



Course
Registration
Guide
2026-2027

Grades
9-12

Duluth Public Schools

Duluth Public Schools works to inspire every student to achieve their potential and prepares students to lead productive, fulfilling lives as citizens of Duluth and the wider world.

DISTRICT ADMINISTRATION

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Superintendent

Anthony Bonds
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Jennifer Larva
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Director of Special Services

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Academic Excellence Online

Tom Tusken, *Principal*
Joanna Sackette, *Asst. Principal*
Tanya Jackson, *Asst. Principal*
Denfeld High School

Kelly Flohaug, *Principal*
Jon Flaa, *Asst. Principal*
Kyle Rock, *Asst. Principal*
East High School

Danette Seboe, *Principal on Special Assignment*
Career & Technical Education
College, Career, & Life Readiness
School Counseling Coordinator

Dear Duluth Public School Students and Families,

We are delighted to share the new course registration guide for the upcoming school year. Inside you will find a broad spectrum of academic and career-focused options designed to spark your creativity and align with your individual goals.

Duluth Public Schools is committed to ensuring every student has the learning opportunities to grow and explore their potential. This course catalog serves as a vital tool in preparing you for success in an ever-changing world.

As you navigate the course selection process, we encourage conversations with your family, counselor, and teachers. This guide will help you understand graduation requirements and select classes that pave the way for your future plans. By working together, we can personalize your high school experience.

We look forward to a successful and engaging 2026-27 academic year, focused on achievement, exploration, and a continued pursuit of excellence.

Sincerely,

Jen Larva and Julie Stauber



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Duluth Public Schools

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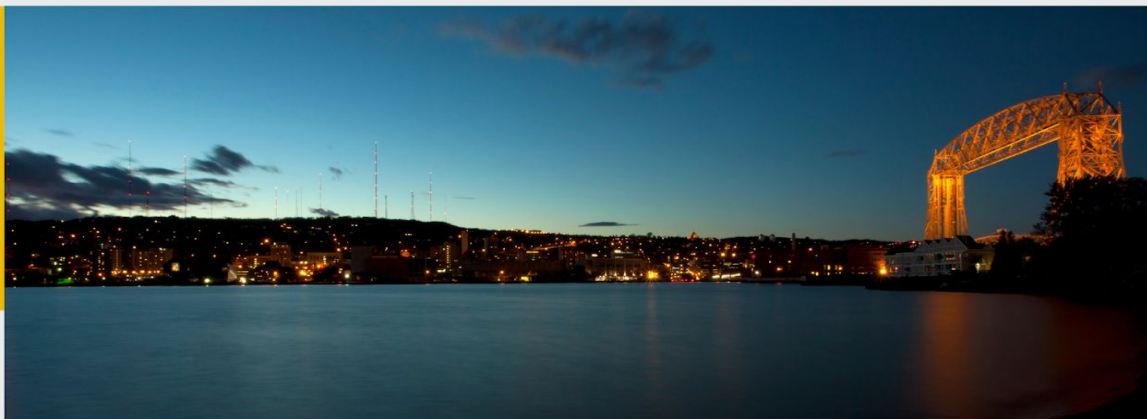
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Helpful Tools for Mapping Your 4 Year Plan
Graduation Requirements and Full Time Status
Duluth Public Schools Career Pathways
Changing Your Schedule

- Agriculture, Foods, and Natural Resources (AFNR)
- Art: Visual
- Business & Marketing
- Communication Technology and Information Systems
- Early Childhood and Education
- Emergency Response
- Engineering, Manufacturing, & Technologies: Aviation, Auto, Architecture, Construction, Engineering, Manufacturing, Fab Lab, Robotics
- English Language Arts
- General Electives / Requirements
- Health Sciences Technology
- Hospitality Careers: Culinary
- Mathematics
- Music
- Physical Education
- Science
- Social Studies
- World Languages
- Work Experience and CTE Work Based Learning
- Additional Courses for Students with Individualized Education Plans (IEPs)
- Additional Courses for English Language Development

Appendix

- A. Helpful Information for High School Students
- B. Credit for Online High School Courses & Additional Options to Receive HS AND College Credit
- C. What's Your E? Goal for a Confirmed Plan of Employment, Enlistment, or Enrollment
- D. College Credits in High School Courses: Articulation Agreements and College In The Schools CITS
- E. Commitment Agreements for Honors, AP, CITS, and Performance Music Classes



Helpful Tools for Mapping Your High School Course Path

- [Appendix C: Enroll, Enlist, Employ: What should you do in high school to be ready for your next step?](#)
- Incoming 9th Graders:
 - REQUIRED: [TRANSPORTATION REQUEST FOR INCOMING 9th GRADE](#)
 - [Getting Ready to Register for 9th Grade](#)

Students will receive paper copies of the following documents:

- [9th Grade Course Registration Worksheet](#)
 - Look for courses with a green **9**
- [10th Grade Course Registration Worksheet](#)
 - Look for courses with a blue **10**
- [11th Grade Course Registration Worksheet](#)
 - Look for courses with a purple **11**
- [12th Grade Course Registration Worksheet](#)
 - Look for courses with a red **12**



Graduation Progress Tracking Worksheets: Make a copy of the Google Sheet to edit your own or print.

[Class of 2026](#)

[Class of 2027](#)

[Class of 2028](#)

[Class of 2029](#)

Minimum Graduation Requirements

Courses Required	Grade 9	Grade 10	Grade 11	Grade 12	Totals
English	1.0	1.0	1.0	1.0	4.0 credits
Math	1.0	1.0	1.0		3.0 credits
Science	1.0	1.0	1.0		3.0 credits
Social St.	.5	1.0	1.0	1.0	3.5 credits
PE/Health	.5	.5	-	-	1.0 credits
Additional Required Courses	.5 Futures Seminar 9 (starting with class of 2028)		.5 College, Career, & Life Seminar 11*	.5 Personal Finance (in 11 or 12)	building up to 1.5 credits (2028+)
			PSEO students should consult counselor for equivalent options		
Arts	1.0 (can include Music, Visual Arts, Graphic Arts)				1.0 credits
Electives	1.5 cr or more (may include arts)	1.5 cr or more (may include arts)	add'l 5.0 cr or more (may include arts)		See Total Credits Required Below

**Students who do not have room in their 11th grade schedule due to music and language course commitments may complete a "Special Request Form" and meet with their counselor regarding options.*

	Class of 2026	Class of 2027	Class of 2028+
Credits Required	23.0	23.5	24.0

Full Time Status

-Students in grades 9-11 must be enrolled in 6 or more credit bearing classes each semester. This allows room for one study hall per semester if needed.

-Note that Study Halls and Teacher Helpers are not credit bearing.

-Seniors must be enrolled in 5 credit bearing classes each semester. Those in good standing may request a late start or early release in addition to up to one study hall.

-Students are considered "enrolled" in the school where they carry more than 50% of their scheduled courses. For example, if you are taking 3 courses at Denfeld and 4 through AEO, you are an "AEO student," not a Denfeld student.

Duluth Public Schools College, Career, and Life Readiness!

We will guide you through exploring all the options, help you find some that excite and motivate you, and get you ready for whatever you decide your next step will be. **Click the buttons** below to learn more about exciting Career Pathways in Duluth Public Schools. Every student's path is unique and the options are endless!



Please note many of these documents are still in progress and in draft form.



What's Your E?

 **Employ**
 **Explore**
 **Enlist**
 **Enroll**

Changing Your Schedule

Requesting Schedule Changes

The ONLY reasons allowed for consideration:

- Students are allowed FOUR days for adding a new class.
- There is a gap in the schedule and/or the student is registered for 2 or more classes in the same hour.
- The student didn't register for a class required for graduation.
- There was an error and the student was placed in a class not requested.
- The student is scheduled for the same class twice or for a class out of sequence.
- A class is offered in an hour that a study hall has been scheduled.
- The student failed a class and needs to repeat the course.
- There is room in the course/section.
- The request to add is made before the end of the first week of school.

If your requested changes meet these criteria, the change request form, available in the counseling office, should be filled out completely, including any required signatures. Students who need to see a counselor should do so before school, during lunch or study hall, or after school. All final decisions on the following year course requests need to be resolved with the counselor prior to the end of the year.

Schedule changes will NOT be considered if:

- The student is trying to rearrange their schedule to be with friends or a different lunch.
- The student is requesting a different teacher (unless the student failed a class with that teacher previously).
- The student is trying to rearrange for an early release or late start (seniors only).
- The student changed their mind after registration.

Dropping Classes

SEMESTER Courses (i.e. Health, PE, Psychology, etc.)

- Students have ten school days after the start of the first or third grade period to drop without penalty.

YEAR LONG / SEQUENTIAL Courses (i.e. Biology, English 10, Geometry, Band, etc.):

- FIRST SEMESTER - Students will have 10 school days after the start of the first grade period to drop without penalty.
- SECOND SEMESTER - Students will have 10 school days after the start of the third grade period to drop without penalty.

Students who choose to drop a class after the above mentioned timelines, regardless of the grade earned at the time, will receive NO CREDIT and a grade of "I" for Incomplete. The Grade Point Average WOULD BE IMPACTED as this becomes a course attempted but no credit was earned.

NOTE: The current policy relative to losing credit for a class due to lack of attendance remains in effect. That is, any student missing from a class due to excessive trancies or absences will receive no credit and a PERMANENT "I" grade. The grade point average will be negatively affected.

Information can be found on excessive trancies or absences in the Family and Student Handbook.

Repeating Elective Courses

Elective courses may be repeated for additional credit as long as DIFFERENT CURRICULUM is provided to the student. Look for the green note that a course is approved for repeated enrollment. An example would be a course where the 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 in the course catalog. Additional credits may be earned for additional passed courses. Examples of repeatable courses: Advanced Band, Personal Fitness 2, Graphic Arts III, Career Development Internship, etc.

LOOK FOR THIS NOTE:

**Repeatable: May be taken more than once for additional credit*

No Duplication of Courses: CITS vs. Regular

Students who take a course that has a CITS option may not retake the class in the other version. For example, students who have taken Psychology cannot also take CITS Psychology. If you've taken CITS Psychology you cannot take Psychology. This applies to all CITS courses.

Agriculture, Food, & Natural Resources

CAREER FIELD:
Agriculture, Food,
& Natural Resources



Department Course Progression Map

Intro to AFNR

Plant Science Fall

Plant Science Spring



Plant Science Greenhouse 1



Plant Science Greenhouse 2

Forestry, Fish, and Wildlife

Course # 221430	Course Name: Sustainable Environmental Systems (formerly Intro to AFNR)		
	Prerequisite: None	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 9 10 11 12			

Course Description: This course explores environmental sciences in agriculture and natural resource management, focusing on sustainable practices that balance productivity and ecological health. Topics include soil and water conservation, climate change, biodiversity, pollution management, and agriculture's role in carbon sequestration. Students will examine technologies and strategies that promote resource efficiency and reduce environmental degradation, using case studies and practical applications to address current challenges and contribute to sustainable systems.

Course # 221621	Course Name: Plant Science Fall		
	Prerequisite: Completed or Concurrent Biology	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1	
Grades: 10 11 12			

Course Description: This introductory course explores the biology, ecology, and significance of plants in our world. Students will engage in hands-on activities, examining plant structures, growth processes, and the role of plants in ecosystems. This course is ideal for those interested in environmental science, biology, or horticulture. Students will learn and practice career and leadership skills through introduction and involvement in Future Farmers of America (FFA).

Course # 221622	Course Name: Plant Science Spring		
	Prerequisite: Completed or Concurrent Biology	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 2	
Grades: 10 11 12			

Course Description: The spring section of Plant Science briefly revisits the basics covered in Plant Science Fall. Students are not required to take the Fall section although it is encouraged. The spring semester is focused on the science and practice of growing plants for a spring plant sale and other seasonal lessons. Students will learn and practice career and leadership skills through introduction and involvement in Future Farmers of America (FFA).



Course # 221620	Course Name: Plant Science - Greenhouse 1 (Combined DHS/EHS class at East)		
	Prerequisite: Plant Science Fall or Spring	Credits: 1.0	
	Meets Graduation Requirement: ELECTIVE	Sem: 2 Period Block Class	
Grades: 11 12			

***This course meets at East. Denfeld students will be transported each day.**

Course Description: Learn fundamental plant science concepts—including anatomy, physiology, classification, and propagation—through hands-on projects in the East Greenhouse. The curriculum focuses on real-world problems faced by horticultural and plant research specialists. Students will also build career and leadership skills via the FFA.



Course # 221440	Course Name: Outdoor Leadership		
	Prerequisite: None	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 9 10 11 12			

Course Description: This course prepares students to manage land and natural resources for outdoor recreation while promoting environmental stewardship. Students will learn to design sustainable programs and manage outdoor spaces that protect ecosystems, wildlife habitats, and provide enjoyable experiences. Topics include land use planning, sustainable resource management, and balancing ecological health with recreation demands. The course emphasizes responsible management practices, public education, and community engagement for the benefit of both wildlife and visitors.

Course # 221822	Course Name: Plant Science - Greenhouse 2 (Combined DHS/EHS class at East)	
 	Prerequisite: Plant Science - Greenhouse 1	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2 2 Period Block Class
Grades: 11 12		

***This course meets at East. Denfeld students will be transported each day.**

Course Description: Students will continue the development of skills and knowledge needed to perform successfully in a career involving plants. This course will build on Greenhouse Science 1 and continue to challenge students with hands-on projects in the greenhouse, providing them with real-world experiences and knowledge. Students will learn and practice career and leadership skills through introduction and involvement in Future Farmers of America (FFA).

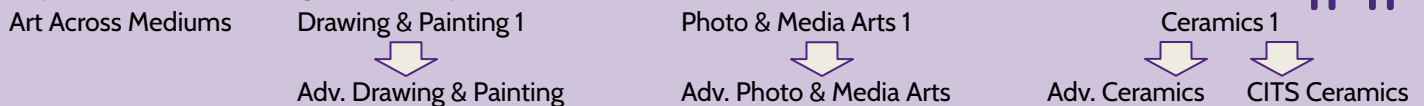
Course # 221420	Course Name: Forestry, Fish, and Wildlife (Combined DHS/EHS class at East)	
 	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2 2 Period Block Class
Grades: 9 10 11 12	NEW this year: Open to 9th GRADE!	

***This course meets at East. Denfeld students will be transported each day.**

Course Description: This course will give students the opportunity to experience forestry, fish, and wildlife firsthand. The Duluth East School Forest serves as an outdoor classroom for this course. Much of this class is held outdoors; students should be prepared to be outside for class 3-5 days a week, regardless of weather. Upon completion of the class, students will have gained job skills and knowledge related to the field of natural resources and an understanding of the importance and appreciation of the flora and fauna in Northern Minnesota. Students will also have the opportunity to participate in regional FFA competitions.


Art: Visual

Department Course Progression Map




CAREER FIELD:
Arts, Communications,
& Information Systems




Course # 100000	Course Name: Art Across Mediums <i>*Also available through AEO</i>	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: This one-semester course introduces learners to various visual art forms, including painting and sculpture. Students will learn key characteristics in artworks and understand art's historical role. Through hands-on activities, discussion, and research, learners develop an appreciation for art in daily life.

Course # 101000	Course Name: Drawing and Painting 1	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 9 10 11 12		


Course Description: This hands-on introductory course requires no prior experience and is open to students of all levels. You will learn fundamental drawing and painting skills through projects focusing on observation, design basics, and color theory. The class actively explores various materials, including pencil, charcoal, ink, watercolor, acrylics, and digital tools, culminating in the technical skills needed to create effective visual art.

