

# KEY TO COURSE DESCRIPTION

## **AEO**

### **Also Available through Academic Excellence Online (AEO)**

Online high school is an option for students and families who desire a bit more flexibility in their schedule. Online learning provides a unique way for students to continue, expand or enhance their education. Online learning offers students the ability to engage in learning opportunities they have not had access to before. Students can advance their education through one of the most up-to-date and compliant online high school programs in the state that is offered through the Duluth Public Schools. Students benefit through a personalized, relationship-based, and interactive online academic experience. These courses meet MN State Standards.

## **ACC**

### **Articulated College Credit**

Articulation allows high school students to earn Career and Technical Education (CTE) college credits as a sophomore, junior or senior. Students may earn credits while they stay in their own high school if they meet their high school's requirements and are in an articulation program. Articulation Agreements must be in place between the high school and college in order to receive articulated credit.

## **AP**

### **Advanced Placement (AP)**

These courses are a great option for students looking to challenge themselves to have a more rigorous course and to help them be more academically challenged. The Advanced Placement Program, administered by The College Board and taught at local high schools, allows students to participate in a university level course and possibly earn university credit while still in high school. Secondary schools and universities cooperate in this program to give students the opportunity to show mastery in university-level courses by taking the AP exam in May of each school year. There may be a minimum grade point average or have taken certain classes before you are allowed to take AP courses. All AP courses adheres to rigorous standards set by the College Board. Students will be asked to cover the cost of testing.

## **CTE**

### **Career and Technical Education (CTE)**

Career and Technical Education (CTE) programs are a sequence of courses that integrate core academic knowledge with technical and occupational knowledge and skills to provide students a pathway to postsecondary education and careers. CTE teaches transferable workplace skills in applied learning contexts to provide opportunities to explore high-demand career options, and gives students the technology and skills needed for success in adult life.

## **CITS**

### **College in the Schools (CITS)**

College in the Schools allows students to earn both high school and college credit for classes offered through high school and taught by a high school teacher. Credits earned through the College in the Schools program are accredited and will transfer to other Minnesota colleges and universities. Acceptance of transfer credits by private and out-of-state colleges and universities is always guided by the policies of the postsecondary institution accepting the credits. Eligibility varies depending on the college that the courses are offered.

## **REPT**

### **Repeatable Courses**

**Elective** courses may be repeated for additional credit as long as a **different curriculum** is provided to the student. An example would be a course where students are expected or could enroll in a class on a continuing basis with additional new curricular content, and the use of the same course number is recurring. The repeatable courses are identified with the icon in the course description. Additional credits may be earned for repeatable courses. Examples of repeatable courses: Introduction to Foods, Introduction to Cooking, Advanced Drawing and Painting, Advanced Ceramics and Sculpture, and most music courses.

# HIGH SCHOOL COURSE NAMES AND DESCRIPTIONS

## ART

### 100000 Art Across Mediums

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**Also available through AEO**

Design and create artworks with a variety of mediums, such as jewelry, cartooning, printmaking, stained glass, book arts, fibers, digital design, set design, and airbrush. Each unit will focus on a unique creative process through historic/cultural contexts and design principles.

### 101000 Drawing and Painting 1

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

Develop and improve your drawing and painting abilities for fine art or commercial design applications. Learn skills for drawing from direct observation and imagination and build understanding of design principles, visual literacy, color theory, and critical thinking. Design concepts are explored through a variety of media, such as pencil, charcoal, pastel and ink, watercolor, acrylic, collage, digital media, mixed media, and airbrush.

### 101100 Advanced Drawing and Painting

**Prerequisite:** Drawing and Painting 1

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**REPT**

Expand your skills and develop your personal style for a range of functions, from narratives to creative applications for personal expression or commercial use. Students contract individually to research, plan, and design independent works of art within the context of the core class.

*Drawing and Painting 1 cannot be taken concurrently with Advanced Drawing and Painting.*

### 101300 Art of Photography and Cinematography 1

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**REPT**

Develop and demonstrate photography and composition skills through a variety of design themes, building digital photography/editing skills on a foundation of film and paper processes. Explore color imaging through print and media. Explore the evolution of still to moving images through animation and cinematography, practicing

composition through camera movement, point of view, and digital video editing.

### 101400 Advanced Art of Photography & Cinematography

**Prerequisite:** Art of Photography and Cinematography 1

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**REPT**

Students continue to hone their behind-the-lens skills through photography and cinematography, using a variety of photography, animation and cinematography skills with digital editing tools. This course emphasizes individual creativity in both artistic and commercial media design, while students study photographic and cinematic artists and careers based on arts standards objectives.

*Advanced Art of Photography and Cinematography cannot be taken concurrently with Art of Photography and Cinematography 1.*

### 101600 Ceramics and Sculpture 1

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

Clay handbuilding and wheel-throwing skills, as well as glazing and clay decorative techniques, provide students with basic skills that carry into ceramics, sculpture and mixed-media work for both utilitarian and artistic purposes.

### 101700 Advanced Ceramics and Sculpture

**Prerequisite:** Ceramics and Sculpture 1

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**REPT**

Students work independently in areas such as handbuilding and wheel throwing in clay, and a variety of mediums in sculpture. Students design and create more challenging pieces, developing personal style through individual student preferences and ideas.

*Advanced Ceramics and Sculpture may not be taken concurrently with Ceramics and Sculpture 1.*

### 101710 (CITS) Ceramics

**Prerequisite:** Ceramics and Sculpture 1

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CITS**

**Refer to page 16 for more information CITS credit.**

Students will learn new advanced handbuilding and wheel throwing techniques. They will also explore surfaces using Majolica, salt firing, decals, as well as stoneware and high temperature glazes. Both contemporary and historical

ceramic and art history are incorporated in studio classes as well as regular group and individual critiques. CITS classes are conceptually based allowing students to focus on their work and personal explorations while maintaining a vital interactive studio experience.

### **101900 Stained Glass, Metals, and Fibers 1**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

Design and create works of art with a variety of techniques with contemporary and historic crafts such as mosaic, etchings, glass fusing, windows, tooled metals, jewelry, weavings, and casting.

### **102000 Advanced Stained Glass, Metals, and Fibers**

**Prerequisite:** Stained Glass, Metals, and Fibers 1

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**REPT**

Develop personal style, sharpen your skills, and use a range of technologies for a more in-depth exploration of these traditional and fine craft forms.

*Advanced Stained Glass, Metals, and Fibers may not be taken concurrently with Stained Glass, Metals, and Fibers.*

## **BUSINESS/MARKETING COMPUTERS**

### **110000 Business and Personal Finance**

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

**CTE**

Students will gain the ability to manage their personal finances and make wise economic decisions. Areas explored include budget planning, banking, tax returns, investing, consumer credit, insurance, and career exploration. This course will help students become intelligent decision-makers in a global economy.

### **114100 Introduction to Marketing and Business**

**Grade(s):** 9-12

**Credit:** .5 Semester

**Term(s):** 1 or 2

**CTE**

Marketing and Business involves the many activities needed to get products/services from producers to consumers. It's one of the most exciting and vital career areas you could ever explore. This class is a must for all students who plan on succeeding in our very competitive Free Enterprise System. Students will be exposed to Marketing/Business, Economics and Human Relations.

Activities will help students apply all of the marketing and business functions and relate them to any career opportunity. In addition, students will learn advanced skills in locating, applying for, and keeping a job.

### **114200 Sports and Entertainment Marketing**

**Prerequisite:** Introduction to Marketing and Business

**Grade(s):** 9-12

**Credit:** .5 Semester

**Term(s):** 1 or 2

**CTE**

The marketing and business field is seeing exponential growth in the sports and entertainment industry. Now a \$500 billion industry, the sports and entertainment industry has become a dominant presence not only in the U.S., but also in the rest of the world. The sports and entertainment industry encompass everything from digital communications to personal service and sales. Students will learn the fundamental principles and concepts identified with sports and entertainment marketing, and develop skills through marketing research and actual industry-based projects. Students will also have the opportunity to plan, implement and evaluate school and community sports and entertainment marketing practices and strategies.

*This course can be taken concurrently with Introduction to Marketing and Business.*

### **114300 Business Management, Leadership, Coaching**

**Prerequisite:** Introduction to Marketing and Business

**Grade(s):** 9-12

**Credit:** .5 Semester

**Term(s):** 1 or 2

**CTE**

Marketing and Business Management gives students insight into the characteristics, organization, and operation of business, management and leadership. This class will give any student, whether planning to go on to school or work after graduation, the edge in the job market. To be successful in the global and diverse workplace, students must develop communication, human relations, self-management, and workplace enhancement skills. More than ever before, merely being technically competent is not sufficient.

*This course can be taken concurrently with Introduction to Marketing and Business.*

### **114400 Starting Your Own Business-Entrepreneurship**

**Prerequisite:** Introduction to Marketing and Business

**Grade(s):** 9-12

**Credit:** .5 Semester

**Term(s):** 1 or 2

**CTE**

An Entrepreneur is a person who attempts to earn a profit by taking the risk of operating their own business enterprise. Thousands of people become entrepreneurs

each year. They start their own businesses from scratch, buy existing businesses, or buy franchised business; if they are successful in providing products and services to consumers at a profit, they will build rewarding careers for themselves as entrepreneurs. This class will help you understand what it is like to be an entrepreneur and what is involved in starting a business. Economics will be emphasized in this class.

### **111111-111112 AP Computer Science & Principles**

**Grade(s)** 11-12

**Credit:** .5 Semester

**Term(s):** 1 and 2

**CTE, AP**

Learn the principles that underlie the science of computing and develop the thinking skills that computer scientists use. You'll work on your own and as part of a team to creatively address real-world issues using the tools and processes of computation.

### **221410 Introduction to Agriculture, Food and Natural Resources Sciences**

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

Introduction to Agriculture and Natural Resource Sciences provides a project-based survey of the array of professions in these fields. Students will be introduced to the breadth of these industries. Particular focus will be given to engaging students in firsthand experiences of these industries in Duluth and how emerging technologies behind urban agriculture, food science, and natural resources are revolutionizing issues of scale, efficiency, yield, and local community-based production to power the rapid expansion of this industry in our city. Students will survey a wide array of topics within the industry, gaining understanding of types of agriculture, trends, and career opportunities. Using the SAE model, students will explore where their career interests lie and identify areas for continued study. Students will learn and practice career and leadership skills, through introduction and involvement in Future Farmers of America (FFA).

## **EDUCATION**

### **202301-202302 (CITS) Pathway2Teaching; Introduction to Socially Just Education**

**Grade(s):** 11-12

**Credit:** .5 per Semester

**Term(s):** 1 & 2

**CITS**

**Refer to page 16 for more information on CITS credit.**

This course examines teaching as a career and the foundations of our educational system. Students will

explore the sociopolitical context related to schools, communities, and teaching while providing an overview of such topics as school culture, diversity, ethnicity, and social realities in American schools. Students will learn research skills by reviewing and analyzing achievement data to generate questions, offer suggestions, and engage in critical dialogue about educational topics.

### **201400 Child Development/Child Psychology**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

In this course, students will develop knowledge and understanding in guiding the growth and development of children ages zero-six. Students will explore concepts of human growth and development influences and analyze the effect on a child's emotional, physical, social, and cognitive growth. This course is designed for students to explore careers that involve working with young children and is strongly recommended for those students considering pursuing careers involving young children. Part of the class experience will include working with young children in the community. These skills will help prepare students for future employment and will provide valuable training for various careers (i.e. summer camp counselor, recreational director, education and human services).

### **201521-201522 Early Childhood and Education Professions\* (2-hour class) Consecutive Blocks**

**Grade(s):** 10-12 (9<sup>th</sup> grade by arrangement)

**Credit:** 1 per semester

**Term(s):** 1 & 2

**CTE**

Early Childhood and Education Professions: Are you ready to work with children ages 4-5 while earning college credit? This course is a lab preschool setting with lecture and covers topics from birth through school aged children. Students will mentor a preschooler for the year and learn about child development, safety, guidance, theory, and best practices, teach basic curriculum, conduct observations, and earn hours towards industry certification through lab days. Students also have a student organization and opportunities to complete at the state and national level in this field. Practicum experiences are included. Use research based best practices and apply your skills directly.

