

2015-2016

HIGH SCHOOL COURSE CATALOG & PLANNING GUIDE



TABLE OF CONTENTS

OVERVIEW

Letter from the Principals	2
Graduation Requirements	3
College Entrance Requirements	5
College Athletic Guidelines	5
Definitions and Procedures	6
eLo Program and Courses	8
Dual Credit Courses	9
Off-Campus Courses	10
Pathways to Prosperity	11

DEPARTMENTAL COURSE DESCRIPTIONS

Art	13
Business	17
English	24
English Language Learning Program	32
Family and Consumer Science	34
Mathematics	38
Music	43
Physical Education, Health Education and Driver Education	49
Science	53
Social Studies	58
Technology and Engineering Education	64
World Languages	71

This Course Catalog & Planning guide reflects the most up-to-date information as of December 2014. Depending upon class, changes and requirements vary. Sophomores through seniors should consult with a guidance counselor. An online version of this catalog will be maintained and updated on the district website as the official Course Catalog and Planning guide.

DEAR PARENTS AND GUARDIANS,

There is a cultural mythology that says parents should distance themselves from their children's school experience when they enter high school. We know, however, that the transition between 8th and 9th grade is a significant one. It is normal to feel some anxiety about moving from middle school to high school. Students and parents often experience the same emotions: excitement, tempered by curiosity and caution. Please know that we invite parents and guardians to stay actively involved in their children's academic and social lives throughout their high school years.

Every year high school leaders look at what we do to make that transition successful and confer with the middle schools to try to improve the process. We have asked parents who have one or more students at District 204 high schools to think about what advice they would give to parents of incoming freshmen or to the freshmen themselves. Here is what they said:

"Even though the school seems big, don't be afraid to call the teachers or their department chairs with a concern. They really want to help with your personal concern and will appreciate the call."

"It really helped my three kids to get involved in a fall sport or activity. In sports they start before the school year, and it gives them a chance to make friends and break the ice."

"I tried to be aware of my kids' friends and help them pick positive influences. Peer influence makes a big difference."

"Communication. Call the school because no question is too small. Talk with other parents, too, and network with them."

"Clear your schedule because you need time and emotional energy for what's going on with your teen."

"Parents should stay involved and engaged with their kids even though teens are more independent."

"Don't be naive or over-accusatory. Your kids face the same temptations as everybody else's. It's easy to break a trust and hard to rebuild it."

"Kids should be involved in activities at school, not preoccupied with working. Working doesn't teach them how to manage money. It often allows them to learn how to waste it."

"Don't believe stories about how lenient other parents are. If in doubt, call other parents."

"If students have the ability, they should take the challenging classes. Be realistic. Don't take the easiest path."

We wish you well in your transition to the high school experience and hope these bits of practical advice from fellow parents will help you.

Sincerely,

Dr. Darrell Echols, Principal, Metea Valley High School

Dr. Robert McBride, Principal, Neuqua Valley High School

Mr. Jason Stipp, Principal, Waubonsie Valley High School

DISTRICT 204 GRADUATION REQUIREMENTS

Under most circumstances, a student will be expected to spend four years in meeting graduation requirements. In order to graduate, a student will be required to earn the following-course credits during his/her secondary school experience in grades 9-12. The overall school program fulfills the requirements of the State of Illinois and the Illinois State Board of Education.

Below are the District 204 graduation requirements. Please refer to the college entrance requirements page for further information.

GRADUATION REQUIREMENTS

English ¹	4.0	credits
Mathematics ²	3.0	credits
Science	3.0	credits
Social Studies ³	2.5	credits
Consumer Education ⁴	0.5	credit
Physical Education ¹	3.5	credits
Health	0.5	credit
Driver Education	0.5	credit
Electives (Art, Music, World Language and/or Career & Technical Education)	1.0	credit

BASIC REQUIREMENTS SUBTOTAL 18.5

Additional Elective Credits 5.5

TOTAL CREDITS REQUIRED FOR GRADUATION 24

- 1) To meet the physical education requirement and English requirement, a student must be registered in physical education and English for each semester of attendance.
- 2) The state requirement for mathematics includes 1.0 credit of algebra and 1.0 credit of geometry content.
- 3) The social studies requirement includes: 1.0 credit of either Honors World History, World Geography, AP Human Geography or AP World History, 1.0 credit of U.S. History (this includes three options: American Society, American History, or AP U.S. History), and 0.5 credit of Government (this includes three options: Government, Online American Government, or AP Government and Politics).
- 4) The consumer economics State requirement is fulfilled by taking Consumer Economics (including Online Consumer Economics) or AP Macroeconomics.
- 5) State graduation requirement is a total of 1.0 credit chosen from music, art, world language, and/or career and technical education.