Art: Visual (cont)


Course # 101100	Course Name: Advanced Drawing and Painting	
	Prerequisite: Drawing and Painting 1	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 9 10 11 12		

***Repeatable: May be taken a second and third time for additional credit by registering for 101101 and 101102**

Course Description: This advanced studio course moves beyond basics to refine your artistic voice and build a professional portfolio. You will work independently on personalized, contract-style projects involving complex narratives, expressive themes, and commercial challenges. Combining in-depth research and critical thinking, the final goal is a strong collection of art suitable for college applications, exhibitions, or professional submissions.


Course # 101310	Course Name: Photography & Media Arts 1 (formerly Art of Photo/Cinema)	*Also available through AEO
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: Enhance your photo and cinema skills! This class offers you the opportunity to learn about and create works involving image composition, digital photo editing, movie editing, animation, sound, lighting, and special effects. You will learn to use Adobe Photoshop and video editing software to bring your creative ideas to life! No previous computer knowledge or skills are necessary.


Course # 101410	Course Name: Advanced Photography & Media Arts (formerly Adv. Photo/Cinema)	
	Prerequisite: Photo & Media Arts (or former Art of Photography and Cinema 1)	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 9 10 11 12		

***Repeatable: May be taken a second and third time for additional credit**

Course Description: Enhance your photo and cinema skills! This class offers you the opportunity to learn about and create works involving image composition, digital photo editing, movie editing, animation, sound, lighting, and special effects. You will learn to use Adobe Photoshop and video editing software to bring your creative ideas to life! No previous computer knowledge or skills are necessary.



Course # 101400	Course Name: Ceramics and Sculpture 1	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: Students will learn foundational clay handbuilding skills, and develop a comprehensive understanding of glaze chemistry and application methods. Learners will design and execute functional objects and sculptural pieces while analyzing historical, cultural, and contemporary ceramic styles and techniques. This course aims to develop an appreciation for the vast history and diverse applications of the ceramics medium.


Course # 101700	Course Name: Advanced Ceramics and Sculpture	
	Prerequisite: Ceramics and Sculpture 1	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: This advanced course refines handbuilding and glazing techniques, explores wheel throwing, and focuses on developing a personal artistic voice. Students will complete complex utilitarian and conceptual projects, creating a cohesive body of work. The curriculum integrates rigorous research, conceptual planning, and critical analysis to produce a high-quality portfolio ready for exhibition or submission.


Art: Visual (cont)

Course # 101710	Course Name: CITS Ceramics	
 	Prerequisite: Ceramics and Sculpture 1	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 11 12	College Credit: LSC, ART 1138 - Ceramics 1	

Course Description: 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.

Course # 101900	Course Name: Stained Glass, Metals, and Fibers	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 10 11 12		

Course Description: Design and create works of art with a variety of techniques in contemporary and historic crafts such as stained glass, weaving, and various metal and jewelry making techniques. Students will analyze historical, cultural, and contemporary materials, terminology, styles, and techniques.

Course # 102000	Course Name: Advanced Stained Glass, Metals, and Fibers	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 10 11 12		

**Repeatable: May be taken a second and third time for additional credit*

Course Description: Develop personal style, sharpen your skills, and use new and innovative techniques for a more in-depth exploration of stained glass, weaving, and various metal and jewelry making techniques. Students will analyze historical, cultural, and contemporary materials, terminology, styles, and techniques.

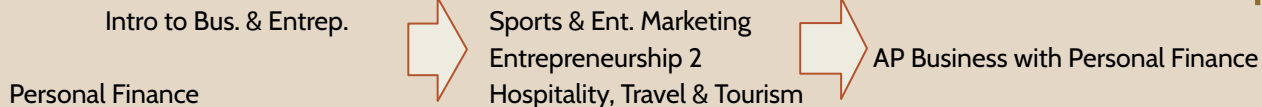
Advanced Stained Glass, Metals, and Fibers may not be taken concurrently with Stained Glass, Metals, and Fibers 1.




Business and Marketing

CAREER FIELD:
Business, Management
& Administration



Department Course Progression Map



Course # 114500	Course Name: Introduction to Business & Entrepreneurship	
  	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: Students will develop an entrepreneurial mindset; a mindset capable of critical thinking and problem solving in a fast-paced professional environment. Students develop core knowledge and skills needed for starting their own business venture or non-profit organization. Students will investigate the impact entrepreneurs have on the economy while exploring diverse pathways to entrepreneurship. They will engage in the discovery process to generate and validate new business ideas and develop a plan to market their business. The class examines entrepreneurial theory as well as real world situations. All Business and Marketing students have the opportunity to join and compete in DECA.




Business and Marketing, cont

Course # 114200	Course Name: Sports and Entertainment Marketing	
 	Prerequisite: Introduction to Business & Entrepreneurship (or former Intro to Business & Marketing)	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: Delve into the dynamic world of sports and entertainment marketing, exploring the strategies, tactics, and trends that shape this exciting industry. Students will gain a comprehensive understanding of the unique challenges and opportunities presented by the sports and entertainment landscape.




Course # 114800	Course Name: Hospitality, Travel, & Tourism	
  	Prerequisite: Introduction to Business & Entrepreneurship (or former Intro to Business & Marketing)	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 10 11 12		

Course Description: Introduces a wide range of topics in the hospitality, travel, and tourism industry hotel and restaurant management, travel and tourism options, resorts and theme parks, restaurant and food service options, and events planning. Job shadowing, industry tours, student participation in simulations, and participation in DECA hospitality and tourism events are embedded within the course to help students align career pathway interests.

Course # 114601-114602	Course Name: Entrepreneurship 2: Small Business Development	
  	Prerequisite: Introduction to Business & Entrepreneurship (or former Intro to Business & Marketing)	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG
Grades: 10 11 12		



***Repeatable: May be taken a second and third time for additional credit**

Course Description: This course involves operating a school-based, startup, or simulated business including a school store. This course will build upon the innovation and entrepreneurial skills from the introductory class. Students will engage in business planning by researching, designing, and launching (or planning) a new venture. They will cover key areas like competitive analysis, product development, operations, financial analysis, and marketing strategy to gain essential business preparation skills.

Course # 114701-114702	Course Name: AP Business with Personal Finance	
  	Prerequisite: Entrepreneurship 2: SBD, OR Sports & Ent. Marketing, OR Hospitality/Travel/Tourism (for 26-27 any business course meets this requirement)	Credits: 1.0
	Meets Graduation Requirement: PERSONAL FINANCE	Sem: YEAR LONG
Grades: 11 12	College Credit: Varies based on AP Exam score and college of admission	

Course Description: Comparable to a college-level introduction to business course, students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business applications, case studies, and project based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the Jump\$tart Coalition for Personal Financial Literacy. *This course satisfies the requirement for Personal Finance. Students do not need to take the semester course.

***AP= Advanced Placement courses follow curriculum set by the College Board. Students may take a national AP Exam in May each year for potential college credit.**

Course # 250300	Course Name: Personal Finance	*Also available through AEO
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: PERSONAL FINANCE	Sem: 1 or 2
Grades: 11 12	Seniors have priority scheduling for this course. 11th grade students as space allows.	

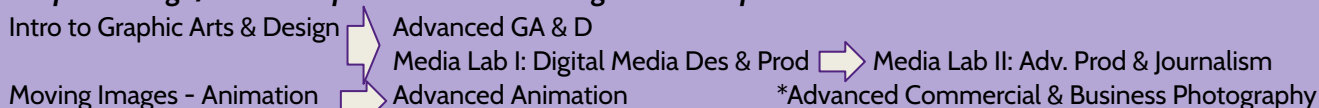
Course Description: Students will gain the ability to manage their personal finances and make wise economic decisions. Areas of focus include financial psychology, earning and income, financial systems, credit and debit management, risk management, and budgeting and investing. This course will help students become intelligent decision-makers in a global economy.

Communication Technology & Information Systems

CAREER FIELD:
Arts, Communications,
& Information Systems





Graphic Design/Media Department Course Progression Map





Computer Science & Information Systems Department Course Progression Map





Course # 250100	Course Name: Computer Science	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 9 10 11 12	*This course is now an elective for the class of 2027+.	




Course Description: This exploring Computer Science course presents students with the conceptual underpinnings of computer science through an exploration of human computer interaction, web design, computer programming, data modeling, and robotics. Exploring Computer Science courses teach students the computational practices of algorithm design, problem solving, and programming within a context that is relevant to their lives. Students will also review basic school based application skills, tips, and tricks as well as computer science skills necessary for basic personal and professional success.

Course # 111400	Course Name: Computer Design and Gaming	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: This course will prepare students to design computer games by studying design, animation, artistic concepts, digital imaging, coding, scripting, multimedia production, and game play strategies.

Course # 111500	Course Name: Computer Maintenance and Repair	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: Computer Maintenance and Repair courses prepare students to apply basic electronic theory and principles in diagnosing and repairing personal computers and input/output devices. Topics may include operating, installing, maintaining, and repairing computers, network systems, digital control instruments, programmable controllers, and processors.



Course # 111610	Course Name: Advanced Commercial & Business Photography	
  	Prerequisite: Photo & Media Arts I & II (or former Photo & Cinema and Adv. P & C)	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 10 11 12		

Course Description: This advanced course takes your photography skills into the business world. After successful completion of the first two photo courses, you'll learn how to successfully run a commercial photography enterprise. The main focus is on real-world career applications. You will master advanced technical skills—like complex studio lighting and specialized printing preparation—while applying them to commercial and industrial projects (e.g., product and corporate photography). Crucially, you'll gain business-making skills including: developing professional contracts and proposals, pricing your work and managing clients, and building a professional portfolio and online presence. This class is your path to becoming a working professional through real project experience.




Communication Technology & IS

CAREER FIELD:
Arts, Communications,
& Information Systems






Course # 11111	Course Name: Computer Science Principles	<i>*Also available through AEO</i>
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1
Grades: 11 12		

Course Description: Explore the building blocks of modern computing, from programming and algorithms that power your favorite apps to the inner workings of the internet, big data, and digital security. This course also explores the societal impact of technology and how computing shapes our world.




Course # 11112	Course Name: AP Computer Science Principles	<i>*Also available through AEO</i>
  	Prerequisite: Computer Science Principles	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 2
Grades: 11 12	College Credit: Varies based on AP Exam score and college of admission	

Course Description: Continue to explore the building blocks of modern computing, from programming and algorithms that power your favorite apps to the inner workings of the internet, big data, and digital security. This course also explores the societal impact of technology and how computing shapes our world and prepares you to take the Advanced Placement Exam.

***AP= Advanced Placement courses follow curriculum set by the College Board. Students may take a national AP Exam in May each year for potential college credit.**

Course # 102210	Course Name: Introduction to Graphic Arts & Design	
  	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: Curious about how to design logos, create digital art, or lay out a magazine? This entry-level course is your hands-on introduction to the world of Graphic Arts and Design. No experience is needed! You'll learn to apply artistic skills and computer techniques to create professional commercial concepts. We cover design basics like color theory and concept sketching while getting you started with industry-standard software like Adobe Photoshop, Illustrator, and InDesign. You'll learn to turn your ideas into digital artwork and understand the basics of commercial art business operations.



Course # 102220	Course Name: Advanced Graphic Design & Commercial Applications	
  	Prerequisite: Introduction to Graphic Arts & Design (or former Graphic Arts 1)	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 10 11 12		

Course Description: This advanced course is for students who want to apply their design skills to the commercial business world. Building on introductory knowledge, the class focuses on high-level digital production and commercial communication. Key skills include advanced illustration, complex print preparation, and foundational web page design. You will gain hands-on experience in the Graphic Arts Lab, mastering printing processes like sublimation and vinyl printing. Crucially, you'll learn essential business-making skills, such as contracts and pricing, needed to pursue a career in commercial graphic design.



Communication Technology & IS

CAREER FIELD:
Arts, Communications,
& Information Systems





Course # 111140	Course Name: Digital Media Design & Production - Lab 1	
 	Prerequisite: Introduction to GA & D (or former Graphic Arts 1)	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 10 11 12		

Course Description: Digital Media Design & Production is a student-run digital journalism and media production course. You'll be creating the media the school actually uses: weekly announcements, newsletters, podcasts, videos, and content for the student YouTube channel. You'll learn the full production pipeline — reporting, writing for the web and print, filming, podcasting, editing, and graphic design. Every week means real deadlines, real audiences, and real impact. If you want to tell stories, shape culture, and make stuff people actually watch and read, this is your class.



Course # 111150	Course Name: Advanced Production & Broadcast Journalism - Lab 2	
 	Prerequisite: Media Lab I	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 10 11 12		

**Repeatable: May be taken a second and third time for additional credit*

Course Description: Advanced Production & Broadcast Journalism takes media production to a professional level. Students step into advanced TV/video, film, and audio production roles — directing studio shoots, producing high-impact reporting, creating longer-form packages, and leading editorial teams. You'll explore cinematic techniques, lighting setups, motion graphics, multi-camera production, and broadcast journalism standards. Additional topics include media law, station operations, FCC guidelines, the economics and influence of the media industry, and career pathways in audio/visual communication. Students will not only create their own programs — they'll run the show.



Course # 111120	Course Name: Moving Images - Animation	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: Moving Image–Animation courses explore the creative and conceptual aspects of designing and producing animated images for storytelling and multimedia presentations including dramatic narratives; artistic and experimental presentations and installations; and ambient, interactive, immersive and performance media. Topics may include motion graphics; compositing and visual effects; 2D and 3D animation; timing and spacing; aspect ratio; video editing; animation physics and expressions; pre- and post-production methods, tools and processes; animation presentation, transmission, distribution, and marketing; and contextual, cultural, and historical aspects and considerations.



Course # 111130	Course Name: Advanced Animation	
 	Prerequisite: Moving Images - Animation	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 10 11 12		

Course Description: This advanced course is designed for students with a foundational understanding of animation principles and production workflows. It focuses on specialized, high-level production techniques and the conceptual development of complex animated projects for professional and experimental contexts.





Course # 201400	Course Name: Child Development / Child Psychology	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 9 10 11 12		




Course Description: 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.

Course # 201521-201522	Course Name: Early Childhood and Education Professions	
 	Prerequisite: None	Credits: 2.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG 2 Period Block Class
Grades: 10 11 12	*Based on requests, this course may only be offered at one site. Students from the other site will bus to the course daily.	

Course Description: This course is a lab preschool setting with lectures 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.

Course # 202301	Course Name: Pathway2Teaching: Introduction to Socially Just Education	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 11 12		

Course Description: 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.

Course # 202302	Course Name: CITS Pathway2Teaching: Introduction to Socially Just Education	
  	Prerequisite: Pathway2Teaching (202301)	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 2
Grades: 11 12	College Credit: College of St. Scholastica, EDU 1540 - Intro to Teaching (2 credits) and Intro to Field Experience (1 credit)	

***No CITS minimum requirements - ALL students may take this course and earn college credit!**






Course Description: This course is a continuation of Pathways2Teaching and examines teaching as a career and the foundations of our educational system. Students will continue to 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.

Emergency Response




Courses in this field are often also included in **Healthcare Occupations**, noted below.

CAREER FIELD:
Human Services





Course # 151100	Course Name: Emergency Medical Response (EMR)		
   	Prerequisite: None	Credits: .5	
	Meets Graduation Requirement: Elective	Sem: 1 or 2	
Grades: 11 12	College Credit: Articulated credit may be applied for students who go on to attend LSC. LSC may grant credit in ALTH 1430 (1 cr) First Aid & CPR/AED for Healthcare Professionals		
Certificate: Opportunity to earn EMR Certification			



Course Description: This course is an introduction to Emergency Medical Service (EMS) careers. 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.

Course # 232510	Course Name: Introduction to Fire Science	
  	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 10 11 12		

Course Description: Fire Fighting courses offer students the opportunity to learn fire prevention and control. Instruction may include organization, rules, requirements, and regulations of fire departments; study and practice the tools and techniques used by firefighters to control or extinguish fires; and examine the behavior of fires.