*Please note: Students need to be scheduled for the same block both semesters. \*This course is offered at Denfeld. East High School students may register for this course. Transportation is provided to and from Denfeld.*

# ENGINEERING AND INDUSTRIAL TECHNOLOGY

## **121211 Introduction to Engineering Design (CAD)**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

*Opportunity to earn the Certified SolidWorks Associate (CSWA) certification.*

This course is a single semester introduction to engineering design concepts for students who would like to explore the Engineering Design program without the need to commit to a full year course. It also affords students who may not be able to fit a full-year course into their schedule the ability to get started on the Engineering Design pathway. Students learn about the engineering design process and parametric 3D modeling through the use of SolidWorks industry leading Computer Aided Drafting (CAD) software. Students who complete this course can continue on to Principles of Engineering to complete the prerequisite for advancement in the Engineering Design sequence as well as the Fab Lab courses. It is recommended for any students interested in exploring the engineering profession or who plan to pursue a career in engineering, design, technical illustration, 3D printing, machining, or other technical fields.

## **121502 Principles of Engineering**

**Prerequisite:** Introduction to Engineering Design

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 2

**CTE**

*Opportunity to earn the Certified SolidWorks Associate (CSWA) certification.*

Principles of Engineering Design builds off the skills learned in Introduction to Engineering Design. Students continue to develop their understanding of engineering concepts and proficiency using SolidWorks state-of-the-art Computer Aided Drafting (CAD) software. They learn to create assemblies, to read and prepare drawings found in manufacturing and engineering industries, and begin to explore more advanced CAD techniques like stress analysis and motion studies. This course fulfills the prerequisite for advancement in the Engineering Design sequence as well as the Fab Lab courses. It is recommended for any students interested in pursuing a career in engineering, design, technical illustration, 3D printing, machining, or other technical fields.

## **121600 Sustainable Design**

**Prerequisite:** Principles of Engineering

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

*Opportunity to earn the Certified SolidWorks Associate in Sustainable Design (CSWA-SD) certification.*

In Sustainable Design, students explore the environmental impact factors of design decisions. They examine Life Cycle Assessments (LCA) for product design including material extraction, production, manufacturing, product use, transportation, and end-of-life disposal/recycling. Students use the SolidWorks SustainabilityXpress program to examine designs for environmental impacts in natural resource depletion, energy consumption, air acidification, water eutrophication, and carbon footprint. They take product designs through an iterative engineering process to compare and propose alternatives in pursuit of more sustainable design options. This course may require students to complete some work independently.

## **121610 Weldments**

**Prerequisite:** Principles of Engineering

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

*Opportunity to earn the Certified SolidWorks Advanced Professional in Weldments (CSWAP-WD) certification.*

In this course, students explore the SolidWorks Weldments functionality to design welded structures. They design models using 3D sketches and weldment profiles. They learn to modify corner treatments such as mitered corners and end-butts, make their designs structurally sound using support beams and gussets, and apply finishing features like end caps and base plates. They determine the types of weld beads to be used for joining parts as well as how to specify them on an engineering drawing. They also learn how to use SolidWorks Weldments to derive cut-lists for their design. This course may require students to complete some work independently.

## **121620 Simulation: Finite Element Analysis**

**Prerequisite:** Principles of Engineering

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

*Opportunity to earn the Certified SolidWorks Associate in Finite Element Analysis (CSWA-FEA) certification.*

In this course, students use SolidWorks Simulation to apply the Finite Element Method (FEM) to analyze engineering designs. They perform static analysis studies on parts to apply axial and shear forces to determine bending moments, displacements, reaction forces, strains, stresses, and factors of safety distribution. They examine the stress-strain curve for different materials, and how different loads and restraints affect deformation or displacement that can lead to a potential failure in a model. This course may require students to complete some work independently.

### **121630 Additive Manufacturing**

**Prerequisite:** Principles of Engineering

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

*Opportunity to earn the Certified SolidWorks Associate in Additive Manufacturing (CSWA-AM) certification.*

In this course, students explore the rapidly growing field of additive manufacturing, otherwise known as 3D printing. They examine the benefits and drawbacks for many different material types and processes available in the 3D printing industry. They learn how to design parts with printing considerations in mind, and how to use slicer software to take their CAD designs from SolidWorks into machine printable parts. They learn how to prepare and maintain a 3D printing machine, including changing nozzles, replacing filament, bed & nozzle heating, and alignment. Students investigate how different machine settings like print speed, wall thickness, infill, nozzle/bed temperature, and supports affect a 3D printed part. Students will create their own designs and print those parts using Fab Lab's state of the art 3D printers. This course may require students to complete some work independently.

### **121301-121302 Advanced Engineering Design 1 and 11 (CAD 111 and CAD IV)**

**Prerequisite:** Principles of Engineering

Opportunities for Career Development Internship

**Grades(s)** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

This course is the main continuation of the Engineering Design pathway for students who have completed one year of engineering design studies or have already passed the Certified SolidWorks Associate (CSWA) exam. Students continue to build on their knowledge of CAD and engineering design procedures. They explore advanced CAD techniques like lofts, sweeps, surfacing, cavity molds, structural members, multibody parts, and complex top-down assemblies. They learn to create proper engineering drawings, including exploded view assemblies, bill of materials, detailed views, callouts, datums, and tolerancing. Any students who have not yet earned their CSWA will work to obtain that certification early in the year. The course will include a reverse engineering project where students will thoroughly analyze an existing product and redesign it in CAD. Students will explore possible design improvements or revisions for their reverse engineering project, and take those ideas through the process of design, analysis and application. Throughout the year, the class will review preparation

materials of all three segments of the Certified SolidWorks Professional (CSWP) exam.

### **125000 Advanced Independent Engineering Research and Design**

**Prerequisite:** Teacher Approval

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

This course is the capstone program of the Engineering Design pathway. Students who have successfully completed beginning and intermediate coursework in the Engineering Design program are eligible for this course. Students will work under the premise of "engineer almost anything". Students will work to develop, research, and create projects in engineering and design fields. From this research, students will develop personalized projects to apply advanced skills in design and engineering concepts. This hands-on course will allow students to independently develop skills for future career pathways in STEM, Engineering and Design. Student will work closely with instructor on developing individual learning plan and standards.

### **121201 Fab Lab**

**Prerequisite:** Principles of Engineering Design and Manufacturing Technologies

**Grade(s):** 10 - 12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

This course is the capstone program of the Engineering Design pathway. Students who have successfully completed beginning and intermediate coursework in the Engineering Design program are eligible for this course. Students will work under the premise of "engineer almost anything". Students will work to develop, research, and create projects in engineering and design fields. From this research, students will develop personalized projects to apply advanced skills in design and engineering concepts. This hands-on course will allow students to independently develop skills for future career pathways in STEM, Engineering and Design. Student will work closely with instructor on developing individual learning plan and standards

### **121202 Fab Lab 11**

**Prerequisite:** Fab Lab I

**Grade(s):** 10 - 12

**Credit:** .5 per semester

**Term(s):** 2

**CTE**

In Fab Lab II, students expand on what they learned in Fab Lab I. They continue to apply their knowledge of engineering, design, and manufacturing to take ideas

through the engineering design process and into prototype products. This hands-on course is designed to let students explore software, machines, and practices used in engineering design and give them practical experience. Students work to solve engineering problems through design and development of a prototype, and then test their product and make any revisions to improve their design. Students will work both independently and in groups to create designs using CAD software and fabricate their prototype using the equipment available to them in the Fab Lab. A great deal of emphasis is placed on working as a team, problem solving, process iteration, design improvement, and creating things that interest you.

### **124101 Manufacturing Technologies I**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1

#### **CTE**

In this course, students are introduced to the tools, materials, techniques, and skills that are found in manufacturing industries. Students will learn about the processes, procedures, and safety for taking raw materials into a finished manufactured product. Students learn to operate drill presses, table saws, miter saws, circular & belt sanders, grinders, planers, jointers, scroll saws, and band saws as well as many other hand tools. Students learn to etch designs into parts using the Epilog Helix Laser machine. Projects will focus on fabricating parts and products while working with metals, woods, and plastics. This course is one of the prerequisites for the Fab Lab pathway. It is recommended for students wishing to pursue a career in manufacturing, woodworking, design, construction, or building trades.

### **124102 Manufacturing Technologies II**

**Prerequisite:** Manufacturing Technologies I

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 2

#### **CTE**

In this course, students continue to explore techniques and skills found in the manufacturing industries that they started in Manufacturing Technologies I. Coursework will focus more heavily on precision machining as students learn to use a vertical mill. Students will work with a wide range of materials including wood, aluminum, steel, acrylic, HDPE, UHMW and other plastics. They will learn about the processes, procedures and safety for taking raw materials into finished manufactured products. This course is recommended for students wishing to pursue a career in manufacturing, machining, construction, or building trades.

### **24100 Advanced Manufacturing Technologies III**

**Prerequisite:** Manufacturing Technologies II

**Grade(s):**10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **CTE**

In this course, students continue and expand their study of the tools, materials, techniques, and skills that are found in the machine tool and manufacturing industry. Students will apply their skills and knowledge of processes and techniques to more complex projects. Students will learn the basics of welding as well as computer-controlled machine operation using processes in CAD, CAM, and CNC. Students will be expected to design, plan and complete a large-scale project. Emphasis is placed on individual design, creativity, safety, and craftsmanship. In this course, students will be expected to work independently while developing leadership skills. This course is recommended for students wishing to pursue a career in manufacturing, wood working, metal working, machining, construction, or building trades.

### **122101 CAD for Architecture I**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1

#### **CTE**

This course is intended specifically for students interested in pursuing a career in an architectural field. Students are introduced to Revit Architectural design software where they learn to prepare various types of drawings found in the architectural drafting industry. Students learn about the composition of a typical structure while creating detailed working drawings and Building Information Models (BIM) for homes, duplexes, and cabins. This course is recommended for students interested in pursuing a career in architecture, real estate, interior decorating, or a building trade.

### **122102 CAD for Architecture II**

**Prerequisite:** CAD for Architecture

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 2

#### **CTE**

This course builds off the skills learned in CAD for Architecture I. Students continue to develop their understanding of architectural concepts and proficiency using Revit Architectural design software. Students tackle more complex projects, creating detailed working drawings and in-depth Building Information Models (BIM) to design larger structures like malls and office buildings. This course is recommended for students interested in pursuing a career in architecture, real estate, interior decorating, or a building trades.

## **122110 Advanced Independent Architecture Research and Design**

**Prerequisite:** CAD for Architecture I

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

This course builds on professional skills learned in CAD for Architecture II. Students continue to develop their understanding of architectural concepts and proficiency using Revit Architectural design software. Students tackle more complex projects, focusing on detailed design prints. Students build a portfolio, with all their drawings for internships with local Architecture Firms. This course is recommended for students interested in pursuing a career in architecture, real estate, or commercial structural buildings.

## **171621-171622 Construction Tech 1\* (2-hour class)**

**Grade(s):** 9-12

**Credit:** 1 per semester

**Term(s):** 1 & 2

**CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

This introductory course provides students a “hands-on” experience in various construction occupations to include carpentry, electrical, plumbing, heating, sheetrocking, and taping, painting, and cabinet installation. Most learning will take place on an actual construction site in the community building homes and/or working on rehabilitation projects for nonprofit organizations. Students will increase math abilities related to the trade and construct residential dwellings to meet codes while interpreting blueprints.

*\*This course is offered at East High School. Denfeld High School students may register for this course. Transportation is provided to and from East*

## **171721-171722 Construction Tech 2 (2-hour class)**

**Prerequisite:** Construction Tech 1

**Grade(s):** 10-12

**Credit:** 1 per semester

**Term(s):** 1 & 2

**CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

Construction Technology 2 provides students with advanced skills, tools, and knowledge in current home construction techniques. Students will build a home and/or work on rehabilitation projects for nonprofit organizations. In addition, students will increase their skill levels in all trades and understand mathematical applications as applied to estimating materials so work on projects can progress in an orderly and coordinated schedule. Most learning will take place on a job-site located within the community. Students may participate in an optional youth

apprenticeship/internship with a trade organization, if selected.

