



*Shakopee*  
**PUBLIC SCHOOLS**  
**EDUCATION FORWARD**

HIGH SCHOOL  
REGISTRATION GUIDE  
2018-2019







## Shakopee High School

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**Temporary Acting Interim Superintendent:** Jon McBroom  
**Executive Principal:** Jeff Pawlicki  
**Academy Principal:** Sarah Jordan  
**Academy Principal:** Stuart Lang  
**Academy Principal:** Scott Doran  
**Academy Principal:** Ed Cox

January 2018

Dear SHS Students and Parents:

Welcome to the 2018-2019 Course Registration Guide! In it you will find valuable information as we open the Academies of Shakopee this coming fall. Please take the time to review the information provided. In addition, SHS will also provide multiple resources and time to confer with counselors, teachers and administrators to help answer your questions.

As we transition into the academy model, it is important to remember that no matter what academy a student chooses our focus is on college and career readiness. Choosing an academy will not limit student options, but rather allow students to explore many career fields and opportunities. Exploring a defined pathway in their education will give them a deeper look into an area of interest. 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 by early Spring. Course requests will determine staffing and scheduling, so please read this guide carefully 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.

Thank you,

Jeff Pawlicki  
Principal  
Shakopee High School  
952.496.5150

# Mission

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



## School Board Members

Scott Swanson -Chairperson; Angela Tuckker -Vice Chairperson;  
Shawn Hallett -Clerk; Matt McKeand -Treasurer; Reggie  
Bowerman -Member; Mary Romansky -Member; Tony Pass -Member

## District Administration

-- 952.496.5000 --

Jon McBroom -Temporary Acting Interim Superintendent  
Nancy Thul -Director of Teaching & Learning  
Julie Menden -Director of Special Services

## High School Administration

-- 952.496.5152 --

Jeff Pawlicki | Executive Principal  
Sarah Jordan - ext. 5163 | Assistant Principal (A - G)  
Stuart Lang - ext. 5159 | Assistant Principal (H - N)  
Scott Doran - ext. 5169 | Assistant Principal (O - Z)

## East Junior High School Administration

-- 952.496.5702 --

Jim Miklausich - | East JH Principal  
Mandy Hainline - ext. 5707 | Assistant Principal  
Matt Headrick - ext. 5709 | Assistant Principal

## West Junior High School Administration

-- 952.496.5752 --

Lori Link - | West JH Principal  
Paul Nettesheim - ext. 5759 | Assistant Principal  
Joel Young - ext. 5762 | Assistant Principal

## High School Counselors

Erica Lang - ext. 5187 | A - D  
Kelsey LaRue - ext. 5179 | E - Ji  
Beth Cordes - ext. 5196 | Jj - Mi  
Nicole Drangstveit - ext. 5164 | Mj - Sc  
Jenny Severson - ext. 5188 | Sd - Z

## Junior High Counselors

Tracy Caruso- ext. 5773  
Megan Morinville - ext. 5711  
West - Amy Gerster - ext. 5723  
West - Erin Richter - ext. 5739

## Excellence with Equity Team

Ray Betton - ext. 5148  
Gospel Kordah - ext. 5771  
Sean McMoore - ext. 5778  
Juan Mitchell - ext. 5149  
Bethany Pearson - ext. 5176

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Shakopee School District 720 does not discriminate on the basis of race, color, creed, religion, national origin, sex, age, marital status, status with regard to public assistance, sexual orientation or disability in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of their operations.

# Graduation Requirements

## **LOCAL GRADUATION REQUIREMENTS**

*Students must earn 48 credits in grades 9-12, for the graduating classes of 2019, 2020 & 2021, in order to graduate from Shakopee High School. Beginning with the graduating class of 2022 students must earn 49 credits in order to graduate. New requirements will include completion of a Program of Study (3-Courses) and a Freshman Seminar course. Please refer to the table below to review your specific graduating class requirements. Each student should plan to carry a minimum of six (6) classes per semester, with the class of 2022 needing to take 7 credits at least 1 semester to reach 49 total credits.*

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

<b>Subject</b>	<b>Class of 2019 Class of 2020 Class of 2021</b>	<b>Class of 2022 &amp; Beyond</b>
English	8	8
Mathematics	6	6
Social Studies	8	7
Science	6	6
Fine Arts	2	2
Health	1	1
Physical Education	2	2
Freshman Seminar	0	1
Program of Study Electives	0	3
Additional Electives	15	13
<b>Total Credits Required:</b>	<b>48</b>	<b>49</b>

## **Daily Schedule – Potential Changes**

*A seven-period day will continue to be the daily schedule at Shakopee High School for the upcoming 2018-19 school year. Shakopee Schools is currently reviewing other options for a daily schedule, for the purpose of improving flexibility and choice for students. Other daily schedules could allow more elective choices and enhanced graduation requirements, such as Financial Literacy. For example, the option of longer blocks of time for instruction than the current daily schedule may offer better opportunities to collaborate with community and business partners, and give teachers more time to individualize instruction for students. When a decision is finalized, it could impact the graduation requirements for classes graduating in 2020 and beyond. Any recommended changes will be communicated to students and families and will be implemented to create minimal impact for students' graduation plans.*

## TYPICAL COURSES OFFERED THAT MEET GRADUATION REQUIREMENTS

### FRESHMAN SEMINAR (1 Credit - Offered Every Other Day)

#### 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)

- 9-12 | Fit For Life or Intro to Sport Performance 9
- 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) – 2019

- 9 | Physical Science 9 OR Honors Physical Science 9
- 10 | Biology OR Honors Biology OR Honors Chemistry
- 11 | Chemistry OR Honors Chemistry OR AP Biology

#### SCIENCE (6 Credits) – Class of 2020 & Beyond

- 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

#### 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 two semesters. A successfully completed one-semester course will earn one semester credit. Courses concurrently enrolled with a college or university will earn one high school 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/Length: 2 Credits – Full Year

Prerequisite: None

NCAA Core Course

### High School & College Credit Option

#### CIS: Introduction to Public Speaking (COMM 1101)

Grade Level: 11, 12

Credits/Length: SHS: 1.5 Credits – 1 Semester

College: 3 semester credits from the University of Minnesota/Twin Cities

Prerequisite: None

Eligibility: Must meet the University of Minnesota's course admission requirements: Must be a junior or senior in the top 50% of the class

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 course work. 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. Choosing the appropriate graduation plan within Family Connection can help each student meet the requirements for their perspective colleges. Your Post-Secondary Counselor, can assist with researching specific college requirements.



*(Some Colleges have admission standards that include Fine Art 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\*
- 9<sup>th</sup> Grade Choir\*
- Acting 1
- AP Studio Art\*
- Behind the Scenes: Production & Technical Design
- Bel Canto Choir\*
- Ceramics 1\*
- Ceramics 2\*
- Concert Band\*
- Concert Choir\*
- Design Fundamentals
- Digital Design 1\*
- Digital Design 2\*
- Drawing, Painting and Printmaking\*
- Elements of Media Production
- Fashion Merchandising & Design
- Interior Design
- Photography 1\*
- Photography 2\*
- Practical Art\*
- Rock Band Essentials\*
- Saber Choir\*
- Symphonic Band\*
- Theatre
- Wind Ensemble\*
- Wood Production Technologies
- Woodworking 3
- Writing for Media
- Writers' Workshop

### **Previous Fine Arts Courses**

- AP Music Theory\*
- Art Foundations\*
- Creative Sewing
- Drawing, Painting and Printmaking 2\*
- Fashion 1
- Fashion 2 & Costume Design
- Graphic Design
- Intro to Art
- Interior Design 2
- Sculpture 1\*
- Sculpture 2\*
- Textile Arts
- Theatre 2
- Web Design 1
- Web Design 2
- Woodworking 1

\* 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 challenge for students who demonstrate a need for a more rigorous curriculum. Students are identified for these courses in the middle levels, but these advanced options are open to a wider range of students as they move into AP and college credit course options at the High School.

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## 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:** No accelerated options are offered in middle school, but students do 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 School's "[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>)

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## 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. Part of students' experiences in an AP course, and what makes them eligible for college credit, is 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) is a dual enrollment program in which students who successfully complete a course receive 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 (such as PSEO, CIS and AP). 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.

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

##### Identification for Accelerated Courses

- **Accelerated Courses** | To be identified for Accelerated courses, students 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, study 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 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 teacher as the course progresses.
    2. Teacher makes sure that Parent(s) are included in on discussion 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 student throughout the course.
    2. The teacher discusses the concerns with Parent/Guardians as soon as appropriate.
    3. The parties agree to a performance contract, signed by student & 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]

## 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	2.0	10
English 11 – A & B	2.0	11
AP Language & Composition	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 – A & B	2.0	11,12
CIS: Introduction to Literature	2.0	12
CIS: Introduction to Public Speaking	1.5	11,12
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	11,12
*College Algebra through Modeling – A & B	2.0	11,12
*CIS CSE Calculus I – A & B	2.0	10,11,12
AP Calculus BC – A & B	2.0	10,11,12
*AP Statistics – A & B	2.0	10,11,12

## Science Requirements

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

## Global Electives

	Credit	Grades
GLO: Great Leadership Opportunities – A & B	1.0	12
Unified Physical Education	1.0	11,12
*Team & Individual Sports 1	1.0	10,11,12
*Team & Individual Sports 2	1.0	10,11,12
Yearbook Journalism	1.0	10,11,12
*Yearbook Journalism 2	1.0	10,11,12
*Yearbook Editor	1.0	11,12
<b>Media Arts – Fine Art Electives</b>		
!Elements of Media Production	1.0	9,10,11,12
!Writing for Media	1.0	9,10,11,12
!Writers' Workshop	1.0	10,11,12
<b>Music – Fine Art Electives</b>		
!Rock Band Essentials	1.0	10,11,12
!*9 <sup>th</sup> Grade Band – A & B	1.0	9
!Symphonic Band – A & B	1.0	10
!Concert Band – A & B	2.0	11,12
!Wind Ensemble – A & B	2.0	11,12
!9 <sup>th</sup> Grade Choir – A & B	1.0	9
!Saber Choir – A & B	2.0	10,11,12
!*Bel Canto Choir – A & B	1.0	11,12
!*Concert Choir – A & B	2.0	11,12
<b>Theater – Fine Art Electives</b>		
!Theatre	1.0	9,10,11,12
!*Acting	1.0	10,11,12
!Behind the Scenes: Production & Technical Design	1.0	9,10,11,12
<b>Visual Arts – Fine Art Electives</b>		
!Design Fundamentals	1.0	9,10,11,12
!Ceramics 1	1.0	9,10,11,12
!*Ceramics 2	1.0	10,11,12
!*Drawing, Painting, & Printmaking	1.0	10,11,12
!Digital Design 1	1.0	9,10,11,12
!*Digital Design 2	1.0	10,11,12
!Fashion Merchandising & Design	1.0	9,10,11,12
!Interior Design	1.0	9,10,11,12
!*Photography 1	1.0	10,11,12
!Practical Art	1.0	9,10,11,12
!*Advanced Art Studio	1.0	11,12
!*AP Studio Art – A & B	2.0	11,12
!*Wood Production Technologies	1.0	10,11,12
!*Woodworking 3	1.0	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	9,10,11,12
*German 4 – A & B	2.0	10,11,12
*CIS: German 1003 – A & B	2.0	10,11,12
Japanese 1 – A & B	2.0	9,10,11,12
*Japanese 2 – A & B	2.0	10,11,12
*Japanese 3 – 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
*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
*CIS: Spanish 1003/1004	5.0	10,11,12

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

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

### Arts & Communications

	Credit	Grades
!Behind the Scenes: Production & Technical Design	1.0	9,10,11,12
!Design Fundamentals	1.0	9,10,11,12
!Elements of Media Production	1.0	9,10,11,12
!Writing for Media	1.0	9,10,11,12
!Content Creation for Online Media	1.0	10,11,12
!Digital Design 1	1.0	9,10,11,12
!Fashion Merchandising & Design	1.0	9,10,11,12
!Interior Design	1.0	9,10,11,12
!*Photography	1.0	10,11,12
*Production Management	1.0	10,11,12
*Video Production	1.0	10,11,12
*Shakopee CAPS Digital Design	3 – 6	11,12
!*Acting	1.0	10,11,12
!*Digital Design 2	1.0	10,11,12
Public Speaking	1.0	10,11,12
!Rock Band Essentials	1.0	10,11,12

### Business & Entrepreneurship

Business Dynamics	1.0	9,10,11,12
Culinary Arts 1	1.0	9,10,11,12
Accounting 1	1.0	10,11,12
*Culinary Arts 2	1.0	10,11,12
*Entrepreneurship	1.0	10,11,12
Management & Leadership	1.0	10,11,12
Marketing	1.0	10,11,12
Shakopee CAPS Business Administration & Management	4-8	11,12
*Accounting 2	1.0	10,11,12
Baking & Pastry	1.0	10,11,12
Business Technology	1.0	9,10,11,12
CIS: Principles of Microeconomics – A & B	2.0	12
*Culinary Arts 3	1.0	10,11,12
Law and Business Strategy	1.0	10,11,12
Personal Finance: Money Management & Wealth Building	1.0	10,11,12
Sports & Entertainment Marketing	1.0	10,11,12

### Engineering & Manufacturing

Civil Engineering & Architecture (PLTW) – A & B	2.0	9,10,11,12
Intro to Engineering Design (PLTW) – A & B	2.0	9,10,11,12
Intro to Manufacturing (Woodworking 1)	1.0	9,10,11,12
Small Gas Engines	1.0	9,10,11,12
*Aerospace Engineering (PLTW) – A & B	2.0	10,11,12
*Computer Integrated Manufacturing (PLTW) – A & B	2.0	10,11,12
Construction 1 – A & B	2.0	10,11,12
*Marine, Motorsport, & Outdoor Power Equipment	1.0	10,11,12
*Principles of Engineering (PLTW) – A & B	2.0	10,11,12
!*Wood Production Technologies (Woodworking 2)	1.0	10,11,12
!*Woodworking 3	1.0	10,11,12
*Engineering Design & Development (PLTW) – A & B	2.0	11,12
*Super High Mileage Vehicle	1.0	10,11,12
Welding 1	1.0	10,11,12
*Welding 2 – Design & Fabrication	1.0	10,11,12