Course # 151201	Course Name: Emergency Medical Technician (EMT) 1	
 	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: BLOCK SEMESTER
Grades: 11 12		

Course Description: The EMT 1 course is focused on development of the EMT's critical role as a team member during patient crisis situations. It is an entry level certification in the Emergency Medical Services career field. The program follows the current Dep't of Transportation EMT curriculum including instruction in precise patient assessment and management and trauma and medical emergencies, airway management, resuscitation and pharmacological interventions. EMT 1 is the first half of the National EMT curriculum for certification as a Nationally Registered Emergency Medical Technician. 10 lab/service learning hours are required as a part of the course.

Course # 151202	Course Name: Emergency Medical Technician (EMT) 2	
 	Prerequisite: EMT 1	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: BLOCK SEMESTER
Grades: 11 12	College Credit: TBD	



Certificate: Opportunity to earn **EMT Certification: paper test in class, then when 18 skills test on own**

Course Description: EMT 2 is the second half of training to meet the new National EMS Education Standards for the Emergency Medical Technician (EMT). Students must take EMT 1 in conjunction with EMT 2. This course includes assessment-based education and medical interventions. Ambulance calls will be staged for students on a routine basis. Opportunities for ride alongs and job shadows will be sought. Students will apply their skills by working simulated emergencies and how to learn from and network with healthcare, fire, and law enforcement professionals. 10 lab/service learning hours are required as part of the course.




Course # 232410	Course Name: CITS Introduction Law Enforcement and Community Relations	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 10 11 12	College Credit: FDLTCC, LAWE 1001, Introduction to Criminal Justice (3 cr)	

Course Description: Students will learn how the criminal justice system works and will gain broad knowledge of the importance and principles behind community policing, how, and why law enforcement has evolved over time. Students will gain understanding of the causes and means to prevent crime and to work effectively in the law enforcement field.

Emergency Response, continued

Course # 232300	Course Name: Civil and Criminal Law	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 11 12		

Course Description: 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.

Course # 232400	Course Name: CITS Civil and Criminal Law	
  	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 11 12	College Credit: FDLTCC, LAWE 1005 Seeking Careers in Criminal Justice (3 cr)	

Course Description: 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.

Engineering, Manufacturing, & Technologies

CAREER FIELD:
Engineering, Manufacturing,
& Technology





Department Course Progression Map

Aviation	Intro to Aviation, Aerospace History, and Aerospace Engineering Design	Aerospace Physics
Automotive	Auto Basics: Brakes and Engines	Auto Basics: Transmissions and Suspensions
		▶ Advanced Automotive
Construction	Intro to Construction	▶ Construction Trades I
		▶ Construction Trades II
		▶ Woodworking
Engineering	Intro to Eng Des	▶ Principles of Eng Des
		▶ Additive Manufacturing
		▶ Adv Eng Des I
		▶ Adv Eng Des II
		▶ Adv Ind Eng Des
		▶ Simulation: Finite Element Analysis
		▶ Weldments
		▶ Sustainable Design
Fab Lab Courses:	▶ Fab Lab 1	▶ Fab Lab 2
Manufacturing:	Manufacturing Technologies	▶ Manuf. Tech. I
		▶ Manuf. Tech. II
		▶ Adv. Manuf. Tech.
Architecture:	CAD for Architecture I	▶ CAD for Architecture II
		▶ Adv. Ind. Arch. Research & Design
Robotics Courses	Robotics 1	▶ Robotics 2



Completion of Intro & Principles opens up next levels

Aviation

Course # 222931-222932	Course Name: Introduction to Aviation, Aerospace History, and Aerospace Engineering Design	
 	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG
Grades: 10 11 12		




Course Description: Students gain a foundational understanding of the science of flight and typically include the history, regulations, and possible career paths within the aviation industry. Aviation courses usually cover physics, the relationships of weight and balance, principles of navigation and flight control, ground and airport operations and services, and Federal Aviation Agency regulations

Aviation, continued

Course # 222941-222942	Course Name: Aerospace Physics	
 	Prerequisite: 9th and 10th grade Science	Credits: 1.0
	Meets Graduation Requirement: Science (Physics)	Sem: YEAR LONG
Grades: 11 12		




Course Description: 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 the Physics graduation requirement (for the year 3 Chemistry or Physics choice).

Automotive

Course # 171921-171922	Course Name: Automotive Basics: Brakes and Engines (Combined DHS/EHS class at Denfeld)		
 	Prerequisite: None	Credits: 2.0	
	Grades: 10 11 12	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG 2 Period Block Class
Certificates/Credentials: Students earn SP2 shop safety certification. This program is accredited by the ASE (Automotive Service Excellence) Education Foundation.			




**This course meets at Denfeld. East students will be transported each day.*

Course Description: 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.

Course # 172121-172122	Course Name: Automotive Basics: Transmissions and Suspensions (Combined DHS/EHS class at Denfeld)		
 	Prerequisite: None	Credits: 2.0	
	Grades: 10 11 12	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG 2 Period Block Class
Certificates/Credentials: Students earn SP2 shop safety certification. This program is accredited by the ASE (Automotive Service Excellence) Education Foundation.			

**This course meets at Denfeld. East students will be transported each day.*



Course Description: 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.

Course # 171921-171922	Course Name: Advanced Automotive (Combined DHS/EHS class at Denfeld)	
  	Prerequisite: Brakes & Engines, Transmissions & Suspensions	Credits: 2.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG 2 Period Block Class
Grades: 12	College Credit: Students who successfully complete all three Automotive courses and then proceed to enroll at LSC will be granted articulated credit for 32404380 Automotive Brake Systems (1 cr), 3240375 Automotive Fundamentals (2 cr), and 32404379 Suspension & Alignment	



**This course meets at Denfeld. East students will be transported each day.*

Course Description: 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.



Construction

Course # 171600	Course Name: Introduction to Construction	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: Building Repair & Maintenance courses provide students with knowledge and skills related to devices and systems found in the home. Course content may include electrical wiring, plumbing, window and door repair and installation, wall and floor repair and finishing, furniture repair and finishing, and small appliance repair and installation.



Course # 172310	Course Name: Woodworking	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: This course involves the use of hand, power, and mounted machine tools in a woodshop setting. Students will explore pathways to working with wood either as a hobby or vocation. Students will learn about different types of wood, lumber, boards, and forestry products. They will practice woodworking skills and learn how to produce items ranging from entry level to finished furniture.

Course # 171621-171622	Course Name: Construction Trades I (Combined DHS/EHS class at East)	
 	Prerequisite: Introduction to Construction	Credits: 2.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG 2 Period Block Class
Grades: 10 11 12		

***This course meets at East. Denfeld students will be transported each day.**

Course Description: CT1 is an introductory class where students become members of a construction team. Students learn how to use hand, power, and mounted tools safely. The team works together on various school, or community projects throughout the year in a simulated work environment. Students will get a broad exposure to the various trades.




Course # 171721-171722	Course Name: Construction Trades II (Combined DHS/EHS class at East)	
 	Prerequisite: Construction Trades I	Credits: 2.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG 2 Period Block Class
Grades: 11 12		

***Repeatable: May be taken more than once for additional credit**

***This course meets at East. Denfeld students will be transported each day.**




Course Description: CT2 is a class for students that are interested in developing their tool use skills and/or are interested in exploring a career path in the trades. Students learn how to plan, design, lead, and complete projects in a simulated work environment. They research pathways to trades and careers they are interested in. Students are encouraged to work towards certifications and endorsements.

Engineering

Course # 121211	Course Name: Introduction to Engineering Design (CAD)		
 	Prerequisite: None	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 9 10 11 12			




Certificates/Credentials: Opportunity to earn Certified SolidWorks Associate (CSWA) certification

Course Description: In this course, students learn about the engineering design process and parametric 3D modeling through the use of SolidWorks industry leading Computer Aided Drafting (CAD) software. 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.

Course # 121502	Course Name: Principles of Engineering		
 	Prerequisite: Intro to Engineering	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 9 10 11 12			




Certificates/Credentials: Opportunity to earn Certified SolidWorks Associate (CSWA)

Course Description: 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 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.

Course # 121600	Course Name: Sustainable Design		
 	Prerequisite: Principles of Engineering	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 10 11 12			




Certificates/Credentials: Opportunity to earn Certified SolidWorks Associate in Sustainable Design (CSWA-SD)

Course Description: 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.

Course # 121610	Course Name: Weldments		
 	Prerequisite: Principles of Engineering	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 10 11 12			

Certificates/Credentials: Opportunity to earn Certified SolidWorks Professional-Advanced in Weldments (CSWPA-WD)





Course Description: 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.

Course # 121620	Course Name: Simulation: Finite Element Analysis		
 	Prerequisite: Principles of Engineering	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 10 11 12			





Certificates/Credentials: Opportunity to earn Certified SolidWorks Associate in Finite Element Analysis (CSWA-FEA)

Course Description: 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.



CAD for Engineering, continued

Course # 121630	Course Name: Additive Manufacturing		
  	Prerequisite: Principles of Engineering	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 10 11 12	College Credit: Articulated credit may be applied for students who go on to attend LSC. In combination with our "Adv. Ind. Eng. Research & Design" course, LSC may grant credit for INMG 1450- Prototyping Processes.		
Certificates/Credentials: Opportunity to earn Certified SolidWorks Associate in Additive Manufacturing (CSWA-AM)			

Course Description: 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.



Course # 121301-121302	Course Name: Advanced Engineering Design I & II (CAD III and IV)		
  	Prerequisite: Principles of Engineering	Credits: 1.0	
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG	
Grades: 10 11 12	College Credit: Articulated credit may be applied for students who go on to attend LSC. In combination with our "Additive Manufacturing" course, LSC may grant credit for INMG 1450- Prototyping Processes.		
Certificates/Credentials: Opportunity to earn Certified SolidWorks Professional (CSWP)			

Course Description: This course is the main continuation of the Engineering Design pathway for students who have completed one year of engineering design studies. Students continue to build on their knowledge of CAD and engineering design procedures. Throughout the year, the class will review preparation materials of all three segments of the Certified SolidWorks Professional (CSWP) exam.


Course # 125000	Course Name: Advanced Independent Engineering Research and Design	
 	Prerequisite: Instructor Approval	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 11 12		

Course Description: This course is the capstone program of the Engineering Design pathway. 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.

Manufacturing


Course # 124101	Course Name: Manufacturing Technologies I	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1
Grades: 9 10 11 12		

Course Description: 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.

Course # 124102	Course Name: Manufacturing Technologies II	
 	Prerequisite: Manufacturing Technologies I	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 2
Grades: 9 10 11 12		



Course Description: 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.

Manufacturing, continued



Course # 124200	Course Name: Advanced Manufacturing Technologies III	
 	Prerequisite: Manufacturing Technologies II	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 10 11 12		

Course Description: 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.

Fab Lab



Course # 121201	Course Name: Fab Lab I	
 	Prerequisite: Principles of Eng. Des. AND Manuf. Tech.	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 10 11 12		

Course Description: Students 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.



Course # 121202	Course Name: Fab Lab II	
 	Prerequisite: Fab Lab I	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 10 11 12		

Course Description: 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.



Architecture

Course # 122101	Course Name: CAD for Architecture I	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1
Grades: 9 10 11 12		

Course Description: 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.



Course # 122102	Course Name: CAD for Architecture II	
 	Prerequisite: CAD for Architecture I	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 2
Grades: 9 10 11 12		

Course Description: 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.



Course # 122110	Course Name: Advanced Independent Architecture Research and Design	
 	Prerequisite: CAD for Architecture II	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 11 12		

Course Description: 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.

Robotics

Course # 172600	Course Name: Robotics I	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1
Grades: 10 11 12		

Course Description: Robotics introduces 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.

Course # 172610	Course Name: Robotics II	
 	Prerequisite: Robotics I	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 2
Grades: 10 11 12		

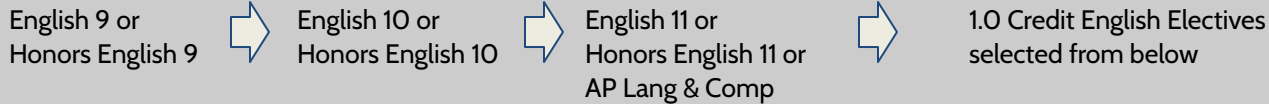
Course Description: Robotics 2 furthers the concepts of robotics learned in Robotics 1, with an additional focus of robotics programming and autonomous robotic control. Students will continue to build on their understanding of mechanical robotics concepts, but will also learn to add sensors so their robots can act independently based on external stimuli.

English Language Arts (4.0 cr required)

CAREER FIELD:
Courses in this department
apply to a broad base of careers!



Department Course Progression Map



***English Language Arts Honors Additional Note:** Students who do not meet the B average requirement for GPA may solicit teacher recommendation for enrollment in the course.

A teacher panel may consider students' work ethic, attendance record, and academic honesty for acceptance into these classes. Problems with excessive absences (more than 15 per semester) and cheating, including use of AI, may affect students' eligibility.

Commitment Agreement Appendix E also applies to these courses.

GRADE 9: Required 1.0 ELA Credit Options

Course # 130001-130002	Course Name: English 9	*Also available through AEO
	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: ENGLISH 9	Sem: YEAR LONG
Grades: 9		

Course Description: This ninth grade course explores a variety of literature and informational texts, including novels, plays, and essays, to enhance reading comprehension and expose students to diverse perspectives. Students will develop their writing skills through various assignments, learn proper MLA formatting and citation, and expand their vocabulary.

Course # 131001-131002	Course Name: Honors English 9	
	Prerequisite: Commitment Agreement, Appendix E	Credits: 1.0
	Meets Graduation Requirement: ENGLISH 9	Sem: YEAR LONG
Grades: 9		

Course Description: This accelerated English 9 course delves deeper into literature and language concepts, requiring students to maintain a fast-paced learning environment with increased independent work and student-led discussions. Students will complete individual and group projects, including presentations, and engage in extensive independent reading to foster self-motivation and academic ownership.

English Language Arts, continued

GRADE 10: Required 1.0 ELA Credit Options

Course # 131101-131102	Course Name: English 10 <i>*Also available through AEO</i>	
	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: ENGLISH 10	Sem: YEAR LONG
Grades: 10		

Course Description: This tenth grade English course immerses students in diverse literature, including novels, plays, and poetry, to strengthen reading comprehension and cultivate an understanding of multiple perspectives. Students will refine their writing process through various assignments, master MLA formatting and plagiarism avoidance, and expand their vocabulary.

Course # 131201-131202	Course Name: Honors English 10	
	Prerequisite: Commitment Agreement, Appendix E	Credits: 1.0
	Meets Graduation Requirement: ENGLISH 10	Sem: YEAR LONG
Grades: 10		

Course Description: This accelerated English 10 course requires students to maintain a fast pace of learning while deepening their understanding of complex literary concepts and engaging in student-led discussions. Through coursework including individual and group projects, presentations, and extensive independent reading, students cultivate self-motivation and take ownership of their learning.


GRADE 11: Required 1.0 ELA Credit Options

Course # 131301-131302	Course Name: English 11 <i>*Also available through AEO</i>	
	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: ENGLISH 11	Sem: YEAR LONG
Grades: 11		

Course Description: 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.


Course # 131401-131402	Course Name: Honors English 11 <i>*Also available through AEO</i>	
	Prerequisite: Commitment Agreement, Appendix E	Credits: 1.0
	Meets Graduation Requirement: ENGLISH 11	Sem: YEAR LONG
Grades: 11		

Course Description: This accelerated English 11 course challenges students with a fast-paced learning environment, demanding in-depth knowledge of complex literary concepts and active participation in student-led discussions. Students will hone their skills through coursework that includes individual and group projects, presentations, and substantial independent reading, fostering self-motivation and academic responsibility.