*\*This course is offered at East High School. Denfeld High School students may register for this course. Transportation is provided to and from East.*

## **171821-171822 Construction Tech 3\* (2-hour class)**

**Prerequisite:** Construction Tech 2

**Grade(s):** 11-12

**Credit:** 1 per semester

**Term(s):** 1 & 2

**REPT, CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

This course provides students with leadership skills and knowledge in supervisory roles related to project management and advanced roles in building layout, planning, and cost estimation. Most learning will take place within the community while constructing a house and/or working on rehabilitation projects for nonprofit organizations.

*\*This course is offered at East High School. Denfeld High School students may register for this course. Transportation is provided to and from East.*

## **171921-171922 Automotive Basics: Brakes and Engines (2-hour class)**

**Grade(s):** 10-12

**Credit:** 1 per semester

**Term(s):** 1 & 2

**CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

This course introduces students to basic automotive technology including the maintenance and light repair of vehicles with a focus on brakes and engines. Students will earn SP2 shop safety certification. Students will learn to perform engine diagnostics as well as disc, drum, and ABS brake services and repairs. Students will utilize service information and testing equipment to diagnose problems and perform repairs. The instruction will also focus on employability skills, ethics training, and the technical career exploration necessary for entry level employment or post-secondary education in a technical field.

*This is a year-long 2-hour (2 credit) course with no prerequisites. Courses Brakes and Engines and Transmissions and Suspensions may be taken in any order. The program is accredited by the ASE (Automotive Service Excellence) Education Foundation.*

*\*This course is offered at Denfeld High School. East High School students may register for this course. Transportation is provided to and from Denfeld.*



**172121-172122 Automotive Basics:  
Transmissions and Suspension\* (2-hour class)**

**Grade(s):** 10-12

**Credit:** 1 per semester

**Term(s):** 1 & 2

**CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

This course introduces students to basic automotive technology including the maintenance and light repair of vehicles with a focus on transmissions and suspensions. Students will earn SP2 shop safety certification. Students will perform the following: wheel and tire maintenance, power steering system service and inspections, front and rear suspension inspection, maintenance, and repair, and automatic and manual transmission service and adjustments. Students will utilize service information and testing equipment to diagnose problems and perform repairs. The instruction will also focus on employability skills, ethics training, and the technical career exploration necessary for entry level employment or post-secondary education in a technical field.

This is a year long 2-hour (2 credit) course with no prerequisites. Brakes and Engines and Transmissions and Suspension may be taken in any order. The program is accredited by the ASE (Automotive Service Excellence) Education Foundation.

*\*This course is offered at Denfeld High School. East High School students may register for this course. Transportation is provided to and from Denfeld.*

**172231-172232 Advanced Automotive (2-hour class)**

**Prerequisite:** Automotive Basics: Brakes and Engines  
Automotive Basics: Transmission and Suspension

**Grade(s):** 10-12

**Credit:** 1 per semester

**Term(s):** 1 & 2

**CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

Experienced students will work at an advanced level in the automotive shop using test equipment and doing live on car diagnostic and repair work on electrical and electronic systems including HVAC systems and engine performance testing. Students will demonstrate the proper use of a digital volt meter and OBDII scan tools. The instruction will also focus on employability skills, ethics training, and the technical career exploration necessary for entry level employment or post-secondary education in a technical field. Students are encouraged to participate in job shadowing and/or an internship at a local repair facility.

*This is a year long 2-hour (2 credit) course for students with prerequisites. The program is accredited by the ASE (Automotive Service Excellence) Education Foundation*

*\*This course is offered at Denfeld High School. East High*

*School students may register for this course. Transportation is provided to and from Denfeld.*

**172600 Robotics**

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

Robotics is a lab-based course that uses a hands-on approach to introduce the basic concepts of robotics, focusing on the construction and programming of autonomous and operator-controlled mobile robots. Students will learn how to use feedback from sensors and apply mathematics and measurement to program a robot to navigate in its environment. Students will have the opportunity to complete multiple challenges involving guided research, problem solving, and design documentation. The class will promote applications of engineering principles while exploring topics in design, programming, electrical wiring, pneumatics, and strategy. Emphasis will be placed on working as a team and project management. This course is a great introduction to robotics for students interested in joining a LeFIRST competition robotics team.

## ENGLISH LANGUAGE ARTS

**130001-130002 English 9**

**Grade(s):** 9

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

This course is designed to fulfill the expectations of the ninth-grade standards for English Language Arts. Students in this course will:

- Read and comprehend ninth grade literature and informational texts for personal enjoyment, interest, and academic tasks, and read widely to understand multiple perspectives and pluralistic viewpoints. Required ninth grade texts including novels and plays, short stories, essays and poetry. Required common texts include: *Romeo and Juliet*, *Spirit Car*, and *The Odyssey*.
- Use information from multiple print and digital sources, use a writing process to write for a range of tasks, purposes, and audiences
- Use MLA formatting; understand how to avoid plagiarism.
- Demonstrate command of the conventions of language while speaking and writing.
- Acquire and accurately use grade-level vocabulary.

### **131001-131002 Honors English 9**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 9

**Credit:** .5 per semester

**Term(s):** 1 & 2

This rigorous course augments the expectations of English 9. Expectations include:

- More in-depth knowledge is expected and a broader understanding of concepts and generalizations is expected. More student generated classroom discussion and evaluation expected. Honors English is a student-sustained class.
- Students must be able to keep a fast pace of reading and understanding.
- Students will have homework each night as well as short and long-term projects. Projects will be completed individually and in groups with some projects involving class presentations.
- A significant amount of independent reading is required.
- Students should be self-motivated to complete higher level work and to take ownership of their academic success.

### **131101-131102 English 10**

**Grade(s):** 10

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

This survey course is designed to fulfill the expectations of the 10<sup>th</sup> grade standards for English Language Arts. Students will:

- Read and comprehend 10<sup>th</sup> grade literature and informational texts for personal enjoyment, interest, and academic tasks, and widely to understand multiple perspectives and pluralistic viewpoints. Required 10<sup>th</sup> grade texts include novels and plays, short stories, essays and poetry. Required common texts include: *Julius Caesar* and/or *Much Ado About Nothing*, *Antigone*, Arthurian Legends, and *Lord of the Flies*.
- Using information from multiple print and digital sources, use a writing process to write for a range of tasks, purposes, and audiences
- Use MLA formatting; understand how to avoid plagiarism.
- Demonstrate command of the conventions of language while speaking and writing.
- Acquire and accurately use grade-level vocabulary.

### **131201-131202 Honors English 10**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 10

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

This rigorous course augments the expectations of English 10. Expectations include:

- More in-depth knowledge is expected and a broader understanding of concepts and generalizations is expected. More student generated classroom discussion and evaluation expected. Honors English is a student-sustained class.
- Students must be able to keep a fast pace of reading and understanding.
- Students will have homework each night as well as short and long-term projects. Projects will be completed individually and in groups with some projects involving class presentations.
- A significant amount of independent reading is required.
- Students should be self-motivated to complete higher level work and to take ownership of their academic success.

### **131301-131302 English 11**

**Grade(s):** 11

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

This course is designed to fulfill the expectations of the 11<sup>th</sup> grade standards for English Language Arts with an emphasis on American Literature. English 11 explores foundational works of American Literature that are inclusive of multiple cultural perspectives. English 11 semester 1 explores American literature from the pre-colonial period to the late nineteenth century. English 11 semester 2 explores American literature from the nineteenth century to the present. Students in this course will:

- Read and comprehend literature and informational texts for personal enjoyment, interest, and academic tasks.
- Read widely to understand multiple perspectives and pluralistic viewpoints.
- Read at least three of the following texts: *The Crucible*, *Of Mice and Men*, *The Great Gatsby*, *The Autobiography of Frederick Douglass*, *The Nickel Boys*, and *The Scarlet Letter*.
- Analyze foundational U.S. documents of historical and literary significance (including the Declaration of Independence, the Preamble to the Constitution, the Bill of Rights, and Lincoln's Second Inaugural Address) for their themes, purposes, and rhetorical features.
- Evaluate author's differing points of view, including differing points of view about Minnesota American Indian history on the same historical event or issue by assessing the authors' claims, reasoning, and evidence.
- Delineate and evaluate the reasoning in seminal U.S. texts including the application of constitutional principles and use of legal reasoning (e.g., in the U.S. Supreme Court majority opinions and dissents) and the premises, purposes, and arguments in works of public advocacy (e.g., *The Federalist*, presidential

addresses).

- Using information from multiple print and digital sources, use a writing process to write for a range of tasks, purposes, and audiences, use MLA formatting; understand how to avoid plagiarism. Demonstrate command of the conventions of language while speaking and writing and acquire and accurately use grade-level vocabulary.

### **131401-131402 Honors English 11**

**Grade(s):** 11

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### ***Also available through AEO***

This rigorous course augments the expectations of English 11. Expectations include:

- More in-depth knowledge is expected and a broader understanding of concepts and generalizations is expected.
- More student generated classroom discussion and evaluation expected. Honors English is a student-sustained class.
- Students must be able to keep a fast pace of reading and understanding.
- Students will have homework each night as well as short and long-term projects. Projects will be completed individually and in groups with some projects involving class presentations.
- A significant amount of independent reading is required.
- Students should be self-motivated to complete higher level work and to take ownership of their academic success

### **131501-131502 AP Language and Composition**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 11

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### ***AP***

This rigorous course teaches students to become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. Students will compose a variety of analytical and argumentative essays on non-literary topics. This course will prepare students to take the AP Exam in Language and Composition administered by the Educational Testing Service for the College Board. Students in this course will:

- Analyze the rhetoric of professional authors.
- Appropriately use rhetoric in writing, controlling tone, establishing and maintaining voice, and achieving appropriate emphasis through diction and sentence structure.
- Analyze and use a variety of credible sources to support arguments.
- Effectively communicate their analysis of text.

### **131600 AP (CITS) Literature & Composition**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### ***AP, CITS***

**Refer to page 16 for more information on CITS credit.**

This rigorous course teaches students to become skilled readers of literature written in a variety of periods, genres, and contexts. Students will compose a number of literary analysis for a variety of purposes. This course will prepare the students to take the AP Exam in Literature and Composition administered by the Educational Testing Service for the College Board. Students in this course will:

- Focus on solid preparation in the areas of literary analysis, literary discussion/presentation, and literary essays.
- Study classic works of English and World Literature.
- Develop and work on critical reading skills and oral presentations.
- Create and improve upon detailed and lengthy essays and research papers.

### **131700 Values in Literature**

**Grade(s):** 11-12 Seniors will have priority in scheduling this class.

**Credit:** .5 per semester

**Term(s):** 1 or 2

This unique course offers a discussion of basic philosophical questions through a study of literature and informational texts from ancient times to modern. Students in this course will:

- Analyze the development of the central ideas of literary and philosophical texts.
- Use textual evidence to support analysis of ideas and inferences drawn from the text.
- Write several essays including one on personal values.
- Examine the meaning of life from multiple perspectives.
- Engage in small group and class discussions of literature and values.
- Use MLA formatting; understand how to avoid plagiarism.
- Demonstrate command of the conventions of language while speaking and writing. Acquire and accurately use grade-level vocabulary.

### **131800 Drama as Literature**

**Grade(s):** 11-12 Seniors will have priority in scheduling.

**Credit:** .5 per semester

**Term(s):** 1 or 2

The purpose of this course is to provide an intensive study of selected plays. Students in this course will:

- Understand the continuing development of plays throughout time.
- Analyze multiple interpretations of plays including recorded and/or live productions.

- Study the development of important themes of drama.
- Read and comprehend plays to understand multiple perspectives and pluralistic viewpoints.
- Read plays aloud.
- Study the history of theater integrating and evaluating multiple sources of information.
- Analyze how the playwright's choices affect play structure.
- Demonstrate literary analysis skills through writing and speaking.