EARLY GRADUATION The opportunity for early graduation is provided for students in the senior year and at the end of the junior year. Applications for mid-year graduation should be made prior to the start of the senior year. If approved, this allows for non-attendance in the eighth semester of high school. Mid-year graduates must complete the first semester. Juniors applying for early graduation must submit the application prior to the start of the 5th semester. If approved, this allows for non-attendance in the senior year of high school. The written application must be completed and provided to the student's counselor; applications can be found in the guidance office. Students graduating early must complete all graduation requirements. Students who have completed 7 semesters of high school will be eligible for the Latin Honor System designations noted below.

GRADUATION HONORS At graduation, students will be honored for academic success using the Latin Honor System which includes designations of Summa Cum Laude for a grade point average (GPA) of 4.5 and above, Magna Cum Laude for a GPA of 4.2-4.49, and Cum Laude for a GPA of 4.0-4.19. Also, any student with a cumulative GPA of 3.60 or above, after his or her seventh semester of school as a full-time District 204 student, will be named an Indian Prairie Scholar

STATE AND FEDERAL CONSTITUTION EXAM REQUIREMENTS Students must pass these exam requirements in social studies in order to graduate.

ADVANCED PLACEMENT (AP) AND HONORS COURSES Honors and Advanced Placement course work is accelerated, more sophisticated, and demands a high level of independent effort within a compacted time frame; therefore, each department that offers courses with weighted grades has developed recommendations for student success. These benchmarks are indicators of performance levels or standards for the courses and are available from departments offering classes with weighted grades. These benchmarks often include standardized test scores, teacher recommendation, and grades in previous courses.

WEIGHTED GRADES Indian Prairie School District weights the grades earned in certain high school classes. Grades from the following courses are given 1.0 extra weight:

English 1 Honors
English 2 Honors
AP English 3
AP English 4
❖
Honors Chambers Strings
Honors Varsity Singers
Honors Wind Ensemble
AP Music Theory
❖
Honors Geometry
Honors Algebra 2/Trig
Honors Precalculus
AP Statistics
AP Calculus
AP Computer Science
Calculus 3

Honors Biology
Honors Chemistry
Honors Physics
AP Physics
AP Chemistry
AP Biology
AP Environmental Science
❖
AP Studio Art
AP Art History
❖
Honors World History
AP U.S. History
AP European History
AP Psychology
AP Government & Politics
AP Human Geography
AP Online Human Geography
AP World History

Auto Servicing
Intro. to Engineering Design
Digital Electronics
Civil Engineering and
Architecture
Principles of Engineering
Engineering Design and
Development
❖
AP Microeconomics
AP Macroeconomics
Honors Accounting 2
Virtual Enterprise International
❖
Honors Chinese 4
Honors French 4
Honors Spanish 4
AP French
AP German
AP Spanish

COLLEGE ENTRANCE REQUIREMENTS

STATEWIDE ADMISSION REQUIREMENTS

The Illinois State Board of Higher Education has adopted minimum subject requirements for public colleges and universities in an effort to help high school students improve their academic preparation for baccalaureate degree programs. We strongly recommend that students take courses to meet these requirements.

Individual public universities and community colleges may have other subject requirements in effect as well as requirements involving test scores and grade point averages. Some high school courses may not meet college entrance requirements.

Applicants must contact each college or university individually for details about all of its requirements.

The following high school subjects are typically required of freshmen entering community college transfer programs and public universities.