Course # 131501-131502	Course Name: AP Language and Composition	
	Prerequisite: Commitment Agreement, Appendix E	Credits: 1.0
	Meets Graduation Requirement: ENGLISH 11	Sem: YEAR LONG
Grades: 11	College Credit: Varies based on AP Exam score and college of admission	

Course Description: This rigorous course focuses on developing students' analytical and argumentative writing skills through the study of diverse texts. Students will learn to analyze rhetoric, effectively utilize credible sources, and craft persuasive arguments in their writing.

***AP= Advanced Placement courses follow curriculum set by the College Board. Students may take a national AP Exam in May each year for potential college credit.**

Course # 250510	Course Name: Reading Acceleration	
	Prerequisite: Credit Deficient, ELA Team Determination	Credits: .5 per semester
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 9 10 11 12		


Course Description: This course provides personalized literacy instruction to level up literacy skills and improve reading and writing in all courses. Students will learn strategies to tackle new vocabulary and boost comprehension of complex texts.

English Language Arts, continued

GRADE 12: Required 1.0 ELA Credit Options (select at least two of the following .5 credit courses)

NOTE: While some of these courses are open to juniors to request, priority is given to seniors.

You may also request additional courses for elective credit.


Course # 131600	Course Name: AP/CITS Literature and Composition	
	Prerequisite: Commitment Agreement	Credits: .5
	Meets Graduation Requirement: ELECTIVE / ENGLISH 12	Sem: 1 or 2
Grades: 12	College Credit: UMD, ENGL 1907, Intro to Literature (3 cr)	

Course Description: This challenging course elevates students' literary analysis skills through the exploration of diverse genres and periods. By immersing themselves in classic works of English and World Literature, students will refine their critical reading, presentation, and essay writing abilities, to be able to produce sophisticated literary analysis and research papers.

***AP= Advanced Placement courses follow curriculum set by the College Board. Students may take a national AP Exam in May each year for potential college credit.**

Course # 13700	Course Name: Values in Literature	*Also available through AEO
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE / ENGLISH 12	Sem: 1 or 2
Grades: 11 12		


Course Description: This unique elective explores fundamental philosophical questions through diverse fiction and nonfiction texts, spanning from ancient to modern times. Students will analyze complex ideas, engage in thought-provoking discussions, and develop their essay writing skills, finishing the course with a written personal reflection on their own values.

Course # 131800	Course Name: Drama as Literature	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE / ENGLISH 12	Sem: 1 or 2
Grades: 11 12		

Course Description: This intensive course explores the evolution of drama through the study of a variety of plays across different time periods. Students will analyze diverse interpretations, including live and recorded productions, while examining key themes and dramatic structure to deepen their understanding of theatrical works.

Course # 131900	Course Name: Grammar and Composition	*Also available through AEO
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE / ENGLISH 12	Sem: 1 or 2
Grades: 11 12		

Course Description: This writing course focuses on improving grammar and composition skills for a variety of writing tasks. Students will learn to use information from digital sources responsibly, cite sources correctly using MLA format, and apply standard grammar and punctuation in their writing. Students will work towards composing a formal letter of complaint, paraphrasing and evaluating sources for credibility, addressing both sides of a controversial topic.


Course # 132000	Course Name: CITS College Composition	*Also available through AEO
	Prerequisite: 3.0 GPA Required for College Credit, Commitment Agreement (Appendix E)	Credits: .5
	Meets Graduation Requirement: ELECTIVE / ENGLISH 12	Sem: 1 or 2
Grades: 12	College Credit: UMD - WRIT 1120 College Writing (3 cr)	

Course Description: In this accelerated course, students will analyze their own and others' texts to demonstrate knowledge and articulate the rhetorical situation and how the texts address the situation; employ rhetorical choices appropriate to specific writing situations; locate and evaluate sources, and apply citation conventions systematically and appropriately for the rhetorical situation; use an iterative and collaborative process to assess instructor, self, group, and peer critique of drafts in order to rewrite texts.

English Language Arts, continued

GRADE 12: continued


NOTE: While some of these courses are open to juniors to request, priority is given to seniors. You may also request additional courses for elective credit.

Course # 132100	Course Name: Creative Writing <i>*Also available through AEO</i>	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE / ENGLISH 12	Sem: 1 or 2
Grades: 11 12		


Course Description: This course allows creative students to explore various forms of writing, including short stories, poems, and screenplays. Students will develop their writing process through drafting, revising, and editing, while also learning to provide constructive feedback and refine their understanding of grammar, language, and word choice.

Course # 132200	Course Name: Interpersonal Communication	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE / ENGLISH 12	Sem: 1 or 2
Grades: 11 12	<i>Note: This course is not on the NCAA approved ELA courses list.</i>	


Course Description: This course focuses on enhancing students' ability to analyze and evaluate information from diverse sources, including visual, quantitative, and oral presentations. Students will learn to assess a speaker's perspective and rhetorical techniques, while also developing their own presentation skills to effectively convey information and engage an audience.

Course # 132300	Course Name: Public Speaking	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE / ENGLISH 12	Sem: 1 or 2
Grades: 11 12		

Course Description: This introductory public speaking course focuses on building essential presentation skills. Students will learn to pull together information from various sources and deliver compelling presentations with clear organization, appropriate style, and persuasive supporting evidence.

Course # 131720	Course Name: Diverse Perspectives in Literature	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE / ENGLISH 12	Sem: 1 or 2
Grades: 11 12		

Course Description: This course introduces students to differences in identities and perspectives through works drawn from a wide range of voices and genres. Varied points of view and experiences including those of BIPOC and LGBTQ+ authors will be explored and analyzed, including texts from local authors.



Course # 191710	Course Name: African/African American Literature	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE / ENGLISH 12	Sem: 1 or 2
Grades: 11 12		

Course Description: A course of interdisciplinary engagement through African and African American Literature. Students will engage with a variety of texts and mediums of art and media predominantly produced by Black authors, artists, and creatives. The main objective of the course is to learn about the human condition through the Black experience both nationally and abroad with the intent to explore the plurality of experiences of what it means to be Black, in American and internationally, and discover something about oneself in the learning process.



General Electives

CAREER FIELD:
Courses in this department
apply to a broad base of careers!



Course # 251001-251002	Course Name: Yearbook	
 	Prerequisite: Application Process	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG
Grades: 10 11 12		

Course Description: 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.


Course # 251101-251102	Course Name: Student Government	
 	Prerequisite: Application Process in the spring. Acceptance based on teacher recommendations, academic standing, citizenship, and interview process. Class size is limited.	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG
Grades: 11 12		

Course Description: 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.

Course # 250401-250402	Course Name: Academic Skills for Success	
	Prerequisite: Credit Deficient, Counselor Recommendation	Credits: .5 per semester
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 10 11 12	May be open to 9th graders second semester if spaces are available.	


Course Description: This course is designed to equip high school students with essential skills and strategies for overcoming academic challenges and successfully graduating. It will focus on enhancing academic competencies, developing personal resilience, and fostering a positive mindset toward learning and achievement.

NEW COURSE!




Course # NA	Course Name: Service Learning	*Non-Scheduled Course through Community Ed
 Community Education	Prerequisite: None	Credits: .5 - 1.0
	Meets Graduation Requirement: Elective	Sem: 1 (complete in 2)
Grades: 9 10 11 12	Participation is Limited. Interested students should schedule a meeting with their school counselor to participate.	

Course Description: Connect to your passions, make your voice heard, and better our community through Service Learning! This 16-module course offers hands-on experience with a local organization aligned with your interests, combined with online discussions and reflection. Explore community needs, develop civic skills, actively contributing to positive change. Your unique perspective drives this impactful learning. May repeat one time for an additional .5 credit. 90 hours (30 hours reflection/prep/discussions & 60 hours in service work) equals .5 credits. Course is added to the transcript upon completion and is Pass/Fail. Sign up for one half-credit per year. Each .5 credit must be completed during the following 32 weeks.






Course # 140000	Course Name: Health	*Also available through AEO
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: HEALTH	Sem: 1 or 2
Grades: 10 11 12	Certificate: Opportunity to earn CPR Certification	

Course Description: 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. Students use problem-solving, research, goal-setting, and communication skills to protect their health and that of the community. *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.)*

Course # 151221	Course Name: CITS Medical Occupations	
  	Prerequisite: Biology, Commitment Required	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: 1 2 Period Block Class
Grades: 11 12	College Credit: LSC, ALTH 1400 - Intro to Allied Health (1 cr), ALTH 1410 - Medical Terminology (2 cr)	

Course Description: 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, and demonstrate competence in communication and problem-solving.




Course # 151322	Course Name: CITS Intro to Nursing	
  	Prerequisite: Medical Occupations (Commitment Required, Background Check and Mantoux screening prior to clinicals)	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: 1 2 Period Block Class
Grades: 11 12	College Credit: LSC, NUNA 1420 Nursing Assistant (4 cr)	

Certification: Students will have the opportunity to become registered as a Nursing Assistant and may earn the Am Heart Assoc Healthcare Provider Basic Life Support Certification for CPR/AED

***NOTE:** To take this for college credit, a student must have earned at least 80% on assessment scores in CITS Med Occ.

Course Description: This course meets the criteria necessary for entry-level employment as a Nursing Assistant and serves as an introduction to the medical/nursing career pathway for students who decide to advance in the medical/nursing careers. 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 to be registered as a Nursing Assistant and Home Health Aide, have the opportunity to acquire 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.





Course # 151100	Course Name: Emergency Medical Response (EMR)	
  	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 11 12	College Credit: Articulated credit may be applied for students who go on to attend LSC. LSC may grant credit in ALTH 1430 (1 cr) First Aid & CPR/AED for Healthcare Professionals	
Certificate: Opportunity to earn EMR Certification		




Course Description: This course is an introduction to Emergency Medical Service (EMS) careers. 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.





Health Sciences Technology, Continued

Course # 222301-222302	Course Name: Human Anatomy & Physiology <i>*Also available through AEO</i>	
 	Prerequisite: Biology	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG
Grades: 11 12		

Course Description: 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.



Course # 222401-222402	Course Name: CITS Human Anatomy & Physiology	
  	Prerequisite: Biology or Honors Biology & Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG
Grades: 11 12	College Credit: LSC - BIOL 1005 Intro to Cell Biology (1 cr) and BIOL 1140 Human Anatomy & Physiology 1 (4 cr)	

Course Description: 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. 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.



Course # 232420	Course Name: Forensic Science	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 10 11 12		

Course Description: Provides an overview of the theoretical understanding and practical application of forensic science techniques. Topics typically include genetics, anthropology, toxicology, entomology, ballistics, pathology, computer forensics, fire debris and trace evidence among others. The course also includes blood spatter analysis, fingerprinting, and psychological analysis. Students will investigate theatrical crime scenes and get real world training in evidence processing and analysis.

CONTENT WARNING: This course contains content that may be difficult for some to confront or discuss in crime scenes, images, and labs. Additional support can be provided for those interested in the course but may have personal difficulty with some subjects.

Course # 151201	Course Name: Emergency Medical Technician 1 (EMT 1)	
 	Prerequisite: EMR	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: 1 (2 Pd Block Class)
Grades: 11 12		

Course Description: The EMT 1 course is focused on development of the EMT's critical role as a team member during patient crisis situations. It is an entry level certification in the Emergency Medical Services career field. The program follows the current Dep't of Transportation EMT curriculum including instruction in precise patient assessment and management and trauma and medical emergencies, airway management, resuscitation and pharmacological interventions. EMT 1 is the first half of the National EMT curriculum for certification as a Nationally Registered Emergency Medical Technician. 10 lab/service learning hours are required as a part of the course.

Course # 151202	Course Name: Emergency Medical Technician 2 (EMT 2)	
 	Prerequisite: Successful completion of EMT 1	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: 1 (2 Pd Block Class)
Grades: 11 12		

Certificate: Opportunity to earn **EMT Certification**



Course Description: EMT 2 is the second half of training to meet the new National EMS Education Standards for the Emergency Medical Technician (EMT). Students must take EMT 1 in conjunction with EMT 2. This course includes assessment-based education and medical interventions. Ambulance calls will be staged for students on a routine basis. Opportunities for ride alongs and job shadows will be sought. Students will apply their skills by working simulated emergencies and how to learn from and network with healthcare, fire, and law enforcement professionals. 10 lab/service learning hours are required as part of the course.





Hospitality Careers: Culinary

CAREER FIELD:
Human Services






Course # 160000	Course Name: ProStart 1: Foundations of Culinary Arts	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: This course is structured to expose students to the foundations of culinary arts and the foodservice industry. Students will be introduced to basic concepts of culinary techniques, learn how to safely use 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. [ProStart](#) is a nationwide program for high school students that focuses on developing the next generation of restaurant and foodservice leaders. The program is industry-driven, [combining culinary arts and restaurant management training](#) to build practical skills.

Course # 160040	Course Name: ProStart 2: Advanced Foundations of Culinary Arts and Management	
 	Prerequisite: ProStart 1 with 70% or higher	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2 2 Period Block Class
Grades: 10 11 12	Credential/Certificate: Opportunity to earn ServeSafe Manager credential	

**Repeatable: May be taken more than once for additional credit*

Course Description: This is a course for students who aspire to have a career in the industry or increase their self-efficacy in the kitchen and management skills. Topics include safety and sanitation, advanced culinary skills and techniques, and the opportunity to prepare and serve your delicious creations. Students in this course will also have a chance to compete in culinary skills competitions. Students who take this course should be highly motivated and dedicated. [ProStart](#) is a nationwide program for high school students that focuses on developing the next generation of restaurant and foodservice leaders. The [program is industry-driven, combining culinary arts and restaurant management training](#) to build practical skills. ProStart provides students a platform to discover new interests while highlighting successful career opportunities across the industry.

Course # 160060	Course Name: ProStart 3: School Cafe & Bakery SBE	
  	Prerequisite: ProStart 1 or 2 with 70% or higher	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2 2 Period Block Class
Grades: 10 11 12	Credential/Certificate:	

**Repeatable: May be taken more than once for additional credit*





Course Description: Designed for students who have a foundational understanding of the hospitality industry and wish to deepen their knowledge and skills. Students will focus on advanced principles of restaurant operations, customer service strategies, event management, while catering events, running the student cafe and bakery, and competing in the Minnesota ProStart Invitational. Operations may include managing budgets, coordinating complex events, and designing innovative guest experiences while exploring leadership roles within the culinary and hospitality industries.





Mathematics (3.0 cr required)


CAREER FIELD:
Engineering, Manufacturing,
& Technology / STEM



Department Course Progression Map


Intermediate Algebra  Geometry  Algebra II  CITS PreCalc  CITS Calculus

Interm Alg in Grade 8  Geometry 9  Alg II Concepts  Prob & Stats  CITS Calculus


Course # 181001-181002	Course Name: Intermediate Algebra	<i>*Also available through AEO</i>
	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: MATH	Sem: YEAR LONG
Grades: 9 10 11 12		

Course Description: 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.


Mathematics, continued

Course # 181401-181402	Course Name: Geometry	*Also available through AEO
	Prerequisite: Intermediate Algebra	Credits: 1.0
	Meets Graduation Requirement: MATH	Sem: YEAR LONG
Grades: 9 10 11 12		


Course Description: 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 problems.

Course # 181601-181602	Course Name: Algebra 2	*Also available through AEO
	Prerequisite: Intermediate Algebra, Geometry, or may be concurrent with Geometry	Credits: 1.0
	Meets Graduation Requirement: MATH	Sem: YEAR LONG
Grades: 10 11 12		



Course Description: 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.