### Health Science

	Credit	Grades
Human Body Systems	1.0	9,10,11,12
Emergency First Responders	1.0	10,11,12
*Global Health & Disease Prevention	1.0	10,11,12
*Human Movement Sciences	1.0	10,11,12
Principles of Biomedical Science (PLTW) – A & B	2.0	10,11,12
Nursing Assistant – A & B	2.0	11,12
Medical Interventions (PLTW) – A & B	2.0	11,12
Shakopee CAPS Healthcare & Medicine	3 – 6	11,12
*CIS: Human Physiology, Technology, and Medical Devices – A & B	2.0	11,12
Nutrition for the Human Body	1.0	9,10,11,12

### Human Services

Criminal Justice & the Court	1.0	9,10,11,12
Human Relations	1.0	9,10,11,12
Intro to Human Development	1.0	9,10,11,12
*A Case for Justice	1.0	10,11,12
*Exploring Education	1.0	10,11,12
*Positive Psychology: Building People and Community	1.0	10,11,12
*Social Injustice and Political Action	1.0	10,11,12
*Multicultural Education	1.0	11,12
*Advanced Child Development	1.0	10,11,12
Sociology of the Family	1.0	10,11,12

### Science & Technology

Computer Science Principles (PLTW) – A & B	2.0	9,10,11,12
Electricity	1.0	9,10,11,12
Energy, Food and The Outdoors	1.0	9,10,11,12
Principles of Computer Hardware	1.0	9,10,11,12
*Computer Networking and Management	1.0	10,11,12
*Mobile OS Development	1.0	10,11,12
*Web Development	1.0	10,11,12
*Ecology	1.0	11,12
Environmental Ethics	1.0	11,12
Cyber Security	1.0	10,11,12
Instructional Technology Solutions	1.0	10,11,12

### Special Permission Courses

Algebra 1 – A & B	2.0	9,10,11,12
EL 100 – Level 1	2.0	9,10,11,12
EL 200 – Level 2	2.0	9,10,11,12
EL 300 – Level 3	1.0	9,10,11,12

### Southwest Metro ED Co-op

Intro to Agriculture, Food & Natural Resources	4.0	11,12
Agriculture Science	4.0	11,12
Automotive Technology – A & B	4.0	11,12
Construction – A & B	2.0	11,12
Child Development Associate Credential	2.0	11,12
Introduction to Education – A & B	2.0	11,12
Multicultural Education & Human Relations in Schools	2.0	11,12
Computer Repair – A & B	4.0	11,12
Computer Networking – A & B	4.0	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 & Printing 2 – A & B	4.0	11,12
Medical Careers – A & B	4.0	11,12
Photography 3	2.0	11,12
Photography 4	2.0	11,12
Photography 5	2.0	11,12

# 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







# ***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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## Freshman Seminar

### Freshman Seminar

**Grade Level:** 9

**Credits/Length:** 1 Credit – Full Year

**Schedule:** Every Other Day

**Prerequisite:** None

**Description:** During the 9th 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.

*\*\*\* Students enrolled in AVID will use this course to meet their AVID elective requirement.*

## English Language Arts

Shakopee School Board's Graduation Requirements policy requires that four years' equivalent of English Language Arts courses are taken by students during their high school career (8 total credits from the courses in this section).

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

### Grade 9 Requirement Options

#### English 9 – A & B

**Grade Level:** 9

**Credits/Length:** 2 Credits – Full Year

**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, and research/persuasive 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.

#### Accelerated English 9 – A & B

**Grade Level:** 9

**Credits/Length:** 3 Credits – Full Year

**Prerequisite:** None

**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 9th-12th grade standards. This course will compact and address critical 9th and 10th 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/Length:** 2 Credits – Full Year

**Prerequisite:** None

**NCAA Core Course**

**Description:** English 10 focuses on American Literature. The course emphasizes reading strategies and writing process skills to prepare students for higher-level literary analysis and writing. Students read both classic and recent literature and non-fiction, write for a variety of purposes, and develop vocabulary and grammar skills throughout the semester.

Second Semester continues the theme of the American Dream with more focus on overcoming disadvantages and empowerment. The study of reading and writing continues with more emphasis placed on independent learning. Writing for argument, along with vocabulary and grammar, is the focus of many of the writing assignments.

#### Accelerated English 10 – A & B

**Grade Level:** 10

**Credits/Length:** 3 Credits – Full Year

**Prerequisite:** 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 9th-12th grade standards. This course will compact and address critical 11th and 12th 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 Requirement Options

#### English 11 – A & B

**Grade Level:** 11

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** None

**NCAA Core Course**

**Description:** English 11 is a full year, two-semester course which 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.

#### AP Language & Composition – A & B

**Grade Level:** 11, 12

**Credits/Length:** 2 Credits – Full Year

**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.

### Grade 12 Requirement Options

*(2 Credits Required)*

#### English 12: 21<sup>st</sup> Century Communication

**Grade Level:** 12

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**NCAA Core Course**

**Description:** 21<sup>st</sup> Century Communication is one semester of a 12th grade English program that 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 21st century modes of communication. Students will write for a variety of purposes with an emphasis on argumentation.

#### English 12: Exploring Self-Identity

**Grade Level:** 12

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**NCAA Core Course**

**Description:** Exploring Self-Identity is one semester of a 12th grade English program that 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 introspection and personal expression. Students will write for a variety of purposes with an emphasis on argumentation.

## Humanities - English

**Grade Level:** 11, 12

**Credits/Length:** 1 Credit – 1 Semester (2 hour block course)

**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 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.

## CIS: Introduction to Literature:

Poetry, Drama & Narrative (ENGL 1001W)

**Grade Level:** 12

**Credits/Length:** SHS: 2 Credits – 1 Semester

**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 junior with instructor approval.

**Fee:** Recommended field trip fee

**NCAA Core Course**

**Description:** CIS: Introduction to Literature is a semester course. This course 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 from 20th Century fiction. 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. Students successfully completing CIS Introduction to Literature will receive four University of Minnesota semester credits. College Credit is recorded on your official University of MN transcript.



## CIS: Introduction to Public Speaking (COMM 1101)

**Grade Level:** 11, 12

**Credits/Length:** SHS: 1.5 Credits – 1 Semester

**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 junior or 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.



## CIS: University Writing (WRIT 1301)

**Grade Level:** 12

**Credits/Length:** SHS: 2 Credits – 1 Semester

**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 junior with instructor approval.

**Fee:** Recommended field trip fee

**Required Materials:** 6 folders to submit work

**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, perfect grammar knowledge, 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.



A paper receiving an "A" in an Honors English 10 course may only be a "C" in CIS Writing. This is a college-level course – not a preparatory class- and is graded as such. To earn a high grade, students can expect to spend 8-10 hours a week outside of school researching and writing.

### 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 Academy sections of this guide.*

#### Introductory Required Physical Education Options

(Choose 1 course for required credit)

##### **Fit For Life**

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

**Credits/Length:** 1 Credit – 1 Semester

**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 non-competitive lifetime activities through the development of the National Physical Education Standards. This course may best suit the student who does not enjoy a competitive class and is interested in learning how to live a healthy lifestyle. Be Fit- Be Healthy- Be Happy!

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

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

**Credits/Length:** 1 Credit – 1 Semester

**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 physical activity 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/Length:** 1 Credit – 1 Semester

**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 learn and develop innovative 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 enjoys individual activities and is interested in learning how to live a healthy lifestyle. Be Fit- Be Healthy- Be Happy!

##### **Advanced Sport Performance**

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

**Credits/Length:** 1 Credit – 1 Semester

**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 team activities and improving their sport performance.

#### Grade 10-12 Required Health

##### **Healthy Lifestyles**

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

(strongly encourage students to take Sophomore year)

**Credits/Length:** 1 Credit – 1 Semester

**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), Excessive Consumption of Fats and Calories, 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 three years' equivalent of Mathematics courses are taken by students during their high school career (6 total credits from the courses in this section). 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
<b>9</b>	Geometry	No Partial Acceleration Option	Accelerated Algebra 2	Pre-Calculus
<b>10</b>	Algebra 2	Accelerated Algebra 2	Pre-Calculus	<b>CIS</b> CSE Calculus I
<b>11</b>	Functions, Statistics & Trigonometry	Pre-Calculus	<b>CIS</b> CSE Calculus I <b>AP</b> Statistics Calculus	<b>AP</b> Calculus BC <b>AP</b> 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.

#### Geometry – A & B

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

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** Algebra 1

**Required Materials:** Scientific calculator

**NCAA Core Course**

**Description:** This is a two-semester sequential geometry course for students who plan to continue into other courses of mathematics and science. It may be taken by itself or at the same time as any math course after Algebra 1. The study of geometry will develop the student's ability to think logically and to realize the importance of geometry in the world around us.

#### Algebra 2 – A & B

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

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** Geometry

**Required Materials:** Graphing calculator

**NCAA Core Course**

**Description:** This is a two-semester 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.

#### Accelerated Algebra 2 – A & B

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

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** Geometry or placement by district identification criteria

**NCAA Core Course**

**Description:** Accelerated Algebra 2 is a one-year Algebra 2 course to prepare students for Pre-Calculus. Topics covered may include various functions (linear, quadratic, polynomial, exponential, logarithmic, and rational), probability and statistics, sequences and series, and trigonometry.

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

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

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** Algebra 2

**NCAA Core Course**

**Description:** This is a two-semester 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, as well as MCA III and ACT review.



## Pre-Calculus – A & B

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

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** FST OR Accelerated Algebra 2

**Required Materials:** Graphing Calculator

**NCAA Core Course**

**Description:** This is a two-semester 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, limits, and series & sequences.

## Calculus – A & B

**Grade Level:** 11,12

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** Pre-Calculus

**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/Length:** SHS: 2 Credits – Full Year

**Prerequisite:** FST

**Description:** Construction of mathematical models from the viewpoints of theory and real data. Those models are then used to describe real-world phenomena, making predictions. Theoretical/practical development. Applications of linear, polynomial, rational, exponential, and logarithmic functions. Curve fitting, logistic equations. This course is an elective course for students looking for a fourth year of mathematics.



## CIS: CSE Calculus I (MATH 1371) – A & B

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

**Credits/Length:** SHS: 2 Credits – Full Year

**College:** 4 semester credits from the University of Minnesota/Twin Cities

**Prerequisite:** Pre-Calculus

**Eligibility:** Must meet the University of Minnesota's course admission requirements: Must be a junior or senior and have earned a grade of at least a B in both semesters of a rigorous Pre-Calculus course.

**NCAA Core Course**

**Description:** This course is articulated with the University Of Minnesota Department of Mathematics. Students who successfully complete both semesters 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

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

**Credits/Length:** SHS: 2 Credits – Full Year

**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/Length:** SHS: 2 Credits – Full Year

**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 (6 total credits from the courses in this section) of science, including one year of biology and one year of either chemistry or physics. Students in the graduating class of 2020 and beyond will be 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	
	Class of 2019	Class of 2020 & Beyond
9	Physical Science 9	Physics 9
10	Biology	Chemistry
11	Chemistry or Physics	Biology

\* Accelerated options listed within each section

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 1, AP Physics C, Physics, CIS: Human Physiology, Technology, and Medical Devices, Ecology.** These courses can be found within the Areas of Interest section of this guide. Parents and students are encouraged to investigate the admission requirements for specific colleges of their choice.

### Physics Requirement Options

#### Physics 9 – A & B

Grade Level: 9

Credits/Length: 2 Credits – Full Year

Prerequisite: None

**NCAA Core Course**

**Description:** Physics 9 is a student-centered, activity-based, concept-focused physics course that utilizes small group work and student discussion to develop concepts and solve problems. This course includes a study of motion, forces, energy, waves, and electromagnetism. Emphasis is placed on laboratory work and applying principles of physics to practical and common situations.

#### AP Physics I – A & B

Grade Level: 9,10,11,12

Credits/Length: SHS: 2 Credits – Full Year

**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

**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 – A & B

Grade Level: 12

Credits/Length: 2 Credits – Full Year – Chemistry/Physics Requirement

Prerequisite: Algebra 2

Required Materials: Calculator

**NCAA Core Course**

**Description:** Physics is a full year course consisting of two semesters. The course is designed for students looking to increase their reasoning skills through the study of why our physical environment behaves as it does. Physics is a good course for students looking to go to a two or four year college. Physics is much more than equations and numbers. Labs and activities investigating real world phenomena will be a regular focus of the class. Students will be expected to use Algebra, Geometry, and critical thinking skills regularly to solve problems and analyze situations. Students taking Physics should be willing to work in groups on labs and projects and have a desire to learn by doing.

### Chemistry Requirement Options

#### Chemistry – A & B

Grade Level: 10,11,12

Credits/Length: 2 Credits – Full Year

Prerequisite: Physical Science or Physics 9

Required Materials: Calculator

**NCAA Core Course**

**Description:** Chemistry is the science that models the composition, structure, properties, and change of matter. Students will learn the basic principles that describe matter by asking questions and defining problems, developing and using models, planning and carrying out investigations, and analyzing and interpreting data.



### AP Chemistry – A & B

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

**Credits/Length:** 3 Credits – Full Year

**Schedule:** 2 periods during Semester 1;  
1 period during Semester 2

**Prerequisite:** Physics (AP Physics 1 is strongly recommended)

**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 – A & B

**Grade Level:** 11,12

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** Chemistry, AP Chemistry, or Honors Chemistry

**NCAA Core Course**

**Description:** Biology is a two-semester (full year) class that explores the diverse world of living things. Topics covered include experimental design, characteristics of living things, how energy and matter flow through ecosystems, and evolution through natural selection. At the cellular level, the focus is on structure and function of cells, DNA, and molecules. The processes at the cellular level involve growth, reproduction and heredity. Building on knowledge and skills learned in Physics and Chemistry, students will engage in a variety of lab and group activities in order to utilize scientific skills and practices.