RECOMMENDED* MINIMUM PUBLIC COMMUNITY

COLLEGE/ UNIVERSITY REQUIREMENTS

SUBJECT	CREDITS
English	4.0
Social Studies	3.0
Mathematics	3.0
Science	3.0
Laboratory sciences	
World Language, Music, Art, and/or Career & Technical Education	2.0

**Requirements may vary. Check with the each university*

COMMUNITY SERVICE PARTICIPATION

Community Service is highly valued as a means of expanding and enriching the high school experience. District 204 students are strongly encouraged to seek service opportunities. While community service hours are not recorded on transcripts, students should provide this information to college admissions counselors and scholarship review committees through their application, personal statements/essays, and resumes.

COLLEGE ATHLETIC GUIDELINES

Students who wish to participate in college athletics have a variety of options and should refer to the various collegiate organizations (e.g. NCAA, NAIA, and NJCAA). Please visit each association's website for eligibility requirements. Students should see their coach or counselor for further details.

The following websites may be helpful:

- <http://www.playnaia.org/>
- www.eligibilitycenter.org
- <http://www.njcaa.org/>

Please refer to the College Entrance Examination Board (CEEB) school codes below for your reference:

Metea Valley High School	140-187
Neuqua Valley High School	143-108
Waubonsie Valley High School	140-184

DEFINITIONS AND PROCEDURES

CREDIT EARNED All credit is awarded on a semester basis. Students may not sign up for only one semester of a full year course unless they are repeating due to failure.

COURSE LOAD Full-time students have a maximum course load of seven courses per semester and a minimum course load of six courses per semester. Students may take no more than two online courses per semester.

COURSE AVAILABILITY Courses are offered based on economic and enrollment factors. The semester in which a course will be offered will be determined after the pre-enrollment process.

EARLY DISMISSAL/LATE ARRIVAL Seniors who have sufficient credits, and whose courses can be arranged during initial scheduling to fit these special requests, may elect to have early dismissal or late arrival. Written parental permission and counselor approval are required for these options.

SCHEDULE CHANGES Staffing decisions are based on students' course requests made during the course selection process. For that reason, students are urged to consider their selections carefully. No changes will be made to accommodate requests for specific teachers or periods.

WITHDRAWAL FROM A COURSE All high schools encourage students to complete the courses they start; however, in the event a student wishes to withdraw from a course, the following guidelines will be used.

DAY 1-12

Students may withdraw from a course and replace it with an Option Period, Study Hall, or Access. No notation will appear on transcript.

DAY 13 - WEEK 8

Student may withdraw from course with parent permission. The transcript will reflect a W (withdraw, no grade). Student will receive an Option Period, Study Hall, or Access.

WEEK 9 - END OF SEMESTER

Student may withdraw from course with parent permission. The transcript will reflect a WF (withdraw, failing grade). Student will receive an Option Period, Study Hall, or Access.

OUTSIDE COURSEWORK In addition to seven credits taken in District 204 each year, students may take outside coursework for graduation requirements and electives. Prior approval from the student's high school guidance department is required for all coursework in the following categories: correspondence, online, or summer courses. A maximum of 2.0 credits of outside coursework will be accepted during four years in high school. Grades earned in pre-approved courses taken outside of the district will be noted on the student's transcript and be included in the GPA. These courses will not be eligible for honors weighting, even if they are designated as honors or AP courses. Please note that district online, eLo (IPSD 204 Expanding Learning Opportunities Consortium), and College of DuPage High School Summer School coursework is not included in the 2.0 credit limit.

High school level courses taken between middle school and high school will not be counted for high school credit. These courses may be considered for course placement with prior conversation with the high school principal or designee. Students must report proposed summer school activities to the high school principal/designee prior to May 31st. Upon completion of the work, the school may conduct a local assessment (end-of-course assessment) of the student's skill level which will guide course placement.

REPEATING A COURSE A student may elect to repeat a course taken in District 204 with prior approval from the guidance department. The course must be retaken prior to taking the next course in the department's sequence. Both courses will be listed on the transcript. Only courses taken through IPSD 204, eLo (IPSD 204 Online Learning Consortium), or College of DuPage (High School Summer School) will be considered for grade replacement. . When a student retakes an approved class, the better grade will be calculated as part of the student's GPA. The lesser grade will be given a No Grade (NG) designation.