Course # 181501-181502	Course Name: Algebra 2 Concepts	
	Prerequisite: Intermediate Algebra, Geometry	Credits: 1.0
	Meets Graduation Requirement: MATH	Sem: YEAR LONG
Grades: 10 11 12	<i>Note: This course is not on the NCAA approved math courses list.</i>	

Course Description: 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.

Course # 181651-181652	Course Name: Probability and Statistics	*Also available through AEO
	Prerequisite: Algebra 2 or Algebra 2 Concepts	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG
Grades: 11 12		



Course Description: 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.

EHS/AEO # 181701-181702	Course Name: CITS Pre-Calculus	*Also available through AEO
DHS # 181701UMD-181702UMD		
 	Prerequisite: Algebra 2	Credits: 1.0
	Meets Graduation Requirement: MATH	Sem: YEAR LONG
Grades: 11 12	East/AEO College Credit: LSC, MATH 1150 - Pre-Calculus (4cr)	
	Denfeld College Credit: MATH 1250 - Pre-Calculus Analysis (4cr)	

Course Description: 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.

**Note that the CITS credit comes from two different colleges based on instructor credentialing constraints. Please use the appropriate course numbers when registering.*


Mathematics, continued


Course # 181801-181802	Course Name: AP CITS Calculus	<i>*Also available through AEO</i>
 	Prerequisite: Pre-Calculus and Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: MATH	Sem: YEAR LONG
Grades: 12	College Credit: UMD, MATH 1296 - Calculus 1 (4 cr)	

Course Description: 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 have the option to take the AP Exam in May. Topics of study include: limits, logarithmic, exponential, and other transcendental functions, differentiation and integration.


***AP= Advanced Placement courses follow curriculum set by the College Board. Students may take a national AP Exam in May each year for potential college credit.**

Music


CAREER FIELD:
Arts, Communications,
& Information Systems 

Course #191203-191204	Course Name: Pop, Rock and Hip Hop	<i>*Also available through AEO</i>
	Prerequisite: None	Credits: .5 per semester
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: 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.

Course #191210	Course Name: Introduction to Guitar	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 9 10 11 12		


Course Description: 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.

Course #191220	Course Name: Advanced Guitar	
	Prerequisite: Intro to Guitar OR Previous Experience Playing Guitar	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 9 10 11 12		

***Repeatable: May be taken more than once for additional credit**


Course Description: 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.

Music, continued


Course #191401-191402	Course Name: Unified Music	
	Prerequisite: Instructor Approval	Credits: .5
	Meets Graduation Requirement: ARTS	Sem: 1 or 2
Grades: 10 11 12		

***Repeatable: May be taken more than once for additional credit**

Course Description: This music course offers an exploratory music experience for students with varied and unique needs. Students will investigate the elements of music by listening and responding, performing and creating. Students will have opportunities to sing and play instruments with accommodations provided as needed. This class will be designed from various perspectives based on school setting, but will follow the Unified Music format in which grade level partner students assist with the learning of music concepts and skills.


Course #190001-190002	Course Name: 9th Grade Band	
	Prerequisite: Previous Instrumental Study and/or Director Approval and Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 9	*Note: Requires attendance at afternoon/evening events. COMMITMENT AGREEMENT?	

Course Description: 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.

Course #191001-191002	Course Name: Intermediate Band	
	Prerequisite: Previous Instrumental Study and Audition, Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	*Note: Requires attendance at afternoon/evening events.	


***Repeatable: May be taken more than once for additional credit**

Course Description: 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.

Course #191101-191102	Course Name: Advanced Band	
	Prerequisite: Audition, Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	*Note: Requires attendance at afternoon/evening events.	

***Repeatable: May be taken more than once for additional credit**


Course Description: 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.

Course #191301-191302	Course Name: Jazz Ensemble	
	Prerequisite: Audition, Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	*Note: Requires attendance at afternoon/evening events.	


***Repeatable: May be taken more than once for additional credit**

Course Description: 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.

Music, continued


Course #191451-191452	Course Name: 9th Grade Choir	
	Prerequisite: Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 9	<i>*Note: Requires attendance at afternoon/evening events.</i>	

Course Description: 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.

Course #191601-191602	Course Name: Intermediate Mixed Choir (East)	
	Prerequisite: Audition, Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	<i>*Note: Requires attendance at afternoon/evening events.</i>	


**Repeatable: May be taken more than once for additional credit*

Course Description: 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.

Course #191701-191702	Course Name: Advanced SSA Choir (Soprano I, Soprano II, Alto)	
	Prerequisite: Audition, Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	<i>*Note: Requires attendance at afternoon/evening events.</i>	


**Repeatable: May be taken more than once for additional credit*

Course Description: 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.

Course #191801-191802	Course Name: Show/Jazz Choir (Denfeld)	
	Prerequisite: Audition, Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	<i>*Note: Requires attendance at afternoon/evening events.</i>	

**Repeatable: May be taken more than once for additional credit*


Course Description: 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.

Course #191901-191902	Course Name: Advanced Concert Choir	
	Prerequisite: Audition, Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	<i>*Note: Requires attendance at afternoon/evening events.</i>	

**Repeatable: May be taken more than once for additional credit*


Course Description: 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.

Music, continued


Course #192001-192002	Course Name: Chamber Choir	(East)
	Prerequisite: Audition, Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	<i>*Note: Requires attendance at afternoon/evening events.</i>	

**Repeatable: May be taken more than once for additional credit*

Course Description: 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.


Course #192101-192102	Course Name: 9th Grade Orchestra	
	Prerequisite: Previous Instrumental Study and/or Director Approval, Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 9	<i>*Note: Requires attendance at afternoon/evening events.</i>	

Course Description: 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.

Course #192201-192202	Course Name: Concert Orchestra	
	Prerequisite: Audition	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	<i>*Note: Requires attendance at afternoon/evening events.</i>	


**Repeatable: May be taken more than once for additional credit*

Course Description: 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.

Course #192301-192302	Course Name: Symphony Orchestra	
	Prerequisite: Audition	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	<i>*Note: Requires attendance at afternoon/evening events.</i>	

**Repeatable: May be taken more than once for additional credit*

Course Description: 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.

Course #192401-192402	Course Name: Chamber Orchestra	
	Prerequisite: Audition	Credits: 1.0
	Meets Graduation Requirement: ARTS	Sem: YEAR LONG
Grades: 10 11 12	<i>*Note: Requires attendance at afternoon/evening events.</i>	

**Repeatable: May be taken more than once for additional credit*

Course Description: 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 (.5 cr required)

CAREER FIELD:
 Courses in this department
 apply to a broad base of careers!



Course # 210000	Course Name: Foundations of Physical Education <i>*Also available through AEO</i>	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: PE	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: 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.


Course #211100	Course Name: Personal Fitness 1 <i>*Also available through AEO</i>	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: PE	Sem: 1 or 2
Grades: 9 10 11 12		

**Repeatable: May be taken more than once for additional credit*

Course Description: 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.

Course #211600	Course Name: Personal Fitness 2	
	Prerequisite: Personal Fitness 1	Credits: .5
	Meets Graduation Requirement: PE	Sem: 1 or 2
Grades: 10 11 12		

Course Description: 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.


Course #211200	Course Name: CITS Resistance Training	
	Prerequisite: Foundations of Physical Education or Personal Fitness 1	Credits: .5
	Meets Graduation Requirement: PE	Sem: 1 or 2
Grades: 11 12	College Credit: UMD - PE1616 Resistance Training (1 cr)	

Course Description: 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.

Course #211300	Course Name: Lifetime Activities & Team Sports	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: PE	Sem: 1 or 2
Grades: 10 11 12		

Course Description: 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.

Physical Education, continued

Course #211500	Course Name: Unified Physical Education	
 Special Olympics Unified Schools	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: PE	Sem: 1 or 2
Grades: 10 11 12		

**Repeatable: May be taken more than once for additional credit*

Course Description: 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.

Course # 210100	Course Name: Global and Indigenous Sports	
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: PE	Sem: 1 or 2
Grades: 9 10 11 12		

Course Description: This course introduces the relationship between sports and culture. Students will learn about and reflect on how various cultures, including Indigenous communities, have created and participate in sports. Students will have the opportunity to participate in sports and games played from around the world while learning about them

Course # 210200	Course Name: Interscholastic Officiating	*ONLY Available through AEO
	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 10 11 12		

Course Description: This course is online only offered through AEO. Students will complete multiple components of the NFHS Interscholastic Officiating course. In addition to officiating, training will include concussion, bullying, sportsmanship, implicit bias, sudden cardiac arrest, responding to a collapsed student, understanding vaping, and heat illness prevention. Students will participate in virtual seminars and focus their officiating training on 3 specific activities (options include sports and fine arts). Field work will be required for the 3 focus activities where students will be assigned to current officials to shadow. Students will complete all MSHSL certification requirements for at least 1 sport or activity. Upon compilation students will be eligible for hire to officiate MSHSL certified activities by area schools.

Science (3.0 cr required)

CAREER FIELD:
 Engineering, Manufacturing,
 & Technology / STEM



Department Course Requirements Progression Map

Earth and Space Science



Biology


Honors Biology



Chemistry, or Intro to Chemistry, or CITS Chemistry
 OR


Physics, Aerospace Physics, or Intro to Physics, or CITS Physics

GRADE 9: Required 1.0 Science


Course # 220011-220012	Course Name: Earth and Space Science	*Also available through AEO
	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: SCIENCE	Sem: YEAR LONG
Grades: 9		

Course Description: In Earth and Space, you will learn and explore the interrelationships between the earth, air, space, life, and water. You will learn using a combination of lab investigations, modeling, reading, and data interpretation. This course also focuses on the practices of science and engineering as well as learning several concepts scientists use to discover new ideas and explanations. Topics include Earth's water and its atmosphere, the process and geology and Earth's history, human impact on the environment, and space science. This course prepares students to be scientifically literate as well as prepare them for future courses in biology and other science classes. Earth and Space Science is a required course for graduation.

GRADE 10: Required 1.0 Science Credit Options


Course # 221101-222102	Course Name: Biology	<i>*Also available through AEO</i>
	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: SCIENCE	Sem: YEAR LONG
Grades: 10		

Course Description: 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: life's chemicals, interaction of cells to sustain life, ecology, heredity and the inheritance of traits, and evolution and diversity. 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.


Course # 221901-221902	Course Name: Honors Biology	
	Prerequisite: Commitment Agreement Required	Credits: 1.0
	Meets Graduation Requirement: SCIENCE	Sem: YEAR LONG
Grades: 10		

Course Description: 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.

GRADE 11 and 12: Science Options to meet the Physics or Chemistry 1.0 Requirement

Course # 222601-22602	Course Name: Introductory Chemistry	
	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: SCIENCE	Sem: YEAR LONG
Grades: 11 12		



Course Description: 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.

Course # 222701-222702	Course Name: Chemistry	<i>*Also available through AEO</i>
	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: SCIENCE	Sem: YEAR LONG
Grades: 11 12		


Course Description: 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.

Science, continued



GRADE 11 and 12, continued

Course # 222801-222802	Course Name: CITS Chemistry	
 	Prerequisite: 1 yr HS Science and 1 yr Algebra or equivalent, Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: SCIENCE	Sem: YEAR LONG
Grades: 11 12	College Credit: FDLTCC - CHEM 1010 General Chemistry (5 cr)	


Course Description: 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.

Course # 222951-222952	Course Name: Introductory Physics	
	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: SCIENCE	Sem: YEAR LONG
Grades: 11 12		



Course Description: 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.

Course # 222941-222942	Course Name: Aerospace Physics	
 	Prerequisite: None	Credits: 1.0
	Meets Graduation Requirement: SCIENCE	Sem: YEAR LONG
Grades: 11 12		

Course Description: Aerospace Physics is a hands-on, applied course where students learn the concepts of Physics through the exploration of Aerospace Engineering and Design. 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.

Course # 223001-223002	Course Name: Physics	*Also available through AEO
	Prerequisite: Geometry	Credits: 1.0
	Meets Graduation Requirement: SCIENCE	Sem: YEAR LONG
Grades: 11 12		



Course Description: 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.




EHS # 223101-223102	Course Name: CITS Physics	
DHS # 223101UMD-223102UMD		
 	Prerequisite: Completion of or current enrollment in Algebra 2	Credits: 1.0
	Meets Graduation Requirement: SCIENCE	Sem: YEAR LONG
Grades: 11 12	EHS College Credit: FDLTCC - PHYS 1001 Introduction to Physics (4 cr)	
	DHS College Credit: UMD - PHYS 1001 Introduction to Physics (5 cr)	

Course Description: 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.



**Note that the CITS credit comes from two different colleges based on instructor credentialing constraints. Please use the appropriate course numbers when registering.*

GRADE 11 and 12, continued

Course # 222301-222302	Course Name: Human Anatomy & Physiology	*Also available through AEO
 	Prerequisite: Biology	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG
Grades: 11 12	Course Description: 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.	

Course # 222401-222402	Course Name: CITS Human Anatomy & Physiology	
  	Prerequisite: Biology or Honors Biology & Commitment Agreement	Credits: 1.0
	Meets Graduation Requirement: ELECTIVE	Sem: YEAR LONG
Grades: 11 12	College Credit: LSC - BIOL 1005 Intro to Cell Biology (1 cr) and BIOL 1140 Human Anatomy & Physiology 1 (4 cr)	

Course Description: 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. 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.

Course # 232420	Course Name: Forensic Science	
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 10 11 12		

Course Description: Provides an overview of the theoretical understanding and practical application of forensic science techniques. Topics typically include genetics, anthropology, toxicology, entomology, ballistics, pathology, computer forensics, fire debris and trace evidence among others. The course also includes blood spatter analysis, fingerprinting, and psychological analysis. Students will investigate theatrical crime scenes and get real world training in evidence processing and analysis.

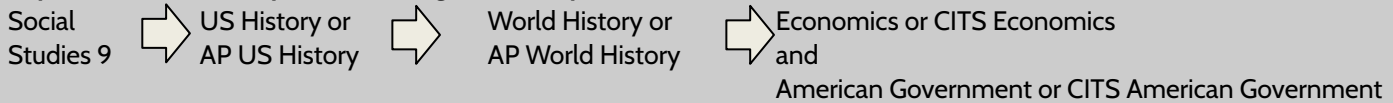
CONTENT WARNING: This course contains content that may be difficult for some to confront or discuss in crime scenes, images, and labs. Additional support can be provided for those interested in the course but may have personal difficulty with some subjects.

Social Studies (3.5 Required)

CAREER FIELD:
Courses in this department
apply to a broad base of careers!



Department Course Requirements Progression Map



GRADE 9: Social Studies Requirement


Course # 230020	Course Name: Social Studies 9	<i>*Also available through AEO</i>
NEW COURSE! >>>>>	Prerequisite: none	Credits: .5
	Meets Graduation Requirement: Social Studies	Sem: 1 or 2
Grades: 9		

Course Description: Through the application of spatial concepts, students will explore human social organization and its impacts. Using geographic tools and methods, students will gain insight into the geographic considerations involved in everyday decisions and trends, including *immigration and citizenship and elections*. Students will also analyze the role of geography in current events and discuss its relation to civic engagement and participation.

GRADE 10: Social Studies Requirement Options

Course # 231001-231002	Course Name: United States History	<i>*Also available through AEO</i>
	Prerequisite: none	Credits: 1.0
	Meets Graduation Requirement: Social Studies	Sem: YEAR LONG
Grades: 10		

Course Description: This course is an examination of contemporary United States history, starting with the turn of the 20th century. This class examines cultural, social, economic, and political contexts of American society and international relations pre-World War II and into the modern era. Historical events viewed through various lenses of diverse perspectives and resources will provide students with context for current issues.

