 11,12

**Credits:** SHS: 4 Credits/2 Quarters

**College:** 3 semester credits from St. Cloud State University

**Prerequisite:** Intermediate Course in an Engineering & Manufacturing OR Science & Technology Program of Study OR Advanced Course in another Academy.

**Eligibility:** Entrance to CAPS is based on a completed application and course registration. All applications are due at the close of registration. St. Cloud State University has a separate application once enrolled in CAPS. See your counselor for any questions regarding the application process. Please use the link below to view application.

**Application:** [bit.ly/CAPSapp23](http://bit.ly/CAPSapp23)

**Description:** Shakopee CAPS Engineering and Manufacturing program fully immerses students at Bayer in Shakopee providing unprecedented access to real-world experiences in the dynamic fields of Engineering & Manufacturing. Partnering with experienced professionals, students will advance their understanding of engineering and discrete manufacturing, design process thinking, project management, and explore the many career opportunities in these high demand industries. Students will be able to see the evolution of their projects from inception to completion with the evolution of the course.

Shakopee CAPS requires students to be active, independent learners and fosters empowerment, self-discovery, collaboration, and critical thinking skills. Students will engage in a variety of opportunities including case studies, problem and project-based learning, and on and off-site shadowing experiences.

**Shakopee CAPS Engineering & Manufacturing Internship**



**Grade Level:** 11,12

**Credits:** SHS: 2 Credits/1 Quarter

**Prerequisite:** CAPS Engineering & Manufacturing

**Description:** The Shakopee CAPS Engineering & Manufacturing Internship will give students direct experience working in the field. Students will gain invaluable professional skills working alongside Engineering and Manufacturing professionals. A variety of internships are available; students will be able to pursue internships that most interest them. All students will apply and interview for these competitively placed positions. Students will work directly with professionals and clients through a series of shadowing and project-based experiences. Students who have participated in internships show a higher chance of completing college and with less debt. Come get a start on your future and develop your competitive edge.

Academy Elective Courses

**Advanced Welding – Design & Fabrication**



**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Welding and Metal Fabrication (Formerly Welding 1)

**Description:** Did you like Welding and Metal Fabrication? In Advanced Welding, students will expand upon the skills and concepts acquired in Welding and Metal Fabrication; and explore other areas of metalworking such as casting, forging, and machining. In this course students will be asked to design and manufacture a project of their choice.

**Advanced Woodworking – Cabinetry and Furniture**



**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Wood Production Technologies

**Required Materials:** Tape measure

**Description:** This is a very advanced course in the art of furniture and cabinetmaking. In this course students will learn advanced woodworking skills such as wood bending and turning, advanced joinery and finishing techniques. Students will be exposed to modern wood production techniques while designing, developing, and managing a project of their choice. This class is one that will challenge your skills!



Health Science education will provide students with the knowledge and skills to pursue this high demand industry. Health Science career fields include biomedical science, exercise science, health and wellness, nutrition, and healthcare fields.



# Health Science



**Related Careers:** Medical Appliance Technician, Medical and Clinical Lab Technologist, Surgical Technologist, Medical Imaging Technologist, Biomedical Engineer, Forensic Science Technician, Dietetic Technician, Dietician and Nutritionist, Community Health Worker, Massage Therapist, Fitness Trainer and Aerobics Instructor, Athletic Trainer, Recreational Therapist, Physical Therapist, Occupational Therapist, Massage Therapist, Exercise Physiologist, Pharmacy Technician, Medical Assistant, Healthcare Social Worker, Physician, Physician Assistant, Licensed and Practical Nurse, Respiratory Therapist, Dentistry, Ophthalmology, Surgical and Medical Technician, Chiropractor

MIDDLE SCHOOL	HIGH SCHOOL				
Area of Interest Courses (Grades 6-8)	Program of Study	Introductory Courses	Intermediate Courses	Advanced Courses	
<p><b>Area of Interest Gateway (Grade 7):</b></p> <p>Snack Attack</p> <p><b>Middle School Electives (Grades 7 &amp; 8):</b></p> <p>GTT: Medical Detectives (PLTW)</p> <p>2 Fit 2 Quit</p> <p>Code Red</p>	Biomedical	<p style="background-color: yellow;">Human Body Systems</p>	Principles of Biomedical Science (PLTW**)	Medical Interventions (PLTW**)	
	Public Health		Global Health and Disease Prevention	Community Health	
	Exercise Science		Human Movement Sciences	Sports Medicine	Emergency Medical Responder
	Healthcare		Principles of Biomedical Science (PLTW**)	Emergency Medical Responder	Nursing Assistant
	Healthcare		Healthcare Simulation		
	<b>Additional Academy Elective Courses:</b>		<p>CIS: Human Physiology, Technology, and Medical Devices</p> <p style="background-color: yellow;">Nutrition for the Human Body</p>		
	<b>CAPS Program:</b>		CAPS Healthcare and Medicine (Can substitute for the Advanced Course in any Health Science Program of Study)		

\*\*Project Lead the Way © affiliated course | pltw.org  
 Students in the Class of 2024 & Beyond will have to complete a 3 Course Program of Study



Fine Arts Credit



College Credit Opportunity



CAPS Program

### Introductory Course

#### **Human Body Systems**

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Biomedical, Public Health, Exercise Science, Healthcare

**NCAA Core Course**

**Description:** Students examine the interactions of human body systems as they explore human anatomy and physiology associated with biomedical sciences, healthcare, public health and exercise science. Students build organs and tissues on a skeletal Maniken®; monitor body functions such as muscle movement, muscle strength, heart rate, blood pressure, and respiration. Human anatomy studies will include dissections on a variety of lab specimens.

### Intermediate Courses

#### **Human Movement Sciences**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Human Body Systems

**Program of Study:** Exercise Science

**Description:** Human Movement Sciences is a movement-based course that explores the mechanical principles that govern human motion. Dive into the study of anatomy, strength training and conditioning, and kinematic forces that influence or impede human motion. Learn about common athletic injuries and how to prevent them, while creating training programs to improve muscular strength and health. Improve performance potentials of those in sport, physical fitness training, public safety, and the military elite. This course is the intermediate course in the Exercise Science program of study within the Academy of Health Science.

#### **Global Health & Disease Prevention**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Human Body Systems

**Program of Study:** Public Health

**NCAA Core Course**

**Description:** Disease knows no border. In today's interconnected world, diseases can spread from an isolated, rural village to any other major city in as little as 36 hours. We cannot protect our borders unless we address disease elsewhere in the world. The purpose of this course is to develop the knowledge and understanding of the causes, symptoms, and methods of controlling and preventing chronic and infectious diseases. Prevention and treatment strategies will be identified. Emphasis will be placed on the factors that promote and hinder well-being. This course is the intermediate course in the Public Health program of study.

### Intermediate Courses – (Cont.)

#### **Principles of Biomedical Science (PBS) – A & B (PLTW)**



**Grade Level:** 10,11,12

**Credits:** SHS: 2 Credits

**College:** Students can meet the requirements for college credit in this course. Please see instructor or your counselor for details.

**Prerequisite:** Human Body Systems

**Program of Study:** Biomedical, Healthcare

**NCAA Core Course**

**Description:** Principles of Biomedical Science (PBS) is an intermediate course that serves to provide foundational knowledge and skills in fields such as forensics, biology, anatomy & physiology, genetics, microbiology, and epidemiology as well as engage students in how this content can be applied to real-world situations, cases, and problems. Students will analyze evidence found at a crime scene and uncover clues left on the body to solve a mystery. They will question, diagnose, and propose treatment and care for patients in a family medical practice. Faced with a mysterious outbreak at a local hospital they will work to track down the source. During an emergency, they will stabilize a patient and prepare for medical surge and mobile medical care. Finally, they will collaborate with professionals in other fields to innovate and design solutions to local and global medical problems.

Through both individual and collaborative team activities, projects, and problems, students will tackle real-world challenges faced by biomedical professionals in the field. They will work with the same tools and equipment used in hospitals and labs as they engage in relevant hands-on work. Students will explore how connections to other disciplines such as computer science and engineering shape the future of medicine and practice collaboration techniques that will help them connect with professionals across any field.

#### **Healthcare Simulation**

**Grade Level:** 10, 11,12

**Credits:** 1 Credit

**Prerequisite:** Human Body Systems

**Program of Study:** Healthcare

**Description:** Healthcare Simulation will be a collaborative advanced course in the Healthcare pathway. Students will immerse themselves into real world scenarios with the high-fidelity manikins and a team of healthcare workers (physicians, registered nurses, EMT, paramedics) culminating in a project focused on patient experience. This will provide students the opportunity to explore healthcare careers, understand the importance of patient experience, practice behaviors to succeed in the health care setting and apply communication skills that will support clients' diverse needs.

Advanced Courses**Medical Interventions (MI) – A & B (PLTW)****Grade Level:** 11,12**Credits:** SHS: 2 Credits**College:** Students can meet the requirements for college credit in this course. Please see instructor for details.**Prerequisite:** Principles of Biomedical Science (PLTW)**Program of Study:** Biomedical**NCAA Core Course**

**Description:** Medical Interventions (MI) allows students to investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. A “How-To” manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our 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 will be exposed to the wide range of interventions related to immunology, surgery, genetics, gene therapy, pharmacology, medical devices, and diagnostics. Each case scenario will introduce multiple types of interventions. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. This course has frequent collaborative, hands-on laboratory activities

**Community Health****Grade Level:** 11, 12**Credits:** 1 Credit**Prerequisite:** Global Health & Disease Prevention**Program of Study:** Public Health

**Description:** Students will apply their skills and knowledge of public health to their own communities—in the city of Shakopee, Scott County, or at SHS. Students will assess health issues and hazards; develop policies; inform, educate, and empower people about health issues; and evaluate the effectiveness of their solutions. Students will work with community partners to identify a local problem using real data, develop a solution, and implement the solution in the community. In partnership with our community students will enhance their professional skills in preparation for a career in community health.