### **131900 Grammar and Composition**

**Grade(s):** 11-12 Seniors will have priority in scheduling.

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### ***Also available through AEO***

This course is designed to increase proficiency in both writing and the understanding of grammar. Students in this course will:

- Write routinely over extended time frames for a range of tasks.
- Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose and audience.
- Develop and strengthen writing by planning, drafting, revising, editing, and rewriting.
- Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.
- Gather relevant information from multiple print and digital sources, assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism.
- Use MLA formatting to cite and credit sources.
- Write original compositions using grammar, language mechanics, and other conventions of standard written English.
- Demonstrate command of grammar, usage, and punctuation when writing.

### **132000 (CITS) College Composition**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### ***Also available through AEO***

#### ***CITS***

***Refer to page 16 for more information on CITS credit.***

This rigorous course is designed for the student who is capable of doing college level work in English while he/she is still in high school. Students are required to write an extensive research paper. Students in this course will:

- Conduct research and communicate findings.
- Access and use UMD databases for scholarly and peer reviewed research.
- Write arguments to support claims in analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence.

- Use research to present an argument in a variety of modes.
- Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose and audience.
- Use a writing process to develop and strengthen writing as needed by planning, drafting, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.
- Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.
- Conduct short as well as more sustained research projects to answer a question or solve a problem.
- Synthesize and evaluate the information gathered from print and digital sources; assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism.
- Demonstrate command of grammar, usage, and punctuation when writing.

### **132100 Creative Writing**

**Grade(s):** 11-12 Seniors will have priority in scheduling.

**Credit:** .5 per semester

**Term(s):** 1 or 2

This course is designed for students who like to write short stories, poems, and plays, and want to improve their writing. Students in this course will:

- Write narratives and other creative texts to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences.
- Develop and strengthen writing by planning, drafting, revising, editing, and rewriting.
- Write routinely over extended time frames and shorter time frames for a range of tasks, purposes, and audiences.
- Select writing topics and formats for personal enjoyment, interest, and academic tasks.
- Learn to give feedback on the writing of others.
- Demonstrate command of English grammar, usage, punctuation, and spelling when writing.
- Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style.
- Demonstrate understanding of figurative language, word relationships and nuances in word meanings.

### **132200 Interpersonal Communication**

**Grade(s):** 11-12 Seniors will have priority in scheduling.

**Credit:** .5 per semester

**Term(s):** 1 or 2

This course develops person-to-person communication skills. Students in this course will:

- Prepare for and participate effectively in a range of conversations and collaborations with diverse

partners, building on others' ideas and expressing their own clearly and persuasively.

- Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.
- Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric.
- Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience.
- Adapt speech to a variety of contexts and communicative tasks, demonstrating command of formal English when indicated or appropriate.
- Understand multiple perspectives and pluralistic viewpoints and their origins.
- Recognize ethical standards and safe practices in social and personal media communications.
- Interpret non-verbal communication.
- Practice focused listening skills.

### **132300 Public Speaking**

**Grade(s):** 11-12 Seniors will have priority in scheduling.

**Credit:** .5 per semester

**Term(s):** 1 or 2

This introductory course provides students the opportunity to develop public speaking skills. Students will:

- Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.
- Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience.
- Deliver a variety of speeches such as informative, persuasive, impromptu, and oral interpretation.
- Practice effective delivery techniques.
- Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations.
- Gather relevant information from multiple authoritative print and digital sources using advanced searches, integrating information while avoiding plagiarism.
- Practice cognitive listening techniques.
- Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric.

### **132401-132402 Journalism**

**Prerequisite:** Completion of application process

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

This course is for students interested in journalism and in the production of the school newspaper. Members of the class will make up the newspaper staff. The journalism staff is seeking individuals who can commit to the class both before and after school. Students in this course will:

- Write informative/explanatory texts about community and school events that examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.
- Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
- Develop and strengthen writing by planning, drafting, revising, editing, and rewriting.
- Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.
- Gather relevant information from multiple print and digital sources, assess credibility and accuracy of each source, and integrate the information while avoiding plagiarism.
- Demonstrate command of English grammar, usage, punctuation, and spelling when writing.
- Gain experiences in all aspects of journalistic writing and newspaper production and explore individual interest in the field.

## **GENERAL ELECTIVES**

### **250000 Freshman Seminar**

**Grade(s):** 9

**Credit:** .5 per semester

**Term(s):** 1 or 2

This course will provide students with tools to ease the transition into high school and beyond with an orientation to the building, staff, policies, an examination of learning styles and study skills, and integrated technology skill-building in various computer skills including frequently used software and internet safety. A career exploration unit will include help in high school course selections. Reading and writing assignments will be integrated throughout the course to help prepare students to pass state tests required for graduation. Weekly "I-Time" lessons geared to parent/peer/teacher relationship-building, effective communication skills, problem-solving, and teamwork will be provided. Use of the text "The 6 Most Important Decisions You'll Ever Make" by Sean Covey, and other resources will address the six major social factors facing teens: school, friends, parents, dating and sex, addictions, and self-image/worth.

### **251001-251002 Yearbook**

**Prerequisite:** Application Process

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

Students will apply skills in journalism and editing, graphic design, and photography, advertising and marketing, as well as computer technology. This course requires dedication, self-motivation, attendance at extracurricular activities, and time outside of class to meet deadlines and

sell advertisements. Attendance is mandatory and an application should be completed.

### **251101-251102 Student Government**

**Prerequisite:** Applications are taken in the spring and acceptance is based on teacher recommendation, academic standing, citizenship, and interview process. Class size is limited.

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

Students will learn leadership skills. They will be responsible for planning and implementing events and projects within the school and in the community. Students will be required to participate in school activities and complete community service projects. The goal of this class is to provide students with a hands-on chance to be good citizens. Students will learn the organizational and communications skills necessary for future careers.

### **252100 Career Development Seminar**

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**Offered only at AEO**

This class exposes the students to career opportunities available in the world of work. Students will be exposed to various career evaluations to determine their aptitudes, abilities and interests as they relate to occupations. Students will spend extensive time on developing basic work skills, self-esteem, mental and physical health, consumerism and other occupational information, which can be applied to everyday life. Students in the OLL Career Development Seminar will learn about various vocational paths and the skills and education necessary for success. In addition, they will complete a research project on a career of their choice.

### **251200 Career Development Internship**

**Prerequisite:** One semester in a related area of internship

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**Offered only at AEO**

**REPT**

Students will receive in-depth training and exposure in an entry-level paid employment position in conjunction with course work. A Youth Internship Agreement will be developed jointly with the employer, student, and internship coordinator to develop skills and work processes. Students need to have a reliable means of transportation to insure their attendance at the employer's work site.

### **251301-251302 Career Seminar**

**Prerequisite:** Approval by instructor

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

In this course, students will explore career opportunities in the Twin Ports area and develop their own career and employability skills. This class must be taken concurrently with CTE Work-Experience. Students will learn about their interests in career areas and then choose a job to work at for the semester (or longer if desired). During the time working at the job, students will be required to attend class once a week. Class time will be dedicated to learning about career skills, resume writing, interviewing skills, and improving skills through direct feedback from supervisors.

### **252101-252102 CTE Work Experience**

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**CTE**

In this course, students will explore career opportunities in the Twin Ports area and develop their own career and employability skills. This class must be taken concurrently with Career Seminar 2. Students will explore their career interests, and then choose a business/organization at which to work for the semester, or longer if desired. Students will be required to fill out and turn in mandatory paperwork from the Minnesota Department of Education, as well as from the Duluth School District, before being allowed to attend work during the school day. Students will be not only performing the necessary tasks of their chosen workplace, but also receiving constructive feedback from their supervisor and teacher advisor. Students will attend class one day a week to further hone their employability skills.

## **GRAPHIC ARTS**

### **102201-102202 Graphic Arts/Digital Design 1**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**CTE**

Explore communication technology careers including pre-press, offset printing, silk screen, finishing work, and quality control. Extensive "hands-on" class using computers, scanners, offset printing presses, silk screens and other equipment found in the graphic arts industry. Students envision, design, and use resources to create, assemble, and deploy a finished project. Software use includes current industry standard, Adobe Creative Suite - InDesign, Illustrator, Photoshop and Flash. Units include paste-up, silk screening, scratch pads, elements of design, typography, small space ads, digital photography and poster design. Troubleshoot equipment including computers and printers. Produce real-world work for high school: posters, flyers, advertisements.

*This course fulfills the 1.0 Arts credit requirement.*

## HEALTH SCIENCE/MEDICAL

### 102301-102302 Graphic Arts/Digital

#### Design 2

**Prerequisite:** Graphic Arts/Digital Design 1

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**CTE**

Course includes in-depth study of communication technology career paths. Units include color theory, 2-sided offset printing, tiling poster, ink mixing, business portfolios, rubber stamps, 2-color silk screening, spot colors, and poster design. Use digital and video cameras. Students create presentations using sound and motion. Troubleshoot equipment including computers, printers, scanners, offset presses. Produce real-world work for high school: staff business cards, school scratch pads, and promotion of school events.

*This course fulfills the 1.0 Arts credit requirement.*

### 102401-102402 Graphic Arts/Digital Design 3

**Prerequisite:** Graphic Arts/Digital Design 2

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**REPT, CTE**

This upper-level course is a continuation of the skills learned in Graphic Arts 1 and 2. Students will prepare advanced multi-color projects for offset and silkscreen printing. Troubleshoot equipment including network issues, computers, printers, scanners, offset presses. Produce real-world work for high schools and communities.

*This course fulfills the 1.0 Arts credit requirement.*

### 221410 Introduction to Agriculture, Food and Natural Resources Sciences

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

Introduction to Agriculture and Natural Resource Sciences provides a project-based survey of the array of professions in these fields. Students will be introduced to the breadth of these industries. Particular focus will be given to engaging students in firsthand experiences of these industries in Duluth and how emerging technologies behind urban agriculture, food science, and natural resources are revolutionizing issues of scale, efficiency, yield, and local community-based production to power the rapid expansion of this industry in our city. Students will survey a wide array of topics within the industry, gaining understanding of types of agriculture, trends, and career opportunities. Using the SAE model, students will explore where their career interests lie and identify areas for continued study. Students will learn and practice career and leadership skills, through introduction and involvement in Future Farmers of America (FFA).

### 140000 Health

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**Also available through AEO**

This course is based on the National Health Standards and is designed to assist students in obtaining accurate information, developing lifelong positive attitudes and behaviors, and making wise decisions related to their personal health. It uses a wellness approach stressing prevention and self-responsibility through informed choices. The inter-relationship of the physical, mental, and social dimensions of health and the effects on the total person is emphasized. Students use problem-solving, research, goal-setting, and communication skills to protect their health and that of the community. Students will receive their CPR Certification through this course. *Students may receive the CPR certificate upon completion of a scheduled hands-on certification session. (Students enrolled in AEO will not receive the hands-on certification.)*

### 151100 Emergency Medical Response

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE, ACC**

**Refer to page 15 for more information on articulated credit.**

This course is an introduction to Emergency Medical Service (EMS) careers sequence and is designed for students who want to explore the Emergency Medical Responder (EMR) profession (law enforcement, firefighting, DNR, EMT, or health care). The Emergency Medical Responder course trains students to provide basic level emergency medical care). The course covers content and skills needed for the recognition of, and emergency care of sick or injured people, utilizing basic EMS equipment and assisting Emergency Medical Technicians once they have arrived. The primary focus of the Emergency Medical Responder is to initiate immediate lifesaving care to critically injured patients. Students enrolled in this course will learn the basic knowledge and skills necessary to provide lifesaving interventions while awaiting additional EMS response and to assist higher level personnel at the scene and during transport.

### 151221 (CITS) Medical Occupations (2-hour class)

**Prerequisite:** Biology/Commitment Agreement required

**Grade(s):** 11-12

**Credit:** 1 per semester

**Term(s):** 1

**CTE, CITS**

**Please refer to page 16 for information on CITS credit.**

This course will provide students with a foundation of knowledge and skills in both Medical Terminology and

Allied Health. Information learned will assist the student in the career decision-making process and prepare them for a healthcare career. Students will:

- Explore the range of health industry occupations through on site visits.
- Understand and use common medical abbreviations and terminology.
- Interpret information found in medical records.
- Understand the roles and responsibilities of members on the health care team.
- Practice safety and infection precautions.
- Demonstrate competence in communication and problem-solving.