GRADE TRANSFER POLICY We accept the previous school's letter grades as the official grades; we will not convert the letter grades to our grading scale. If a student transfers in with numerical grades accompanied by scaled letter grades, we will use the previous school's scale. If there are no scaled letter grades, then we will use our grading scale. For students entering from a foreign country or other non-accredited schools, all grades will be noted as Credit (CR) or No Credit (NC) and comparable credit given for each course. No GPA will appear on the transcript until the student completes a semester of coursework in a District 204 high school. Home school and private school credit will be evaluated using the criteria established in Board Policy.

LATE ENROLLMENT Students enrolling without current transfer grades from the 21st attendance day through the end of the semester will earn no credit.

GRADING SCALE All three high schools use the grading scale below based on percentages.

A	=	90-100%
B	=	80-89%
C	=	70-79%
D	=	60-69%
F	=	BELOW 60%

EXPANDING LEARNING OPPORTUNITIES (eLo)

ONLINE LEARNING COURSES

District 204 is a member of the Expanding Learning Opportunities Consortium (eLo). The eLo Consortium is a partnership between District 204, 203, and 200. This partnership offers students additional personalized and innovative ways to learn in an online environment.

Each eLo course is taught by a highly-qualified teacher from a district within the consortium; courses contain students from across the three districts. eLo courses are equally rigorous as face-to-face courses, and students progress through the curriculum while taught by their instructor. These courses are not self-paced and require weekly student participation.

Courses are delivered using the Canvas Learning Management System. Daily or weekly homework may be assigned, yet they offer flexibility for learning that meets the student's need to personalize when and where they study. Because each course is delivered virtually, students have the flexibility to choose where, when, and how they access the course. In addition, students interact with their instructor and peers using a variety of methods which may include: discussion boards, e-mail, instant chat messages, live virtual conferences, and phone calls.

Students may enroll in the following online eLo courses:

- African-American Literature
- Algebra II/Trigonometry
- American Government
- AP Human Geography
- Business Law
- Consumer Economics
- Geometry
- Health
- Introduction to Music Theory
- Psychology
- Sustainable Energy
- U.S. History
- Video Game Design
- Web Design

As more postsecondary and workforce training experiences move toward the virtual environment, the eLo experience will prepare students for a successful transition beyond high school. Students should contact their counselor for additional information or visit the eLo website at www.eloconsortium.org. Please note, there are no extra fees for enrolling in an eLo course during the academic school year. *eLo summer school courses are delivered on a limited basis and require an enrollment fee per student.*

The most updated eLo information can be found at www.eloconsortium.org

DUAL CREDIT COURSES

COLLEGE OF DUPAGE (COD)

Dual Credit courses allow high school students to enroll in college-level coursework and secure credit at both the high school and college level simultaneously. Courses are taught by high school instructors who are approved by the college. Curriculum, syllabi, and textbooks also meet college guidelines.

For College of DuPage (COD) dual credit, tuition and fees are waived, and a COD transcript is generated. COD grants all college credits, therefore, students should contact COD for final dual credit transcripts after course completion. All COD dual credit opportunities are **pending** formal agreement between IPSD and COD. These agreements are reviewed on regular basis and subject to change based on qualifications. To qualify students must complete appropriate applications, and placement testing as required. Freshmen are not eligible for dual credit. Any summer dual credit courses offered by COD and other institutions must be approved by the Director of Guidance if the course could potentially replace a required course for graduation. These courses will typically be used on the high school transcript as elective courses, not in place of our course graduation requirements.