**Sports Medicine****Grade Level:** 11,12**Credits:** 1 Credit**Prerequisite:** Human Movement Sciences**Program of Study:** Exercise Science

**Description:** Sports Medicine is the advanced course for the Exercise Science program of study in the Health Science Academy. This course will provide students with experiential learning opportunities in athletic training, physical therapy, and other associated sports medicine disciplines. It will include an introduction to the sports medicine scope of practice: injury prevention and proactive care, emergency injury management, treatment and diagnosis, rehabilitation, and administrative protocols.

*We encourage students to complete the Emergency Medical Responder (EMR) intermediate course in conjunction with the Human Movement Science prerequisite. This pairing will better prepare students for the real-life application of skills for a sports medicine professional.*

Advanced Courses – (Cont.)**Emergency Medical Responder - A & B (HLTH 2209)****Grade Level:** 11,12**Credits:** SHS: 2 Credits**College:** 3 Semester Credits from Normandale Community College**Prerequisite:** Healthcare Simulation, Principles of Biomedical Science (PLTW)**Program of Study:** Healthcare

**Description:** This course is designed to meet the needs of anyone who wishes to go beyond the basic level of First Aid training (law enforcement, firefighters, paramedics, rescue squads, athletic trainers, chiropractors, college students). The First Responders course will help students develop emergency medical skills and knowledge that will enable them to assist people who have sustained an accidental injury, are suffering from sudden illness, or are experiencing a medical problem. This includes basic life support assessment and management techniques for patients experiencing airway, breathing, and circulatory emergencies. Upon completion of the course, the student will be certified/recertified in CPR, First Aid, and AED and registered as an Emergency Medical Responder by the MN Emergency Medical Services Regulatory Board. The student will also be eligible to take the National Registry's First Responder exam and enroll in the Emergency Medical Technician Basic course.

**Nursing Assistant/Home Health Aide – A & B (NURS 1060)****Grade Level:** 11,12**Credits:** SHS: 2 Credits**College:** 4 semester credits from Normandale Community College**Eligibility:** Normandale Community College Eligibility Requirements**Prerequisite:** Healthcare Simulation, Principles of Biomedical Science (PLTW)**Program of Study:** Healthcare

**Description:** The Nursing Assistant/Home Health Aide Certificate course prepares the students to provide physical nursing care to individuals in long term care facilities, hospitals, and client's own home. Students learn how to measure vital signs, assist individuals with physical needs such as personal hygiene, elimination, mobility, exercise and nutrition. Students will also obtain information on emotional, spiritual, psychosocial needs and behavior management for persons with dementia. In addition, student will complete 24 hours of clinical care in a long-term care facility to gain hands on experience. Students successfully completing this course are eligible to take the Pearson VUE Nursing Assistant/Home Health Aide Competency test. After passing this test students can be placed on the Minnesota Department of Health Nursing Assistant/Home Health Aide Registry.

Advanced Courses – (Cont.)**Shakopee CAPS Healthcare & Medicine****Grade Level:** 11,12**Credits/Length:** SHS: 4 Credits / 2 Terms**College:** 6 semester credits from Normandale Community College**Schedule:** 1<sup>st</sup> and 2<sup>nd</sup> Quarter (Block 1 and 2)**Location:** St. Francis Regional Medical Center**Prerequisite:** Intermediate Course in a Health Science Program of Study or Advanced Course in another Academy**Eligibility:** Entrance to CAPS is based on a completed application and course registration. All applications are due at the close of registration. Normandale Community College has a separate application once enrolled in CAPS. See your counselor for any questions regarding the application process. Please use the link below to view application.**Application:** [bit.ly/CAPSapp23](http://bit.ly/CAPSapp23)**Description:** Shakopee CAPS Healthcare and Medicine program fully immerses students in St. Francis Regional Medical Center providing unprecedented access to real world experiences in the dynamic field of healthcare and medicine. Partnering with experienced medical professionals, students will advance their understanding of healthcare systems, communications, legal issues, medical terminology, patient care, professionalism, ethics, and explore many career opportunities in healthcare.

Shakopee CAPS requires students to be active, independent learners and fosters empowerment, self-discovery, collaboration, and critical thinking skills. Students will engage in a variety of opportunities including case studies, problem and project-based learning, and on and off-site shadowing experiences.

**Shakopee CAPS Healthcare & Medicine Internship****Grade Level:** 11,12**Credits/Length:** SHS: 2 Credits / 1 Term**College:** 2 semester credits may be available from Normandale Community College**Schedule:** 3<sup>rd</sup> Quarter (Blocks 1 and 2)**Location:** Various internship locations in Shakopee area**Prerequisite:** Shakopee CAPS Healthcare & Medicine – Semester 1**Eligibility:** Acceptance into an internship will depend on student's application and interview. Students are NOT guaranteed placement into an internship.**Description:** The Shakopee CAPS Healthcare & Medicine Internship will give students direct experience working in the healthcare field. Students will gain invaluable professional skills working alongside healthcare professionals. A variety of internships are available; students will be able to pursue internships that most interest them. All students will apply and interview for these competitively placed positions. Students will work directly with healthcare professionals and clients through a series of shadowing and project-based experiences. Students who have participated in internships show a higher chance of completing college and with less debt. Come get a start on your future and develop your competitive edge.Academy Elective Courses**CIS: Human Physiology, Technology, and Medical Devices – A & B (BIOL 1015)****Grade Level:** 11,12**Credits:** SHS: 2 Credits**College:** 4 Semester credits from the University of Minnesota/Twin Cities**Prerequisite:** Chemistry**Eligibility:** Must meet the University of Minnesota's course admission requirements: Must be a junior or senior who earned at least a B or better in a rigorous high school chemistry course.***NCAA Core Course*****Description:** This course is articulated with the University of Minnesota and students successfully completing this course will earn 4 University of Minnesota semester credits. CIS Human Physiology, Technology, and Medical Devices is a freshman-level, introduction to Human Anatomy and Physiology. While this course will satisfy U of M requirements for "biological science with a lab," it is not a substitute for higher level (3000 level) anatomy and physiology courses required for health care careers such as nursing.

This course covers the main organ systems of the human body, placing emphasis on their relationships to normal and abnormal health. Students will learn to identify and locate many anatomical structures and understand how each works individually and in cooperation with other parts to maintain homeostasis (balance) in the body. The course will include group work, discussion, writing, lab work and out of class projects.

**Nutrition for the Human Body****Grade Level:** 9,10,11,12**Credits:** 1 Credit**Prerequisite:** None**Description:** Learn what to eat and why! Nutrition for the Human Body will teach you how to prepare foods that will help you fuel the human machine. In this course you will learn how to design and prepare diets that will meet nutritional needs, as well as help others improve their performance, prevent diseases, achieve optimal health, and reach their goals. You will deepen your understanding of major nutrients, the psychology of eating, digestion and energy systems, and building diet programs through lab and classroom experiences. This course will expose you to careers in personal training, dietetics, nutrition, physical/occupational therapy, nursing, and athletic training.



HUMAN  
SERVICES

Skills students gain in the Human Services could be applied across all academic disciplines. Human Services courses benefit both the community and students while encouraging students to look beyond themselves to serve others. Career fields include human development, psychology, education, legal fields, law enforcement, and public services.



# Human Services



**Related Careers:** Early Childhood Educator, K-12 Teacher, Administrator, Educational Paraprofessional, Training and Development Manager/Supervisor, Police and Sheriff’s Patrol Officers, Correction Officers and Jailers, Attorney, Court Reporters, Paralegal and Legal Assistants, Government Service, Labor Relations Specialist, Firefighter, Military Service, Non-Governmental Organization, Lobbyist, Social and Human Service Assistant, Mental Health Counselors, Health Educators, Clinical Counseling, and School Psychologist

MIDDLE SCHOOL	HIGH SCHOOL				
Area of Interest Courses (Grades 6-8)	Program of Study	Introductory Courses	Intermediate Courses	Advanced Courses	
<b>Area of Interest Gateway (Grade 6):</b>  Be The Change  <b>Middle School Electives (Grades 7 &amp; 8):</b>  Law and Order  More Than Social Media	<b>Teaching and Educational Services</b>	Intro to Human Development	Exploring Education	Multicultural Education	
	<b>Social and Mental Health Services</b>	Human Relations	Positive Psychology: Building People and Community	Community Leadership and Service	
	<b>Public Service</b>	Human Relations	Generation Now		
	<b>Law and Legal Services</b>	Criminal Justice and the Court	A Case for Justice	Law and Legal Services	
	<b>Additional Academy Elective Courses:</b>	Advanced Child Development		Sociology of the Family	
	<b>CAPS Program:</b>	 CAPS: Human Services (Can substitute for the Advanced Course in any Human Services Program of Study)			

Students in the Class of 2024 & Beyond will have to complete a 3 Course Program of Study




Fine Arts Credit



College Credit Opportunity



CAPS Program

### Introductory Courses

#### **Criminal Justice & the Court**

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Law and Legal Services

**NCAA Core Course**

**Description:** Criminal Justice and the Court is a descriptive overview of the criminal justice system designed to familiarize students with the functions, structure, and organization of the people and agencies involved. Specifically, the course shows students how the criminal justice system initially responds to the crime, the processes and procedures that follow, and how violations of the law are ultimately resolved through a hands-on learning experience.