**151322 (CITS) Intro to Nursing/Home Health (2-hour class)**

**Prerequisite:** Medical Occupations/Commitment Agreement required

**Grade(s):** 11-12

**Credit:** 1 per semester

**Term(s):** 2

**CTE, CITS**

**Refer to page 16 for more information on CITS credit.**

This course meets the criteria necessary for entry-level employment as a Nursing Assistant/Home Health Aide and serves as an introduction to the medical/nursing career pathway for students who decide to advance in the medical/nursing profession and other Allied Health careers. Complete and pass background study clearance prior to clinical, which is a mandatory requirement of the Minnesota Department of Human Services. All state requirements must be met. Students will: Perform basic medical/nursing skills, demonstrate ability to care for residents in an area long-term care facility, understand concepts of basic human needs, know individual career-related strengths, be prepared to take the Minnesota Nursing Assistant/Home Health Aide Test out to be registered as a Nursing Assistant and Home Health Aide, have the opportunity to attend state and national conferences for Health Occupations Students of America, apply basic principles in caring for the client at home, have the opportunity to acquire American Heart Association Healthcare Provider Basic Life Support certification for CPR/AED (valid for two years), and to pass physical examination and Mantoux screening, which is required for clinical.

## HOSPITALITY AND TOURISM (CULINARY ARTS)

**16000 Introduction to Cooking**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

This course is structured to expose students to the foundations of cooking. Students will be introduced to basic concepts of culinary techniques, learn how to safely use both residential and industrial kitchen equipment, identify and use ingredients in basic food preparation while learning basic recipes with hands-on experience. They will be introduced to proper knife skills, food safety and sanitation, and how to work collaboratively. This course is designed for students to explore not only the joy of learning how to cook but also explore career options in the field of hospitality and tourism.

**160101-160102 International Cuisine**

**Prerequisite:** Intro to Foods

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**CTE**

This course addresses the following topics: Farm to Table Processes, Hunger Issues, Dining Etiquette from around the world, Culture and Foods, Rituals, and World Foods. Students will learn about many international cuisines such as Mexican, Indian, and Greek and prepare some foods from each of these ethnic groups, with a focus on plating. We will study the link between food, culture, and travel and how what we eat as well as the way we eat defines a culture. It is an international experience right in the classroom!

**160020 Level 1 Restaurant Industry (1-hour class)**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**CTE**

This course is structured to expose students to the foundations of working in a restaurant industry. It focuses on food safety and sanitation, proper knife skills, industrial equipment knowledge and identifying the correct measuring tools and ingredients along with reading recipes to create meals & desserts for the Clock Tower Cafe (student run restaurant). This course is designed for students to experience the restaurant industry with daily hands-on experiences. This course will teach students the importance of work ethic and teamwork as well as how to fill out a job application and answer job interview questions. Local business guest speakers and field trips to restaurants, meat packing plants, dairy farms and college culinary programs are part of this hands-on learning program (will vary each year). The Clock Tower Cafe Catering Club is an after school program available to students that take this course. The catering club allows students to cater scheduled events within our community for professional hands-on training and building customer service skills, local business relationships and career opportunities.



### **161120 Level 2 Restaurant Industry (2-hour class)**

**Prerequisite:** Level 1 Restaurant Industry

**Grade(s):** 10-12

**Credit:** 1 per semester

**Term(s):** 1 or 2

#### **CTE**

This course is structured to build off of the foundations from the Level 1 Restaurant Industry course. It focuses on food safety and sanitation, proper knife skills, on-site training with health inspectors, food cost, customer service and food presentation while serving food to students and teachers during lunch hours and learning to run a cash register. They will take part in the creation of the Clock Tower Cafe's weekly menu along with decision making in regards to the daily soups and specials. The students will learn how to order food from local food vendors and create daily prep sheets. This course is designed for students to have a much more in depth experience within the restaurant industry and provide them employment opportunities. Local business guest speakers and field trips to restaurants, meat packing plants, dairy farms and college culinary programs are part of this hands-on learning program (will vary each year). The Clock Tower Cafe Catering Club is an after school program available to students that take this course. The catering club allows students to cater scheduled events within our community for professional hands-on training and building customer service skills, local business relationships and career opportunities. Students will have the opportunity to earn the Safe Serve certification.

*\*This course is offered at Denfeld. East High School students may register for this course. Transportation is provided to and from Denfeld.*

## **MATHEMATICS**

### **181001-181002 Intermediate Algebra**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **Also available through AEO**

Students will understand the concept of function and identify its important features. Students will recognize and solve math problems involving linear, quadratic, and exponential functions in mathematical situations and represent functions with tables, graphs and symbols.

### **181201-181202 Geometry 9**

**Prerequisite:** Intermediate Algebra

**Grade(s):** 9

**Credit:** .5 per semester

**Term(s):** 1 & 2

This course is designed for students who have successfully completed Intermediate Algebra in 8th grade. Students will calculate measurements of plane and solid geometric figures, solve geometric problems using

algebraic methods, and construct logical arguments, based on axioms, definitions and theorems. Students will also know and apply properties of geometric figures (parallel and perpendicular lines, angles, triangles, quadrilaterals, Pythagorean Theorem, trigonometry, and circles) to solve real-world problems. Additional rigor will be incorporated into the course to extend students' learning.

### **181401-181402 Geometry**

**Prerequisite:** Intermediate Algebra

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **Offered at AEO for students 9-12**

This course is designed for students who have successfully completed Intermediate Algebra. Students will calculate measurements of plane and solid geometric figures, solve geometric problems using algebraic methods, and construct logical arguments, based on axioms, definitions and theorems. Students will also know and apply properties of geometric figures (parallel and perpendicular lines, angles, triangles, and quadrilaterals) to solve real-world problem

### **181501-181502 Algebra 2 Concepts**

**Prerequisite:** Intermediate Algebra, Geometry

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **Also available through AEO**

This course is designed for those students that have successfully completed Geometry. It will offer a review of Intermediate Algebra, and incorporate concepts from Algebra 2 such as functions, probability, statistics and graph theory, and will place an emphasis on quadratics.

### **181601-181602 Algebra 2**

**Prerequisite:** Geometry or concurrently with Geometry

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **Also available through AEO**

This course is designed for students who have successfully completed Geometry. Students will solve problems involving linear, quadratic, and exponential functions. Students will generate equivalent algebraic expressions involving polynomials, and radicals. Students are encouraged to purchase their own calculator.

### **181651-181652 Probability and Statistics**

**Prerequisite:** Algebra 2 or Algebra 2 Concepts

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **Also available through AEO**

This course is designed for students that have successfully completed Algebra 2 Concepts, Algebra 2, or Precalculus.

An introduction to college statistics, students will work with probability, data collection, descriptive and inferential statistics, and technological tools to draw conclusions, identify trends and describe relationships. Students will also study statistical measures of centrality and spread, methods of data collection, methods of determining probability, binomial and normal distributions, hypothesis testing, and confidence intervals. Students will use multiple representations to present data including written descriptions, numerical statistics, formulas, and graphs. Students are encouraged to purchase their own calculator.

### **181701-181702 (CITS) Precalculus**

**Prerequisite:** Algebra 2

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term:** 1 & 2

**Also available through AEO**

**CITS**

**Refer to page 16 for more information on CITS credit.**

This course is designed for students who excelled in Algebra 2 and intend to study in a field requiring higher mathematics. Precalculus serves as the bridge between Algebra and Calculus. Students will solve problems involving algebraic functions, equations, inequalities, absolute value graphing, logarithmic, exponentials, and analytic trigonometry. Students are encouraged to purchase their own TI-84 calculator.

### **181801-181802 AP (CITS) Calculus**

**Prerequisite:** Precalculus and Commitment Agreement required

**Grade(s):** 12

**Credit:** .5 per semester

**Term:** 1 & 2

**Also available through AEO**

**AP, CITS**

**Refer to page 16 for more information on CITS credit.**

This course is designed for students who excelled in Precalculus and intend to study in a field requiring higher mathematics. Students are strongly encouraged to purchase their own TI-83 calculator and will be expected to take the AP Exam for Calculus in May. Topics of study include: limits, logarithmic, exponential, and other transcendental functions, differentiation and integration.

## **MUSIC**

### **190001-190002 9th Grade Band**

**Prerequisite:** Previous instrumental study and/or director permission

**Grade(s):** 9

**Credit:** .5 per semester

**Term(s):** 1 & 2

This course provides instruction in basic high school band repertoire and develops each student's proficiency in music. Course requirements will include concert

performances, contests, lessons or sectionals, performance evaluations, playing tests, and the continued study of music theory.

### **191001-191002 Intermediate Band**

**Prerequisite:** Previous instrumental study and audition

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**REPT**

This course provides instruction in more intermediate band repertoire and further develops each student's proficiency and appreciation of music. Course requirements will include concert performances, contests, lessons or sectionals, performance evaluations, playing tests, and the continued study of music theory. Students in this course will make up the Pep Band and Marching Band.

### **191101-191102 Advanced Band**

**Prerequisite:** Audition

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**REPT**

This course is designed for the advanced musician who already demonstrates excellent musical skills and wants to strengthen, enhance, and reach a higher level of performance. Course requirements will include concert performances, contests, lessons or sectionals, performance evaluations, playing tests, and the continued study of music theory. Students in the course will make up the Pep Band and Marching Band. Membership in this ensemble is based on needed instrumentation.

### **191203-191204 Pop, Rock and Hip Hop**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

This course is open to all students who are looking to explore the sounds of Pop, Rock, and Hip Hop. Students will have an opportunity to learn the fundamentals of music while playing instruments such as guitar, keyboards, drums, and voice. The goal is to achieve an authentic experience of what it is like to play and compose these styles of music, while studying the history, stylistic features, and influential artists. No previous music experience is required.

### **191210 Introduction to Guitar**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**Also available through AEO**

Introduction to guitar is a step by step approach to the basics of guitar and music fundamentals. Students will learn strumming patterns, chords, finger-picking, note reading, and improvisation through a variety of genres,

ranging from classical to rock and roll. The online format will provide direct instruction to the student via video lessons and feedback from the teacher. Students may provide their own guitar, or may rent or borrow a guitar through various outlets that will be provided by the teacher.

### **191220 Advanced Guitar**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**REPT**

**Prerequisite:** Experience playing guitar or course 191210  
Advanced Guitar is the next course in learning how to play the guitar and music fundamentals. Students will continue to master various playing techniques such as strumming patterns, chords, and finger-picking. Music from a variety of genres and time periods will be studied along with note reading and improvisation. Students will begin learning how to perform alone and together within small ensembles. Students may provide their own guitar, or may rent or borrow a guitar through various outlets that will be provided by the teacher.

### **191301-191302 Jazz Ensemble**

**Prerequisite:** Audition

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**REPT**

This course provides instruction in the fundamentals of jazz music, develops proficiency, and creates appreciation of jazz music. It provides each student with lessons or sectionals to improve musicianship, technique, and improvisational skills. Course requirements will include concert performances, contest or festival performances, lessons or sectionals, improvisational studies, and the fundamentals of music theory. Students in this course will make up the Pep Band and Marching Band. Membership in this ensemble is based on needed instrumentation.

### **191451-191452 9th Grade Choir**

**Grade(s):** 9

**Credit:** .5 per semester

**Term(s):** 1 & 2

This course is available to all students without an audition. Basic sight-singing, theory, history, and vocal techniques are taught. All ninth-grade students who are interested in singing should enroll in this course. Students will attend appropriate concerts throughout the year and will be required to evaluate them with a written critique. Concert participation is mandatory.

### **191601-191602 Intermediate Mixed Choir**

**Prerequisite:** Audition

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**REPT**

This choir prepares students for participation in advanced choirs. It provides an appropriate choral experience for students who enjoy singing through concerts and special performances including different styles, cultures, and languages. This is a performing ensemble experience with a high level of expectation and high degree of commitment. Concert participation is mandatory. Students will attend appropriate concerts throughout the year and will be required to evaluate them with a written critique.