COD DUAL CREDIT COURSES AND STUDENT REQUIREMENTS:

IPSD COURSE NAME AND NUMBER	COD COURSE NAME AND NUMBER	TESTING REQUIREMENTS
Anatomy and Physiology, SCI2004D	Anatomy and Physiology 1500, 4 credits	COMPASS reading test or ACT composite of 20 or above
Apparel Construction I, FACS1000D	Fashion Merchandising & Design 1155, 3 credits	COMPASS reading test or ACT composite of 20 or above
Apparel Construction II, FACS2000D	Fashion Merchandising & Design 1156, 3 credits	COMPASS reading test or ACT composite of 20 or above
Architectural Drafting, TEE3001D	Architecture 1101, 2 credits	no test
Broadcast Journalism & Production II, TEE2007D	Motion Picture/Television 1220, 3 credits	no test
Education 2, BUS1041D	Education 1101, 3 credits	no test
Digital Electronics, PLTW2002	Electronics Technology 1141, 3 credits	no test
Digital Photography, ART4000D	Photography 1100, 3 credits	no test
Introduction to Education I, BUS1040D	Education 1100, 3 credits	no test
Genetics, SCI2003D	Biology 1120, 3 credits	COMPASS reading and math test, or ACT composite of 20 or above and ACT Math score of 21 or above
Horticulture, SCI2016D	Horticulture 1100, 3 credits	no test
Lifeguarding, PE1052D	Physical Education Lifeguard Training 2244, 2 credits	no test
Media Communication & Production I, TEE1014D	Motion Picture/Television 1011, 3 credits	no test
Senior Foods, FACS4000D	Physical Education 1554, (Healthy Eating) 1 credit	no test
Sociology, SOCS3016D	Sociology 1100, 3 credits	COMPASS reading test or ACT composite of 20 or above

OFF CAMPUS COURSES

TECHNOLOGY CENTER OF DUPAGE

Grade 11-12, Year-long Career and Technical Courses; 1.5 elective credits per semester

District 204 is a member of the DuPage Area Occupational Education System (DAOES). This membership allows us to access the services of the Technology Center of DuPage (TCD). TCD offers advanced career and technical education electives for district students serious about pursuing one of the available career pathways. The focus is on college and career readiness through applied academics, workplace skill development, and work-based learning experiences. This course of study requires a year-long commitment by the student. Transportation is provided by the district. Fees for programs may apply and are billed through the Technology Center of DuPage.

Participation in TCD courses is limited due to enrollment and financial factors. Not all students who request these classes will be admitted to the program. Since the district is making an additional financial expenditure, those students with the greatest likelihood of successfully completing the program will be selected. Applicants will be screened with regard to normal progress toward graduation, regular attendance, punctuality, self-discipline, demonstrated motivation, and teacher-counselor recommendations. Students should see their counselors for details.

PROGRAMS OFFERED THROUGH TECHNOLOGY CENTER OF DUPAGE:

- Computer Information Systems & Game Design
- Data Entry/Office Systems Technology
- Multimedia & Television Production
- Cosmetology
- Criminal Justice
- Culinary, Pastry Arts & Hospitality Management
- Early Childhood Education & Care
- Fire Science/Emergency Medical Technician
- Medical Terminology & Health Care Careers
- Nursing Assistant Training Program
- Construction Trades
- Heating, Ventilation, Air Conditioning & Refrigeration
- Precision Machining
- Welding
- Residential Wiring
- Welding Technology
- Digital Electronics/Electronics Technology
- Horticulture/Power Equipment Technology
- Introduction to Engineering Design
- Principles of Engineering
- Civil Engineering & Architecture
- Engineering Design & Development



PATHWAYS TO PROSPERITY

Eight of every ten Illinois jobs require credentials or degrees more than a high school diploma. The Pathways courses of study are part of an innovative State of Illinois-led STEM education initiative designed to support college and career readiness for all students. The Pathways courses of study are organized around career clusters and feature a series of orientation and advanced pathway courses, including early college/College Dual Credit. These courses of study are designed to be accompanied by opportunities for students to enrich their learning through work-based learning experiences as well as demonstrate their understanding through assessments and industry credentialing opportunities. Each Pathway is designed to maximize opportunities and eventually lead to stackable credentials including associate, baccalaureate, and post-graduate degrees.