#### **Human Relations**

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Teaching and Educational Services, Social and Mental Health Services, Public Service

**Description:** A growing expectation for today's young adults entering the workforce, is the ability to work effectively in a diverse environment. This course is designed to help students understand themselves, core beliefs, values, and personal ethics. Students are provided the opportunity to achieve a deepened sense of awareness of not only themselves, but others. This understanding is applied to human relations at home, school, work, and within the community. The topics covered include the impact of personal and organizational values, self-awareness, cultural awareness, conflict resolution, diversity, stress management, and effective leadership skills.

#### **Intro to Human Development**

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Teaching and Educational Services, Social and Mental Health Services

**Description:** This course will provide you with the background knowledge to work in career fields that focus around helping others. Students will discuss the social, emotional, physical, and cognitive developmental changes that occur from birth to the end of life. The stages of development and milestones covered in this class include pregnancy, birth, infancy, childhood, adolescence, adulthood and later years of life. Students will have opportunities to experience the various stages of development through authentic learning. For example, you can choose to wear an empathy belly (prenatal unit) and/or take the RealCare Baby home for the weekend (infancy unit) as well as many other project-based opportunities.

### Intermediate Courses

#### **A Case for Justice**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Criminal Justice and the Court

**Program of Study:** Law and Legal Services

**NCAA Core Course**

**Description:** Imagine you are the first responder to a drunk driving accident or the judge presiding over a murder trial from your hometown. In A Case for Justice, you will be following situations like these by participating in all aspects of the Criminal Justice process. In the class, you will be immersed in an interactive case where you will analyze all angles of law enforcement, the courts and corrections.

#### **Exploring Education – A & B**

**Grade Level:** 10,11,12

**Credits:** SHS: 2 Credits

**College:** 4 semester credits may be available from Normandale Community College

**Prerequisite:** Intro to Human Development or Human Relations

**Program of Study:** Teaching and Educational Services



**Description:** Students in this course will interact with students of all ages by having authentic learning experiences alongside teachers in our schools. This course is relevant for anyone considering a career in education. You will learn about yourself as a learner, different educational philosophies and instructional methods, & trends and issues within the field. Upon successful completion of this course, you will earn 4 credits from Normandale Community College.

#### **Generation Now**

**Grade Level:** 10,11,12

**Credits:** 1 Credits

**Prerequisite:** Human Relations

**Program of Study:** Public Service

**Description:** There is no shortage of issues which young adults are confronting in the twenty-first century. Generation Now will focus on local challenges facing our community, put forth by our local business and community partners, while offering an opportunity to propose solutions and learn techniques for solving problems. Students will collaborate with each other, teachers and partners to select potential projects, ask thoughtful questions, identify, investigate and solve challenges. Students will partner with city and county officials—and, where appropriate, other community stakeholders such as local businesses, nonprofit organizations, and local residents—to develop their projects.

## Human Services

### Highlighted Courses offered Online AND In Person

#### Intermediate Courses – (Cont.)

##### **Positive Psychology: Building People and Community**

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Human Relations or Intro to Human Development

**Program of Study:** Social and Mental Health Services

**NCAA Core Course**

**Description:** Have you ever wondered what the secrets of happiness are? Are you looking for ways to increase your own levels of happiness, and impact the community around you? Positive psychology encompasses the study of positive experiences, positive character strengths, healthy relationships, and best practices that facilitate essential skill development. These sets of skills will help strengthen individuals and enable communities to thrive.

#### Advanced Courses

##### **Multicultural Education – A & B**

**Grade Level:** 11,12

**Credits:** SHS: 2 Credits

**College:** 3 semester credits may be available from Normandale Community College

**Prerequisite:** Exploring Education

**Program of Study:** Teaching and Educational Services



**Description:** Multicultural Education introduces students to the background and approaches to multicultural education including issues related to student, family, and community diversity based on culture, language, race, class, gender, sexual identity, and disability. Students will explore the hierarchy of education with regards to privilege, equity and access to high-quality education. This course builds on the concepts and strategies of Exploring Education and is the advanced course within the Teaching and Educational Services program of study. Field experience hours are part of the course requirement.

##### **Community Leadership and Service**

**Grade Level:** 11,12

**Credits:** 1 Credit

**Prerequisite:** Positive Psychology or Generation Now

**Program of Study:** Social and Mental Health Services, Public Service

**Description:** Community Leadership and Service is a 9-week advanced course in the Human Services Academy Social and Mental Health or Public Service programs of study. Students enrolled in the course have completed the intermediate level Generation Now or Positive Psychology courses. Are you interested in social work, counseling, or leadership in our community? Community Leadership and Service will offer immersion and project experiences for students interested in social and mental health or advocating for positive change in our community. This course will allow students to focus on a field/career of choice, develop an understanding of what it takes to be a professional in this field, and be immersed in a field experience or project with a nonprofit or community partner.

#### Advanced Courses – (Cont.)

##### **Law and Legal Services**

**Grade Level:** 11,12

**Credits:** 1 Credit

**Prerequisite:** A Case for Justice

**Program of Study:** Law and Legal Services

**NCAA Core Course**

**Description:** Are you interested in shadowing a city police officer, working with an attorney that is preparing for trial or taking part in a pre-sentence investigation with a probation officer? Law and Legal Services will offer immersion and project experiences for students interested in the criminal justice system. This course will allow students to focus on a field/career of choice, develop an understanding of what it takes to be a professional in this field, and be immersed in a field experience or project with a business or community partner.

##### **Shakopee CAPS Human Services**

**Grade Level:** 11,12

**Credits/Length:** SHS: 4 Credits / 2 Terms

**College:** To Be Determined, No Agreement in Place Currently

**Schedule:** 1<sup>st</sup> and 2<sup>nd</sup> Quarter (Block 1 and 2)

**Location:** Scott County Government Center and City of Shakopee

**Prerequisite:** Intermediate Course in a Human Services Program of Study or Advanced Course in another Academy

**Eligibility:** Entrance to CAPS is based on a completed application and course registration. All applications are due at the close of registration. Any Postsecondary Institution aligned with the course will have a separate application once enrolled in CAPS. See your counselor for any questions regarding the application process. Please use the link below to view application.

**Application:** [bit.ly/CAPSapp23](http://bit.ly/CAPSapp23)

**Description:** The Shakopee CAPS Human Services program allows students to gain a deeper understanding of careers in Public Service Leadership, Law and Legal Services, Mental Health, and Social Services. Partnering with professionals at City of Shakopee and Scott County, students will gain access to experiences in each of these fields. Shakopee CAPS requires students to be active, independent, learners and fosters empowerment, self-discovery, collaboration, and critical thinking skills. Students will engage in a variety of opportunities including case studies, problem and project based learning, and off-site shadowing experiences.

##### **Shakopee CAPS Human Services**

**Grade Level:** 11,12

**Credits/Length:** SHS: 2 Credits / 1 Term

**College:** To Be Determined, No Agreement in Place Currently

**Schedule:** 3<sup>rd</sup> Quarter (Blocks 1 and 2)

**Location:** Various internship locations in Shakopee area

**Prerequisite:** Shakopee CAPS Human Services – Semester 1

**Eligibility:** Acceptance into an internship will depend on student's application and interview. Students are NOT guaranteed placement into an internship.

**Description:** The Shakopee CAPS Human Services Internship will give students direct experience working in the Human Services field. Students will gain invaluable professional skills working alongside professionals. A variety of internships are available; students will be able to pursue internships that most interest them. All students will apply and interview for these competitively placed positions. Students will work directly with professionals and clients through a series of shadowing and project-based experiences. Students who have participated in internships show a higher chance of completing college and with less debt. Come get a start on your future and develop your competitive edge.



Academy Elective Courses**Advanced Child Development****Grade Level:** 10,11,12**Credits: SHS:** 1 Credit

**College:** Students can meet the requirements for college credit in this course. Please see instructor or your counselor for details.

**Prerequisite:** Introduction to Human Development

**Description:** This course will explore the various stages of development children go through from ages birth to five. During this course, students will interact with young children by having authentic learning experiences through partnerships with local schools and the community. Students will discuss a variety of child development theories and how it affects a child physically, emotionally, cognitively and socially. This course is relevant for anyone wishing to work with children in the future.

**Sociology of the Family****Grade Level:** 10,11,12**Credits: SHS:** 1 Credit

**College:** Students can meet the requirements for college credit in this course. Please see instructor or your counselor for details.

**Prerequisite:** None

**Description:** Families are the basic unit of society, and each of us is a part of one. In this course, we will investigate ethnic family patterns, adult roles in society, interpersonal relationships, conflict resolution, and sibling relationships. Students will also explore a variety of crisis' that occur within the family such as domestic violence, divorce, addiction and death/grief. There will be several industry experts sharing their experiences with students giving them a better understanding about careers in the human services field. This is a perfect class for anyone who is interested in understanding family dynamics in today's society.



## SCIENCE & TECHNOLOGY

Science & Technology promotes students to be leaders in the construction and development of dynamic and ever-changing industries. The education will reflect the modern needs of our global society and prepare our students to successfully utilize skills that will contribute to the betterment of our community. Career fields include investigative science, math, applied science & technology, and computer science.