### **191701-191702 Advanced SSA Choir (Soprano 1, Soprano 11 & Alto)**

**Prerequisite:** Audition

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**REPT**

This choir offers a focus on excellence in SSA's (Soprano I, Soprano II & Alto) choral literature. Students learn sight-singing and theory skills as they sing literature of various styles, cultures, and languages. This is a performing ensemble experience with a high level of expectation and high degree of commitment. Concert participation is mandatory. Students will attend appropriate concerts throughout the year and will be required to evaluate them with a written critique.

### **191801-191802 Show/Jazz Choir**

**Prerequisite:** Audition

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**REPT**

This is a very select small choral ensemble that teaches all aspects of stage performance through the use of vocal jazz and show choir music. Students develop an appreciation for the historic and cultural influences of vocal jazz and swing music in American society. This course provides comprehensive appropriate solo and group performance experiences including MSHSL solo and ensemble performance. Students will attend and critique appropriate concerts throughout the year. Concert participation is mandatory.

### **191901-191902 Advanced Concert Choir**

**Prerequisite:** Audition

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**REPT**

This choir is designed to expand student knowledge of choral literature that will include a variety of styles, cultures, and languages. A performing ensemble experience with a high level of expectation and high degree of commitment is expected. Students will attend and critique appropriate concerts throughout the year. Concert participation is mandatory.

### **192001-192002 Chamber Choir**

**Prerequisite:** Audition

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **REPT**

This choir is a performing ensemble with a high level of expectation and a high degree of commitment is expected. This highly selective mixed (SATB) ensemble is involved in various styles with the use of challenging literature and performance styles. This group also provides MSHSL solo and ensemble performance experiences. Students will attend and critique appropriate concerts throughout the year. Concert participation is mandatory.

### **192101-192102 9th Grade Orchestra**

**Prerequisite:** Previous instrumental study and/or director permission

**Grade(s):** 9

**Credit:** .5 per semester

**Term(s):** 1 & 2

This course provides instruction in the basics of techniques and playing styles to develop each student's proficiency in music. Students will be assessed each semester with playing and music theory tests. Students will attend and critique appropriate concerts throughout the year. Concert participation is mandatory.

### **192201-192202 Concert Orchestra**

**Prerequisite:** Audition

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **REPT**

This course provides instruction in a more advanced repertoire of orchestral literature and further develops each student's proficiency and appreciation of music. It provides each student with lessons or sectionals for better musicianship and technique. Students will be assessed each semester with playing and music theory tests. Students will attend and critique appropriate concerts throughout the year. Concert participation is mandatory.

### **192301-192302 Symphony Orchestra**

**Prerequisite:** Audition

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **REPT**

This course provides instruction in the highest level of orchestral repertoire and further develops each student's proficiency and appreciation of music. It provides each student with lessons or sectionals for better musicianship and technique. Students will be assessed each semester with playing and music theory tests. Students will attend and critique appropriate concerts throughout the year. Concert participation is mandatory.

### **192401-192402 Chamber Orchestra**

**Prerequisite:** Audition

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **REPT**

This course provides unique performing experiences for a variety of functions (i.e. public performances, banquets, musicals) and extends the music student's realm of playing to include chamber/small group experiences, concerts, and festivals. Concert participation is mandatory.

## **PHYSICAL EDUCATION**

### **21000 Foundations of Physical Education**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **Also available through AEO**

This course will enable students to fulfill their High School Physical Education .5 credit requirement in a traditional physical education class setting. Students will obtain physical skills and knowledge to achieve a health-enhancing level of physical activity for fitness activities, team sports, individual sports, games, lifetime activities and dance. Participation in physical activity is emphasized.

### **21100 Personal Fitness 1**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **Also available through AEO**

This course will enable students to fulfill their High School Physical Education .5 requirement in a fitness center, gym, and outdoor setting. Students will obtain physical skills and knowledge to achieve a health-enhancing level of physical activity focusing on improving or maintaining fitness. Students will create and implement a fitness plan using individual assessment of cardiovascular endurance, muscular endurance, flexibility and strength. Participation in physical activity is emphasized.

### **211600 Personal Fitness 2**

**Prerequisite:** Personal Fitness 1

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **REPT**

This course will expand on the physical skills and fitness knowledge gained in Personal Fitness 1. The student will further develop cardiovascular endurance, muscular endurance, flexibility, and strength using more advanced performance skills. This course is designed with a concentrated focus on planning and implementing lifetime activity or sport specific goals.

## **211200 (CITS) Strength Training**

**Prerequisite:** Foundations of Physical Education or Personal Fitness 1

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

### ***CITS***

**Refer to page 16 for more information on CITS credit.**

This is a college level course and the expectations and coursework will be at the collegiate level. Individual weight training and personal fitness, and creating and implementing a strength training plan is the focus of the class. Individual and team sports will also be part of the class but the main emphasis will be on fitness. Three days of the week will be spent in the fitness center, one day will be in the gym participating in various fitness activities, and one day will be in the gym playing individual or team sports.

## **211300 Lifetime Activities and Team Sports**

**Prerequisite:** Foundations of Physical Education or Personal Fitness 1

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

This course is designed for students to participate actively in a highly competitive environment. Students will learn strategies, etiquette, and officiating team, dual, and individual sports. Personal fitness will be promoted through these team, dual, and individual sports. Current events and athletic topics will be discussed and analyzed.

## **211500 Unified Physical Education**

**Grades:** 9-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

This physical education course combines students of all abilities to participate in developmentally appropriate activities including lifetime activities, physical fitness, and sport. Students will work together to increase competence and confidence in a variety of physical activities. Through ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students. Aligned to State and National Standards, outcomes include: increased physical fitness and activity-specific skills

- New friendships and social inclusion fostered among classmates
- Reinforced positive habits and reasoning resulting in better health & lifestyle choices
- Advanced social and leadership competencies
- Deeper understanding of activity/game/sport rules and strategies
- Movement confidence and competence developed in a variety of physical activities/activity settings.

# SCIENCE

## **220001-220002 Physical Science 9/Earth Science 9**

**Integrated**

**Grade(s):** 9

**Credit:** .5 per semester

**Term(s):** 1 & 2

***Also available through AEO***

Physical Science is a two-semester course that introduces chemistry one semester and physics the other semester. The course is designed to help students understand basic chemistry and physics in a laboratory situation. The goal is to help students become more aware of the importance of science in the world around them. Students will develop an understanding of these disciplines through the process of scientific investigations, hands-on activities, group work, and projects. This course will also integrate Earth Science concepts into the Physical Science course.

## **221101-221102 Biology**

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

***Also available through AEO***

Biology is a course designed to teach the structure and function of living organisms then apply that knowledge to understand how organisms interact within larger systems. The major purpose of this course is to provide students with a basic understanding of biological concepts including: scientific method, ecology, cells, genetics, evolution, body systems, and the impact of humans on our planet. Students will develop an understanding of these concepts through scientific laboratory investigations (including dissection of a fetal pig), hands-on activities, group work, individual work and projects. Biology is a required course for graduation in Minnesota.

## **221901-221902 Honors Biology**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

Biology is a course designed to teach the structure and function of living organisms then apply that knowledge to understand how organisms interact within larger systems. The major purpose of this course is to provide students with a basic understanding of biological concepts including: scientific method, ecology, cells, genetics, evolution, body systems, and the impact of humans on our planet. Students will develop an understanding of these concepts through scientific laboratory investigations (including dissection of a fetal pig), hands-on activities, group work, individual work and projects. Honors Biology uses an AP level textbook and includes research on current events, labs with higher levels of thinking or application and a significant amount of independent reading. Students should be self-motivated and take

ownership of the increased academic workload. Biology is a required course for graduation in Minnesota.

### **221420 Forestry, Fish, and Wildlife\* (2-hour class)**

**Grade(s):** 10-12

**Credit:** 1 per semester

**Term(s):** 1 or 2

#### **CTE**

This course will give students the opportunity to experience forestry, fish, and wildlife firsthand. The school grounds serve as an outdoor classroom for studying tree morphology, identification, timber cruising, and small and large mammals. The school's proximity to Hawk Ridge and Lake Superior are ideal for learning about local birds and fish. Course work is divided into class discussions, group work, labs, projects, and outdoor activities. Upon completion of the class, students will have gained job skills related to the field of natural resources and an understanding of the importance of flora and fauna in Northern Minnesota. Students will perform a service-learning project at a Duluth city park or school property.

*\*This course is offered at East High School. Denfeld High School students may register for this course. Transportation is provided to and from East*

### **221621 Plant Science Fall**

**Prerequisite:** Biology

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term:** 1

#### **CTE**

This is an elective one semester .5 credit course for 11th and 12th grade students. During this class we will study plant structures, learn basic functions and explore plant propagation. We will investigate factors that affect plant growth, including light, temperature, soil/media and nutrients. Students will be exposed to career opportunities in horticulture and greenhouse operations, while cultivating salad greens for the school deli. Students will also plan, propagate plants and lead a plant sale as a fundraiser.

### **221622 Plant Science Spring**

**Prerequisite:** Biology

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term:** 2

#### **CTE**

This is an elective one semester .5 credit course for 11th and 12th grade students. During this class we will study plant structures, learn basic plant functions and explore seed starting. We will investigate factors that affect plant growth, including light, temperature, soil/media and nutrients. Students will be exposed to career opportunities in horticulture and greenhouse operations, while cultivating greens for the school deli. Students will start plants for local gardens & work with community members on community-based gardening projects.

### **221620 Plant Science (2-hour class)**

**Grade(s):** 10-12

**Credit:** 1 per semester

**Term(s):** 1 or 2

#### **CTE**

This course provides experiences in various plant science concepts, exciting hands-on activities and projects, and problems similar to those that plant science specialists such as horticulturists, greenhouse and nursery managers, and plant researchers face in their respective careers. Students will research the value of plant production and its impact on the individual, the local and global economy. Student experiences will involve the study of plant anatomy and physiology, classification, soil and soilless growing systems, propagation, and the fundamentals of production and harvesting.

*\*This course is offered at East High School. Denfeld High School students may register for this course. Transportation is provided to and from East*

### **221720 Plant Science - Greenhouse 1 (1-hour class)**

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **CTE**

This course provides experiences in various plant science concepts, exciting hands-on activities and projects, and problems similar to those that plant science specialists such as horticulturists, greenhouse and nursery managers, and plant researchers face in their respective careers. Students will research the value of plant production and its impact on the individual, the local and global economy. Student experiences will involve the study of plant anatomy and physiology, classification, soil and soilless growing systems, propagation, and the fundamentals of production and harvesting.

### **221822 Plant Science Greenhouse 2\* (2-hour class)**

**Prerequisite:** Plant Science

**Grade(s):** 10-12

**Credit:** 1 per semester

**Term(s):** 2

#### **CTE**

The state-of-the-art greenhouse allows students to continue the development of skills and knowledge needed to perform successfully in a career involving plants. Various challenging projects in the greenhouse and outdoors in the landscape provide real-world experiences. These include producing a spring horticulture crop for sale, and designing an environmentally friendly landscape. Students lead the way in a school Service Learning project of a schoolyard garden. Applying plant and soil science knowledge, along with technical math, occurs in these projects.

*\*This course is offered at East High School. Denfeld High School students may register for this course. Transportation is provided to and from the East.*

### **222301-222302 Human Anatomy & Physiology**

**Prerequisite:** Biology

**Grades:** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

This course is designed for students who are interested in learning more about the structure and function of the human body and/or considering health-related careers. Using varied lab experiences, students will learn how the body's structure reflects its various functions and how it maintains homeostasis. Assessments will involve student-developed models as well as written and practical tests. Each student will have the opportunity to work with human bones and dissect a preserved cat specimen. Students are expected to participate in all lab activities.