The overall purpose of following a selected pathway is to prepare for career success in a changing, highly technical, dynamic workplace. Current focus in the region is on three pathways—Advanced Manufacturing, IT, and Healthcare. The following high school courses align with these pathways:

ADVANCED MANUFACTURING

PLTW2000 Introduction to Engineering Design (IED)
PLTW2001 Principles of Engineering (POE)
PLTW2002D Digital Electronics (DE)—COD Dual Credit
PLTW2003 Civil Engineering & Architecture (CEA)
PLTW 2004 Engineering Design & Development (EDD)
TEE1001 Engineering Technology 1
TEE1002 Engineering Technology 2
TEE1003 Woods Fabrication 1
TEE2001 Woods Fabrication 2
TEE2002 Introduction to Construction
TEE1004 Power Mechanics
BUS 3007 Internship
Technology Center of DuPage - Biotechnical Engineering
Technology Center of DuPage - Precision Machining
Technology Center of DuPage - Welding

INFORMATION TECHNOLOGY

BUS1000 Business Orientation
BUS1002 Management
BUS3002 Marketing
BUS1030 Essential Technology
BUS1037 Coding
BUS1032 Marketing Technology
BUS1033 Visual Media
BUS1034 Emerging Technology
BUS1035 Interactive Media
BUS1036 Web Design
BUS3007 Business Internship
BUS3020 Virtual Enterprises International (VEI)
MATH1006A AP Computer Science 1



PATHWAYS TO PROSPERITY (CONT'D)

HEALTH SCIENCES

FACS2003 Child Development

FACS4000D Senior Foods--COD Dual Credit

FACS3004 Professional and Technical Internship BUS3007 Business Internship

MATH1006A AP Computer Science 1

SCI2003 Genetics

SCI2004 D Anatomy & Physiology— COD Dual Credit

PE2101 Health Education

PE3101 Advanced Health

Technology Center of DuPage -Fire Science/Emergency Medical Technician

Technology Center of DuPage - Medical Terminology and Health Care Careers

Technology Center of DuPage - Nursing Assistant Training Program

*COD/IPSD Program of Study in Nursing booklet

ART

Don Devany, Department Chairperson – MVHS

Charles Staley, Department Chairperson – NVHS

Mark Duker, Department Chairperson – WVHS

The District 204 Art Program seeks to provide a variety of experiences in the visual arts that enable our students to appreciate and enjoy art, to help guide life and career choices they will make during their high school tenure, to prepare them for further study in art, and to increase their understanding of an increasingly visual world. In most art classes students will make projects that can be taken home. There is a material fee associated with such classes payable at the start of class.

ART COURSE LISTINGS

COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
ART1001	2D Art and Design	Sem. 9-12	None
ART1004	3D Art and Design	Sem. 9-12	None
ART2000	Printmaking	Sem. 10-12	Minimum of one semester of art
ART2002	Computer Graphics 1	Sem. 9-12	None
ART2015	Computer Graphics 2	Sem. 9-12	Computer Graphics 1
ART1015	Drawing 1	Sem. 9-12	2D Art and Design or instructor approval
ART2003	Drawing 2	Sem. 10-12	Drawing 1
ART2005	Drawing 3	Sem. 10-12	Drawing 2
ART2007	Painting 1	Sem. 10-12	Drawing 1 plus one additional semester of art
ART2009	Painting 2	Sem. 10-12	Painting 1
ART1017	Ceramics 1	Sem. 9-12	3D Art and Design, or instructor approval
ART2010	Ceramics 2	Sem. 10-12	Ceramics 1
ART2012	Ceramics 3	Sem. 10-12	Ceramics 2
ART2014	Jewelry	Sem. 10-12	Minimum of one semester of art
ART3000I	Art Independent Study (AIS)	Sem. 11-12	Minimum of 4 semesters of art and Instructor's approval with portfolio review
ART3002A	AP Studio Art	Yr. 12	Mandatory Teacher Recommendation
ART3003A	AP Art History	Yr. 9-12	None
ART4000D	Digital Photography	Sem. 9-12	None – See course description below for equipment recommendation

ART: DUAL CREDIT WITH COLLEGE OF DUPAGE

Students enrolled in the following courses may apply to earn dual credit with COD. High school students who wish to take the courses listed below for dual credit will receive college credit and a COD transcript regardless of whether or not they continue at College of DuPage. These credits may be transferable to other institutions. All dual credit opportunities are based upon an agreement between IPSD and COD. To qualify for dual credit, students must complete appropriate applications and placement testing as required by COD. Freshmen are not eligible for dual credit.