### AP Biology – A & B

**Grade Level:** 11,12

**Credits/Length:** 3 Credits – Full Year

**Schedule:** 1 period during semester 1 and 2 periods during semester 2

**Prerequisite:** 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. Due to the lab nature of this course, students will be asked to commit time outside of the regular school day during the second semester to complete certain coursework. 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 four years' equivalent of Social Studies courses are taken by students during their high school career (8 total credits from the courses in this section). 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/Length: 2 Credits – Full Year

Prerequisite: None

**NCAA Core Course**

**Description:** This year long human geography 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/Length: SHS: 2 Credits – Full Year

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.



### Grade 10 Requirement Options

#### Modern U.S. History – A & B

Grade Level: 10

Credits/Length: 2 Credits – Full Year

Prerequisite: None

**NCAA Core Course**

**Description:** This year long 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

Grade Level: 10

Credits/Length: SHS: 2 Credits – Full Year

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.



## Graduation Requirements Options

### Grade 11 Requirement Options

#### Modern World History – A & B

**Grade Level:** 11

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** None

**NCAA Core Course**

**Description:** This yearlong 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/Length:** SHS: 2 Credits – Full Year

**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/Length:** 1 Credit – 1 Semester

**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 situation, 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.

#### CIS: Principles of Microeconomics (APEC 1101)

**Grade Level:** 12

**Credits/Length:** SHS: 2 Credits – 1 Semester

**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.

**Fee:** Field trip fee

**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 Electives

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

### CIS: American Democracy in a Changing World (POL 1001)

Grade Level: 12

Credits/Length: SHS: 2 Credits – 1 Semester

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.

Fee: Recommended field trip fee

**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.



### CIS: Introduction to Psychology (PSY 1001)

Grade Level: 11,12

Credits/Length: SHS: 2 Credits – 1 Semester

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.

Fee: Recommended field trip fee

**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: 11,12

Credits/Length: 1 Credit – 1 Semester

Prerequisite: None

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

Graduation Requirement: Social Studies

Note: Students taking this class must also sign up for Ecology.

**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/Length: 1 Credit – 1 Semester (2 hour block course)

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 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.

### **Psychology**

**Grade Level:** 11,12

**Credits/Length:** 1 Credit – 1 Semester - Elective

**Prerequisite:** None

**Graduation Requirement:** Social Studies

**NCAA Core Course**

**Description:** No matter who you are or what you plan on doing in your life, taking a psychology course has massive benefits. By exploring such topics as personality, learning and motivation, neurobiology and social psychology you will not only improve your self-awareness, but gain the analytical and soft skills that will empower you to better understand, communicate and relate to the other people in your life. The insights you gain from psychology help you put life into perspective and better grasp what makes people tick. There isn't a single job in the world that you won't be better at doing if you can make better sense of the different people around you.

### **Sociology**

**Grade Level:** 11,12

**Credits/Length:** 1 Credit – 1 Semester - 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

## GLO: Great Leadership Opportunities – A & B

**Grade Level:** 12

**Credits/Length:** 1 Credit – Full Year

**Eligibility:** An application and interview with instructor is required

**Application:**

<https://goo.gl/nFmzHU>



**Description:** Students will have the opportunity to lead homeroom groups throughout the school in a variety of academic, career-planning, culture- and character-building activities. This course is for students interested in a real-life, hands-on leadership experience within the high school. Interested students will be self-motivated and passionate about changing our building for the better. "GLO taught me how to be responsible for something other than just my homework assignments," notes a former GLO leader. "I can't thank you enough for the lifelong skills you have taught me."

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

## Unified Physical Education

**Grade Level:** 11,12

**Credits/Length:** 1 Credit – 1 Semester



**Application:** <https://goo.gl/iPr1ev>

**Description:** Unified 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 their 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. This course does NOT meet a physical education graduation requirement for students serving in a mentorship role

## Team & Individual Sports 1

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

**Credits/Length:** 1 Credit – 1 Semester

**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/Length:** 1 Credit – 1 Semester

**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. Students will compete daily in various team and individual sports and are graded on the results of the competition. 20% of the course is devoted to fitness.

## Yearbook Journalism

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**NCAA Core Course**

**Description:** This journalism course gives you the basic knowledge and skills you need to be a part of SHS's student media. You will attend events, conduct interviews, and take photos in order to produce content for the school yearbook. Students should have an interest in hands-on work, storytelling, and media in general. A willingness to talk to people goes a long way. There are no prerequisites, but Photography, Graphic Design, and any writing course will be helpful.

## Yearbook Journalism 2

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Yearbook Journalism 1

**NCAA Core Course**

**Description:** Students who have taken Yearbook Journalism 1 can take this course to continue their learning. Students will continue to attend events, report on news, take photos and video and use advanced software to produce stories for the school yearbook. During this semester, students will take a more active role in determining content for publication, designing pages and layouts, and editing and revising others' work. Students who successfully complete this course will be able to apply for the position of Yearbook Editor in the following year.

## Yearbook Editor

**Grade Level:** 11,12

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Yearbook Journalism 2

**Description:** Yearbook Editor gives committed and dedicated students the opportunity to continue and enhance their involvement in the production of the yearbook. Students will gather information, photograph activities and events, write text, design layouts, and learn software applications used to create the yearbook (YearTech Online, Adobe Creative Suite, etc.). Students will also assume the role of editor and work to plan, approve, improve, and proofread their classmates' work. Finally, students will study advanced journalism and design concepts as well as explore the business management side of publication.

# Fine Arts Courses

## (2 Credits Required for Graduation)

### Media Arts

#### Elements of Media Production

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None



**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.

#### Writing for Media

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None



**Description:** In Writing for Media, students will demonstrate an understanding of how to write for multiple media platforms. Students will learn to gather and organize information, develop story ideas, research facts and write stories on deadlines. Students will develop an understanding of writing for publication on multiple media platforms, more generally, they will be able to write more effectively in a professional environment.

#### Writers' Workshop

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**NCAA Core Course**



**Description:** Writers' Workshop 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.

### Music

#### Rock Band Essentials

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None



**Description:** Do you want to learn about the music industry? Rock Band Essentials I 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.

### 9<sup>th</sup> Grade Band – A & B

**Grade Level:** 9

**Credits/Length:** 1 Credit – Full Year, meeting every other day

**Prerequisite:** Previous band experience



**Description:** This class is open to all students who have previous band experience. Band placement will be determined in the fall based on enrollment, instrumentation, ability, and program development. Band meets every other day and is scheduled as a class. Small group lessons are scheduled for each student, usually occurring on the alternate days. Assignments and assessments are given to fulfill the national arts standards. Course requirements and grading procedures can be found in the band syllabus. Bands perform at least three concerts each year: winter concert, mid-winter concert, and the spring concert.

### Symphonic Band – A & B

**Grade Level:** 10

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** None

**Fee:** A fee may be assessed for consumable supplies  
**Required Materials:** **1)** Must purchase shirt/sweatshirt for Pep Band performances (new members only). **2)** Up to \$60 rental fee for students using school-owned instruments. **3)** Each member must have a black dress shirt and pants or a non-casual black dress.



**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. This trip is optional and the student/family must raise funds to finance the trip. Fund raising opportunities will be organized by the Band Boosters.

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 before enrolling in band.

Students enrolling in Symphonic Band must attend summer rehearsals, which will start the 3<sup>rd</sup> week in August.

## Concert Band – A & B

**Grade Level:** 11,12

**Credits/Length:** 2 Credits – Full-Year

**Prerequisite:** None

**Fee:** A fee may be assessed for consumable supplies

**Required Materials:** **1)** Must purchase shirt/sweatshirt for Pep Band performances (new members only). **2)** Up to \$60 rental fee for students using school-owned instruments. **3)** Each member must have a black dress shirt and pants or a non-casual black dress.



**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. This trip is optional and the student/family must raise funds to finance the trip. Fund raising opportunities will be organized by the Band Boosters.

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 Concert Band. Students can start an instrument in high school but must consult the director for further information in the spring before enrolling in band.

Students enrolling in Concert Band must attend summer rehearsals, which will start the 3<sup>rd</sup> week in August.



## Wind Ensemble – A & B

**Grade Level:** 11,12

**Credits/Length:** 2 Credits – Full-Year

**Prerequisite:** None

**Fee:** A fee may be assessed for consumable supplies

**Required Materials:** **1)** Must purchase shirt/sweatshirt for Pep Band performances (new members only). **2)** Up to \$60 rental fee for students using school-owned instruments. **3)** Black dress shoes. **4)** Tuxedo shirt (men only)



**Description:** Wind Ensemble is made up of primarily juniors and seniors, although advanced sophomores may have the chance 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. This trip is optional and the student/family must raise funds to finance the trip. Fund raising opportunities will be organized by the Band Boosters.

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. The Wind Ensemble is an auditioned group. All students must audition the previous spring to be considered for the Wind Ensemble.

Students enrolling in Wind Ensemble must attend summer rehearsals, which will start the 3<sup>rd</sup> week in August.

## 9<sup>th</sup> Grade Choir – A & B

**Grade Level:** 9

**Credits/Length:** 1 Credit – Full Year, meeting every other day

**Prerequisite:** None

**NCAA Core Course**



**Description:** Choir is open to any student who wishes to sing. Individual voices are heard each fall for range and choir/ part placement. Course requirements, grading and discipline procedure can be found in the Choir Syllabus on our website. Assignments and assessments will be given in this class to insure students fulfill the National Arts Standards. Each choir performs 2 concerts per year and sings standard SATB, SSA and TB literature.

*\*Students may also participate in Jazz Band and Chamber Choir, which meets before/after school and is offered as extra-curricular activity. Students must try out for this activity in the fall\**



## Saber Choir – A & B

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

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** None

**Required Materials:** Black shoes, socks and pants/skirt

**Description:** Saber Chorale emphasizes musical and vocal development and the enjoyment of singing. Students will perform a broad range of literature from many musical style periods that include pop, Broadway theater, and classical. The Saber Chorale represents our school at MSHSL contests as well as community and school performances. Attendance at all performances is required.

Course work includes sight-reading, ear training, proper voice care, bi-monthly private lessons, and working cooperatively with others through the development of tone quality and blend.

## Bel Canto Choir – A & B

**Grade Level:** 11,12

**Credits/Length:** 1 Credit per Semester – Full Year

**Prerequisite:** Instructor Approval

**Fee:** A fee may be assessed for consumable supplies

**Required Materials:** Black shoes, socks pants/skirt

**Description:** The Bel Canto Singers is a women's choral group 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. The Bel Canto Singers represent the school in state/conference contests and festivals and community/school events and concerts. Attendance at all performances is required.

Students will explore a broad range of literature from many musical style periods that include pop, Broadway theater, and classical. Course work includes sight-reading, ear training, proper voice care, bi-monthly private lessons, and working cooperatively with others through the development of tone quality and blend.

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 the instructor if you are interested in membership.



## Concert Choir – A & B

**Grade Level:** 11,12

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** Approval from instructor

**Fee:** A fee may be assessed for consumable supplies

**Required Materials:** Black shoes, socks and pants/skirt

**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 on national/state tours, state/conference contests and festivals, community/school events and concerts. Attendance at all performances is required.

Students will explore a broad range of literature from all musical style periods that include pop, Broadway theater, and classical. Course work includes sight-reading, ear training, proper voice care, bi-monthly private lessons, and working cooperatively with others through the development of tone quality and blend.

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 the instructor if you are interested in membership.

## Theatre

### Theatre

*(Formerly Theatre I)*

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**NCAA Core Course**

**Description:** Designed to examine the history of theatre and includes 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 upon 2014 National Core Arts Council standards for theatre.



## Acting

*(Formerly Theatre 2)*

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Theatre or Intro to Drama



**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 upon 2014 National Core Arts Council standards for theatre.

## Behind the Scenes: Production & Technical Design

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None



**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.

## Visual Arts

### Design Fundamentals

*(Formerly Art Foundations)*

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Required Materials:** USB Flash Drive



**Description:** Are you looking to explore the world of art? Do you want to try out a variety of art media (materials)? This class provides students with an introduction to a wide variety of art mediums and historical perspectives. It introduces the concepts of the studio classroom with guidance and structure. Techniques explored may include drawing, clay, painting, printmaking, sculpture, photography, and fiber art. 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.

Students who have taken elective art courses in 7th or 8th grade do not need to take this course before moving on to a related art medium.

## Ceramics 1

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None



**Description:** All clay! All the time! Do you enjoy working with your hands? Do you like getting messy with your art? 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/Length:** 1 Credit – 1 Semester

**Prerequisite:** Ceramics I



**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 student's choice of theme, clay technique, and finishing options.

## Drawing, Painting, & Printmaking

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Design Fundamentals (formerly Art Foundations or Introduction to Art)



**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 Drawing, Painting, and Printmaking, students learn and practice a variety of two dimensional techniques and mediums, such as acrylic painting, pen and ink, and reduction printing. In addition to hands-on projects, students will work to develop their art language, build creativity skills, provide and receive feedback, and reflect on and revise their work.





## Digital Design 1

*(Formerly Graphic Design)*

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Required Materials:** USB Flash Drive



**Description:** Communicating through art! Whether it be to advertise or sell, persuade or explain the graphic arts communicates with a targeted audience. The Adobe Creative Suite (Photoshop, Illustrator and InDesign) 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/stationery, magazine cover/article layout, poster design for advertisement. 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 and receive feedback and reflect on and revise their work.

## Digital Design 2

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Digital Design I or Graphic Design

**Required Materials:** USB Flash Drive



**Description:** Are you looking to build your skills in creative problem solving? Do you want improve your ability to communicate visually in this visual world? This course will continue to build on the skills using the Adobe Creative Cloud (CC), and gain exposure to additional Adobe CC applications. Project objectives may include illustration, publication layout, animation, typography, image editing, package design, web design. In addition to hands on projects, the students will work to develop their art language, build artistic skills, provide and receive feedback and reflect on and revise their work.