# Science & Technology



**Related Careers:** Electrician, Electrical Engineer, Electronics Technician, Electrical Power-Line Installers and Repairers, Power Plant Technician and Operator, Electrical Systems Designer and Drafter, Network and Computer Systems Administrators, Computer Network Architects, Computer Hardware Engineer, Computer Hardware Technician and Repairer, Computer Research Scientist, Software Developer, Computer Systems Analyst, Computer and Information Systems, Computer Programmers, Information Security Analysts, Database Administrators, Natural Sciences Managers, Environmental Engineer, Green Technology and Alternative Energy Designer, Geoscientist & Conservation Scientists, Mining and Geological Engineer

MIDDLE SCHOOL	HIGH SCHOOL			
Area of Interest Courses (Grades 6-8)	Program of Study	Introductory Courses	Intermediate Courses	Advanced Courses
<b>Area of Interest Gateway (Grade 6):</b>  Programming is Electric	Computer Science	Computer Hardware and Software	AP Computer Science Principles (PLTW**)	Technological Innovations     Environmental Solutions
	Information Technology Solutions		Cyber Security	
<b>Middle School Electives (Grades 7 &amp; 8):</b>  Energy and Flight  Apps Creation	Renewable Energy and Electrical Systems	Electricity	Energy and Power Generation	
	Environmental Science	Energy, Food, and The Outdoors	AP Environmental Science  Environmental Ethics  Ecology	
<b>Additional Academy Elective Courses:</b>	Mobile App Development		Web Development	
<b>CAPS Program:</b>	<span style="color: #0070c0;">Future Programming To Be Determined</span>			

\*\*Project Lead the Way © affiliated course | pltw.org

Students in the Class of 2024 & Beyond will have to complete a 3 Course Program of Study



Fine Arts Credit



College Credit Opportunity



CAPS Program

### Introductory Courses

#### Computer Hardware and Software

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Computer Science and Information Technology Solutions

**Description:** Computer systems are integral to our daily lives using algorithms to automate everything from our lights to the stock exchange. With billions of unique, connected computer devices in the world, it is shocking how little most of us know about how these powerful tools work. This course is a hands-on study of computer construction, hardware/ software repair and useful “tech knowledge” for industrial and home applications. As we explore our own Internet of Things, students will engage in problem-solving, using software tools, applying algorithms and collaboration leaving the course with an understanding of how computers think, operate, and communicate as well as be ready to tackle real-world problems in computer science, cyber security, or other fields.

#### Electricity

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Renewable Energy and Electrical Systems

**Description:** This course provides an introduction to electricity and its applications. Concepts are applied and reinforced through project-based learning. We will explore the world of electronics, circuitry, basic wiring, and construction of real-world residential wiring circuits. Students will develop electrician skills, using hand tools and performing basic wire runs and device installs. You will also learn about Arduino microcontrollers and how they can be programmed to accomplish real world tasks. If you enjoy working with your hands, creating something from a pile of parts, or are interested in starting a career in a high demand trade, then Electricity is the class for you!

#### Energy, Food and The Outdoors

**Grade Level:** 9,10,11,12

**Credits:** 1 Credit

**Prerequisite:** None

**Program of Study:** Environmental Science

**Description: The Can-Do Pathway to Global Change:** If you have an interest in the outdoors and want to learn how that interest can lead to a career in science and technology, this is the course for you. In this introductory course, students will learn about the outdoors while exploring outdoors! Through a study of the Shakopee community, students will learn how the decisions we make about food and energy today impact their world. We will examine climate change and how the choices we make on a day-to-day basis will change our future. A hands-on approach will be used in the course, with students creating their knowledge by learning outdoors in our community.

*\*The topic of water will also be a major focus of this course. Students will be provided with the opportunity to safely explore the school pond with canoes and waders.*

### Intermediate Courses

#### AP Computer Science Principles (CSP) – A & B (PLTW)



**Grade Level:** 10,11,12

**Credits:** SHS: 2 Credits

**College:** Possible college credit with a score of 3 or better on the National AP Exam.

**Prerequisite:** Computer Hardware and Software

**Program of Study:** Computer Science

**Description:** Using Python® as a primary tool, students learn the fundamentals of coding, data processing, data security, and task automation, while learning to contribute to an inclusive, safe, and ethical computing culture. The course promotes computational thinking and coding fundamentals and introduces computational tools that foster creativity. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. Students will have the option to take the AP Computer Science Principles Exam at the end of the course.

#### Cyber Security

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Computer Hardware and Software

**Program of Study:** Information Technology Solutions

**Description:** This class covers the basics of cybersecurity on common computing and networking systems. The topics included in this course will change as unethical hackers find new ways to infiltrate and exploit networks, stand-alone machines, smartphones, and, of course, personal computers. Several possible topics could be Denial of Service attacks, phishing scams, the Internet of Things, Trojan horses, and ransomware. Students will learn about these topics by hacking into password-protected machines; reading scientific publications and security reports; analyzing, and then writing, malicious software; and researching operating system exploits, including those in iOS, Android, Mac, Linux, and Windows.

#### Energy and Power Generation

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Electricity

**Program of Study:** Renewable Energy and Electrical Systems

**Description:** In Energy and Power Generation, students will investigate the energy grid, including production, transfer and consumption of electricity using these various sources: hydroelectric, nuclear, solar, coal, and natural gas. Through the use of hands-on activities and design problems students will explore various applications of different energy systems and their uses. Projects include: Mousetrap cars, Wind turbines, Biodiesel production, PLC Programming, and Hydraulic scissor lifts. This course is designed to be partnered with the Electricity course and expands on the skills and knowledge attained through that coursework.

## Science & Technology

### Highlighted Courses offered Online AND In Person

#### Intermediate Courses – Continued

##### AP Environmental Science – A & B

**Grade Level:** 10,11,12

**Credits:** SHS: 2 Credits

**College:** Possible college credit with a score of 3 or better on the National AP Exam.

**Prerequisite:** Energy, Food, and the Outdoors or 2 High School Science Courses

**Program of Study:** Environmental Science

**NCAA Core Course**

**Description: The Can-Do Pathway To Global Change:** The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

##### Ecology

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Energy, Food, and the Outdoors

**Program of Study:** Environmental Science

**NCAA Core Course**

**Description:** Ecology is the study of human interactions with the natural environment. Students in this course will investigate introductory ecological concepts through first-hand experience by surveying a local ecosystem. This curriculum includes more abstract concepts such as the interdependence of organisms, the relationship of matter, energy, and organization in living systems, the ecological conditions, the behavior of organisms, and biological evolution. The mission of this course is to assist students in developing an understanding of the direct footprint humans leave on the natural world and to explore methods for diminishing the impact of humans on the environment.

##### Environmental Ethics

**Grade Level:** 10,11,12

**Credits:** 1 Credit

**Prerequisite:** Energy, Food, and the Outdoors

**Required:** Parent permission to drive to off-campus locations.

**Graduation Requirement:** Social Studies

**Program of Study:** Environmental Science

**Description:** This class is designed to attract the student who has a passion for the environment and to provide that student with a system of thought, through the application of the scientific method, service learning, ethics and classical logic, to evaluate human interaction with the environment. In a real-world approach, this course will include partnerships with the Minnesota Department of Natural Resources and Trout Unlimited. The classroom environment will include the Eagle Creek River System. The mission of this course is to assist students in developing an understanding of the direct footprint humans leave on the natural world and to explore ethical methods for diminishing the impact of humans on the environment.

#### Advanced Courses

##### Environmental Solutions

**Grade Level:** 11,12

**Credits:** 1 Credit

**Prerequisite:** One of the following: Environmental Ethics, Ecology, AP Environmental Science, Energy and Power Generation, Cyber Security, AP Computer Science Principles

**Program of Study:** Environmental Science

**Description:** We live in a constantly changing world and we need students who can solve problems! This is a student-designed, project-based class where an individual or group will research, design and construct a relevant solution to an environmental problem. These authentic experiences will guide students through creative collaboration with classmates and industry professionals. Students will utilize project management tools and develop professional and technical skills while practicing within a real-world industry environment. In addition, you and your team will present and defend your solution to a panel of outside reviewers.

##### Technological Innovations

**Grade Level:** 11,12

**Credits:** 1 Credit

**Prerequisite:** One of the following: AP Computer Science Principles, Cyber Security, Energy and Power Generation, Environmental Sustainability, AP Environmental Science

**Program of Study:** All Science & Technology Programs of Study

**Description:** In this course, teams of students will have an environment to apply skills and resources they have gathered through their journey in Science and Technology to solve real community problems. Teams will be collections of diverse skill backgrounds, contextual knowledge, and interests. They will explore applicable problems in the community and develop solutions and proposals to enrich the community. By honing their communication, organizational, and presentation skills students will connect their solutions to their community partners or industry professionals.

Academy Elective Courses**Mobile App Development****Grade Level:** 9,10,11,12**Credits:** 1 Credit**Prerequisite:** None

**Description:** The Mobile App Development course provides an introduction to the basic principles of computer science from the perspective of mobile computing. You will code your own apps using App Inventor, a graphical programming language for Android mobile devices. The lessons and materials used by students incorporate programming while also integrating all other AP CSP big ideas: creativity, abstraction, data and information, algorithms, the Internet and global impact. Throughout this course you will engage in the development of problem-solving skills and honing your computational thinking practices. You will learn to create socially useful Apps using App Inventor as well as connect computing and learning about abstraction as you develop and analyze your programs. If you love projects, this is the course for you as the course takes a complete project-based approach throughout the length of the course. You will create a portfolio of your work which will showcase all of your projects and act as a resume for your future endeavors.

**Web Development****Grade Level:** 9,10,11,12**Credits:** 1 Credit**Prerequisite:** None

**Description:** Every minute, 571 websites are created and over 3.2 billion people use the Internet. Web Development deals with the language, skills, and thinking involved with creating and managing websites. In this intermediate course, students will create Web visuals, manage behind-the-scenes information, and work through common Internet-related problems such as database efficiency and cybersecurity. Students will leave this course familiar with the languages of HTML, JavaScript, and PHP ready to design and develop the Internet of the future.