Course # 231101-231102	Course Name: AP United States History	
	Prerequisite: Commitment Agreement Required	Credits: 1.0
	Meets Graduation Requirement: Social Studies	Sem: YEAR LONG
Grades: 10	College Credit: Varies based on AP Exam score and college of admission	

Course Description: Students' analytical skills and factual knowledge will be challenged in order to address issues throughout United States history. This course prepares students for intermediate and advanced college courses by developing students' ability to build informed and defensible arguments based on evidence. The time span addressed in the course includes America pre-contact to the present era. The course also prepares students to take the College Board AP US History test.


***AP= Advanced Placement courses follow curriculum set by the College Board. Students may take a national AP Exam in May each year for potential college credit.**

Social Studies, continued

GRADE 11: Social Studies Requirement Options

Course # 231301-231302	Course Name: World History	<i>*Also available through AEO</i>
	Prerequisite: none	Credits: 1.0
	Meets Graduation Requirement: Social Studies	Sem: YEAR LONG
Grades: 11		

Course Description: Students will develop an overview of human history from the development of early civilizations through the twentieth century. An emphasis on developments in religion, philosophy, arts, sciences, technology, and governments will provide a framework to examine and compare regions of the world throughout history and time. Interactions among regions from the development of nation-states through the modern era will also be examined.

Course # 231401-231402	Course Name: AP World History	
	Prerequisite: Commitment Agreement Required	Credits: 1.0
	Meets Graduation Requirement: Social Studies	Sem: YEAR LONG
Grades: 11	College Credit: Varies based on AP Exam score and college of admission	


Course Description: Prehistory to the present era will be examined through a combination of factual knowledge and analytical skills. The course compares major societies and international frameworks through geographical, cultural, institutional, and technological lenses. Themes such as continuity and change over time provide a multi-faceted structure to this rigorous course. The course also prepares students to take the College Board AP US History test.

***AP= Advanced Placement courses follow curriculum set by the College Board. Students may take a national AP Exam in May each year for potential college credit.**

GRADE 12: Social Studies Requirement Options

Course # 231500	Course Name: American Government & Politics	<i>*Also available through AEO</i>
	Prerequisite: none	Credits: .5
	Meets Graduation Requirement: Social Studies	Sem: 1 or 2
Grades: 12		

Course Description: This course will provide students with an understanding of the functions and organization of federal, state, tribal, and local systems of government. Emphasis will be placed on electoral processes, including voter eligibility and registration and critical consumption of information. Attention will also be given to government processes in various branches of government and limitations on government through the US Constitution.

EHS # 231600	Course Name: CITS American Government & Politics	
DHS # 231600UMD		
	Prerequisite: Commitment Agreement Required	Credits: .5
	Meets Graduation Requirement: Social Studies	Sem: 1 or 2
Grades: 12	EHS College Credit: FDLTCC, POLS 1010 American Government (3 cr)	
	DHS College Credit: UMD POL 1011 American Government and Politics (3 cr)	

Course Description: Students will assess the structure and function of the national government of the United States, as well as state, tribal, and local governments. The course also addresses powers and limits of the presidency, Congress, and federal courts. Other themes include: impact of individuals and interest groups, political parties, and the media upon elections and policy.


***Note that the CITS credit comes from two different colleges based on instructor credentialing constraints. Please use the appropriate course numbers when registering.**

Course # 231700	Course Name: Economics	<i>*Also available through AEO</i>
	Prerequisite: none	Credits: .5
	Meets Graduation Requirement: Social Studies	Sem: 1 or 2
Grades: 12		

Course Description: 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 that contribute to economic decision-making.

Social Studies, continued

GRADE 12: continued


Course # 231800	Course Name: CITS Economics	
	Prerequisite: Commitment Agreement Required	Credits: .5
	Meets Graduation Requirement: Social Studies	Sem: 1 or 2
Grades: 12	College Credit: UMD, ECON 1003 Economics & Society (3 cr)	

Course Description: Microeconomic content in this course includes fundamental economic concepts and principles such as the nature and function of product markets, market failures, and other factors in economic decision-making. 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.

Grades 11 and 12: Social Studies Electives

Course # 231900	Course Name: Psychology	<i>*Also available through AEO</i>
	Prerequisite: none	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 11 12		


Course Description: Psychology is the study of individual human behavior and processes of the brain. Students will examine the different types of psychological study and the human mind. Topics to be explored include sensation and perception, basic processes of learning, personality and memory.

Course # 232000	Course Name: CITS General Psychology	
	Prerequisite: Commitment Agreement Required	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 11 12	College Credit: FDLTCC, PSYC 2001 General Psychology (4 cr)	

Course Description: This course will provide students with an introduction to the scientific study of human behavior with an emphasis on research methods and design. The structures and functions of the brain and nervous system provide a foundation for theories on psychological principles such as sensation, perception, memory, identification of disorders and approaches to therapy.


Course # 232100	Course Name: Sociology	<i>*Also available through AEO</i>
	Prerequisite: none	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 11 12		

Course Description: 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.

Course # 232200	Course Name: CITS Sociology	
	Prerequisite: Commitment Agreement Required	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 11 12	College Credit: UMD, SOC 1101 Intro to Sociology (4 cr)	

Course Description: Application of concepts of sociology will provide a better understanding of social life. Students will assess frameworks used to view societies and the patterns and problems within them. Research and reading in sociological methods, systems, and forces that impact human behavior are major components in this course.



Grades 11 and 12: Social Studies Electives, continued

Course # 231220	Course Name: CITS Anishinaabeg of Lake Superior	
	Prerequisite: Commitment Agreement Required	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 11 12	College Credit: FDLTCC, AMIN 1050 Anishinaabeg of Lake Superior (3 cr)	




Course Description: This course is designed to familiarize students with the indigenous people of the Lake Superior region: the Ojibwe-Anishinaabe. Exploring the philosophical and social changes that occurred as a result of contact and colonization, topics range from pre-contact to the activism of the 60's. Among the topics covered are philosophy, the oral tradition, migration to the Great Lakes region, fur trade, assimilation policies, the federal trust responsibility and sovereignty.

Course # 231210	Course Name: Ethnic Studies	<i>*Also available through AEO</i>
	Prerequisite: none	Credits: .5
	Meets Graduation Requirement: Elective	Sem: 1 or 2
Grades: 11 12		

Course Description: This Ethnic Studies course will help students examine identity, heritage, culture and communities in relation to various power structures, forms of oppression and inequities that impact their lives. Students will explore literature, art, and historical events from diverse perspectives to foster understanding and appreciation of multiculturalism.

Course # 232300	Course Name: Civil and Criminal Law	<i>*Also available through AEO</i>
 	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 11 12		

Course Description: 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. By analyzing scenarios and cases, students will be able to apply concepts such as due process protections, analyzing evidence, phases of civil and criminal trials, and standards of proof.

Course # 232400	Course Name: CITS Civil and Criminal Law	
  	Prerequisite: None	Credits: .5
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2
Grades: 11 12	College Credit: FDLTCC, LAWE 1005 Seeking Careers in Criminal Justice (3 cr)	

Course Description: Students will analyze civil and criminal justice systems in order to understand the conflicting values that impact United States justice systems. Through case studies and current issues students will be able to apply Constitutional concepts, case law, and standards of proof to historical and contemporary cases.

An important note about Spanish, German, and College Credits:

Over the course of the next two years (25-26 and 26-27) we will be transitioning our College In The Schools credits for German and Spanish to be in alignment with other area high schools and to meet the needs of students who can no longer take German 1 or Spanish 1 for high school credit in middle school.

*Remember that these courses will only be scheduled if there are sufficient numbers of students requesting. CITS availability may be limited by staff availability.

*There are no changes needed for Ojibwemowin.

*As students move through American Sign Language we will evaluate opportunities for CITS credits.

26-27 School Year Changes (Level 5 course includes 1202 only then phased out):

- CITS Spanish 5 - students earn 4 credits from UMD for SPAN 1202 Intermediate Spanish II
- CITS American Sign Language 3: Our ability to offer this course will be based on sufficient enrollment and our ability to secure a college credentialed instructor.


World Languages

CAREER FIELD:
Courses in this department
apply to a broad base of careers!




Course #243101-243102	Course Name: American Sign Language 1	
	Prerequisite: none	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 9 10 11 12		

Course Description: American Sign Language (ASL) is one of the fastest growing languages in the United States and is the indigenous language of the Deaf community. ASL is a natural, visual, non-spoken language with its own distinct grammatical structure. The shape, movement, and location of the hands, facial expressions and body are used to communicate with one another. ASL as a visual language, uses a different modality of communication compared to spoken languages.

Course #243201-243202	Course Name: American Sign Language 2	
	Prerequisite: American Sign Language 1	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 10 11 12	College Credit: Varies based on participation and score in Bilingual Seals Testing and college of admission	

Course Description: American Sign Language 2 continues the study of American Sign Language (ASL) by developing students' intermediate communication skills. Building on the ASL 1 foundation, this course will enhance students' proficiency in comprehension and expressive skills through more complex conversations, storytelling, and interactive dialogues. Emphasis will be placed on refining grammatical structures, expanding vocabulary, and deepening cultural awareness of Deaf communities. Additionally, students will be introduced to various forms of ASL literature, including narratives and poetry, to appreciate ASL as both a language and a cultural expression.

Course #243301-243302	Course Name: CITS American Sign Language 3	
	Prerequisite: American Sign Language 2	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 10 11 12	College Credit: TBD	

Course Description: American Sign Language 3 continues the study of American Sign Language (ASL) by developing students' intermediate communication skills. Building on the ASL 2 foundation, this course will expand vocabulary base in ASL. Includes an in-depth study of the principles of American Sign Language as used receptively and expressively in communication with deaf individuals.


World Languages, continued

Course #240001-240002	Course Name: German 1	
	Prerequisite: none	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 9 10 11 12		


Course Description: This course is designed for students with limited to no knowledge of the German language and students who have taken German 1a or exploratory language in middle school. 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 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.

Course #241001-241002	Course Name: German 2	
	Prerequisite: German 1	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 9 10 11 12		


Course Description: 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 ACTFL.

Course #241101-241102	Course Name: German 3	
	Prerequisite: German 2	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 10 11 12	College Credit: Varies based on participation and score in Bilingual Seals Testing and college of admission	

Course Description: 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 ACTFL.


Course #241111-241112	Course Name: CITS German 3	
	Prerequisite: German 2	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 10 11 12	College Credit: UMD, GERM 1102 Beginning German II (4 cr)	

Course Description: CITS German Level 3 parallels the UMD Beginning German II curriculum that cultivates the four areas of language acquisition (speaking, listening, reading, and writing) and fosters the development of intercultural competency. **Students in this level are also eligible but not required to take the assessment for the Minnesota Bilingual Seals Program.**


Course #241201-241202	Course Name: German 4	
	Prerequisite: German 3	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 11 12	College Credit: Varies based on participation and score in Bilingual Seals Testing and college of admission	

Course Description: The focus of German 4 is to develop student proficiency in the Intermediate Proficiency levels as determined by 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.

World Languages, continued

Course #241211-241212	Course Name: CITS German 4	
	Prerequisite: German 3	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 11 12	College Credit: UMD, GERM 1201 Intermediate German I (4 cr)	

Course Description: CITS German Level 4 parallels the UMD Intermediate German I curriculum that consolidates and enriches the four areas of language acquisition (speaking, listening, reading, and writing) and is set within contemporary culture of German-speaking countries. This course further develops students' intercultural competency. **Students in this level are also eligible but not required to take the assessment for the Minnesota Bilingual Seals Program.**

Course #241251-241252	Course Name: CITS German 5	
	Prerequisite: German 4	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 12	College Credit: UMD, GERM 1202 Intermediate German II (4 cr)	


Course Description: 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 also eligible but not required to take the assessment for the Minnesota Bilingual Seals Program.**

Course #241301-241302	Course Name: Spanish 1	<i>*Also available through AEO</i>
	Prerequisite: none	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 9 10 11 12		

Course Description: This course is designed for students with limited to no knowledge of the Spanish language and students who have taken Spanish 1a or exploratory language in middle school. 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 American Council on the Teaching of Foreign Languages.


Course #241401-241402	Course Name: Spanish 2	<i>*Also available through AEO</i>
	Prerequisite: Spanish 1	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 9 10 11 12		

Course Description: 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 ACTFL.


Course #241501-241502	Course Name: Spanish 3	<i>*Also available through AEO</i>
	Prerequisite: Spanish 2	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 10 11 12	College Credit: Varies based on participation and score in Bilingual Seals Testing and college of admission	

Course Description: 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 ACTFL.


World Languages, continued

Course #241511-241512	Course Name: CITS Spanish 3	
	Prerequisite: Spanish 2	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 10 11 12	College Credit: UMD, SPAN 1102 Beginning Spanish II (4 cr)	

Course Description: CITS Spanish Level 3 parallels the UMD Beginning Spanish II curriculum that cultivates the four areas of language acquisition (speaking, listening, reading, and writing) and fosters the development of intercultural competency. **Students in this level are also eligible but not required to take the assessment for the Minnesota Bilingual Seals Program.**

Course #241611-241612	Course Name: CITS Spanish 4	
	Prerequisite: Spanish 3	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 11 12	College Credit: UMD, SPAN 1201 Intermediate Spanish I (4 cr)	

Course Description: CITS Spanish Level 4 parallels the UMD Intermediate Spanish I curriculum that consolidates and enriches the four areas of language acquisition (speaking, listening, reading, and writing) and is set within contemporary culture of Spanish-speaking countries. This course further develops students' intercultural competency. **Students in this level are also eligible but not required to take the assessment for the Minnesota Bilingual Seals Program.**

Course #241701-241702	Course Name: CITS Spanish 5	
	Prerequisite: Spanish 4	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 12	College Credit: UMD, SPAN 1202 Intermediate Spanish II (4 cr)	

Course Description: 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 also eligible but not required to take the assessment for the Minnesota Bilingual Seals Program.**


Course #242301-242302	Course Name: Ojibwemowin 1	
	Prerequisite: none	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 9 10 11 12		

Course Description: 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.

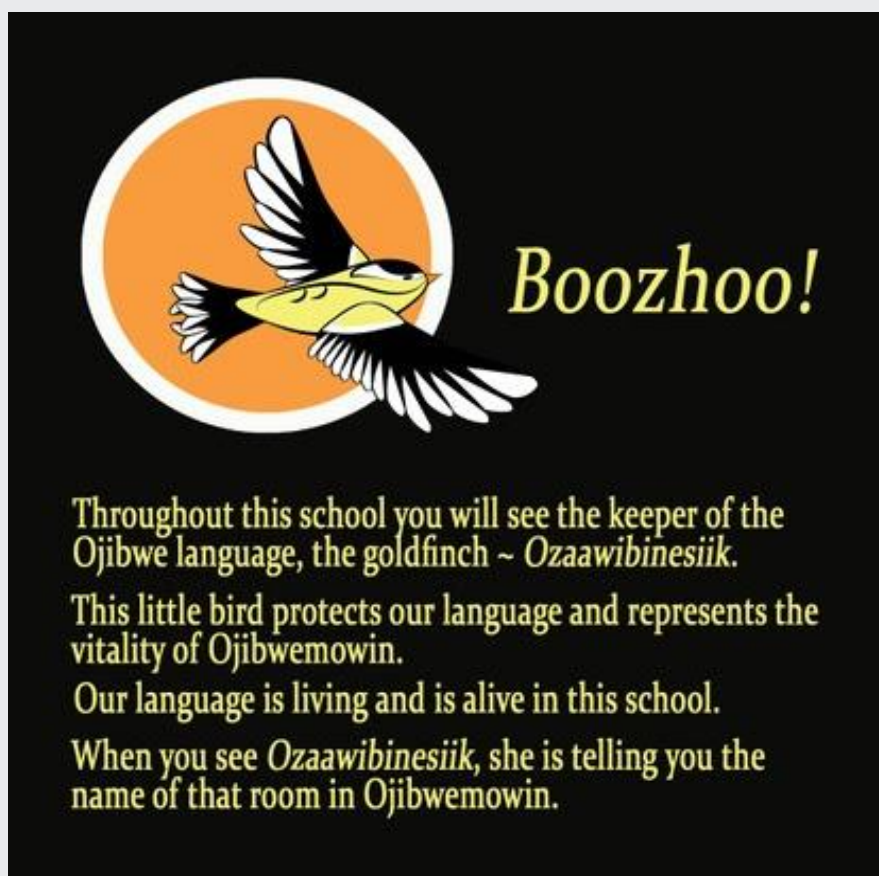
Course #242401-242402	Course Name: Ojibwemowin 2	
	Prerequisite: Ojibwemowin 1	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 10 11 12		

Course Description: 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.