## Fashion Merchandising & Design

*(Formerly Fashion 1)*

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

**Credits/Length:** 1 Credit – 1 Semester

**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/Length:** SHS: 1 Credit – 1 Semester

**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.

## Photography 1

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Design Fundamentals (formerly Art Foundations or Introduction to Art)

**Required Materials:** Plastic page protectors, 3-ring binder. Camera equipment is available to check out, but students may provide their own camera equipment.



**Description:** Do you want to learn more about the art of taking pictures? The ability to control all of the settings on an SLR camera is a very powerful tool that allows for lots of creative flexibility in photography. This class is a great place to learn how to control camera settings, while improving photographic composition. This is a project-based class where students will have the opportunity to create digital photography, use Adobe Photoshop to edit digital photography and explore Photoshop tools. In addition to hands-on projects the 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.

## Practical Art

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None



**Description:** This class takes the arts and teaches students to apply them to their everyday lives. Through the exploration of practical art mediums such as Fiber art, glass art, mosaic and decoupage, students improve their artistic abilities. Students study and appreciate the historical and cultural significance of the craft of arts. In addition to hands-on projects, the students will work to develop their art language, build artistic skills, provide and receive feedback, and reflect on and revise their work.

## Advanced Art Studio

**Grade Level:** 11,12

**Credits/Length:** SHS: 1 Credit – 1 Semester

**Prerequisite:** Photography or Drawing, Painting, Printmaking, or 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 Studio art immediately after this course, required in the same year.

Students who plan to submit an AP portfolio, will be required to complete additional pieces, as well as enroll in the AP Studio course during 2nd semester.

## AP Studio Art

**Grade Level:** 11,12

**Credits/Length:** SHS: 1 Credit – 1 Semester

**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)

**Description:** This class is designed for students who are seriously interested in the practical experience of art and want to focus on medium. For this course, in lieu of an AP exam, students will submit a portfolio of work to the College Board for potential college credit.

The AP Program offers three portfolios: Drawing, 2-D Design, and 3-D Design. The portfolios share a basic, three-section structure, which requires the student to show a fundamental competence and range of understanding in visual concerns (and methods). It is recommended that some students provide their own materials for their medium.



## Wood Production Technologies (Formerly Woodworking 2)

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Woodworking 1

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**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.



## Woodworking 3

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Woodworking 1 & 2

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**Required Materials:** tape measure

**Description:** This is a VERY advanced course in the art of Woodworking and cabinetmaking. In this course students will learn cabinetmaking skills along with the use of CNC equipment, which uses computers to control a router. This class is one that will challenge your skills!



# 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 1 – A & B

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

**Credits/Length:** 2 Credits – Full Year

**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/Length:** 2 Credits – Full Year

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

**Fee:** A fee may be assessed for consumable supplies

**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:** 9,10,11,12

**Credits/Length:** 2 Credits – Full Year

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

**Fee:** A fee may be assessed for consumable supplies

**Required Materials:** German/English dictionary

**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, cooking, 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/Length:** 2 Credits – Full Year

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

**Fee:** A fee may be assessed for consumable supplies

**Required Materials:** German/English dictionary

**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.

## CIS: German 1003 – A & B

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

**Credits/Length:** SHS: 2.5 Credits – Full Year

**College:** 5 semester credits for the year from the University of Minnesota/Twin Cities

**Prerequisite:** Multiple years of high school German

**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.

**Required Materials:** German/English dictionary

**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 will receive five U of MN credits. The course is intended for students who are looking for additional challenges in the fourth year of German. Emphasis is on proficiency in reading, writing, speaking, and listening based on the intermediate level of the national standards. Students will utilize their German skills through the study of history, art, culture, and literature of German-speaking countries.



## Japanese 1 – A & B

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

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** None

**NCAA Core Course**

**Description:** Students in Japanese 1 will be introduced to 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:** 10,11,12

**Credits/Length:** 2 Credits – Full Year

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

**NCAA Core Course**

**Description:** Students in Japanese 2 will be introduced to variety of verb forms to produce more complex sentences while developing 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/Length:** 2 Credits – Full Year

**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.

## Spanish 1 – A & B

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

**Credits/Length:** 2 Credits – Full Year

**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. 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/Length:** 2 Credits – Full Year

**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 basic 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/Length:** 2 Credits – Full Year

**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/Length:** 2 Credits – Full Year

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

**Required Materials:** Spanish/English dictionary

**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 – Full Year

**College:** 5 semester credits for the year from the University of Minnesota/Twin Cities

**Prerequisite:** Multiple years of high school Spanish 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 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.



## **Spanish for Spanish Speakers 1 – A & B**

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

**Credits/Length:** 2 Credits – Full Year

**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.

**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.

## **CIS: Spanish 1004 – A & B**

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

**Credits/Length:** SHS: 2.5 Credits – Full Year

**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.





## Spanish for Spanish Speakers 2 – A & B

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

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** Spanish for Spanish Speakers I or by placement test

**Description:** This course is designed for the student who speaks Spanish conversationally or fluently, and wants to improve their 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

*(Formerly Advanced Spanish Reading & Writing)*

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

**Credits/Length:** 2 Credits – Full Year

**Prerequisite:** Spanish for Spanish Speakers 2 or by Instructor Permission

**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.

## CIS: Spanish 1003/1004 – A & B

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

**Credits/Length:** SHS: 5 Credits – Full Year

**College:** 10 semester credits for the year from the University of Minnesota/Twin Cities

**Prerequisite:** Advanced Spanish Reading & Writing 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.

**Required Materials:** At least 40,000-word Spanish/English dictionary, folder, notebook to be used only for Spanish CIS.

### **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 will receive ten 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.



# 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 areas of interest; Arts & Communications, Business & Entrepreneurship, Engineering & Manufacturing, Health Science, Human Services, Science and Technology which will become the Academies of Shakopee in the Fall of 2018. 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 (area of interest) has a separate section with a divider which contains our new 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 2022 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 will continue to evolve over the next few years, including the addition of new courses and elimination of courses as well. 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!**

### **Nancy Thul**

Director of Teaching and Learning  
Shakopee Public Schools

## **Overview of the Academies of Shakopee**

### **Arts & Communication**

- Art Production and Management
- Media Production and Recording
- Publishing and Online Media
- Creative Design

### **Business & Entrepreneurship**

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

### **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
- Law and Legal Services
- Government and Public Policy
- Social and Mental Health Services


### **Science & Technology**

- Renewable Energy and Electrical Systems
- Information Technology Solutions
- Computer Science
- 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 a 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	<b>Accounting and Finance</b>	Business Dynamics	Accounting 1 <i>Finance and Investments</i>	<i>Advanced Business &amp; Entrepreneurship Seminar</i>
	<b>Entrepreneurship and Business Management</b>	Business Dynamics	Management and Leadership *Entrepreneurship	
	<b>Hospitality and Restaurant Management</b>	Business Dynamics Culinary Arts 1	<i>Hospitality Management</i> Culinary Arts 2	
	<b>Marketing and Sales</b>	Business Dyna		
<b>Middle School Connection</b>	<b>Additional Academy Elective Courses:</b>	Accounting 2 Baking & Pastry Business Technology CIS: Principles of Microeconomics	Culinary Arts 3 Law and Business Strategy Personal Finance: Money Management & Wealth Building Sports & Entertainment Marketing	<b>Potential Future Course</b>
	<b>CAPS Program:</b>	 Business Administration and Management		

\*Indicates new courses beginning in the 2018-19 school year.





## 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


Course Title  
Key



Existing Courses



Potential Courses  
(Subject to Change)

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 Draw It, Paint It, Print It  Drop a Beat House of Style Digital Storytelling Sculpt It	<b>Arts Production and Management</b>	Behind the Scenes: Production and Technical Design	*Production Management	Live Production Experience	
	<b>Media Production and Recording</b>	Elements of Media Production	Music and Sound Recording *Video Production		
	<b>Publishing and Online Media</b>	Writing for Media	*Content Creation for Online Media	Creative Professional	
	<b>Creative Design</b>	Design Fundamentals	Digital Design 1 Fashion Merchandising and Design Interior Design Photography 1		
	<b>Additional Academy Elective Courses:</b>	Acting Digital Design 2  Public Speaking Rock Band Essentials			
	<b>CAPS Program:</b>	 Digital Design			

\*Indicates new courses beginning in the 2018-19 school year.

Students in the Class of 2021 & Beyond will have to complete a 3 Course Program of Study





## Introductory Courses

### Behind the Scenes: Production & Technical Design

Grade Level: 9,10,11,12

Credits/Length: 1 Credit – 1 Semester

Prerequisite: None

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.

### Design Fundamentals

*(Formerly Art Foundations)*

Grade Level: 9,10,11,12

Credits/Length: 1 Credit – 1 Semester

Prerequisite: None

Required Materials: USB Flash Drive

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 media (materials)? This class provides students with an introduction to a wide variety of art mediums and historical perspectives. It introduces the concepts of the studio classroom with guidance and structure. Techniques explored may include drawing, clay, painting, printmaking, sculpture, photography, and fiber art. 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.

Students who have taken elective art courses in 7th or 8th grade do not need to take this course before moving on to a related art medium.

### Elements of Media Production

Grade Level: 9,10,11,12

Credits/Length: 1 Credit – 1 Semester

Prerequisite: None

Program of Study: 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.

### Writing for Media

Grade Level: 9,10,11,12

Credits/Length: 1 Credit – 1 Semester

Prerequisite: None

Program of Study: Publishing and Online Media

**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.

## Intermediate Courses

### Content Creation for Online Media

Grade Level: 10,11,12

Credits/Length: 1 Credit – 1 Semester

Prerequisite: Writing for Media

Program of Study: Publishing and Online Media

**Description:** In this course, students will learn how to convey their messages and tell their stories more effectively by creating supporting materials in other media. Students will develop basic skills in photography, videography, visual design, and audio as they create a variety of publications (blog, radio commercial, social media campaign, etc.). Students will utilize the writing process and feedback cycles to revise and improve their work, learning to make choices and use appropriate techniques based on their target audience and intended purpose.

### Digital Design 1

*(Formerly Graphic Design)*

Grade Level: 9,10,11,12

Credits/Length: 1 Credit – 1 Semester

Prerequisite: None

Required Materials: USB Flash Drive

Program of Study: Creative Design

**Description:** Communicating through art! Whether it be to advertise or sell, persuade or explain the graphic arts communicates with a targeted audience. The Adobe Creative Suite (Photoshop, Illustrator and InDesign) 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/stationery, magazine cover/article layout, poster design for advertisement. 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 and receive feedback and reflect on and revise their work.

## Arts & Communication

### Fashion Merchandising & Design

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Program of Study:** Creative Design



**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/Length:** SHS: 1 Credit – 1 Semester

**Prerequisite:** None

**Program of Study:** Creative Design



**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.

### Photography

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Art Foundations or Introduction to Art or Design Fundamentals

**Required Materials:** Flash drive, plastic page protectors, 3-ring binder. 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 taking pictures? The ability to control all of the settings on an SLR camera is a very powerful tool that allows for lots of creative flexibility in photography. This class is a great place to learn how to control camera settings, while improving photographic composition. This is a project-based class where students will have the opportunity to work with film in a darkroom, create digital photography, use Adobe Photoshop to edit digital photography and explore Photoshop tools. In addition to hands-on projects the 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.

### Production Management

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Behind the Scenes: Production and Technical Design

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

**Description:** Students will demonstrate the basic principle of managing a live production. Students will learn how to plan a production - speech, recital, theater performance, concert, etc. - by creating plans and mock-ups of possible productions. Students will plan all elements of performance, including choice of venue, target audience, property and equipment management, stage design, setup and take-down procedures, and venue management.

### Video Production

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Elements of Media Production

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

**Description:** Video Production will have students produce a daily news broadcast, including live footage and video packages. Students will also explore the processes behind film and television production to create short films in and out of the studio. Students will utilize video editing, sound and music editing, camera setup, broadcast studio setup, and lighting.

## Arts & Communication

### Elective Courses

#### Shakopee CAPS Digital Design

Grade Level: 11,12

Credits/Length: SHS: 3 Credits – 1 Semester

College: 6 Semester credits from Normandale Community College

Prerequisite: Recommended Digital Design 1 or Photography 1

Schedule: 1<sup>st</sup> Semester only (periods 1-3)

Location: Shutterfly



**Eligibility:** Entrance to CAPS is based on eligibility criteria and a completed application. Seniors must be in the top 50%; Juniors must be in the top 33% of their graduating class, or gain instructor approval. Limited space is available; placement will be determined by a review of all applications. All applications are due at the close of registration. See your counselor for any questions regarding the application process. Please use the link below or QR code to view application.



**Application:**

<https://goo.gl/2dJtIB>

**Description:** Shakopee CAPS Digital Design is ideal for students who are interested in developing professional and technical skills required to forge forward in exploring areas of graphic design, web design, digital photography and video production. This program will educate students in design methods, theory and creative problem solving utilized in the industry today. Students will learn how to create visual concepts and how those concepts communicate, are perceived and are interpreted.

Students will be fully immersed with our leading business partner, Shutterfly, where they will create a wide array of digital assets in a profession-based learning environment. This will provide opportunities to collaborate, in teams and individually, with mentors and business clients on real digitally produced media projects. This program will be led by a creative educator, and supported by diverse professionals visiting the classroom as guest lecturers and mentors. By networking with guest speakers and business partners, students will deliver real products to their clients, create a professional portfolio that illustrates their creative talent and explore career opportunities in the area of digital art.

#### Shakopee CAPS Digital Design Internship

Grade Level: 11,12

Credits/Length: SHS: 3 Credits – 1 Semester

Prerequisite: Shakopee CAPS Digital Design – Semester 1

Schedule: 2<sup>nd</sup> Semester only (periods 1-3)

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 Digital Design 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.