# AVID Program

AVID (Advancement Via Individual Determination) is a college readiness program and elective class held during the school day. It is offered to students who would like to prepare to attend two-year community or technical or four-year colleges or universities. Students participate in AVID voluntarily.

The curriculum includes writing, inquiry, collaboration, organization, reading, note-taking, study skills, test preparation and test taking skills, college/career/team building activities and visits to colleges and universities.

AVID students must complete an application and participate in an interview. If selected, they must sign an AVID Student Agreement and commit for a year to complete all the required AVID work, take notes in all subject-area classes daily, use the AVID binder for all classes and participate in small group tutorial sessions during the AVID elective class with AVID tutors. Senior AVID students also are required to complete community service hours.

Other requirements include good citizenship, appropriate classroom behavior, good attendance and a minimum cumulative 2.0 GPA. AVID students are required to take at least one rigorous course each year. They must be able to complete advanced-level work. Students must also demonstrate motivation, individual determination and take responsibility for their own learning and success.

More information about AVID is on the Shakopee AVID Web page at <http://www.shakopee.k12.mn.us/domain/163>.

## **AVID Elective Sequence**

**AVID 9: Personal Growth!** Emphasis on further developing WICOR skills, exploring personality/strengths/areas for growth, choosing an academy, goal setting, and note taking. Weekly tutorials, binder checks, and note taking skills.

**AVID 10: Laying the Foundation!** Emphasis on further developing WICOR skills with a greater focus on college and career research, scholarship introduction, and future goal setting. Weekly tutorials, binder checks, and note taking skills.

**AVID 11: Gearing Up!** Enhanced focus on college & career exploration, narrowing college choices, writing college and scholarship essays, exploring financial aid, applying to scholarships. Weekly tutorials, binder checks, and note taking skills.

**AVID 12: Making It Happen!** Applying to college & scholarships, refining college-ready academic skill set, creating collaborative study groups, & preparing for life after high school. Weekly tutorials, binder checks, and note taking skills.

# YOUR FUTURE BEGINS NOW

## > 1ST & 2ND QUARTER - HOST SITE EXPERIENCE

CAPS students will report to the business partner site each day during 1st semester. Students will work with a SHS teacher and business professionals from the partnering company and beyond. They will earn high school elective credit and college credit at the same time.

## > 3RD QUARTER - INDIVIDUAL INTERNSHIP

Students will work directly with area businesses in an internship experience developing professional skills while working side by side with the industry's experts on authentic projects and tasks. Students will continue to meet with their teacher weekly to grow their professional skills. Internship placement is competitive and it is the goal of the district to find a good fit for all students.



*"The CAPS program has given me the opportunity to explore the healthcare environment first hand. I believe that CAPS is a jumpstart to my potential healthcare career."*

**NABILA SYED**

**Shakopee CAPS Healthcare & Medicine Student**



### BUSINESS PARTNERS



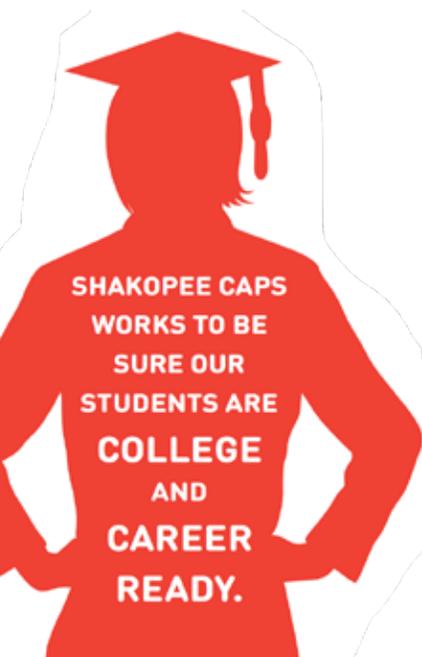
**SHAKOPEE MDEWAKANTON**  
**SIoux COMMUNITY**

**Valleyfair**



# \$30,000

The average college student changes their major 3 times and accrues more than \$30,000 in college debt. Students in the Shakopee CAPS program are able to close the confusion gap before it costs them.



## OUR PROGRAMS

> **CREATIVE MEDIA** is ideal for students interested in pursuing a career in creative services, graphic design, digital marketing, written communications, or traditional media. Students will be immersed at the Shakopee Mdewakanton Sioux Community Marketing Department to learn design methods, theory, and creative problem solving.

> **ENGINEERING AND MANUFACTURING** fully immerses students at Bayer in Shakopee providing unprecedented access to real-world experiences in the dynamic fields of Engineering & Manufacturing. Students will advance their understanding of engineering and discrete manufacturing, design process thinking, project management, and explore the many career opportunities in these high demand industries.

> **HUMAN SERVICES** immerses students in Scott County and the City of Shakopee. Students will explore careers in Public Service Leadership, Law and Legal Services, Mental Health, and Social Services.

> **BUSINESS ADMINISTRATION AND MANAGEMENT** provides a dynamic introduction to business with unparalleled access to Valleyfair and Mystic Lake. Students will partner with leading experts from these regional business centers to learn the principles of business and management.

> **HEALTHCARE AND MEDICINE** program fully immerses students in St. Francis Regional Medical Center to give them access to real world experiences in the field of healthcare and medicine.



EDUCATION PARTNERS



# Special Permission Courses

## *English Language Development for Multilingual Learners*

English Language Development (ELD) courses and services are designed for students with a home or primary language other than English. Students are provided with English Language Development support in addition to grade level content concepts.

Students qualify for ELD support according to their scores on the ACCESS test/WIDA screener. The amount and type of ELD support will be determined based on the ACCESS assessment, MN Department of Education guidelines (based on federal guidelines) and Shakopee Public Schools program model. Students will be scheduled into appropriate courses based on qualifying criteria.

For more information on Shakopee's Program Model, visit our website at <http://www.shakopee.k12.mn.us/domain/52>.

Below are the courses that are offered for Multilingual Learners with emergent English needs that may serve as either elective or content credit as outlined.

### **ELD 100 – A, B, C, & D**

**Grade Level:** 9,10,11,12

**Credits/Length:** 4 Elective Credits

**Prerequisite:** Instructor approval required

**Description:** This course is designed for students who are new to the country and have beginning English language experiences. Students will learn both conversational and academic English through reading, writing, listening, and speaking.

### **ELD 200 – A, B, C, & D**

**Grade Level:** 9,10,11,12

**Credits/Length:** 4 Elective Credits

**Prerequisite:** Instructor approval required

**Description:** This course is for multilingual (ML) students who have completed ELD 100 for ML students or who have a WIDA Screener score of Level 2. This course will expand students' academic language proficiency in reading, writing, listening, and speaking.

### **English 9 (Sheltered) – A & B**

**Grade Level:** 9,10,11,12

**Credits/Length:** 2 English Credits

**Prerequisite:** Instructor approval required

**Description:** This course is for multilingual (ML) students who have completed ELD 200 for ML students or who have a WIDA Screener score of Level 2 or above. This course will focus on English 9 content standards while also supporting students' academic language development.

### **Language through Mathematics – A & B**

**Grade Level:** 9,10,11,12

**Credits/Length:** 2 Elective Credits

**Prerequisite:** Instructor approval required

**Description:** This course will focus on developing the academic language of math while building students' ability to solve multi-step equations and inequalities. This course will build conceptual understanding in mathematics while preparing students to take Algebra Concepts.

### **Algebra Concepts (Sheltered) – A & B**

**Grade Level:** 9,10,11,12

**Credits/Length:** 2 Elective Credits

**Prerequisite:** Instructor approval required

**Description:** This course will focus on developing the academic language of math through the introduction of linear, quadratic, exponential and rational relationships. Radicals, coordinate geometry, proportions, beginning probability, statistics, and other topics are included. This class will prepare students to take Geometry.

### **Geometry (Sheltered) – A & B**

**Grade Level:** 9,10,11,12

**Credits/Length:** 2 Math Credits

**Prerequisite:** Instructor approval required

**Description:** This course will focus on developing the academic language of math through the study of geometry. Students will develop the ability to use geometric reasoning and think logically. Similarity, congruence, trigonometry, perimeter/circumference, area, surface area, volume, properties of polygons and circles, and other topics are included.

### **Language through Science – A & B**

**Grade Level:** 9,10,11,12

**Credits/Length:** 2 Elective Credits

**Prerequisite:** Instructor approval required

**Description:** This course will focus on developing the academic language of science while building the conceptual understanding of physical, life, earth, and space science. This will be an activity-based, concept-focused course. Small group work and student discussion will be used to develop critical thinking and problem solving skills.

### **Language through Social Studies – A & B**

**Grade Level:** 9,10,11,12

**Credits/Length:** 2 Elective Credits

**Prerequisite:** Instructor approval required

**Description:** This course will focus on developing the academic language of social studies while building the conceptual understanding of geography, history, economics, civics, and government. This will be an activity-based course that will develop the skills of research, inquiry, relevance, and cultural literacy.

## ***Mathematics***

### **Algebra 1 – A & B**

**Grade Level:** 9,10,11,12

**Credits:** 2 Elective Credits

**Prerequisite:** Pre-Algebra

**Required Materials:** Scientific calculator

**Description:** This course will introduce relationships of the following types: linear, quadratic, exponential, and rational. Other topics included are radicals, coordinate geometry, proportions, beginning probability and statistics. This class will prepare the student to take Algebra 2.

## ***Special Education***

*The Special Education Department offers a variety of classes designed to meet the individualized needs (reading, writing, math, communication, behavior, as well as life and work skills development) of students receiving services through their Individual Education Plan (IEP). Students will be registered for these classes based on the documented services in their IEP by their IEP case manager.*

# SOUTHWEST METRO EDUCATIONAL COOPERATIVE



## ***Introduction***

The Southwest Metro Intermediate District will offer the following courses during the 2021-22 school year. Each course at SWMetro gives you job training which may be used to get a job after graduation or to help you decide what career you should study after high school graduation. The courses also provide for application of skills learned in other high school classes.