World Languages, continued

Course #241501-241502	Course Name: CITS Ojibwemowin 3	
	Prerequisite: Ojibwemowin 2	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: YEAR LONG
Grades: 11 12	College Credit: FDLTCC, ANSH 1001 Introduction to Anishinaabe Language (4 cr) AND ANSH 1002 Anishinaabe Language II (4 cr)	

Course Description: 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 also eligible but not required to take the assessment for the Minnesota Bilingual Seals Program.**



Look for Ojibwemowin signs in our schools! These signs allow students the opportunity to see the language everyday in a common and familiar environment. Ojibwemowin will become a natural and expected part of the educational experience.



For students of Ojibwe heritage, the addition of Ojibwemowin signage will indicate an appreciation of their heritage and the history of the land on which the school sits, as well as foster a feeling of belonging in the school.

Ojibwemowin is the language of this place and we are excited to have Ozaawibinesiik teach us some of the familiar words in our schools.



Work Experience and CTE Work Based Learning

CAREER FIELD:
Work Based Learning





Course # 250000	Course Name: Futures Seminar 9		<i>*Also available through AEO</i>
 	Prerequisite: None	Credits: .5	
	Meets Graduation Requirement: REQUIRED	Sem: 1 or 2	
Grades: 9	Required of all students enrolled in Duluth Public Schools for their 9th grade year.		

Course Description: This comprehensive seminar is designed to equip students with the academic, professional, and personal skills necessary for success throughout high school and into adulthood. Students will engage in an intensive process of self-discovery, aligning their personal strengths and passions with potential postsecondary and career opportunities.

Course # 250200	Course Name: College, Career, and Life Seminar 11		<i>*Also available through AEO</i>
 	Prerequisite: None	Credits: .5	
	Meets Graduation Requirement: REQUIRED	Sem: 1 or 2	
Grades: 11	Required of all students enrolled in Duluth Public Schools for their 11th grade year.		

Course Description: This course helps students prepare for life after high school by allowing them to analyze their personal strengths and abilities as they relate to career areas of interest and explore all post-secondary opportunities. They will develop career and academic plans and apply skills necessary to excel in the workforce in various settings. Fulfilling the Career Seminar requirement, this course also enables students to enroll in Work Experience courses and earn high school credit for their employment.

Course # 252101-252102	Course Name: Work Experience		
 	Prerequisite: Approval by Instructor, CCLR Seminar 11 or Career Seminar AEO	Credits: .5 or 1.0	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 11 12	This course sits as a placeholder within the 7 period day.		



****Repeatable: May be taken more than once for additional credit***

Course Description: This course offers students a vital opportunity to apply the skills and knowledge acquired in their previous CTE and general education coursework within a professional work environment. The primary goal is to bridge the gap between classroom learning and real-world application in a field directly related to the student's career interests. This course requires students to dedicate time to the work placement. Payment for the experience may or may not be provided, depending on the specific employer and nature of the opportunity. Successful completion is based on meeting the established learning goals and demonstrating growth in professional skills.



Work Experience and CTE Work Based Learning

CAREER FIELD:
Work Based Learning





Course # 252100	Course Name: Career Development Seminar		*ONLY available through AEO
 	Prerequisite: Application Process	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 10 11 12			

Course Description: 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.

Course # 251200	Course Name: Career Development Internship		*ONLY available through AEO
 	Prerequisite: One semester in a related area of internship	Credits: .5	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 10 11 12			

***Repeatable: May be taken more than once for additional credit**

Course Description: 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.

Course # 252101-252102	Course Name: CTE Work Experience		
 	Prerequisite: Approval by Instructor	Credits: .5 or 1.0	
	Meets Graduation Requirement: ELECTIVE	Sem: 1 or 2	
Grades: 11 12	<p>This course is for students being supervised in their experience by the Career and Technical Education Pathway teacher and for students who have participated in coursework within the pathway.</p>		

***Repeatable: May be taken more than once for additional credit**

Course Description: 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. 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. The CTE program area instructor(s) and CTE Principal will help with placement and paperwork completion.

Courses for Students with IEPs

Courses in this section are only for students with

Individualized Education Plans. Requires approval of Case Manager and IEP Teams.

CAREER FIELD:
Courses in this department
apply to a broad base of careers!



Course # 801131-801132	Course Name: Reading and Writing Strategies	
	Prerequisite: IEP Team Determination	Credits: .5 per semester
	Meets Graduation Requirement: Language Arts*	Sem: 1 and/or 2
Grades: 9 10 11 12	*The IEP Team will determine if this course meets the Language Arts Requirement	

Course Description: 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.

Course # 801181-801182	Course Name: Math Strategies	*Also available through AEO
	Prerequisite: IEP Team Determination	Credits: .5 per semester
	Meets Graduation Requirement: Math*	Sem: 1 and/or 2
Grades: 9 10 11 12	*The IEP Team will determine if this course meets the Math Requirement	

Course Description: 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.

Course # 801251-801252	Course Name: Self Advocacy	*Also available through AEO
	Prerequisite: IEP Team Determination	Credits: .5 per semester
	Meets Graduation Requirement: Elective	Sem: 1 and/or 2
Grades: 9 10 11 12		

Course Description: 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.

Course # 801261-801262	Course Name: Transition	*Also available through AEO
	Prerequisite: IEP Team Determination	Credits: .5 per semester
	Meets Graduation Requirement: Elective	Sem: 1 and/or 2
Grades: 9 10 11 12		

Course Description: 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.

Courses for Students with IEPs, continued

Course # 801271-801272	Course Name: Life Skills	
	Prerequisite: IEP Team Determination	Credits: .5 per semester
	Meets Graduation Requirement: Elective	Sem: 1 and/or 2
Grades: 9 10 11 12		

Course Description: 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.

Course # 801281-801282	Course Name: Work Experience	
	Prerequisite: IEP Team Determination	Credits: .5 per semester
	Meets Graduation Requirement: Elective	Sem: 1 and/or 2
Grades: 9 10 11 12		

Course Description: 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.

Course # 801241-801242	Course Name: PAES Lab (1 hour)	
Course # 801291-801292	Course Name: PAES Lab (2 hour block)	
	Prerequisite: IEP Team Determination	Credits: .5 or 1 per sem
	Meets Graduation Requirement: Elective	Sem: 1 and/or 2
Grades: 9 10 11 12		

Course Description: Practical Assessment Exploration System (PAES) is a simulated work assessment and hands-on curriculum lab where students learn by doing work tasks 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 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

Courses for English Language Learners

Courses in this section are only for students who receive support from ELD staff.

CAREER FIELD:
Courses in this department
apply to a broad base of careers!



Course # 252001-252002	Course Name: English Language Development 1	
	Prerequisite: EL Team Determination	Credits: .1.0
	Meets Graduation Requirement: Language Arts*	Sem: 1 and/or 2
Grades: 9 10 11 12	*Must be taken concurrently with ELD Academic Language and Content	

Course Description: This English Language Development class is designed for multilingual learners to develop English language proficiency in all four key areas: speaking, listening, reading, and writing, focusing on essential vocabulary and grammar structures.

Course # 253101-253102	Course Name: English Language Development 2	
	Prerequisite: EL Team Determination	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: 1 and/or 2
Grades: 9 10 11 12	*Must be taken concurrently with ELD Academic Language and Content	

Course Description: This English Language Development class is designed for multilingual learners to further develop English language proficiency in all four key areas: speaking, listening, reading, and writing, focusing on essential vocabulary and grammar structures.

Course # 253001-253002	Course Name: English Language Development Intermediate	
	Prerequisite: English Language Development 1 or 2	Credits: .1.0
	Meets Graduation Requirement: Elective	Sem: 1 and/or 2
Grades: 9 10 11 12		

Course Description: Students in this course will receive support needed to develop proficiency in language arts skills. Students will read a variety of fiction and nonfiction selections, write a variety of compositions, and continue to develop listening and speaking skills. Emphasis of instruction varies based on student language proficiency and may include preparing students for reading and writing proficiency assessments.

Course # 253201-253202	Course Name: English Language Development Advanced	
	Prerequisite: ELD Intermediate	Credits: .1.0
	Meets Graduation Requirement: Elective	Sem: 1 and/or 2
Grades: 9 10 11 12		

Course Description: This English Language Development class is designed for multilingual learners to refine and expand English language proficiency in all four key areas: speaking, listening, reading, and writing, focusing on advanced vocabulary and advanced grammar structures.

Course #254001-254002	Course Name: English Language Development Academic Language and Content	
	Prerequisite: ELD Placement	Credits: 1.0
	Meets Graduation Requirement: Elective	Sem: 1 and/or 2
Grades: 9 10 11 12		

Course Description: This English Language Development class is designed for multilingual learners to support students with academic vocabulary and core class content work for students who are at Entering or Beginning English proficiency levels.



- Students who are proficient in a language other than English are invited to take a literacy test that may result in the awarding of a "Minnesota World Language Proficiency Certificate."
- Some Minnesota Colleges and Universities, including colleges in the MNSCU system, may award credit for incoming students who have earned a high enough proficiency level. You may take the test each year to try to score higher and earn more potential credits.
- Students in grades 10-12 are welcome to test. The actual "seal" will not be awarded until graduation.
- We recommend testing in 11th or 12th grade if you are testing on a language spoken fluently at home.

Registration Timelines and Notes for 2026-2027

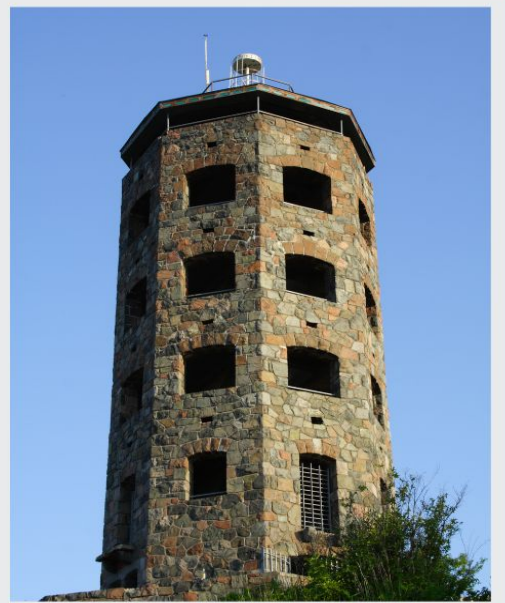
- Family Night for current 8th grade students and families
 - January 27 for East
 - February 4 for Denfeld
- High School Counselors visit 8th Grade Classrooms
 - Between January 12 - 23
- Counselors return to help 8th Grade students register
 - LPMS February 5
 - OEMS January 28-30
- HS Counselors Present to current 9-11 Grades
 - Denfeld: February 3
 - East: January 28-30
- Window for Grades 9-11 to register
 - Closes February 23

NOTE: Any student who fails to meet these deadlines will need to register directly with their counselor.

Courses are NOT GUARANTEED. Priority is given by grade level. Courses without significant requests may not be offered and some courses will be full and have wait lists.

Entering alternate selections is critical. These will be considered as we plan for next year. Students will be placed in alternates whenever possible if scheduling constraints arise.

Schedules are NOT PUBLISHED until sometime in the summer.



Receiving High School Credit for Online

- AEO is Duluth Public Schools' state approved online high school.
- Students may enroll full time or part time if sharing enrollment with any other public high school in Minnesota.
- Most core courses are approved by the NCAA to meet eligibility requirements.
- Some AP and CITS courses are available.
- Students should provide their own device and internet access.
- AEO curriculum is current, relevant, engaging, and created by Duluth Public Schools teachers.
- Instructors are easily accessible.
- Online education allows students and families more flexibility.
- Special Education Assistance is available.

Additional Options to Receive High School and College Credit

Advanced Placement (AP)

- AP (Advanced Placement) is a program of classes developed by the college board to give high school students an introduction to college-level classes and also gain college credit before even graduating high school. These courses are more difficult than the usual high school class and also require passing an AP exam at the end of the year to gain college credit.

Articulated College Credit (ACC)

- Articulated college credit courses provide a way for students to start a college-level technical program in high school and continue their educational pathway. The high school CTE credit has been pre-approved by partnering colleges and may be applied toward the student's college transcript. The student must successfully pass the high school CTE class to be eligible for articulated credit at the college.

College Level Examination Program (CLEP)

- The College-Level Examination Program® (CLEP) gives examinees the opportunity to receive college credit for what they already know by earning university-designated minimum scores on any of 34 exams. This program is offered at official CLEP test centers and not Duluth Public Schools.

Minnesota Bilingual Seals Program

- Minnesota school districts may award Minnesota bilingual and multilingual seals to high school students upon graduation who have demonstrated the required levels of language proficiency. American Sign Language (ASL), Indigenous American Indian languages, Spanish, German and many other languages other than English are included. Students will demonstrate proficiency through assessments. Credit may be granted at Minnesota State Colleges and Universities (MNSCU) Schools based on performance.

Postsecondary Enrollment Options (PSEO)

- PSEO is a dual credit program that allows 11th- and 12th-grade students in Duluth Public Schools to earn high school and college credit tuition free, through enrollment in and successful completion of college courses taught by college instructors, by enrolling either part-time or full-time. 10th graders are also eligible to enroll in one career technical education (CTE) course during the first semester of PSEO enrollment with a proficient score on the 8th grade MCA reading test.
- These courses are generally offered on the campus of the Minnesota postsecondary institution; some are online.
- Each participating college or university sets its own admission requirements for enrollment. Courses may be taken full time or part time.
- Students must inform the district by May 30 of each year of intent to enroll.
- No charge for tuition, books or fees, funds available for transportation.

College In The Schools CITS (Concurrent Enrollment)

- College in the Schools CITS is a concurrent enrollment ('dual credit' or 'dual enrollment') program that allows students to earn both college and high school credit in courses for students in 11th and 12th grades and earn college and high school credits for free. These courses are taught by high school teachers at the rigor of college level and have admission requirements





What's
your
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Additional Information to Consider for Entering the Workforce

Explore options and try things that interest you. You'll find the right fit based on job responsibilities, work environment, and your long term goals.

There are many benefits to entering the workforce after high school.

- Financial Independence to support yourself and become financially stable.
- Real World Experience: There's nothing like it to help you learn more about yourself and your goals.
- Career Clarity: You can work to decide what you want to do long term. Paying for college while you're still exploring may not be a good investment.
- Save Money on Education: Many employers will help you advance. This could also include additional training and/or college.
- Build a Network: You'll meet a lot of people in your job who become part of your professional and personal network.