### Elective Courses

#### Acting

(Formerly Theatre 2)

Grade Level: 10,11,12

Credits/Length: 1 Credit – 1 Semester

Prerequisite: Theatre or Intro to Drama



**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 upon 2014 National Core Arts Council standards for theatre.

#### Digital Design 2

Grade Level: 10,11,12

Credits/Length: 1 Credit – 1 Semester

Prerequisite: Digital Design I or Graphic Design

Required Materials: USB Flash Drive



**Description:** Are you looking to build your skills in creative problem solving? Do you want improve your ability to communicate visually in this visual world? This course will continue to build on the skills using the Adobe Creative Cloud (CC), and gain exposure to additional Adobe CC applications. Project objectives may include illustration, publication layout, animation, typography, image editing, package design, web design. In addition to hands on projects, the students will work to develop their art language, build artistic skills, provide and receive feedback and reflect on and revise their work.

## Arts & Communication

### Public Speaking

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**NCAA Core Course**

**Description:** Public Speaking is a beginning course in public speaking. This course combines 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/Length:** 1 Credit – 1 Semester

**Prerequisite:** None



**Description:** Do you want to learn about the music industry? Rock Band Essentials I 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, Sales Representatives & Retail Managers, Fundraiser, Media Buyer


Course Title  
Key



Existing Courses



Potential Courses  
(Subject to Change)

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 1  Finance and Investments	Advanced Business & Entrepreneurship Seminar
	Entrepreneurship and Business Management	Business Dynamics	Management and Leadership  *Entrepreneurship	
	Hospitality and Restaurant Management	Business Dynamics  Culinary Arts 1	Hospitality Management  Culinary Arts 2	
	Marketing and Sales	Business Dynamics	Marketing	
	Additional Academy Elective Courses:	Accounting 2 Baking & Pastry Business Technology CIS: Principles of Microeconomics		
	CAPS Program:	 Business Administration and Management		

\*Indicates new courses beginning in the 2018-19 school year.

Students in the Class of 2021 & Beyond will have to complete a 3 Course Program of Study



## Introductory Course

### Business Dynamics

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

**Credits/Length:** 1 Credit – 1 Semester

**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, marketing 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/Length:** 1 Credit – 1 Semester

**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 a two-semester industry-based program that prepares students for careers in the restaurant and foodservice industry.

## Intermediate Courses

### Accounting 1

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**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.

### Culinary Arts 2

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

**Credits/Length:** 1 Credit – 1 Semester

**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 & develop menus, and strengthen their business and math skills.

*This course is the second level of the ProStart® Program which is a two-semester industry-based program that prepares students for careers in the restaurant and foodservice 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.*

## Entrepreneurship

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

**Credits/Length:** SHS: 1 Credit – 1 Semester

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

**Prerequisite:** 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.

## Management & Leadership

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**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.

## Marketing

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Program of Study:** Marketing and Sales

**Description:** What do Coca-Cola, Apple, Under Armour 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.

## Advanced Courses

### Shakopee CAPS Business

#### Administration & Management

**Grade Level:** 11,12

**Credits/Length:** SHS: 3.5 Credits – 1 Semester

**College:** 7 semester credits will be available from Normandale Community College

**Schedule:** 1<sup>st</sup> Semester only (periods 1-3)

**Location:** Valleyfair, Mystic Lake, Canterbury Park & MN Renaissance Festival

**Prerequisite:** None

**Eligibility:** Entrance to CAPS is based on eligibility criteria and a completed application. Seniors must be in the top 50%; Juniors must be in the top 33% of their graduating class, or gain instructor approval. Limited space is available; placement will be determined by a review of all applications. Please pick up an application in the Career Center. All applications are due at the close of registration. See your counselor for any questions regarding the application process.

**Application:** <https://goo.gl/2dJtIB>



**Description:** Shakopee CAPS Business Administration & Management program provides a dynamic introduction to business with unparalleled access to RiverSouth – Land of Big Fun (Mystic Lake, Valleyfair, Canterbury Park and Renaissance Festival). 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: 3 Credits – 1 Semester

**College:** 2 semester credits may be available from Normandale Community College

**Schedule:** 2<sup>nd</sup> Semester only (periods 1-3)

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

**Prerequisite:** Shakopee CAPS Entertainment & Tourism Management – 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 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.



## Elective Courses

### Accounting 2

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

**Credits/Length:** SHS: 1 Credit – 1 Semester

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

**Prerequisite:** Accounting I

**Required Materials:** Calculator

**Description:** Accounting is the language of business and the second semester of accounting is highly recommended for any student planning to pursue any business degree or enter any field of business. Ensure your success at the post-secondary level and/or on the job by learning accounting while you are in high school. Continue your accounting knowledge and skills from Accounting 1 as we prepare accounting materials for a merchandising business organized as a corporation. Areas of study will include accounts receivables/payables, purchases, subsidiary ledgers, payroll, special journals, and end of fiscal period tasks. In addition, you will participate in the eMentor program sponsored by BestPrep, which gives you a real-world opportunity to work directly with a partner in the business field. This course is classroom based but includes daily online training materials and integrated computer applications.

### Baking & Pastry

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

**Credits/Length:** SHS: 1 Credit – 1 Semester

**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 solid baking skills that you developed in Foods 1 to a whole new level. This course will introduce you to the art of confectionary crafting and edible creations. You will explore how to make artisan breads and learn techniques for making various kinds of pies, tarts and pastries. You will have the opportunity to learn how to make delicious food such as custards, mousse, homemade pretzels, and everyone's favorite – cookies! You will compete in an Ultimate Cake Boss competition against your classmates, demonstrating your newly developed cake decorating skills. For those whose hearts are set on creating the sweeter things in life, Baking and Pastry is the class for you. You don't want to miss it!

### Business Technology

*(Formerly Computer Applications)*

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Description:** Business Technology will give students exposure to utilize software and procedures that they can use in business applications. Students will enhance computer application skills on platforms such as word processing, spreadsheets, charting applications, desktop publishing, and use of the Internet for multiple office applications. They will also learn the appropriate times to choose one platform over another. Students will be exposed in-depth to business uses through simulated projects. Students will learn communication skills, human relation skills, decision-making skills, and the performance of office procedures and tasks. The production of quality work using advanced features of business software applications and the creation of job seeking documents such as resumes and cover letters. Skills learned in this course will be useful for students while furthering their education or working on a job.

### CIS: Principles of Microeconomics (APEC 1101)

**Grade Level:** 12

**Credits/Length:** SHS: 2 Credits – 1 Semester

**College:** 4 semester credits from the University of Minnesota/Twin Cities

**Prerequisite:** None

**Eligibility:** Must meet the University of Minnesota's course admission requirements: Must be a junior or senior (recommended) in the top 20% of the class.

**Fee:** Field trip fee

**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 explores the individual role in the overall global community.

## Culinary Arts 3

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

**Credits/Length:** 1 Credit – 1 Semester

**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 up to completing 400 work hours in the foodservice industry.*

## Law and Business Strategy

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None



**Description:** How do individuals and businesses protect great ideas? Can you start a company that issues stock? Generate an IPO? The rules for business are complex and different around the world. Learn how a knowledge of business law can help companies create a strategy to maximize success in a global market. Explore how businesses balance making a profit with social responsibility and ethical practices. This course will give you a fresh “take” on laws within a dynamic business culture.

## Personal Finance: Money Management & Wealth Building

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Required Materials:** Calculator

**Description:** Personal Finance 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 goal setting, budgeting, banking, income and taxes, insurance, saving and investing, credit and identity theft, renting an apartment and risk management. Technology will be incorporated in simplifying these tasks. This course will provide a foundation for making informed personal financial decisions in college and beyond. Make sure you enroll in order to take control of your money.

## Sports & Entertainment Marketing

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

**Credits/Length:** 1 Credit – 1 Semester

**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 explore the connection between marketing and 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. A field trip to the Target Center is part of the semester curriculum.

## Shakopee CAPS Business Administration & Management

**Grade Level:** 11,12

**Credits/Length:** SHS: 3.5 Credits – 1 Semester

**College:** 7 semester credits will be available from Normandale Community College

**Schedule:** 1<sup>st</sup> Semester only (periods 1-3)

**Location:** Valleyfair, Mystic Lake, Canterbury Park & MN Renaissance Festival

**Prerequisite:** None

**Eligibility:** Entrance to CAPS is based on eligibility criteria and a completed application. Seniors must be in the top 50%; Juniors must be in the top 33% of their graduating class, or gain instructor approval. Limited space is available; placement will be determined by a review of all applications. Please pick up an application in the Career Center. All applications are due at the close of registration. See your counselor for any questions regarding the application process.



**Application:** <https://goo.gl/2dJtIB>



**Description:** Shakopee CAPS Business Administration & Management program provides a dynamic introduction to business with unparalleled access to RiverSouth – Land of Big Fun (Mystic Lake, Valleyfair, Canterbury Park and Renaissance Festival). 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.





## 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


Course Title  
Key



Existing Courses



Potential Courses  
(Subject to Change)

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)	Architecture and Construction	Civil Engineering & Architecture (PLTW**)  *Intro to Manufacturing	Construction	Construction Management and Development
	Manufacturing and Fabrication Technologies	*Intro to Manufacturing	Computer Integrated Manufacturing (PLTW**)  Welding and Metal Fabrication  *Wood Production Technologies	Manufacturing Design and Development
	Engineering and Design	Intro to Engineering Design (PLTW**)	Computer Integrated Manufacturing (PLTW**)  Principles of Engineering (PLTW**)	AP Physics C  Engineering Design & Development (PLTW**)
	Transportation Technologies	Small Gas Engines	Marine, Motorsport, and Outdoor Power Equipment  Aerospace Engineering (PLTW**)	Super High Mileage Vehicle
	<b>Additional Academy Elective Courses:</b>	Welding 1                      Welding 2 – Design & Fabrication		
	<b>CAPS Program:</b>	 Future Programming To Be Determined		

\*Indicates new courses beginning in the 2018-19 school year.

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

Students in the Class of 2021 & Beyond will have to complete a 3 Course Program of Study



## Introductory Courses

### Civil Engineering & Architecture [CEA] A & B (PLTW)

Grade Level: 9,10,11,12

Credits/Length: SHS: 2 Credits – Full Year

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

**Prerequisite:** None

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**Program of Study:** Architecture and Construction

**Description:** Civil Engineering and Architecture 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, stormwater 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.



### Intro to Engineering Design [IED] A & B (PLTW)

Grade Level: 9,10,11,12

Credits/Length: SHS: 2 Credits – Full Year

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

**Prerequisite:** None

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**Required Materials:** 1 4" 3-ring binder, paper, mechanical pencil, 10 tabbed dividers

**Program of Study:** Engineering and Design



**Description:** Introduction to Engineering Design [IED] A & B 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 ahead start on an engineering degree this class is a great opportunity, not only do you learn valuable skills you can also receive 3 credits to the University of Minnesota.

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 students GPA

*This is a lab class and there are fees involved to cover the costs of materials that the student will bring home as completed projects. If the student drops the class after 2 weeks the materials fee is NOT refundable.*

### Intro to Manufacturing [Formerly Woodworking 1]

Grade Level: 9,10,11,12

Credits/Length: 1 Credit – 1 Semester

**Prerequisite:** None

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**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, then Introduction to Manufacturing 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.



## Engineering & Manufacturing

### Small Gas Engines

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**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. A Briggs and Stratton engine will be provided for you.

### Intermediate Courses

#### Aerospace Engineering(AE) (PLTW) – A & B

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

**Credits/Length:** SHS: 2 Credits – Full Year

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

**Prerequisite:** Introduction to Engineering Design (IED)

**Fee:** A lab fee may be assessed to cover the cost of extra materials

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

**Program of Study:** Transportation Technologies

**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. Students are able to gain college credit through successful completion of the end of course exam and maintaining an 85% average.

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

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

**Credits/Length:** SHS: 2 Credits – Full Year

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

**Prerequisite:** None

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**Program of Study:** Manufacturing and Fabrication Technologies, Engineering and Design

**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 really 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.

### Construction I

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

**Credits/Length:** 1 Credits – 1 Semester

**Prerequisite:** None

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**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.



## Engineering & Manufacturing

### Marine, Motorsport, & Outdoor Power Equipment



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

**Credits/Length:** 1 Credits – 1 Semester

**Prerequisite:** Small Gas Engines

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**Program of Study:** Transportation Technologies

**Description:** Would you like to have the ability to take something apart, make an adjustment or two, reassemble it and have it work better than ever? Do you love snowmobiling, jet skiing, riding around on your ATV? Marine, Motorsport and Outdoor Power Equipment will give you the hands-on experience you need to be successful as an owner, operator and technician. The marine/motorsport/air-cooled engine field is experiencing phenomenal growth and is expected to grow at an even faster rate in the coming years. Career opportunities exist in all areas of the country in both urban and rural areas. This program offers detailed instruction in the operation, maintenance and repair of internal combustion engines and the equipment they power. Students will gain hands-on experience while working on a wide variety of engines and equipment.

### Principles of Engineering (POE) A & B (PLTW)



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

**Credits/Length:** SHS: 2 Credits – Full Year

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

**Recommendation:** Introduction to Engineering Design (IED)

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**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 for understanding functions of Autodesk Inventor and the many types of engineering terms and design process. Engineering is NOT boring; in this class we will be using a variety of equipment to include laser tables, and VEX robotic kits. We will also learn how to program machines, build gliders, and build catapults, as well as complete many other projects. This is yet another PLTW course that allows you to earn 3 credits from the University of Minnesota.

### Wood Production Technologies (Formerly Woodworking 2)



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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Woodworking 1

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**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.

### Woodworking 3



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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Woodworking 1 & 2

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**Required Materials:** tape measure

**Description:** This is a VERY advanced course in the art of Woodworking and cabinetmaking. In this course students will learn cabinetmaking skills along with the use of CNC equipment, which uses computers to control a router. This class is one that will challenge your skills!