## ***Post-Secondary Accreditation***

Students may be eligible to receive post-secondary credits for Career and Technical course work they complete at Southwest Metro Intermediate District. Students must have enrolled in one of the following SW Metro career and technical courses and maintain a B or better: Students can receive post-secondary credit at various two- or four-year colleges.

## ***Transportation***

Shakopee High School provides transportation to the SW Metro. Students choosing to drive must sign and turn in a permission form at Shakopee High School.

## **AGRICULTURAL SCIENCE & NATURAL RESOURCES PATHWAY**

### **ANIMAL SCIENCE**

**Grades:** 11, 12

**Credits:** SHS: 2 credits

**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed

**Schedule:** Fall Semester

**Prerequisite:** None

**Location:** 401 Building - CHASKA

**Course Description:** This course is designed with emphasis on genetics, physiology, and nutrition. The course includes a study of production systems relative to the horse, dairy, sheep, poultry, swine, and beef industries. Additional topics include man's relationship to animals, current issues, and future perspectives of animal agriculture. Students will experience laboratories at local farms, YMCA Horse camp, and other locations that will relate to Animal Science course study. Students will receive articulated credit for this class through MNCTEONLINE, course work is transferable to various MN Community Colleges such as South Central College, and Ridgewater

*\*Articulated College Credit, Biology Science Standards, National Agriculture Standards*

Southwest Metro Educational Cooperative  
**AGRICULTURAL SCIENCE & NATURAL RESOURCES PATHWAY (cont.)**

**LARGE ANIMAL – VET SCIENCE**

**Grades:** 11, 12

**Credits:** SHS: 2 credits

**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed

**Schedule:** Spring Semester

**Prerequisite:** None

**Location:** 401 Building - CHASKA

**Course Description:** Introduction to Large (Production/Livestock) Animal health and veterinarian science. Students will begin with an in-depth assessment of the nature of diseases and disorders, followed by medical practices and procedures, and concluding with the physiology of the reproductive and digestive systems, this course provides students with the opportunity to view common management problems of cattle through the viewpoint of a practicing veterinarian. For those interested in animal husbandry, this course provides a strong background in the cause of and treatment for common diseases and disorders of livestock, particularly dairy cows.

*\*Articulated College Credit, Hands-on, Biology Science Standards, National Agriculture Standards*

**OUTDOOR POWER EQUIPMENT**

**Grades:** 11, 12

**Credits:** SHS: 2 credits

**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed

**Schedule:** Fall or Spring Semester

**Prerequisite:** None

**Location:** Dean Lakes Building – SHAKOPEE

Students will develop an understanding in the basic operation of a small gas engine and the various systems including ignition, carburetion, and compression. Students will disassemble, measure components, and reassemble a 2 stroke and 4 stroke engines. Each student will have the opportunity to bring a small gas engine for service and/or repair. Various hand tools connected with small engines will be used. Parts that are needed for the student's own engine will have to be purchased by the student. Students may earn Articulated College Credit.

*\*Articulated College Credit, Hands-on Experience, Briggs & Stratton Master Service Tech Industry Certifications*

**AVIATION TECH (DRONE TECH)**

**Grades:** 11, 12

**Credits:** SHS: 2 credits

**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed

**Schedule:** Fall or Spring Semester

**Prerequisite:** None

**Location:** Dean Lakes Building – SHAKOPEE

This course is foundational for unmanned aviation vehicles (UAV) and will prepare students to take the Federal Aviation Administration: Part 107 Remote Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures. Students will also spend time practicing take-offs, flying and landings on flight simulators before flying a variety of drones. Students will look at UAV careers including UAV pilots, repair, and data analytics.

*\*Articulated College Credit, Hands-on Experience, Federal Aviation Admin (FAA) Part 107 Drone Standards*

Southwest Metro Educational Cooperative  
**ENGINEERING & TECHNOLOGY**

**AUTOMOTIVE TECHNOLOGY – A & B** *[1 OR 2-year program begins in Fall of odd years, but the 2 years can be taken in either order]*

**Grades:** 11, 12  
**Credits:** SHS: 2 credits per semester (8 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Prerequisite:** None  
**Location:** 401 Building - CHASKA

**Course Description:** Students will learn to work on any car in a rapidly changing industry using a full systems approach. They will also learn to analyze, diagnose, maintain, and repair basic and advanced automotive systems. They will use the same advanced diagnostic and repair equipment as a Master Technician.

The duration of the course is two years. Content will be offered in alternate years. Students can enroll any semester.

- Auto Shop Safety
- Steering Systems
- Suspension Systems
- Manual Transmissions and Drivetrain
- Electrical Systems
- Automatic Transmissions

*\*Articulated College Credit, Hands-on Experience, Automotive Service Excellence (ASE) certified program*

**CONSTRUCTION TECHNOLOGY – A & B**

**Grades:** 11, 12  
**Credits:** SHS: 2 credits per semester (4 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Prerequisite:** None  
**Location:** 401 Building - CHASKA

**Course Description:** Welcome to the world of construction! You are joining the eight million Americans who have chosen a career in this lucrative field. Construction is one of the nation’s largest industries, offering excellent opportunities for high earnings, career advancement, and business ownership. Work in construction offers a great variety of career opportunities. People with many different talents and educational backgrounds—skilled crafts persons, managers, supervisors, and superintendents—find job opportunities in construction and related fields. As you will learn throughout your training, many other industries depend upon the work you will do in construction. From houses and office buildings—everything begins with construction.

**Fall Semester**

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>● Hand &amp; Power Tools</li> <li>● Building Permits</li> <li>● Building Codes</li> <li>● Building Site Prep</li> <li>● Foundation</li> </ul> | <ul style="list-style-type: none"> <li>● Fasteners</li> <li>● Measuring</li> <li>● Floor Systems</li> <li>● Blueprint Reading</li> <li>● 10 Hour OSHA Safety Certification</li> </ul> | <ul style="list-style-type: none"> <li>● Rafters/Trusses/Roof Systems</li> <li>● Nailing Patterns</li> <li>● Exterior and Interior Wall Framing</li> <li>● Assist in Installation of Electrical, Plumbing, Heating and Air Conditioning</li> </ul> |
|--|---|--|

**Spring Semester**

- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>● Safety</li> <li>● Ventilation</li> <li>● Insulation &amp; Vapor Barriers</li> <li>● Siding</li> <li>● Cornice</li> </ul> | <ul style="list-style-type: none"> <li>● Fascia</li> <li>● Roofing</li> <li>● Blueprint Reading</li> <li>● Drywall Applications &amp; Finishing</li> <li>● Door &amp; Window Installation</li> </ul> | <ul style="list-style-type: none"> <li>● Staining &amp; Painting</li> <li>● Floor Finishing</li> <li>● Hanging Interior Doors</li> <li>● Hanging Cabinets</li> <li>● House Moving Theory</li> <li>● Interior Trim</li> </ul> |
|---|--|--|

*\*Second Year option is available with instructor permission. Student could work as Crew Chief and learn more about this career field*

*\*Articulated College Credit, Hands-on Experience, Industry Certification- CPR, PS2, OSHA 10 certifications*

Southwest Metro Educational Cooperative  
**HUMAN SERVICES**

**CHILD DEVELOPMENT ASSOCIATE 1**

**Grades:** 11, 12  
**Credits:** SHS: 2 credits  
**Schedule:** Fall or Spring Semester  
**Prerequisite:** None  
**Location:** East Creek Family Center - CHASKA

The Child Development Associate (CDA) was created in response to the need for early childhood professionals to master the knowledge and skills needed to create effective learning environments for children. The CDA is an accepted credential for work as a teacher, assistant teacher, or aide in childcare centers and preschools.

This CDA Prep course is designed to provide the information needed to effectively care for and educate young children. The course is appropriate for students who intend to pursue advanced study in early childhood education or a related discipline and for those who will seek employment or career advancement upon completion of the program. The 120 hours of education moves students forward in the process of earning the Child Development Associate (CDA) national credential through the Council for Professional Recognition.

Curriculum covers six (6) competency standards and thirteen (13) functional areas

*\*Articulated College Credit, Hands-on Experience, Industry Certification, Portfolio, 120 hours towards CDA credential*

**CHILD DEVELOPMENT ASSOCIATE 2**

**Grades:** 11, 12  
**Credits:** SHS: 2 credits  
**Schedule:** Fall or Spring Semester  
**Prerequisite:** None  
**Location:** East Creek Family Center - CHASKA

The course is appropriate for students who intend to pursue advanced study in early childhood education or a related discipline and for those who will seek employment or career advancement upon completion of the program.