### **222401-222402 (CITS) Human Anatomy & Physiology**

**Prerequisite:** Biology or Honors Biology/ Commitment

Agreement required

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**CITS**

**Refer to page 16 for more information on CITS credit.**

This is an advanced biology course for students who wish to learn the essentials of human body structure (anatomy) and its functions (physiology). This course is highly recommended for students interested in careers in the health field (medicine, dentistry, nursing, physical therapy) and/or physical education and athletics. It should also be of interest to anyone who is concerned about his/her own physical well-being. The course entails an in-depth study of how the body's structure reflects its various functions and how it maintains a state of constant change. Each student will have the opportunity to work with human bones and dissect a preserved cat specimen. Students are expected to participate in all laboratory activities.

### **222601-222602 Introductory Chemistry**

**Prerequisite:** Physical Science 9

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

This course is designed to develop an understanding of chemistry concepts that every person should know. In this course, students will study chemistry concepts in the context of practical decision making and its relevance to everyday lives. For example, through lab, lecture and modeling activities, students will explore chemistry by visiting topics of water, resources, petroleum and everyday applications of the gas laws. This college prep class is designed for students who will attend either college or vocational training after high school and are not likely to take college chemistry. Fulfills Chemistry/Physics graduation requirements.

### **222701-222702 Chemistry**

**Prerequisite:** One year of high school science and one year of Algebra or equivalent.

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

Chemistry is the study of materials, their composition and structure, and the changes that they undergo. Chemistry is a systematic body of knowledge gained from observation, study, and experimentation as opposed to guesswork and opinions. By studying chemistry, students will be able to understand the nature of the materials around them. Students enrolling in Chemistry will gain an understanding of the basic topics of chemistry including atomic structure, element families and the periodic chart, chemical bonding, formula writing, equation writing and balancing, acids and bases, and many others. Substantial emphasis will be placed on laboratory investigations requiring critical thinking, observing, and drawing conclusions. Skill in scientific writing will be developed as well. If your career plans include a college education, Chemistry or Honors Chemistry is recommended. Fulfills Chemistry/Physics graduation requirement.

### **222801-222802 (CITS) Chemistry**

**Prerequisite:** One year of high school science and one year of Algebra or equivalent. Commitment Agreement required

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**CITS**

**Refer to page 16 for more information on CITS credit.**

Our society depends on science and technology. First-class medical care, sufficient and varied food supplies, comfortable housing, rapid and reliable communication are but a few of the benefits that are a direct result of scientific and technological developments. Chemistry has played an important role in these developments. Honors Chemistry will provide you with a challenging and rewarding laboratory-based experience. Topics of study will include all those typical of a first-year course: atomic and molecular structure, bonding and formulas, chemical equations and their relationship to mass and volume, periodic relationships, acids, and bases. Emphasis will be placed on investigative lab work with outcomes both at the knowledge and skill levels. Considerable time will be spent developing and improving the student's abilities to observe, think critically, and communicate results and observations through scientific writing. Fulfills Chemistry/Physics graduation requirement.

### **222941-222942 Aerospace Physics**

**Prerequisite:** Algebra 1 or Intermediate Algebra

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **CTE**

Aerospace Physics is a hands-on, applied course where students learn the concepts of Physics through the exploration of Aerospace Engineering and Design. This course has been designed for students who want to learn Physics as well as explore the science of flight. During the year, students will gain a strong understanding of physics principles while being introduced to the theories of flight, the principles of engineering, and airplane design and manufacturing. The course uses problem based learning to enhance learning in theory of flight, airplane design, and airplane construction. Aerospace Physics has been designed for students who like hands-on problem solving, collaborative teamwork and creatively finding solutions. For the course final project, students will collaboratively use physics and engineering principles to design a model aircraft, build it and fly it. This course is an exciting opportunity for students interested in pursuing careers in engineering, airplane mechanic or technician, pilot, or any field within the aviation industry. Part of the course has been modeled in conjunction with Lake Superior College *Aviation Physics and Math* course. Fulfills Chemistry/Physics graduation requirement.

### **222951-222952 Introductory Physics**

**Prerequisite:** Algebra I or Intermediate Algebra

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

The conceptual approach engages students with analogies and imagery for real-world situations to build a strong understanding of physical principles ranging from classical mechanics to current physics theories. With this strong foundation, students will be better equipped to understand the equations and formulas of physics, and to make connections between the concepts of physics and their everyday world. This course is for students who want to learn about physics, but may have difficulties with higher level mathematics. Fulfills Chemistry/Physics graduation requirement.

### **223001-223002 Physics**

**Prerequisite:** Geometry

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### ***Also available through AEO***

Physics is a physical science that describes and explains the nature and interactions of matter and energy. Concepts, relationships, ideas and practical application are stressed rather than rote memorization. This course is recommended for future college and technical school students and students with a strong interest in science.

Topics of study will include velocity, momentum, energy, acceleration, light, electricity, force, waves, magnetism, and Newton's laws of motion and gravitation. Fulfills Chemistry/Physics graduation requirement.

### **223101-223102 (CITS) Physics**

**Prerequisite:** Completion, or, currently enrolled in Algebra 2/Commitment Agreement Required

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **CITS**

#### ***Refer to page 16 for more information on CITS credit.***

CITS Physics is for the college bound student seeking science, mathematics, engineering, or technology majors. Work assignments will be both more comprehensive and in depth than the regular physics course. Topics of study will include velocity, momentum, energy, acceleration, light, electricity, force, waves, magnetism, and Newton's laws of motion and gravitation. Fulfills Chemistry/Physics graduation requirement.

## **SOCIAL STUDIES**

### **230010 Civics In Global Society**

**Grade(s):** 9

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### ***Also available through AEO***

The goal of this course is to provide students with a foundational skill set for understanding global citizenship. Students will investigate how society is organized through various government and social structures, including citizenship, rights, and responsibilities. This course will also integrate geospatial skills to help understand human systems of settlement, population, and migration, and the impact of these systems on societies around the world.

### **231001-231002 United States History**

**Grade(s):** 10

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### ***Also available through AEO***

This course is an examination of the history of the 20th century United States to the present. The class provides historical, cultural, social, economic, and political context of United States History from the early to mid-twentieth century. Major topics in the first semester will include the Progressive Era, the Industrial Age, the Age of Imperialism, World War I, Isolationism, Women's Suffrage, Prohibition, the Jazz Age, beginnings of the Great Depression, and the outbreak of World War II. Second semester topics include the Cold War, the Red Scare and McCarthyism, the Civil Rights Movement, the Great Society, Vietnam, the Women's Movement, Watergate, the end of the Cold War, and Contemporary America.



### **231101-231102 AP United States History**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **AP**

The AP program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses to develop the skills necessary to arrive at conclusions on the basis of an informed judgment and present reasons and evidence clearly and persuasively. This course will cover the earliest inhabitants and civilizations in the Americas before colonization through the post-Cold War Era.

### **231201-231202 International Studies**

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **Also available through AEO**

This course provides a historical, cultural, social, economic, and political overview of nations and cultures with a focus on how they are interconnected. By studying the history of regions of the world and current world problems, students will analyze information and issues to gain an understanding of the complexities of our modern world. Topics covered in the first semester will include the United Nations, government and economic systems, world religions, conflicts in the Middle East, human rights, terrorism, trade, and current events. Second semester topics include economically developing nations, civil wars and genocide, immigration, environmental issues and current events. *This course will fulfill a 1.0 World History credit requirement,*

### **231301-231302 World History**

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **Also available through AEO**

World History gives a historical, cultural, social and political overview of the rise of complex human societies. The course provides an overview of history beginning with the development of early river civilizations. In the first semester, the era of complex societies from approximately 1,000 BCE through 1450 CE will be examined with an emphasis on developments in religion, philosophy, arts, sciences, technology, and governments. Second semester topics include the transformations of nation states starting in approximately 1450. The interactions among the Americas, Asian, African, and European realms through the twentieth century will be examined and compared to the Contemporary World.

### **231401-231402 AP World History**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

#### **AP**

The purpose of the AP World History course is to develop a greater understanding of the interaction of human societies. This understanding is advanced through a combination of factual knowledge and analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Historical periods as well as specific themes provide organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. This course will cover from 8000 B.C. to the present.

### **231500 American Government and Politics**

**Grade(s):** 12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **Also available through AEO**

The purpose of this course is to provide students with an understanding of the functions and organizations of the federal, state, tribal, and local systems of government within the United States. Included in this course will be a look at the legislative, executive, and judicial branches of government. Topics covered will include the United States Constitution, amendment process, electoral process, state government, local government, policy making, and current political issues.

### **231600 (CITS) American Government and Politics**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **CITS**

#### **Refer to page 16 for more information on CITS credit.**

This course will provide students with a study of the structure and function of the national government of the United States, as well as state, tribal, and local governments. The course examines the presidency, Congress, and federal courts in function, structure, and powers. This course also analyzes the impact of interest groups, political parties, and the media upon government and elections.

### **231700 Economics**

**Grade(s):** 11-12 Seniors will have priority in scheduling.

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **Also available through AEO**

This course examines decision-making through the lens of microeconomics and macroeconomics. Fundamental principles of scarcity and choice guide students in understanding how economic decisions affect personal finance and business decisions as well as national and global well-being. Students will use and analyze economic data in order to understand such concepts as supply and demand, pricing, and opportunity cost, and comparative advantage.

### **231800 (CITS) Economics**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 11-12 Seniors will have priority in scheduling.

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **CITS**

**Refer to page 16 for more information on CITS credit.**

This course examines micro- and macroeconomic principles. Microeconomic content includes fundamental economic concepts and principles such as the nature and function of product markets, market failures, and the role of government. Macroeconomic aspects of the course examines the way in which economic performance is measured as well as the impact of various types of policies on economic systems.

### **231900 Psychology**

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**Also available through AEO**

Psychology is the study of individual human behavior and cognitive processes. Students will examine the different types of psychology and the human mind. Specific topics such as sensation and perception, basic processes of learning, personalities and memory will be explored

### **232000 (CITS) General Psychology**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **CITS**

**Refer to page 16 for more information on CITS credit.**

This course will provide students with an introduction to the scientific study of human behavior: History, Research Methods, research design, sensation and perception, learning, personality adjustment, memory and social psychology. A focus will be on the brain and its structures. Upon completion of the course students will be able to: define psychology, name the basic unit of the nervous system, and state what is specifically designed to do, give examples the principles related to the organization of perception (figure and ground, nearness, similarity, etc), describe various categories of mental disorders found in currently existing in the DSM (anxiety disorders, dissociative disorders, and personality disorders etc.), and describe three different approaches to therapy

### **232100 Sociology**

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

**Also available through AEO**

Sociology is the study of human behavior within and among groups. Topics of study will include socialization, culture, social institutions, gender roles and issues, and an in-depth look at how individuals, groups, and institutions react to, and influence specific social changes and social problems.

### **232200 (CITS) Sociology**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

#### **CITS**

**Refer to page 16 for more information on CITS credit.**

This course provides an introduction to sociological concepts and the application of those concepts to achieve a better understanding of social life. Of key importance is to understand how these concepts provide us with a framework with which to view societies and the problems within societies. Social forces impact our lives in powerful ways. It is primarily because of these social forces that we do the things we do. Requirements include a research paper and/or project.

### **232300 Civil and Criminal Law**

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 or 2

This course will help students gain an introductory level of understanding of the American legal system through the study of the criminal and civil justice systems. Units of study will include a historical perspective on the judicial system, case studies, mock trial simulations, and application of law to current issues.

### **232400 (CITS) Civil & Criminal Law/ Introduction to the Criminal Justice System and Related Careers**

**Prerequisite:** Commitment Agreement required

**Grade(s):** 11-12 **Credit:** .5 per semester

**Term(s):** 1 or 2

#### **CITS**

**Refer to page 16 for more information on CITS credit.**

This course will help students gain an understanding of our legal system through the study of the civil and criminal justice systems. Students will examine the conflicting values that impact justice systems through case studies and attention to current issues. Units of study will include: History of Law, Criminal Law, Juvenile Law, Civil Law, Mock Trial, Careers in Justice.

# WORLD LANGUAGES

## **240001-240002 German Level 1**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

This course is designed for students with little to no knowledge of the German language. During German 1 students will develop language skills allowing them to read, speak, write, and understand simple sentences about themselves and everyday life as well as explore various cultural aspects of the German-speaking world. Emphasis is given to building comprehension and literacy skills in German. This course is designed to develop language proficiency starting from the Novice-Low Proficiency Range as determined by the American Council on the Teaching of Foreign Languages (ACTFL).