### Woodworking 1 (Now Intro to Manufacturing)



**\*\* See Intro to Manufacturing on Page 54)**



## Engineering & Manufacturing

### Advanced Courses

#### AP Physics C – A & B

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

**Credits/Length:** SHS: 2 Credits – Full Year

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

**Prerequisite:** A year-long Physics course and previous or concurrent enrollment in Calculus

**Description:** AP Physics C is a year-long, calculus-based course in introductory physics. Topics for this course include a semester-long study in Forces and Motion and a semester-long study in 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. AP Physics C students will explore these topics through extensive problem solving, laboratory experience, and peer collaboration.



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

**Grade Level:** 11,12

**Credits/Length:** SHS: 2 Credits – Full Year

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

**Prerequisite:** Need to have taken a minimum of two other PLTW courses

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**Required Materials:** USB Flash Drive (more than 520 MB)

**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 school year.

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-working skills. Throughout this course you will find yourself working side by side with an industry mentor, 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!

#### Super High Mileage Vehicle

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** One of the following: IED, CIM, Welding, Small Gas Engines

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**Program of Study:** Transportation Technologies

**Description:** Would you like to design, build, test, and race a single person vehicle? In this course students will work in teams to produce a vehicle with the highest gas mileage possible. Our class will then use these vehicles to compete with other schools throughout the state and the nation. If you are interested in engineering and the automotive field, or perhaps just the feeling of freedom, the open road, and the wind blowing through your hair, this class is for you!

### Elective Courses

#### Welding 1

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**Description:** If you would like to learn a new skill and have fun while doing so Welding 1 is the course for you. Students will be introduced to OAW (Oxy-acetylene welding) and SMAW (Shielded metal arc welding). This course combines hands-on experience with classroom theory. Students will be challenged with several fun and creative projects like “Crazy Critters” and “Garden Guards.” Welding 1 is required for admission into Welding 2.

#### Welding 2 – Design & Fabrication

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Welding 1

**Fee:** A lab fee may be assessed to cover the cost of extra materials

**Description:** Did you like welding 1? Welding 2 is an advanced course where students will expand upon the skills and concepts acquired in Welding 1; 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.





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


Course Title  
Key



Existing Courses



Potential Courses  
(Subject to Change)

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>  Snack Attack  <b>Middle School Electives (Grades 7 &amp; 8):</b>  GTT: Medical Detectives (PLTW)  2 Fit 2 Quit  Code Red	Biomedical	Human Body Systems	Principles of Biomedical Science (PLTW**)	Medical Interventions (PLTW**)
	Public Health		*Global Health & Disease Prevention	Community Health Promotions
	Exercise Science		*Human Movement Sciences	Principles of Human Performance
	Healthcare		Principles of Biomedical Science (PLTW**) *Emergency First Responders	Nursing Assistant
	<b>Additional Academy Elective Courses:</b>	CIS: Human Physiology, Technology, and Medical Devices      Nutrition for the Human Body		
	<b>CAPS Program:</b>	 Healthcare and Medicine		

\*Indicates new courses beginning in the 2018-19 school year.

\*\*Project Lead the Way © affiliated course | [pltw.org](http://pltw.org)

Students in the Class of 2021 & Beyond will have to complete a 3 Course Program of Study



## Introductory Courses

### Human Body Systems

(Formerly Human Anatomy & Physiology)

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

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

**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, muscles strength, heart rate, blood pressure, and respiration. Human anatomy studies will include dissections on a variety of lab specimens.

## Intermediate Courses

### Emergency First Responders

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**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 a 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.

### Global Health & Disease Prevention

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Human Body Systems

**Program of Study:** Public Health

**Description:** Disease knows no border. In today's interconnected world, diseases can spread from an isolated, rural village to any 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. Primary and secondary prevention strategies will be identified. Emphasis will be placed on those behaviors that foster and those that hinder well-being. This course is the intermediate course in the Public Health program of study within the Academy of Health Science.

### Human Movement Sciences

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

**Credits/Length:** 1 Credit – 1 Semester

**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 exercise, energy systems and conditioning, exercise prescription, and the science of motion. Learn how to design and adapt training programs to meet individual and group needs. Discover performance potentials and help maximize the performance of those in sport, personal fitness, 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.

### Principles of Biomedical Science (PLTW)

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

**Credits/Length:** SHS: 2 Credits – Full Year

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

**Prerequisite:** None

**Program of Study:** Biomedical, Healthcare

**Description:** In this intermediate level course, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, diseases, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, genetics, infectious disease, medicine, and research processes while allowing them to design their own experiments to solve problems.





## Advanced Courses

### Nursing Assistant (NURS 1075)

Grade Level: 11,12

Credits/Length: SHS: 2 Credits – 1 Semester – Science Elective

College: 4 semester credits from  
Normandale Community College

Schedule: 2 Periods, 1 Semester

Eligibility: Juniors in the top 33% of their class;  
Seniors in the top 50% of their class;  
or *Instructor approval.*

Program of Study: Healthcare

**Description:** This course is an introduction to basic nursing care skills and concepts necessary to prepare you to take the examination to be a Nursing Assistant/Registered (NA/R) with the State of Minnesota and then be employed in a healthcare facility under the direct supervision of a licensed nurse. It is required that the Health Care Core Course is an integral part of this Pathway.

### Medical Interventions (PLTW) – A & B

Grade Level: 11,12

Credits/Length: 2 Credits – Full Year

Prerequisite: None

Program of Study: Biomedical

**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, pharmacology, medical devices, and diagnostics. Each case scenario will introduce multiple types of interventions; reinforce concepts learned in the previous two courses, and present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders.

### Shakopee CAPS Healthcare & Medicine

Grade Level: 11,12

Credits/Length: SHS: 3 Credits – 1 Semester

College: 6 semester credits from  
Normandale Community College

Schedule: 1<sup>st</sup> semester only (periods 1-3)

Location: St. Francis Regional Medical Center

Prerequisite: Recommended previous or concurrent enrollment in Biology

**Eligibility:** Entrance to CAPS is based on eligibility criteria and a completed application. Seniors must be in the top 50%; Juniors must be in the top 33% of their graduating class, or gain instructor approval. Limited space is available; placement will be determined by a review of all applications. Please pick up an application in the Career Center. All applications are due at the close of registration. See your counselor for any questions regarding the application process.

Application: <https://goo.gl/2dJtIB>



**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: 3 Credits – 1 Semester

**College:** 2 semester credits may be available from Normandale Community College

**Schedule:** 2<sup>nd</sup> Semester only (periods 1-3)

**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.



### Nutrition for the Human Body

*(Formerly Nutrition & Foods)*

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

**Credits/Length:** 1 Credit – 1 Semester

**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.

## Elective Courses

### CIS: Human Physiology, Technology, and Medical Devices – A & B (BIOL 1015)

**Grade Level:** 11,12

**Credits/Length:** SHS: 2 Credits – Full-Year - Science Elective

**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.

**Fee:** Recommended field trip fee.

**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.



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

Course Title  
Key

Existing Courses

Potential Courses  
(Subject to Change)

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  Stand Up for Shako!	Teaching and Educational Services	Intro to Human Development  Human Relations	*Exploring Education	*Multicultural Education
	Law and Legal Services	Criminal Justice and the Court	*A Case for Justice	Advanced Legal Systems  Advanced Criminal Justice
	Government and Public Policy	Human Relations	*Social Injustice & Political Action	Public Advocacy and Change
	Social and Mental Health Services	Intro to Human Development	*Positive Psychology: Building People and Community	Social and Mental Health Services
	Additional Academy Elective Courses:	Advanced Child Development      Sociology of the Family		
	CAPS Program:	 Future Programming To Be Determined		

\*Indicates new courses beginning in the 2018-19 school year.

Students in the Class of 2021 & Beyond will have to complete a 3 Course Program of Study





## Introductory Courses

### Criminal Justice & the Court

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

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

**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 to 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/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Program of Study:** Teaching and Educational Services, Government and Public Policy

**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/Length:** 1 Credit – 1 Semester

**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. We will study how and why people change and stay the same over their lifetime. Students will focus on social, emotional, physical, cognitive and moral development from birth to end of life. Developmental stages and milestones covered are pregnancy, birth, infancy, childhood, adolescence, adulthood and later years of life. Students will have opportunities to experience the various stages of development through hands-on, project-based learning.

## Intermediate Courses

### A Case for Justice

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Criminal Justice and the Court

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

**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

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

**Credits/Length:** SHS: 2 Credits – 1 Semester

**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:** Do you ever wonder what motivates your teachers to come to class each day? Have you ever asked your teachers what inspired them to enter the profession? Exploring Education will help you gain a better understanding of teaching and related educational professions. We will learn about self, the pros and cons of the profession, types of job opportunities in schools, different educational philosophies, areas that are in high demand, and ethics and professionalism. Students in this course will interact with students of all ages by having authentic learning experiences within our schools and community. This course is relevant for anyone considering a career in education. Topics include: Current theories, trend and issues in education and the community, certification standards, roles and responsibilities of teachers, learners, and other school personnel, including a field experience.

### Positive Psychology: Building People and Community

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

**Credits/Length:** 1 Credit – 1 Semester

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

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

**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 facilitates essential skill development. These sets of skills will help strengthen individuals and enable communities to thrive.

## Human Services

### Social Injustice & Political Action

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Human Relations

**Program of Study:** Government and Public Policy

**Description:** Are you someone who is motivated by the social issues and inequalities that currently exist? Do you know how government and public policy influence this culture? This course explores current social issues, various public office positions, and how the two intertwine. Go “behind the scenes” to understand the link between public entities and social issues.

### Advanced Courses

#### Multicultural Education

**Grade Level:** 11,12

**Credits/Length:** SHS: 2 Credits – 1 Semester

**College:** 4 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.

### Elective Courses

#### Advanced Child Development

*(Formerly Child Development 2)*

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

**Credits/Length:** SHS: 1 Credit – 1 Semester

**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 or Child Development I

**Description:** Advanced Child Development will help you better understand children ages birth to five. We will learn about the stages of development children go through and various ways they learn. During this course we will interact with young children by having authentic learning experiences within the community. We will discuss careers involving children as well as parenting skills for raising children ages birth through five. This course is relevant for anyone wishing to work with children in the future.

### Sociology of the Family

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

**Credits/Length:** SHS: 1 Credit – 1 Semester

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

**Prerequisite:** None

**Fee:** A fee may be assessed for consumable supplies

**Description:** Families are the basic unit of society and each of us is a part of one. In this course we will investigate adult roles in society, mate selection, engagement, marriage, conflict resolution, interpersonal relationships, family finances, domestic violence, divorce, raising children, and death/grief. This is the perfect class for anyone who is interested in understanding how families function 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


Course Title  
Key



Existing Courses



Potential Courses  
(Subject to Change)

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  <b>Middle School Electives (Grades 7 &amp; 8):</b>  Invisible World of Science & Technology  Apps Creation	Renewable Energy and Electrical Systems	Electricity	Energy and Power Generation	Technology Design and Development
	Information Technology Solutions	Computer Science Principles (PLTW**) Principles of Computer Hardware	*Computer Networking and Management	
	Computer Science	Computer Science Principles (PLTW**)	Mobile OS Development Web Development	
	Environmental Science	*Energy, Food, and The Outdoors	AP Environmental Science Environmental Sustainability	Environmental Ethics and Ecology
	<b>Additional Academy Elective Courses:</b>	Cyber Security                      Instructional Technology Solutions		
	<b>CAPS Program:</b>	 Future Programming To Be Determined		

\*Indicates new courses beginning in the 2018-19 school year.

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

Students in the Class of 2021 & Beyond will have to complete a 3 Course Program of Study





## Introductory Courses

### Computer Science Principles (PLTW)

*(Formerly Computer Science Engineering)*

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

**Credits/Length:** 1 Credit – 1 Semester

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

**Prerequisite:** None

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

**Description:** 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. Computer Science deals with the digital automation of the algorithms that make this possible. In this introduction to the discipline of Computer Science, students create apps for mobile devices, automate tasks in a variety of languages, find patterns in data, and interpret simulations.

Students will have the option to take the AP Computer Science Principles Exam at the end of the course.

### Electricity

*(Formerly Circuits, Power, and Networking)*

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Fee:** A lab fee is required of \$25

**Required Materials:** 1 ½" 3-ring binder

**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 circuitry, basic wiring, and construction of electrical projects. Students will develop electronic devices that solve a problem; sample projects include transistor radios, electric motors, and megaphones. If you enjoy disassembling electronics and figuring out how they operate, Electricity is the class for you!

### Energy, Food and The Outdoors

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Program of Study:** Environmental Science

**Description:** In this introductory course, students will learn about the outdoors and be outdoors! Through a study of our Shakopee High School campus, 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. 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.

## Principles of Computer Hardware

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Program of Study:** Information Technology Solutions

**Description:** This semester-long course is a hands-on study of computer repair and maintenance, and "tech knowledge." You will install and troubleshoot operating systems and learn the hardware and software basics of computers. Computers will be networked, both with wires and wirelessly. Peripherals will be installed and maintained. A short amount of time will be spent learning about the features of mobile devices and how to make them work with a desktop and/or laptop computer. This course is intended to offer some of the topics associated with an A+ certification.

## Intermediate Courses

### Computer Networking and Management

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Recommended - Computer Science Principles OR Principles of Computer Hardware

**Program of Study:** Information Technology Solutions

**Description:** This course covers the basic hardware of a personal computer and computer systems, including installation, operations and interactions with software. The topics included in this course will be system implementation and management, file management, security, and troubleshooting. Networking of systems will also be covered. Completion of Principles of Computer Hardware and Computer Hardware & Management would lead to a PC Pro Certification or A+ Certification after passing the exam.

### Mobile OS Development

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Recommended - Computer Science Principles

**Program of Study:** Computer Science

**Description:** Students will look "under the hood" of iOS devices, learning how an operating system controls an iPad or other mobile device. They'll develop iOS apps, using Swift to manage how apps are used—how, for example, can you maximize memory for videos on your phone, and minimize memory for background apps you don't use? Students will solve a problem given to them by a client, using Agile Workflow to work in groups.