*\*Articulated College Credit, Hands-on Experience, Industry Certification, Portfolio, 120 hours towards CDA credential*

**COSMOTOLOGY 1 – A & B**

**Grades:** 11, 12  
**Credits:** SHS: 2 credits per semester (4 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Prerequisite:** None  
**Location:** 401 Building - CHASKA

**Fall Semester**

**Spring Semester**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>● Intro to MN State Laws &amp; Rules</li> <li>● Safety &amp; Infection Control</li> <li>● Intro to Hair</li> <li>● Intro to Hair styling</li> </ul> | <ul style="list-style-type: none"> <li>● Intro to Hair Design</li> <li>● Haircutting</li> <li>● Hair Styling</li> <li>● Practical Application</li> </ul> |
|--|--|

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>● MN Laws &amp; Rules</li> <li>● Intro to Manicuring</li> <li>● Natural &amp; Artificial Nails</li> <li>● Intro to Pedicuring</li> <li>● Intro to Massage</li> </ul> | <ul style="list-style-type: none"> <li>● Intro to Skin Care</li> <li>● Waxing</li> <li>● Facials</li> <li>● Make-Up</li> <li>● Practical Application</li> </ul> |
|---|---|

**COSMOTOLOGY 2 – A & B**

**Grades:** 12  
**Credits:** SHS: 2 credits per semester (4 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Prerequisite:** Cosmetology I  
**Location:** 401 Building - CHASKA

**Fall Semester**

**Spring Semester**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>● Review – Basic Haircutting</li> <li>● Laws &amp; Rules</li> <li>● Short/clipper Haircutting</li> <li>● Practical Application</li> </ul> | <ul style="list-style-type: none"> <li>● Women's Haircutting</li> <li>● Hairstyling</li> <li>● Intro to Hair Relaxing</li> <li>● Practical Application</li> </ul> |
|--|---|

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>● Intro to Perming</li> <li>● Theory &amp; Technique</li> <li>● Laws &amp; Rules</li> <li>● Practical Application</li> </ul> | <ul style="list-style-type: none"> <li>● Intro to Hair Color/Foiling</li> <li>● Salon Business/ Management</li> <li>● Practical Application</li> </ul> |
|---|--|

Southwest Metro Educational Cooperative  
**HUMAN SERVICES (cont.)**

**CRIMINAL JUSTICE – A & B**

**Grades:** 11, 12

**Credits:** SHS: 2 credits per semester (8 total)

**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed

**Prerequisite:** None

**Location:** Dean Lakes Building – SHAKOPEE

**Police & Community (Fall Semester)**

- 
- |  |   |  |  |
|--|---|--|--|
| <ul style="list-style-type: none"> <li>● Origins of U.S. Policing</li> <li>● Police Discretion</li> <li>● Contemporary Policing</li> <li>● Community Policing</li> <li>● Police and Crime Fighting</li> <li>● Calls for Police Services</li> <li>● Arrest and Booking</li> </ul> | <ul style="list-style-type: none"> <li>● Use of Force</li> <li>● Police Shootings</li> <li>● MN Post Board</li> <li>● Police Attitudes and Behaviors</li> <li>● Racial Profiling</li> </ul> | <ul style="list-style-type: none"> <li>● Police and Domestic Violence</li> <li>● Special Police Units</li> <li>● Police Conduct and Ethics</li> <li>● Terrorism and Law Enforcement</li> <li>● Current Issues in Policing</li> </ul> | <ul style="list-style-type: none"> <li>● Police Corruption</li> <li>● Police and Legal Issues</li> <li>● Patrol</li> <li>● Investigation</li> <li>● Police Organization</li> <li>● Hiring Process</li> <li>● Police Socialization</li> </ul> |
|--|---|--|--|

**Introduction to Corrections (Spring Semester)**

- 
- |   |   |   |   |
|---|---|---|---|
| <ul style="list-style-type: none"> <li>● Origins of Corrections</li> <li>● Philosophy of Corrections and Charges</li> <li>● Social Interventions and Juvenile Diversion</li> <li>● Understanding Recidivism</li> <li>● Jails and Prisons</li> <li>● Probation and Parole</li> </ul> | <ul style="list-style-type: none"> <li>● Community Corrections</li> <li>● Plea Bargaining</li> <li>● Drug Courts</li> <li>● Juvenile Courts</li> <li>● The War on Drugs and Prison</li> <li>● Minorities and Incarceration</li> <li>● Life Sentences</li> </ul> | <ul style="list-style-type: none"> <li>● The Death Penalty</li> <li>● Three Strikes and You're Out Policies</li> <li>● Mandatory Minimum Sentences / Truth in Sentencing Policies</li> <li>● Treatment vs. Punishment</li> <li>● Restorative Justice Model</li> </ul> | <ul style="list-style-type: none"> <li>● Chemical Dependency and the Law</li> <li>● Policies Discretion: Judges, Lawyers</li> <li>● Mentally Ill and Incarceration</li> <li>● Elderly and Incarceration</li> <li>● Addiction and Incarceration</li> </ul> |
|---|---|---|---|

*\*Articulated College Credit (option), National Standards-Minnesota Peace Officer Standards, American Heart Assoc, & Federal Emergency Management Agency- Homeland Security*

Southwest Metro Educational Cooperative  
**ARTS, COMMUNICATION AND INFORMATION SYSTEMS**

**PHOTOGRAPHY 1: PHOTO AND VIDEO PRODUCTION**

**Grades:** 11, 12  
**Credits:** **SHS:** 2 FINE ART credits per semester (8 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Schedule:** Fall or Spring Semester  
**Prerequisite:** None  
**Location:** Dean Lakes Building – SHAKOPEE

In this fun, fast-paced course, you will learn how to create your own, truly great photographs. By the end of this course, you will also be able to take control of any camera, direct people for better portraits, shoot in a studio, edit in Photoshop like a professional and even print traditional black and white photos in a darkroom. This is a hands-on course! The majority of your class time will be spent working on your very own unique photographs.

*\*Articulated College Credit (option), Articulated College Credits, Hands-on Experience*

**PHOTOGRAPHY 2: PHOTO AND VIDEO PRODUCTION**

**Grades:** 11, 12  
**Credits:** **SHS:** 2 FINE ART credits per semester (8 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Schedule:** Fall or Spring Semester  
**Prerequisite:** Photo 1  
**Location:** Dean Lakes Building – SHAKOPEE

After mastering the controls of a camera and the basic processes of photography, this course gives you the opportunity to apply those skills to professional-like photography assignments. Those cover the range from portraits, photojournalism, advertising, landscape and much more. This course should give you foundation in the skills necessary to be a professional photographer. Students may register for either semester or both.

*\*Articulated College Credit (option), Articulated College Credits, Hands-on Experience*

**ADV. PHOTOGRAPHY: ADV. PRODUCTION LAB**

**Grades:** 11, 12  
**Credits:** **SHS:** 2 FINE ART credits per semester (8 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Schedule:** Fall or Spring Semester  
**Prerequisite:** Photo 2  
**Location:** Dean Lakes Building – SHAKOPEE

In Advanced Photo 1, you will refine your skills and be pushed into truly developing your own unique style for your photography. Throughout the semester you will develop a truly stunning professional print and web-based portfolio. This course is for those who are truly dedicated to the craft of photography and willing to spend a fair amount of time both in and out of school working on their own photography. Students may register for either semester or both.

*\*Articulated College Credit (option), Articulated College Credits, Hands-on Experience*

**GRAPHIC DESIGN AND PRINT 1: A & B**

**Grades:** 11, 12  
**Credits:** **SHS:** 2 FINE ART credits per semester (4 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Prerequisite:** None  
**Location:** Dean Lakes Building – SHAKOPEE

The Graphic Design and Print program's Intro to Design and Color Theory course is designed for any student with an interest in the digital arts. Students in the first year of the program develop a strong design foundation using industry-standard Adobe programs. During the first year of the program, students will have the opportunity to make T-shirts, buttons, car decals, posters and custom screen-printed products while gaining the necessary skills to stand out in a post-secondary program or jump right into industry opportunity.

**Fall Semester**

**Spring Semester**

- 
- Intro to Design and Color Theory
  - Typography
  - Custom Stickers and Buttons
  - T-shirt Design
  - Mac OS Overview
  - Adobe Illustrator
  - Exporting DXF Files & Vinyl Cutting
  - Intro to Screen Printing
  - Adobe Photoshop
  - Intro to Animation

- 
- Adobe InDesign
  - Advertising Layout
  - Printing and Binding Techniques
  - Packaging
  - Publication Layout
  - Intro to web design
  - Branding
  - Industry Application – Job Costing, Design Briefs, Workflow, File Management

## ARTS, COMMUNICATION AND INFORMATION SYSTEMS (cont.)

### GRAPHIC DESIGN AND PRINT 2: A & B

**Grades:** 12  
**Credits:** SHS: 2 FINE ART credits per semester (4 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Prerequisite:** Graphic Design and Print 1  
**Location:** Dean Lakes Building – SHAKOPEE

Second year students in the Graphic Design and Print program will focus on the skills needed to create a web presence. These students will also have the opportunity to work for real clients who need design work completed. Students will leave the second year of the program with a portfolio, website and professional experience to start a career in design.

Fall Semester	Spring Semester
<ul style="list-style-type: none"> <li>• Introduction to Web Design</li> <li>• Advanced Screen Printing</li> <li>• Portfolio Building</li> </ul>	<ul style="list-style-type: none"> <li>• Marketing</li> <li>• Client Assignments and Internships</li> <li>• Mobile Development</li> <li>• Personal Website Building</li> <li>• Introduction to Animation</li> <li>• Social Media Presence</li> <li>• Portfolio Building</li> <li>• Client Assignments and Internships</li> </ul>

### COMPUTER REPAIR – A & B

**Grades:** 11, 12  
**Credits:** SHS: 2 credits per semester (4 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Prerequisite:** None  
**Location:** Dean Lakes Building – SHAKOPEE

**Fall Semester** You will learn the parts and components of computer hardware including...

<ul style="list-style-type: none"> <li>• Being a PC technician</li> <li>• System Components: power supply, motherboard, processors, etc.</li> <li>• Peripheral Devices: USB, display, firewire, etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Storage: optical drives – ATA, Serial ATA, SCSI, File System, RAID</li> <li>• Networking: hardware, Ethernet, network addressing – IP v4, IP v6, utilities, HomeGroup</li> </ul>	<ul style="list-style-type: none"> <li>• Printing: printers, configuration, management, maintenance</li> <li>• Mobile Devices: notebook computers, apps, maintaining</li> </ul>
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**Spring Semester** You will learn about the operating systems, specifically user and computer settings...