Additional Information to Consider for Military Service

- [Explore and learn](#) about all of the branches of the military and countless amazing careers available within them. The more you know the better your journey will be.
- Sign up to take the ASVAB. There are test preparation resources within the Duluth Ready Navigator program!
- Remember you are in charge, the recruiters are there to assist but they are also working to fill quotas. Keep asking questions. Get help from trusted adults to generate those questions.
- If you want a specific job, don't budge until you get it in writing and signed by the recruiter. Don't assume it can be "worked out after basic training." Now is the time to advocate for yourself.
- You CAN wait until your specific job becomes available to enlist. Some jobs are open more frequently than others but you don't need to take something. Keep an eye on the list for availability.
- The more education you have the more likely you are to qualify for an area. The military offers many avenues of assistance, from tuition assistance to delayed enlistment to a full ride if you qualify.
- Physical Fitness is the primary area where people are eliminated. Get as healthy as possible!
- You are not actually committed to the military until you attend MEPS (Military Entry Processing Station) where you will sign the official documents and you have been sworn in. You are permitted to take someone over the age of 18 with you! They can help you stay calm and ask the right questions.
- If you're considering a military academy, connect with your counselor for help and advice. This is a big deal and you may not think you'd qualify, but please don't count yourself out!
- After you've committed, ask your recruiter for a stole to wear at commencement. We will honor your commitment during the ceremony, too!



Additional Information to Consider for College Admissions

Postsecondary enrollment options include a certificate program, two year degree, four year degree, and beyond! Students should consider all of their options thoroughly. One important piece to prepare for are the admission requirements to each college. The overview is below, for most up to date information, contact your post secondary schools of choice for the most accurate information.

*There are college entrance and placement test preparation resources available in the Duluth Navigator program that students can access and use at any time!

[Minnesota State Colleges and Universities Admission Requirements](#)

- Four years of English, including composition and literature
- Three years of math, including Intermediate Algebra, Geometry, and Algebra 2. Examples of 4th year math include Calculus (preferred), Pre-calculus, or Probability & Statistics
- Three years of science, including one year each of biological and physical science, all with significant laboratory experience.
- Three years of social studies
- Two years of a single world language, including non English native languages and American Sign Language.
- One year of arts (visual arts and the performing arts of theater, music, dance and media arts)
- Additional recommendations may be required for University of Minnesota System Twin Cities, Morris, Duluth, Rochester, and Crookston, call the college admission office for specific requirements.

[Technical and Community College Admission Requirements](#)

- High School diploma or GED is required with coursework in English, mathematics, science, and social studies
- Technical colleges and community colleges require placement tests that they administer to all incoming students.

[Testing and Placement Update](#): Minnesota State Colleges use ACT, SAT, MCA, Accuplacer scores, high school GPA or previous college coursework to determine course placement. Accuplacer assessment testing is now available on campus for students who would like to re-test or have their current course placement re-evaluated.

Click to explore [Minnesota Private Colleges](#) and [University of Wisconsin System Admission Requirements](#)

NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)

To be certified by the Eligibility Center, you must access information and application directly from the NCAA Eligibility Center website: www.eligibilitycenter.org. Students that are interested should work with their counselors for the potential pathway to NCAA courses and credits.

College Credit: Articulation Agreements

Articulated Credit is a way to earn college credit for technical program. When you attend a particular college (look under College) and are working on a degree or certification in that program, the college will grant you college credit based on your high school transcript. Students will need to ask the admissions office or their advisor to review their final high school transcript.

Duluth Course #	Duluth Course Name	College	College Course Name	Credits	College Course #
121630 & 125000	Additive Manuf. AND Adv. Ind. Eng. Res. & Des.	LSC	Prototyping Processes	3	INMG 1450
121211 & 121502	Intro to Eng Design AND Principles of Eng Design	LSC	Solidworks	3	CADE 1468
151100	Emergency Medical Responder	LSC	First Aid & CPR/AED for Healthcare Professionals	1	ALTH Pathways 1420
171621-171622 171721-171722	Construction Technology 1, 2 & 3	LSC	Carpentry Framing Lab 1	1	CARP 1412
171621-171622 171721-171722	Construction Technology 1,2 & 3	LSC	Roof Covering	1	CARP 1416
171621-171622 171721-171722	Construction Technology 1, 2 & 3	LSC	Carpentry Exterior Lab 1	1	CARP 1510

College Credit: College In The Schools (CITS)

College in the Schools CITS is also known as concurrent enrollment ('dual credit' or 'dual enrollment'). It is a program that allows students to earn both college and high school credit in courses taught by high school teachers at the rigor of college level and have admission requirements. The courses are located at the high school by Duluth teachers who are credentialed to teach college courses.

Students will be guided through enrolling with the college offering the credit. Students who meet the CITS admission requirements and who successfully complete the class will earn credit BOTH at the high school AND at that college. **REMEMBER:** You will need to request official COLLEGE transcripts to transfer these credits to a new college. They will appear on your high school transcript as high school credit, but only official COLLEGE transcripts are accepted by any other colleges. If you take multiple CITS courses you may need to request official transcripts from multiple colleges after leaving high school.

Watch for the abbreviations below:

UMD: University of Minnesota Duluth

LSC: Lake Superior College

CR - College Credit

CTE: Career and Technical Education

CSS: College of St Scholastica

FDLTCC: Fond du Lac Tribal and Community College

CITS: College In The Schools

College GPA: Grade Point Average requirement

CITS Courses through Fond du Lac Tribal and Community College

High School Course Name	College Course #	College Course Name	College Credits	Qualifying Requirements
CITS Physics	PHYS 1001 (EHS)	Introduction to Physics	4 cr	Juniors with a cumulative GPA of 3.0 or greater and seniors with a cumulative GPA of 2.5 or greater are eligible. Updated information and application can be found at Fond du Lac Tribal and Community College - College in the Schools
CITS Chemistry	CHEM 1010	General Chemistry	5 cr	
CITS American Government	POLS 1010 (EHS)	American Government	3 cr	
CITS Psychology	PSYC 2001	General Psychology	4 cr	
CITS Introduction to Law Enforcement	LAWE 1001	Introduction to Criminal Justice	3 cr	
CITS Civil and Criminal Law	LAWE 1005	Seeking Careers in Criminal Justice	3 cr	
CITS Ojibwemowin 3	ANSH 1001 ANSH 1002	Intro to Anishinaabe Lang I & Anishinaabe Lang II	4 cr 4 cr	
CITS Anishinaabeg of Lake Superior	AMIN 1050	Anishinaabeg of Lake Superior	3 cr	

REQUESTING YOUR OFFICIAL FDLTCC TRANSCRIPT

Go to <https://fdltcc.edu/current-students/records-office/transcripts/>

Dropping Course Policy at FDLTCC-

Add/Drop/Withdraw Registration for CITS courses occurs as part of the regular high school registration process. The high school instructor/CITS coordinator will assist you with the application process. The add/drop policy for CITS states the student has the first 25 days of FDLTCC's campus academic schedule to add or drop classes. After this date, a "W" (for withdraw) will appear on the student's transcript. Students wishing to drop after the 25th day must fill out a petition with their CITS coordinator. Students have until the 60th day of the semester to withdraw from a class.



CITS Course through The College of St. Scholastica

High School Course Name	College Course #	College Course Name	College Credits	Qualifying Requirements
CITS Pathways 2 Teaching	EDU1540	Intro to Teaching and Intro to Field Experience	3	Open to 11th and 12th grade only.

REQUESTING YOUR OFFICIAL CSS TRANSCRIPT

Go to www.getmytranscript.com Search "College of St. Scholastica"

Dropping Course Policy at CSS-

- Drops are allowed during the first two weeks of a semester. After the third day of a term, signatures are required by the instructor and advisor. The date the student requests the course drop is the official date used in registration. Confirmation of the last date of attendance must be supplied by the course instructor.
 - A dropped course will not be officially entered on the students' record, including the student's transcript.
- Withdraw from a course at CSS: Course withdrawals are allowed during weeks 3 through 9 of a semester. The date the student requests the course withdrawal is the official date used in registration. Confirmation of the last date of attendance must be supplied by the course instructor. A grade of W will be officially entered on the students' record, including the student's transcript.



CITS Courses through Lake Superior College

High School Course Name	College Course #	College Course Name	College Credits	Qualifying Requirements
CITS Pre-Calculus	MATH 1150 (EHS/AEO)	Pre-Calculus	4 cr	Completion Algebra II with qualifying grade
CITS Human Anatomy & Physiology	BIOL 1005 BIOL 1140	Intro to Cell Biology & Human Anat & Phys I	1 cr 4 cr	Juniors with a cumulative GPA of 3.0 or greater and seniors with a cumulative GPA of 2.5 or greater are eligible. Updated information can be found at Lake Superior College - College in the Schools
CITS Medical Occupations	ALTH 1400 ALTH 1410	Intro to Allied Health & Medical Terminology	1 cr 2 cr	
CITS Intro to Nursing	ALTH 1420	Nursing Assistant	4 cr	
CITS Ceramics	ART 1138	Ceramics I	3 cr	

REQUESTING YOUR OFFICIAL LSC TRANSCRIPT

Go to <https://www.lsc.edu/current-students/student-payment-office/request-transcripts/>

Dropping Course Policy at LSC-

- Students must follow the calendar for adding, dropping, and withdrawing from courses set by the Lake Superior College CITS program. Students who do not add a course during the registration window cannot be added at a later date and will not receive LSC credit. Students who do not contact their high school counselor about dropping or withdrawing from a course by the stated deadlines cannot be dropped or withdrawn at a later date, risk receiving an F grade, and risk violating LSC policies. See the Petition to Policy section for information.

CITS Courses through The University of Minnesota Duluth

High School Course Name	College Course #	College Course Name	College Credits	Qualifying Requirements
CITS Economics	ECON 1003	Economics & Society	3 cr	Juniors and Seniors with a cumulative GPA 3.0 or greater are eligible Updated information can be found at University of Minnesota - Duluth, College in the Schools
CITS College Composition	WRIT 1120	College Writing	3 cr	
CITS AP Literature and Composition	ENGL 1907	Introduction to Literature	3 cr	
CITS Sociology	SOC 1101	Introduction to Sociology	4 cr	
CITS AP Calculus	MATH 1296	Calculus 1	5 cr	
CITS Spanish 5	SPAN 1201 SPAN 1202	Intermediate Spanish I Intermediate Spanish II	4 cr 4 cr	
CITS German 5	GERM 1201 GERM 1202	Intermediate German I Intermediate German II	4 cr 4 cr	
CITS Strength Training	PE 1616	Weight Training	1 cr	
CITS Physics	PHYS 1001 (DHS)	Introduction to Physics	5 cr	
CITS Pre-Calculus	MATH 1250 (DHS)	Precalculus Analysis	4 cr	
CITS American Government	POL 1011 (DHS)	American Government and Politics	3 cr	

REQUESTING YOUR OFFICIAL UMD TRANSCRIPT

Go to <https://onestop.d.umn.edu/academics/transcripts>

Dropping Course Policy at UMD-

If students transfer out of a semester course after the tenth week, they must officially cancel the course via an approved UMD petition; a “W” symbol (student withdrew from the course) will automatically appear on their UMD transcript. Tuition fees are not refunded to the school district if a student withdraws after the deadline for dropping a course. Deadlines are established by the UMD Office of the Registrar.

Additional information about College in the Schools:

Mathematics Career and College Readiness (CCR) and Use of High School MCA Scores by Minnesota State Colleges and Universities Minnesota Statutes, section 120B.30 indicates that Minnesota State Colleges and Universities may use high school MCA reading and mathematics scores to assist in determining course enrollment.

Commitment Agreements

Performance Based Music Courses (Band, Orchestra, Choir)

Attendance at all scheduled performances is required and is part of the grading criteria in performance music classes. This is a fundamental and integral part of your membership in the group. Concerts are a public demonstration of what has been learned. Music is meant to be heard. Each performer in the ensemble is dependent on every member being present to perform their specific and integral part.

The only excused absences from a scheduled special rehearsal are:

1. You are ill the day of the rehearsal, and if school were in session you would be absent from school.
2. A family emergency occurs.

The only excused absences from a scheduled performance are:

1. You are ill the day of the rehearsal/performance, and are absent from school.
2. A family emergency occurs.

Always notify the directors if you will be unable to attend. Any other absence from a special rehearsal or performance is unexcused. Failure to notify the director in a within two weeks prior to the missed special rehearsal or performance is also unexcused with the exception of family emergencies.

STUDENT JOBS OR WORK CONFLICTS ARE NOT AN EXCUSE FOR MISSING A SPECIAL REHEARSAL OR PERFORMANCE!!!

Unexcused absences from concerts will negatively affect your grade, restrict your opportunity to earn a varsity letter, and may result in a meeting between, you, your parents/guardians, and the director to discuss your continued participation. Use a planner to stay organized in managing your schedule and time.

SCHEDULING CONFLICT RESOLUTION POLICY

If a scheduling conflict should occur with an academic music event, communication is the key. Talk to your directors. *WE* support *YOU*. Every attempt will be made to be fair and understanding in the event of unusual circumstances. If a scheduling conflict should occur with an event and another school event you are involved with, we will utilize the guidelines found below.

Situation #1 – Music special practice and SCHOOL RELATED* activity practice

Action: Communicate with the adults in charge.

Resolution: Split time with each 50/50 as best as possible.

Situation #2 – Music special practice and SCHOOL RELATED* activity game/contest

Action: Communicate with the adults in charge.

Resolution: Attend activity game.

Situation #3 – Music performance and SCHOOL RELATED* activity practice

Action: Communicate with the adults in charge.

Resolution: Attend performance. (This includes concerts and pep band events.)

Situation #4 – Music performance and SCHOOL RELATED* activity game/contest

Action: Communicate with the adults in charge.

Resolution: Teachers and coaches will objectively determine the decision with administration. An appropriate make-up assignment may be necessary if the performance is missed.

Commitment Agreements

Honors/Advanced Placement (AP) College in the Schools CITS Courses

Students who elect to take an Honors, AP, or CITS course should exhibit the following qualities and be aware of the following commitments required to complete the course:

1. Evidence of strength in skills relevant to the content area.
2. Commitment to assume personal responsibility for independent and long-term assignments.
3. Commitment to be challenged and to accept the rigorous standards and expectations of the course.
4. Recognition that the additional time commitment required for an Honors, AP, or CITS class may require a student to make time choices with regard to out-of-school activities.
5. Do not register for Honors, AP, or CITS classes with the idea that schedule changes will be made if the class does not work out. A decision to elect to take an Honors, AP, or CITS course is much like a contract that must be honored and not broken. Tutors are available to help students if necessary.

Course Expectations

As with all courses receiving credit, Honors, AP, and CITS courses will provide activities that meet state standards. In addition, course activities and assignments will address the following guidelines:

1. Although students will be expected to complete more work in terms of homework and concepts covered. The major emphasis will be placed on high-level and rigorous activities, assignments, performance, and assessment.
2. Reading, writing, speaking, listening, and thinking activities will emphasize upper levels of comprehension.
3. Activities will strive for both breadth and depth of learning.
4. All written and oral communication activities will require higher critical thinking/reasoning skills; exhibit linguistic sophistication, and neatness in presentation.
5. The textbook will be supported and enriched through additional related materials and activities.
6. Although short-term assignments may characterize the day-to-day activities of the course, these will be enriched through long-term assignments.
7. Major assessment, such as projects and tests, will require application of concepts as well as recall of information acquired.

When a student registers for any AP/Honors/CITS, they are agreeing and committing to the following statement: ***"I understand the student expectations as stated above and agree to make a yearlong commitment to the course for which I am registering. If I am not able to complete the course as registered for, I understand I will be dropped to a study hall for the remainder of the semester."***

***English Language Arts Additional Note:** Students who do not meet the B requirement for GPA may solicit teacher recommendation for enrollment in the course.

A teacher panel may consider students' work ethic, attendance record, and academic honesty for acceptance into these classes. Problems with excessive absences (more than 15 per semester) and cheating, including use of AI, may affect students' eligibility.