## **241001-241002 German Level 2**

**Prerequisite:** German Level 1

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

German 2 focuses on expanding the range of everyday life topics that students can talk, read, listen, write and converse about. In German 2, students rely less on memorized phrases and begin communicating in longer and more varied sentence structures. They continue to make simple comparisons and connections with the products and practices of the German-speaking world and increase their independent reading skills. This course is designed to increase students' language proficiency starting from the Novice-Mid+ Proficiency Range as determined by the ACTFL.

## **241101-241102 German Level 3**

**Prerequisite:** German Level 2

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

In German 3, students begin to identify main ideas and related details from authentic texts, expand their ability to ask questions, and express their thoughts, opinions, preferences and reactions in more detail. Grammar topics focus on structures that allow students to communicate about the past, the future, their wishes, and uncertainties. Continued exploration of cultural aspects of the German speaking world is embedded in language study, and students will transition from the Novice to the Intermediate Proficiency Range as determined by the ACTFL. Students in this level are eligible but not required to take the assessment for the Minnesota Bilingual Seals Program.

## **241201-241202 German Level 4**

**Prerequisite:** German Level 3

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

The focus of German 4 is to develop student proficiency in the Intermediate Proficiency levels as determined by the . ACTFL. Students will expand their range of vocabulary and refine their use of grammatical structures to allow them to boost their ability to communicate their thoughts, opinions, and experiences as they relate to cultural products, practices, and perspectives of the German-speaking world. Students will use more complex sentences and paragraphs in written work as well as focus on developing the ability to respond, reflect upon, and make connections between texts and in conversation. Students in this level are eligible but not required to take the assessment for the Minnesota Bilingual Seals Program.

## **241251-241252 (CITS) German Level 5**

**Prerequisite:** German Level 4

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**CITS**

**Refer to page 16 for more information on CITS credit.**

CITS German Level 5 parallels the UMD Intermediate German curriculum covering speaking, listening, writing, reading and culture of the German speaking world. Students in this level are eligible but not required to take the assessment for the Minnesota Bilingual Seals Program

## **241301-241302 Spanish Level 1**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

This course is designed for students with little to no knowledge of the Spanish language. During Spanish 1 students will develop language skills allowing them to read, speak, write, and understand simple sentences about themselves and everyday life as well as explore various cultural aspects of the Spanish-speaking world. Emphasis is given to building comprehension and literacy skills in Spanish. This course is designed to develop language proficiency starting from the Novice-Low Proficiency Range as determined by the ACTFL.

## **241401-241402 Spanish Level 2**

**Prerequisite:** Spanish Level 1

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

Spanish 2 focuses on expanding the range of everyday life topics that students can talk, read, listen, write and converse about. In Spanish 2, students rely less on memorized phrases and begin communicating in longer and more varied sentence structures. They continue to make simple comparisons and connections with the products and practices of the Spanish-speaking world and

increase their independent reading skills. This course is designed to increase students' language proficiency starting from the Novice-Mid+ Proficiency Range as determined by the ACTFL.

### **241501-241502 Spanish Level 3**

**Prerequisite:** Spanish Level 2

**Grade(s):** 10-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Also available through AEO**

In Spanish 3, students begin to identify main ideas and related details from authentic texts, expand their ability to ask questions, and express their thoughts, opinions, preferences and reactions in more detail. Grammar topics focus on structures that allow students to communicate about the past, the future, their wishes, and uncertainties. Continued exploration of cultural aspects of the Spanish speaking world is embedded in language study, and students will transition from the Novice to the Intermediate Proficiency Range as determined by the ACTFL.

Students in this level are eligible but not required to take the assessment for the Minnesota Bilingual Seals Program

### **241601-241602 Spanish Level 4**

**Prerequisite:** Spanish Level 3

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

The focus of Spanish 4 is to develop student proficiency in the Intermediate Proficiency levels as determined by the ACTFL. Students will expand their range of vocabulary and refine their use of grammatical structures to allow them to boost their ability to communicate their thoughts, opinions, and experiences as they relate to cultural products, practices, and perspectives of the Spanish-speaking world. Students will use more complex sentences and paragraphs in written work as well as focus on developing the ability to respond, reflect upon, and make connections between texts and in conversation. Students in this level are eligible but not required to take the assessment for the Minnesota Bilingual Seals Program

### **241701-241702 (CITS) Spanish Level 5**

**Prerequisite:** Spanish Level 4/Commitment Agreement required

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**CITS**

**Refer to page 16 for more information on CITS credit.**

CITS Spanish Level 5 parallels the UMD intermediate Spanish curriculum covering speaking, listening, writing, reading and culture of the Spanish speaking world. Students in this level are eligible but not required to take the assessment for the Minnesota Bilingual Seals Program

### **242301-242302 Ojibwemowin Level 1**

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Offered only at AEO**

This course will provide students with opportunities to develop themselves as lifelong-learners of Ojibwemowin. Students will acquire fundamental listening, speaking, reading, and writing skills in Ojibwemowin. Topics include, but are not limited to, grammar functions and vocabulary development, fluency with survival phrases, understanding through hearing and speaking the sounds of Ojibwemowin, and an applied understanding of elements of the cultures of the diverse Ojibwe-speaking world. Ojibwemowin language skills will center on everyday life situations and Ojibwe perspectives of oneself and the world. Required texts may provide an historical framework for contemporary life experiences.

### **242401-242402 Ojibwemowin Level 2**

**Prerequisite:** Ojibwemowin Level 1

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & S

**Offered only at AEO**

This course will provide learners with opportunities to continue to develop themselves as lifelong-learners of Ojibwemowin. This course expands on the language skills and topics from the Ojibwemowin 1 course. Topics include, but are not limited to, increased grammatical understanding, vocabulary development, a continued focus on listening comprehension and speaking in narratives in Ojibwemowin with an increase in use of creative language that students will apply through conversational situations, and an applied understanding of elements of the cultures of the diverse Ojibwe-speaking world. Required texts may provide an historical framework for contemporary life experiences.

### **242601 & 242602 (CITS) Ojibwemowin 3**

**Prerequisite:** Ojibwemowin Level 3

**Grade(s):** 11-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

**Offered only at AEO**

**CITS**

**Refer to page 16 for more information on CITS credit.**

This course will provide learners with tools and procedures necessary to function as a lifelong learner of Ojibwemowin. These tools and procedures include, but are not limited to, increased grammatical understanding, structure, increased vocabulary development, fluency with "survival language," a broader focus on listening comprehension and speaking narratives in Ojibwemowin, and students will apply language use and cultural understanding through school visits, immersion experiences, and Ojibwe community events. Students will continue to identify and access Ojibwemowin resources, including written texts and audio

recordings, to further their ability to self-develop their language skills. Required texts may provide an historical framework for contemporary dynamics. Students in this level are eligible but not required to take the assessment for the Minnesota Bilingual Seals Program.

## SPECIAL EDUCATION

\*The courses in this section are only available to students with an Individual Education Plan (IEP). All courses will require approval by the IEP case manager.

### **801131 - 801132 Reading/Writing Strategies**

**Prerequisite:** Approval by IEP manager

**Grade(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

This class is individualized for students who have not passed the MCAs. Students will focus on improving reading and writing skills specific to reading fluency, decoding skills, and reading comprehension, based on IEP goals. This course can be taken multiple times for credit per IEP team decision.

### **801181-801182 Math Strategies**

**Prerequisite:** Approval by IEP manager

**Grades(s):** 9-12 **Credits:** .5 per semester

**Term(s):** 1 & 2

***Also available through AEO***

This class is individualized for students who have not passed the MCAs. Students will focus on improving skills in addition, subtraction, multiplication, and division of whole numbers, decimals, fractions, and percents. Applied problems, measurements, ratios, proportion, circles, cylinders, probability, statistics, and graphing will also be studied based on IEP goals. This course can be taken multiple times for credit per IEP team decision.

### **801251- 801252 Self Advocacy**

**Prerequisite:** Approval by IEP manager

**Grades(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

***Also available through AEO***

This class offers students with emotional and/or behavior disorders opportunities to work as a part of a small group in activities related to attitudes and behaviors which will result in the ability to function successfully in school. A willingness to participate in discussion by using appropriate listening and speaking skills and by doing in-class reading and writing activities is required. This course also includes individual conferences regarding progress in all classes and individualized tutoring to assist in the completion of mainstream requirements. It is also designed to extend the skills of students who have been diagnosed as disabled in reading, writing, listening skills, oral expression, or study skills. Its purpose is to assist

them in completing and earning required mainstream course credits. Students will be instructed in learning strategies for studying, test taking, and task completion. They will also receive instruction in organizational strategies to increase the probability of success. This course can be taken multiple times for credit per IEP team decision.

### **801261- 801262 Transition**

**Prerequisite:** Approval by IEP manager

**Grades(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

***Also available through AEO***

This course will address the transition needs of students and will focus on the five areas of transition as identified by the student's IEP (i.e. Home Living, Jobs and Job Training; Postsecondary Education and Learning Opportunities; Recreation and Leisure; and Community Participation). Topics will include: career exploration, investigating post-secondary options, study skills, organization skills, social skills, money management, self-advocacy skills, health and safety issues, communication skills, consumer awareness, community participation, and the development of recreation and leisure skills. The coursework will be individualized for each student based on IEP goals. This course can be taken multiple times for credit per IEP team decision.

### **801271- 801272 Life Skills**

**Prerequisite:** Approval by IEP manager

**Grades(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

In this class, special attention is given to developing student skills in daily living and life skills, vocational skill building, transition planning, and implementation. All areas of study are based on student IEP goals and objectives. Services are delivered through hands-on activities and community based learning. Students develop independent living and personal social skills necessary to manage a home, family and finances. Further, students will develop appropriate levels of independence, self-confidence, and socially acceptable behaviors. Through classroom instruction, hands-on activities and community outings, students study areas of: health, safety, nutrition, meal planning, preparation and clean up, consumer skills, home management skills, personal finances, and community living. Students will also receive career skills and training through curriculum and on-the-job experiences in the school and community.

### **801281- 801282 Work Experience**

**Prerequisite:** Approval by IEP manager

**Grades(s):** 9-12

**Credit:** .5 per semester

**Term(s):** 1 & 2

This course uses community job sites and seminars to teach students employment skills. Students may have a job, or will find a job with help from the work coordinator. The goal of the work experience program is to help students with job seeking and retention skills, through an individual employment plan. Students will learn specific employment skills, such as effectively interacting with co-workers and employers, and advocating for themselves at a work site. They will also develop good work habits and identify personal employment preferences.

### **801241-801242 PAES Lab (1 hr) and/or**

### **801291-801292 PAES Lab (2 hr)**

**Prerequisite:** Approval by IEP manager

**Grades(s):** 9-11

**Credit:** .5 per semester

**Term(s):** 1 & 2

Practical Assessment Exploration System (PAES) is a simulated work assessment and hands-on curriculum lab where students learn by doing in a structured environment. In the lab, students will explore the following five career field areas: business/marketing, computer/technology, construction/industrial, processing/production, and consumer service. Students will complete tasks using real tools and equipment. These tasks start at a basic level and build in complexity as the student's skills increase. The lab simulates a real-world work environment so students become employees and teachers become supervisors when they walk through the door. Employees clock in on a computer and are given daily job tasks. They are taught and expected to communicate professionally, learn and follow safety procedures, solve problems, stay on task, and many more job skills. The PAES lab allows students to experience and practice skills that help prepare them for the world of work as well as assist them in finding direction for their desired career paths.

PAES is a formal exploratory assessment, which means that students will explore different career fields and we will assess their work quality, work speed, professionalism and behavior, endurance, problem-solving skills, level of independence, ability to follow directions, communication with others, and other important performance aspects. We collect this information to show areas of student strength, highlight opportunities for improvement, determine appropriate accommodations and assistive technology for the workplace, and display employability skills compared to their peers. Students typically attend a one or two hour period block class five days a week for one or more semesters and must complete a referral process to participate. This program is open to students of all abilities.