## Science & Technology

### Web Development

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Recommended - Computer Science Principles

**Program of Study:** Computer Science

**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.

### Advanced Courses

#### Ecology

**Grade Level:** 11,12

**Credits/Length:** 1 Credit – 1 Semester – Science Elective

**Prerequisite:** Successful completion of Biology A & B

**Note:** Students taking this class must also sign up for Environmental Ethics.

**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 methods for diminishing the impact of humans on the environment.

#### Environmental Ethics

**Grade Level:** 11,12

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

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

**Graduation Requirement:** Social Studies

**Note:** Students taking this class must also sign up for Ecology.

**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 methods for diminishing the impact of humans on the environment.

### Elective Courses

#### Cyber Security

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** Recommended, but not required - Computer Science Principles and/or Principles of Computer Hardware

**Description:** This course covers the basic ways that criminals and security experts break—and break into—computer systems. The topics included in this course will change as “black hats” find new ways to infiltrate 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, and Windows.

#### Instructional Technology Solutions

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

**Credits/Length:** 1 Credit – 1 Semester

**Prerequisite:** None

**Eligibility:** An application and interview with technology staff is required

**Application:**

<https://goo.gl/gJDG6g>



**Description:** Are you the person your friends run to for tech help? Do you have a knack for working with people? This semester-long course is a hands-on study of technology integration and customer service in a technology-rich educational context. You will be required to assess the tech issues of your peers and teachers throughout the day and find the best approach to addressing or solving the problem. In addition, you will complete and maintain projects that research, review and recommend the latest applications used in an educational setting.



# YOUR FUTURE BEGINS NOW

## > 1ST SEMESTER - CLASSROOM EXPERIENCE

CAPS students will report each morning to the business partner site for their 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.

## > 2ND SEMESTER - 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**

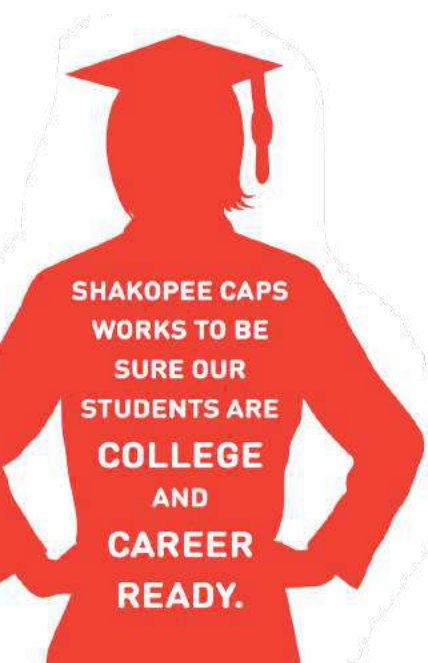
**SHUTTERFLY INC**

**RiverSouth**  
- LAND OF BIG FUN -



# \$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

- > **HEALTHCARE & 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.
- > **DIGITAL DESIGN** is ideal for students interested in exploring graphic design, web design and digital photography. Students will be immersed at Shutterfly to learn design methods, theory and creative problem solving. Students will learn how to create and use visual concepts and how to communicate those concepts.
- > **BUSINESS ADMINISTRATION & MANAGEMENT** provides a dynamic introduction to business with unparalleled access to RiverSouth – Land of Big Fun (Canterbury Park, Mystic Lake, Renaissance Festival, and Valleyfair). Students will partner with leading experts from these regional business centers to learn the principles of business and management.



EDUCATION PARTNER





## Special Permission Courses

### Mathematics

#### Algebra 1 – A & B

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

**Credits/Length:** 2 Credits – Full Year - Elective

**Prerequisite:** Pre-Algebra

**Required Materials:** Scientific calculator

**Description:** The 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.

### English Learners (EL)

*These courses are designed exclusively for English Language Learners -*

*Students who speak English as a second language / not their primary language*

*The EL program is designed for students with a home language that is something other than (or in addition to) English. Students in the EL program learn English through listening, speaking, reading, and writing for social and academic purposes. Students move through EL levels as determined by their rate of language development and language proficiency scores. The amount and type of EL service is determined by EL level, ranging from self-contained English Language classes (listed below) to language services provided in co-taught content areas*

#### EL 100 – Level 1

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

**Credits/Length:** 4 Credits – 2 hours per day – Full Year- Elective

**Prerequisite:** Instructor approval required

**Description:** Listening, reading, speaking, writing, vocabulary, and grammar components

These courses are for students who are new to the country and have beginning formal English language experiences. Students will learn academic vocabulary and grammar, read texts, write sentences, and engage in conversations at a beginning English language development level.

#### EL 200 – Level 2

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

**Credits/Length:** 2 Credit in English, 2 Credit Elective – 2 Hours per day – Full Year

**Prerequisite:** Instructor approval required

**Description:** Listening, reading, speaking, writing, vocabulary, and grammar components

These courses are for students who have completed EL 100 or score a proficiency level 2 on a language assessment. The courses will expand the student's knowledge of basic listening, reading, speaking, and writing skills. The focus of the courses will be on having sustained conversations, using reading and writing strategies, learning grammar, and appreciating literature. The courses will cover the standards for English 9.

#### EL 300 – Level 3 – A & B

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

**Credits/Length:** 2 Credit – Full Year - Elective

**Prerequisite:** Instructor approval required

**Description:** Listening, reading, speaking, writing, vocabulary, and grammar components

This course will be taken along with English 9 or English 10. The course will focus on academic language and literacy. Students will learn research and essay writing, literature and textbook reading and comprehension, and essential vocabulary. Course objectives will be accomplished through various genres and media.

### Special Education

*Shakopee High offers classes for students identified as learning disabled, having emotional and/or behavioral problems, mild to severe mental impairment, language impaired and other health impairments. Various testing criteria must be met to qualify for these programs. All students in any of these classes have gone through the SST process and are currently on an active IEP.*

*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 Plans (IEP). Students will be registered for these classes based on the documented services in their IEPs by their IEP case managers.*

## AVID Program

AVID (Advancement Via Individual Determination) is a college readiness program and elective class held five days a week during the school day. It is offered to students who would like to prepare to attend 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 of the required AVID work, take notes in all subject-area classes daily, use the AVID binder for all classes and participate in twice weekly small group tutorial sessions during the AVID elective class with AVID tutors.

Other requirements include good citizenship, appropriate classroom behavior, good attendance and 2.0 to 3.5 GPA. AVID students are required to take at least one advanced course. 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>.

# SOUTHWEST METRO EDUCATIONAL COOPERATIVE



## **Introduction**

*The Southwest Metro Intermediate District will offer the following courses during the 2017-2018 school year. Each course at the center 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.*

## **Time Schedule**

*All classes offered at the center will be one hundred minutes in length and will offer two credits per semester toward graduation.*

## **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 SWMetro career and technical courses and maintain a B or better: Students can receive post-secondary credit at various two- or four-year colleges.*

## **Transportation**

*Students are required to use transportation provided by Shakopee High School to the SWMetro. Students who drive risk losing the opportunity to attend courses and will be placed in 2 study halls for the semester.*

## AGRICULTURAL SCIENCE/FFA PATHWAY

Agricultural Education courses teach skills that can be applied to a career immediately after high school or it is an excellent springboard for a college education. Agricultural course cover basic biology and chemistry in an applied curriculum, to allow students the opportunity to understand the concepts. Agricultural occupations are an ongoing topic in each course.

### INTRODUCTION TO AGRICULTURE, FOOD AND NATURAL RESOURCES

Grades: 11, 12  
Credits: **SHS:** 2 Credits per semester  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
Schedule: Available Every Year  
Prerequisite: None

**Course Description:** This course introduces students to the components of the Agricultural Science program. The history, membership and events available through the FFA program will be discussed. Students will investigate the basics of running effective meetings through parliamentary procedure and will practice the process. Leadership is a key component of the FFA program and other student organizations and students will discover the tenets of successful leadership. The balance of the semester, will overview different aspects of the industry of agriculture and its contribution to the global society.

#### **SouthWest Metro FFA**

All students enrolled in an agricultural course have the opportunity for membership in the National FFA Organization. FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agricultural education.

### AGRICULTURAL SCIENCE

Grades: 11, 12  
Credits: **SHS:** 2 Credits per semester  
**College:** Students may be eligible to receive post-secondary credits for career and technical courses completed  
Schedule: Available in 2016-2017  
Prerequisite: None

There are four course options for year 2 of this program. The students and professor of the course will decide together which two of these four options will be the focus of the program for year 2:

**Farm Business Management:** This course covers the principles of managing a farm business. Students will be introduced to basic posting and record keeping concepts. Financial planning and analysis will be investigated, helping the student identify profitable and unprofitable businesses and practices. Marketing, investments, taxes and Ag law may also be introduced depending on the time frame and interests of the class.

**Plant and Soil Science (Spring 2019):** This course covers the principles of plant science. The course includes taxonomy, anatomy, fertility and selection of plants for different purposes. Plants will be studied as they relate to crop production, horticultural and landscaping uses. Soils and soil fertility will also be a key component of the course.

**Natural Resources and Wildlife (Fall 2018):** This course covers information related to management of our natural resources and wildlife. Identification and stewardship of local natural resources will be emphasized. A major portion of the course is the investigation of energy sources and production. The wildlife portion of the course will emphasize Minnesota wildlife and will meet the requirements for the MN Advanced Hunter Education program.



# AUTOMOTIVE SERVICES PROGRAM

## Automotive TECHNOLOGY - A & B

Grades: 11, 12

Credits: SHS: 2 Credits per semester

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

Prerequisite: None

Fees: None

**Course Description:** The automotive technology program teaches students the necessary skills and knowledge to work on today's vehicles. This course is designed to prepare students for an automotive future either as an automotive technician or as an automotive consumer. Students will spend 60 percent of their time working with industry standard equipment in the lab. Our curriculum meets NATEF standards and also helps reinforce core subjects through hands-on projects. This two-year program is divided into four independent semesters to allow students to take individual semesters if they are unable to attend the entire program. A driver's license is not required. Students can enroll any semester.

### Automotive Technology Curriculum

The duration of the course is two years. Semesters one and two will be covered in school years beginning with odd numbers (e.g. 2017/2018). Semesters three and four will be covered during school years beginning with even numbers (e.g. 2018/2019).

Semester One (2017/2018)	Semester Two (2017/2018)	Semester Three (2016/2017)	Semester Four (2016/2017)
<ul style="list-style-type: none"> <li>Auto Shop Safety</li> <li>Brakes (ASE 5)</li> <li>Heating and A/C (ASE 7)</li> </ul>	<ul style="list-style-type: none"> <li>Auto Shop Safety</li> <li>Engine Performance (ASE 8)</li> <li>Engine Repair (ASE 1)</li> </ul>	<ul style="list-style-type: none"> <li>Auto Shop Safety</li> <li>Steering &amp; Suspension Systems (ASE 4)</li> <li>Manual drive train &amp; axles (ASE 3)</li> </ul>	<ul style="list-style-type: none"> <li>Auto Shop Safety</li> <li>Electrical/ Electronics Systems (ASE 6)</li> <li>Automotive transmissions &amp; transaxles (ASE 2)</li> </ul>

# Construction Technology

## Construction Technology A & B

Grades: 11, 12

Credits: SHS: 2 Credits per semester

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

Prerequisite: None

**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.

### Semester 1

<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>Foundations</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>
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### Semester 2

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

## **CDA – Child Development Associate**

### **Child Development Associate Credential**

Grades: 11, 12  
Credits: 2 Credits – 1 Semester  
Prerequisite: None  
Fees: None

The Child Development Associate (CDA) Credential 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 child care centers and preschools.

This 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 move 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.

This is a one-semester course and students can enroll either semester.

## **Education Pathway**

### **Introduction to Education - A**

Grades: 11, 12  
Credits: SHS: 2 Credits – Semester 1  
College: Students may be eligible to receive post-secondary credits for career and technical courses completed  
Prerequisite: None

#### **Program Description:**

Introduction to Education provides an overview of the education profession and U.S. educational system. It is an excellent way for students to determine if they would like to pursue a career in education. Topics include: current theories, trends and issues in education, ethics, certification standards, roles and responsibilities of teachers, learners, and other school personnel. This course will also explore the historical development and social foundations of education and educational institutions. There will be a 25-hour practicum in a K-12 classroom as a requirement for the class.

#### **Expectations:**

- Class Participation and Attendance: Each student is expected to attend all class periods and participate in class activities.
- Text Reading: Each student will read all required chapters carefully and participate in related class activities. Quizzes are the summative assessments for each chapter.
- Field Experience: Each student will spend at least 25 hours observing and participating as required in a K- 6 school classroom. The field experience includes required reflection papers and forms to be completed in order to receive full grade credit.
- Class Topic Presentation: Each student will participate in researching an education topic and making a presentation to the class.

There are four required papers as well as daily formative assessments.

### **Multicultural Education and Human Relations in Schools - B**

Grades: 11, 12  
Credits: SHS: 2 Credits – Semester 2  
College: Students may be eligible to receive post-secondary credits for career and technical courses completed  
Prerequisite: Introduction to Education (Semester 1)

#### **Program Description:**

Multicultural Education and Human Relations in Schools introduces pre-service teachers to core concepts and approaches to multicultural education including issues related to students, family and community diversity based on culture, language, race, class, gender, sexual identity and disability. Topics addressed include: issues about the hierarchy of education with regard to privilege, equity and access to high quality education. Students will learn culturally and linguistically responsive classroom strategies. Emphasis is placed on demonstrating the multicultural competence required of all successful teachers who work with today's diverse youth. Field experience hours are part of the course requirements.

#### **Expectations:**

- Class Participation and Attendance: Each student is expected to attend all class periods and participate in class activities.
- Text Reading: Each student will read all chapters carefully and participate in related class activities
- Class Topic Presentations: Each student will participate in researching a topic on multicultural education and making a presentation to the class.
- This is a writing intensive class. A minimum of 21 pages must be written, edited and graded during this course. This includes essays, reflective papers, research papers and journals.