<ul style="list-style-type: none"> <li>• Windows System Management: preferences, performance, users and groups, applications, updates</li> <li>• System Implementation: components, pre/post considerations</li> <li>• File Management: locations, managing, NTFS, sharing, offline</li> </ul>	<ul style="list-style-type: none"> <li>• Security: best practices, physical, social, BIOS, malware, authentication, encryption, firewalls, proxy</li> <li>• Troubleshooting: motherboard, storage, video, etc.</li> </ul>
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*\*Hands-on Experience, Industry Certification- PCPro certificate*

### COMPUTER NETWORKING – A & B

**Grades:** 12  
**Credits:** SHS: 2 credits per semester (4 total)  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Prerequisite:** Computer Repair  
**Location:** Dean Lakes Building – SHAKOPEE

Computer Networking explains how the internet and computer networks work. It covers computer to computer communication and the various communication pathways in detail. Computers communicate mostly using a “contention” method of signaling. This is similar to the classroom where students “contend” to speak in the class by raising their hand. Students who take this class generally want to...

- Go to college (2 or 4 year) in some aspect of computers and computer networks – hardware, networking or programming.
- Understand more about computer technology than was taught in the Computer Repair course.
- Understand a “language” of inter (personal, computer) communication and are interested in how communication takes place in general.
- Apply themselves to an interesting, technical subject that is in use all over the world
- Obtain a Network Pro or Network Plus certification.

A mastery level understanding of computers and an introductory understanding of computer networks is required for successful completion of this course – these can be obtained in the Computer Repair course which is a prerequisite. Students are encouraged to start in fall semester. Taking or passing the Network Pro or Network Plus exam is not a course requirement and does not count negatively toward your grade. You will be offered a chance to take the Network Pro exam during class.

Fall Semester		
<ul style="list-style-type: none"> <li>• Networking Basics</li> <li>• Cables and Connections</li> <li>• Networking Devices</li> </ul>	<ul style="list-style-type: none"> <li>• Ethernet</li> <li>• Network Implementation</li> <li>• Wireless Networking</li> </ul>	<ul style="list-style-type: none"> <li>• Wide Area Networks</li> </ul>
Spring Semester		
<ul style="list-style-type: none"> <li>• Network Security</li> </ul>	<ul style="list-style-type: none"> <li>• Network Management</li> </ul>	<ul style="list-style-type: none"> <li>• Troubleshooting</li> </ul>

*\*Hands-on Experience, Industry Certifications- Network Pro certification*

Southwest Metro Educational Cooperative  
**HEALTH SCIENCE**

**EMERGENCY MEDICAL RESPONDER (EMR)**

**Grades:** 11, 12  
**Credits:** SHS: 2 credits  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Schedule:** Fall Semester  
**Prerequisite:** None  
**Location:** 401 Building – CHASKA

Medical training required for firefighters and law enforcement, students will learn about emergency services, advanced first aid, and healthcare provider CPR. This course includes a focus on learning anatomy and physiology and provides many field experiences to practice hands-on skills.

- Students will learn how to identify and treat cardiac arrest (CPR), choking patients, and initiate lifesaving care to critical patients.
- Students will be able to explain body systems, structures, common conditions, and describe how to treat patients with a range of medical conditions and injuries.
- Students will be able to describe and explain emergency operations and develop a foundation for working in hospitals, ambulances, fire departments, air care, police departments, and other Emergency Medical Service based locations.

*\*Hands-on Experiences, Tours, College Credits, Certifications EMR MN Certified, FEMA IS 100b & 700-BLS-HCP, American Heart Association*

**EMERGENCY MEDICAL TECHNICIAN (EMT)**

**Grades:** 11, 12  
**Credits:** SHS: 2 credits  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Schedule:** Spring Semester  
**Prerequisite:** EMR  
**Location:** 401 Building – CHASKA

EMTs are clinicians, trained to respond quickly to emergency situations regarding medical issues, traumatic injuries and accident scenes. EMTs are often employed by ambulance services, governments, and hospitals. They are sometimes employed by fire departments and in police departments. There are many EMTs that are also police officers or firefighters. EMTs operate under a limited scope of practice and are typically supervised by a medical director who is a physician. Having taken **EMR is a prerequisite** for this semester-long course.

*\*Hands-on Experiences, Field Experience, Industry Certifications- National Registry of EMT, Hazardous Material Awareness FSDAP*

**NURSING ASSISTANT**

**Grades:** 11, 12  
**Credits:** SHS: 2 credits  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Schedule:** Fall or Spring Semester  
**Prerequisite:** None  
**Location:** 401 Building – CHASKA

Approved through the Minnesota Department of Health, Nursing Assistant will train students to work directly with residents of a long-term care facility. Clinical rotations are conducted at Auburn Manor in Chaska. Students will learn the curriculum and skills required to take the state Nursing Assistant Registry Exams. Students also earn certifications in basic first aid and CPR through the American Heart Association.

*\*Articulated College Credits (4-credits), Field Experience, Certifications- Certified NA, MN State Health Department and National Health Care*

**MEDICAL TERMINOLOGY**

**Grades:** 11, 12  
**Credits:** SHS: 2 credits  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
**Schedule:** Fall or Spring Semester  
**Prerequisite:** None  
**Location:** 401 Building – CHASKA

This course is an introduction to medical terminology and the language of medicine. Students will gain an understanding of how complex medical terms are formed from Latin and Greek word parts utilizing root words, prefixes, and suffixes. With a specialized focus:

- Anatomy and Physiology of the body systems
- Pathology
- Diagnostic procedures
- Pharmacology

Emphasis is placed on spelling and pronunciation of medical terms. This course will prepare a student with the basic knowledge of medical terminology.

*\*Articulated College Credits (2-credits), Hands-on Experience*

## Glossary of Terms

**Academy Elective:** An elective course within an academy that builds on the programs of study and is available to students outside of the academy.

**Accelerated Sequence:** Courses that are taught using next or above grade level curricular standards.

**ACT:** ACT assessment is a five-hour national college admissions test that includes five sections: English, Math, reading, science and writing. Most colleges will accept a student's ACT scores as part of the admissions evaluation. Eleventh grade students take this assessment that is administered in the high school.

**Advanced Course:** The third course in a sequence of courses within a program of study. These courses must include value added programming. Typically, taken by 11<sup>th</sup> and 12<sup>th</sup> graders within the academy.

**Advanced Placement (AP):** These courses are yearlong courses vetted by the College Board that culminate with a high stakes test in May (scores of 3+ generally earn college credit).

**Areas of Interest:** Broad area of interests commonly used by universities and the Minnesota Department of Education as career clusters.

**CAPS Program:** A profession-based, immersion program for 11<sup>th</sup> and 12<sup>th</sup> grade students who attend class, with a Shakopee High School teacher, at an industry partner location, with an opportunity for a second-semester internship.

**College Admissions Test:** A test often required by four-year colleges to help determine which students to admit to their school. The most common tests are the ACT and SAT.

**College in the Schools (CIS):** These courses are University of Minnesota-Twin Cities (U-MN) courses taught in the high school by high school teachers approved and trained by U-MN faculty.

**Concurrent Enrollment:** Refers to college-level courses offered for both high school and college credit simultaneously. There are several options available to students for earning concurrent enrollment credits.

**Co-requisite:** course of study required to be taken simultaneously with another

**FAFSA:** The Free Application for Federal Student Aid. This form is required for any student who wants to be considered for federal aid of any kind.

**Financial Aid:** Money to help pay for college.

**Gateway Course:** A quarter length course that introduces each Area of Interest and is a requirement for 6<sup>th</sup> and 7<sup>th</sup> grade students at the middle level.

**Global Elective:** A course that is not embedded within an academy. Typically meets a post-secondary or graduation requirement (e.g. World Language, Fine Arts).

**GPA:** The abbreviation for grade point average. The average of a student's grades.

**Intermediate Course:** The second course in a sequence of courses within a program of study. Typically taken by 9<sup>th</sup> to 11<sup>th</sup> graders within the academy.

**Introductory Course:** The first course in a sequence of courses within a program of study. Typically, taken by 9<sup>th</sup> or 10<sup>th</sup> graders exploring academies.

**PLTW:** Project Lead The Way. Project Lead The Way is a nonprofit organization that provides a transformative learning experience for K-12 students and teachers.

**Post-Secondary:** Education taking place following graduation from a high school.

**Prerequisite:** A prerequisite is a required course that is to be completed before a student can take a course in question.

**Programs of Study:** A sequence of courses that increase in depth and complexity in a more focused program within an Area of Interest and directly relates to 2-yr and 4-yr post-secondary options and relevant career opportunities.

**PSAT:** Preliminary Scholastic Aptitude Test, an exam given to high school sophomores and juniors to prepare for the SAT. The PSAT taken junior year is the only test that qualifies students for the National Merit Scholarship.

**PSEO:** An abbreviation that refers to "Postsecondary Enrollment Option", a program that allows high school students to earn college credit while still in high school through enrollment and successful completion of college-level courses.

**SAT:** A test of a student's academic skills, used for admission to US colleges.

**Secondary:** This term refers to middle and high schools.

**Transcript:** A record of your academic progress.

**Twice-Accelerated Sequence:** Courses are taught using the grade level standards of the course two grade levels ahead.

**University:** An educational institution designed for instruction, examination, or both, of students in many branches of advanced learning, conferring degrees in various faculties, and often embodying colleges and similar institutions.

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