## IT Pathway

### COMPUTER REPAIR – A & B

Grades: 11, 12

Credits: SHS: 2 Credit per semester

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

Prerequisite: None

Computer Repair and Certification gives you the knowledge and ability to work with computers and operating systems in order too...

- Not have to ask for help while using a computer, ever.
- Build or upgrade your own computer and software.
- Get jobs working on computers while in college.
- Become an industry recognized and “certified” computer technician.

The content of this course tracks towards learning the material required to pass either the CompTIA A+ or TestOut PC Pro exams. These are computer industry recognized exams. This course duplicates the first course of many colleges in the study of computer systems and networking.

#### 1st Semester

- |  |   |  |
|--|---|--|
| • Being a PC technician  | • Storage: optical drives – ATA, Serial ATA, SCSI, File System, RAID                      | • Printing: printers, configuration, management, maintenance |
| • System Components: power supply, motherboard, processors, etc. | • Networking: hardware, Ethernet, network addressing – IP v4, IP v6, utilities, HomeGroup | • Mobile Devices: notebook computers, apps, maintaining      |
| • Peripheral Devices: USB, display, firewire, etc.               |   |  |

#### 2nd Semester

- |  |   |
|--|---|
| • Windows System Management: preferences, performance, users and groups, applications, updates | • Security: best practices, physical, social, BIOS, malware, authentication, encryption, firewalls, proxy |
| • System Implementation: components, pre/post considerations                                   | • Troubleshooting: motherboard, storage, video, etc.  |
| • File Management: locations, managing, NTFS, sharing, offline                                 |   |

Students are encouraged to start in fall semester, however they can also start spring semester and complete the course the following fall if possible. Taking or passing either exam is not a course requirement and does not count negatively toward your grade. You will be offered a chance to take the PC Pro exam during class.

This class is a prerequisite for the computer networking class. This course requires a desire to understand computers, to work inside computers and to repair them. This is not a computer gaming class.

### COMPUTER NETWORKING – A & B

Grades: 12

Credits: SHS: 2 Credits per semester

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

Prerequisite: Computer Repair

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.

#### Semester 1

- |                          |                          |                      |
|--------------------------|--------------------------|----------------------|
| • Networking Basics      | • Ethernet               | • Wide Area Networks |
| • Cables and Connections | • Network Implementation |                      |
| • Networking Devices     | • Wireless Networking    |                      |

#### Semester 2

- |                    |                      |                   |
|--------------------|----------------------|-------------------|
| • Network Security | • Network Management | • Troubleshooting |
|--------------------|----------------------|-------------------|

This is a self-paced class. Successful completion of the Computer Repair course is required before enrolling in this class.

## COSMETOLOGY PROGRAM

Our mission is to provide students with the opportunity to discover the Cosmetology industry through learning, leadership, marketing, and artistic skills. We offer students the opportunity to explore and practice the art and science of beauty care. The course consists of all aspects of this industry including, Minnesota State Laws and Rules, professional development, design decision in hairstyling, chemical texturizing, hair coloring, salon environment, nail care, skin care, waxing, retailing and salon business.

This program is offered in a licensed Cosmetology School setting, thus giving the student both the training and hands on aspects of the profession. Electing this program will allow students to explore diversified career possibilities as well as earn hours that are transferable to post-secondary Cosmetology schools.

### COSMETOLOGY 1 – A & B

Grades: 11, 12

Credits: **SHS:** 2 Credits per semester

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

Prerequisite: None

Fees: \$85 (Lab fee includes mannequin head, nail care pack and other required supplies–cost is subject to change if supply costs increase)

#### **1<sup>st</sup> Semester**

- Intro to MN State Laws & Rules
- Safety & Infection Control
- Intro to Hair
- Intro to Hair styling
- Intro to Hair Design
- Haircutting
- Hair Styling
- Practical Application

#### **2<sup>nd</sup> Semester**

- MN Laws & Rules
- Intro to Manicuring
- Natural & Artificial Nails
- Intro to Pedicuring
- Intro to Massage
- Intro To Skin Care
- Waxing
- Facials
- Make-Up
- Practical Application

### COSMETOLOGY 2 – A & B

Grades: 12

Credits: **SHS:** 2 Credits per semester

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

Prerequisite: Cosmetology I

Lab Fee: \$85 (Fee includes equipment kit, product supplies and mannequin head)

#### **1<sup>st</sup> Semester**

- Review – Basic Haircutting
- Laws & Rules
- Short/clipper Haircutting: Men's Haircutting
- Practical Application
- Women's haircutting
- Hairstyling/Finger Waves/Pin Curls
- Intro to Hair Relaxing
- Practical Application

#### **2<sup>nd</sup> Semester**

- Intro to Perming
- Theory & Technique
- Laws & Rules
- Practical Application
- Intro to Hair Color/Foiling
- Salon Business/Management
- Practical Application



## CRIMINAL JUSTICE PATHWAY

The security needs of today's world have created a new career demand. Preparation of the various professionals dealing with these concerns will be the subjects addressed in the Criminal Justice Program. The program is designed for students interested in becoming police officers, federal agents, probation/parole officers, lawyers/judges, juvenile justice workers, and crime scene investigators. The institutions of police, courts, and corrections will be studied as to how they protect people and their rights, apprehend law violators, prevent crime and provide social services. Writing and critical thinking skills will be developed throughout the course by class discussion, student presentations and small group activities. Related college programs are available at two and four-year state colleges. The course is a two-year program with a different class offered each semester. Students applying for and meeting PSEO eligibility could earn 3 credits per semester from Normandale Community College.

Crime Scene Investigation, communications, and criminal justice ethics will be a part of each semester's study plan

### **CRIMINAL JUSTICE**

*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

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

Prerequisite: None

**NCAA Core Course**

#### **1<sup>st</sup> Semester: Police & Community (Fall 2018)**

- |                             |                                  |                                 |                           |
|-----------------------------|----------------------------------|---------------------------------|---------------------------|
| • Origins of U.S. Policing  | • Use of Force                   | • Police and Domestic Violence  | • Police Corruption       |
| • Police Discretion         | • Police Shootings               | • Special Police Units          | • Police and Legal Issues |
| • Contemporary Policing     | • MN Post Board                  | • Police Conduct and Ethics     | • Patrol                  |
| • Community Policing        | • Police Attitudes and Behaviors | • Terrorism and Law Enforcement | • Investigation           |
| • Police and Crime Fighting | • Racial Profiling               | • Current Issues in Policing    | • Police Organization     |
| • Calls for Police Services |                                  |                                 | • Hiring Process          |
| • Arrest and Booking        |                                  |                                 | • Police Socialization    |

#### **2<sup>nd</sup> Semester: Introduction to Corrections (Spring 2019)**

- |   |                                |  |  |
|---|--------------------------------|--|--|
| • Origins of Corrections                      | • Community Corrections        | • The Death Penalty  | • Chemical Dependency and the Law      |
| • Philosophy of Corrections and Charges       | • Plea Bargaining              | • Three Strikes and You're Out Policies                      | • Policies Discretion: Judges, Lawyers |
| • Social Interventions and Juvenile Diversion | • Drug Courts                  | • Mandatory Minimum Sentences / Truth in Sentencing Policies | • Mentally Ill and Incarceration       |
| • Understanding Recidivism                    | • Juvenile Courts              | • Treatment vs. Punishment                                   | • Elderly and Incarceration            |
| • Jails and Prisons                           | • The War on Drugs and Prison  | • Restorative Justice Model                                  | • Addiction and Incarceration          |
| • Probation and Parole                        | • Minorities and Incarceration |  |  |
|   | • Life Sentences               |  |  |

# GRAPHIC DESIGN AND PRINT PROGRAM

## GRAPHIC DESIGN AND PRINT 1 – A & B

Grades: 11, 12

Credits: SHS: 2 Credits per semester

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

Prerequisite: None

Required Materials: 4MB or larger flash drive

The Graphic Design and Print program 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. In the first year of the program students who take the full year will have the opportunity to make T-shirts, stickers, 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 opportunities.

### 1<sup>st</sup> 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

### 2<sup>nd</sup> Semester

- 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

## GRAPHIC DESIGN AND PRINTING 2 – A & B

Grades: 11, 12

Credits: SHS: 2 Credits per semester

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

Prerequisite: Graphic Communications I maintaining a B or above average

Second year students will be focused 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.

### 1<sup>st</sup> Semester

- Introduction to Web Design
- Advanced Screen Printing
- Portfolio Building
- Marketing
- Client Assignments and Internships

### 2<sup>nd</sup> Semester

- Mobile Development
- Personal Website Building
- Introduction to Animation
- Social Media Presence
- Portfolio Building
- Client Assignments and Internships

*Students who drive risk losing the opportunity to attend courses and will be placed in two study halls for the duration of the semester.*

## MEDICAL CAREERS PATHWAY

### **MEDICAL CAREERS A & B**

Grades: 11, 12

Credits: **SHS:** 2 Credits per semester

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

Prerequisite: None

Required Materials: Students have an option to obtain the certifications listed below. Some fees are attached to those certifications. Some other optional field trip opportunities may also have fees.

This course will provide an opportunity for students to explore different types of healthcare career opportunities. The class will encompass guest lectures, healthcare facility tours, and job shadow opportunities. Take your interest in careers in health care to the next step. Get a first-hand look at the skills and competencies needed to work in healthcare. This course will focus on the skills that would be required of anyone working in a healthcare setting while focusing on earning industry certifications. Medical terminology, concepts, and outlook are embedded in all of our Medical Careers classes. Earning certifications is an option and not required to receive high school credit. College credit is available for students who earn their certifications.

### **Certifications**

#### **CPR/AED, First Aid, and BLS for the Healthcare Provider**

Required Materials: \$10 for certification

American Heart Association Certification

#### **Emergency Medical Responder (EMR) – 1<sup>st</sup> semester**

Medical training required of firefighters and law enforcement, students will learn about emergency services, advanced first aid, and health care provider CPR. This course includes a focus on learning anatomy and physiology and provides many field experiences to do hands on skills.

#### **College Credit (EMR only as of December 2017):**

Concurrent Enrollment credits are available from Normandale Community College

To enroll for college credit, students are required to:

Fill out an application, provide a transcript and take a college entrance exam (Accuplacer).

#### **Emergency Medical Technician (EMT) – 2<sup>nd</sup> semester**

Prerequisite: 1<sup>st</sup> semester EMR Course

Required Materials: For certification, students will need to pass a background check (\$30.10), get screened for Tuberculosis, and purchase a uniform.

Certification Testing: State skills test and National exam (around \$125)

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, but are also by fire departments, in police departments, and there are many firefighter/EMTs and police officer/EMTs. EMTs operate under a limited scope of practice and are typically supervised by a medical director, who is a physician. First Aid/CPR or EMR certifications are a prerequisite to this semester long course.

The criteria for earning industry certifications come from the issuing institutions and are generally higher than that of a typical high school class. In order to earn these certifications, students may need to put in time outside of class for clinicals, studying, or practicing skills as well as to taking state tests. While all students may not earn the certifications, all will leave the class with an understanding of medical careers.

#### **Nursing Assistant – 2<sup>nd</sup> semester**

Required Materials: For certification, students will need to pass a background check (\$30.10), get screened for Tuberculosis, and purchase scrubs.

Certification Testing: State skills and knowledge test (around \$200)

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.

## **PHOTOGRAPHY PROGRAM**

The Photography Program covers nearly every aspect of photographic skills one would need to pursue photography as a lifelong hobby or career. These courses, which are taught by practicing professionals and teach everything from nature, landscape, photojournalism, commercial to wedding and portrait photography. This course utilizes both historical and current photographic processes, everything from film to digital, simple point and shoot cameras to the tools real professionals use, and small to large format cameras. Adobe Photoshop is used for photo editing is taught with all of the digital projects. The labs consist of a Mac computer lab, a full portrait studio, commercial product station, two darkrooms, and a film development station.

### **PHOTOGRAPHY 3, 4 & 5**

Grades:	11, 12
Credits:	<b>SHS:</b> 2 Credits per semester <b>College:</b> Students may be eligible to receive post-secondary credits for career and technical courses completed
Prerequisite:	Successful completion of Photography 1 and Photography 2 at Shakopee High School
Course Fee:	\$40 per semester
Lab/Lecture Time:	70/30
Notes:	Students are strongly encouraged to provide their own DSLR camera. Each level of photography is a semester in length and offered each semester.

**Course Description:** This is a great program for everyone interested in photography, whether it be for a career, hobby or just have better images for their social media. These courses are taught by practicing professional photographers who bring real world experience into the classroom. The classes cover an extremely wide range of subjects and photographic techniques.

Our facilities offer a full Mac lab with the full Adobe suite of software for digital editing and printing. Two darkrooms are used for traditional black and white film photography. There is also a great portrait studio and a full range of photo tools at your disposal.

This is a hands on course! The majority of your class time will be spent working on your very own unique photographs.

**Photo 3:** Now that you have a basic understanding of the controls of a camera and the basic processes of photography this course gives you the opportunity to apply those skills to professional photography assignments. Those cover the range from portraits, photojournalism, advertising, landscape and much much more! This course should give you a foundation in the skills necessary of a professional photographer.

**Photo 4:** This semester you will now refine your skills and be pushed into truly developing your own unique personal style for your own photography. Throughout this semester you will also 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.

**Photo 5:** This final course in photography is designed to prepare students for their next step into the profession of photography. This will include developing a website, personal branding, a professional social media presence, and all the legal documents needed by every photographer. Students will also have a job shadow and or internship opportunities, most students will also have the opportunity to shoot in a professional environment and have their own real clients. Upon completion of this course students should be ready to take their first steps into this as a career or elite photo programs/schools around the nation. Additional equipment will be strongly encouraged as students prepare for a genuine career in this field.



# 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 a 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.

**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.

Insert Index



**Shakopee High School | 100 17th Ave. W. Shakopee, MN 55379**