COURSE COMPLETED	CREDIT AT COD
DIGITAL PHOTOGRAPHY: ART4000D	PHOTOGRAPHY 1100 (3 HRS. CREDIT)

ART COURSE DESCRIPTIONS

All Art Courses are one semester with the exception of AP Studio Art and AP Art History which are year-long. Level 2 or 3 courses require successful completion of a previous level.

ART1001 2D ART AND DESIGN GRADE 9-12.

This is a semester introductory-level course for high school art. Students will learn how to utilize the elements and principles of design while being exposed to a variety of materials and techniques. Students will focus on developing and refining these skills in the areas of drawing, painting, printmaking, and a variety of other two-dimensional art media. This course is a preferred starting point for freshmen. A project fee is charged.

ART1004 3D ART AND DESIGN GRADE 9-12.

This is a semester introductory-level course for high school art. Students will learn how to utilize the elements and principles of design while being exposed to a variety of materials and techniques. Materials may include but are not limited to: clay, wire, plaster, and a variety of other three-dimensional art media. This course is a preferred starting point for freshmen. A project fee will be charged.

ART2000 PRINTMAKING GRADE 10-12. Prerequisite is at least one semester of art (2D Art and Design).

This course allows students to expand their knowledge of art-making into the realm of multiple copies, known as prints. Printmaking touches upon both painting and drawing with processes such as silkscreen, etching, and relief printing. In addition to producing original artworks having a completely unique look, students may be introduced to the commercial aspects of printing via T-shirt or greeting card projects. A project fee will be charged.

ART2002 COMPUTER GRAPHICS 1 GRADE 9-12.

This semester course exposes students to the skills and concepts necessary to utilize Adobe Photoshop in a comprehensive manner. In addition, students receive instruction in Adobe Illustrator. Image editing, creation, printing, typography, scanning, and color correction will also be included. This foundation course allows for future study of the individual software programs used in the graphic, imaging, and publishing industries. A project fee will be charged.

ART2015 COMPUTER GRAPHICS 2 GRADE 9-12. Prerequisite is Computer Graphics 1.

This semester course is a course with emphasis on creative problem-solving, visual literacy, and communication skills of a commercial art nature. Students will add the vector-based Adobe Illustrator software program to their bank of skills while continuing to create original art products. A project fee will be charged.

ART1015 DRAWING 1 GRADE 9-12. Prerequisite is 2D Art and Design or instructor approval.

This semester course provides the student with the basic understanding of the elements of art and principles of design. Emphasis will be placed on basic drawing skills and perception while creating artwork in a variety of media. A project fee will be charged.

ART2003 DRAWING 2 GRADE 10-12. Prerequisite is Drawing 1.

This semester course provides the student with exposure to different media while continuing technical skill development, perception, skills, and creative problem solving. A project fee will be charged.

ART2005 DRAWING 3 GRADE 10-12. Prerequisite is Drawing 2.

This semester course is for the advanced student and places emphasis on increasing drawing skills and expanding creative ideas. This course will also help students create projects for future portfolio review. A project fee will be charged.

ART2007 PAINTING 1 GRADE 10-12. *Prerequisite is Drawing 1 plus one semester of any art course.*

This semester course provides the student with the basic understandings of the tools, techniques, processes, and language associated with water-based paint media, including watercolors and acrylics. Students will synthesize these understandings into individual paintings and media studies. A project fee will be charged.

ART2009 PAINTING 2 GRADE 10-12. *Prerequisite is Painting 1.*

This semester course provides the continuing student with further study of paint media including watercolor, acrylics, and oils. It will introduce new materials and approaches and provide contexts for individual projects. Emphasis is placed on design composition, color theory, and conceptual thought processes involved in creating complex, interesting paintings. A project fee will be charged.

ART1017 CERAMICS 1 GRADE 9-12. *Prerequisite 3D Art and Design or instructor approval.*

This semester course focuses on creative problem-solving through the manipulation of clay. It stresses understanding the nature of clay through basic hand-building techniques and methods such as the use of ceramic finishes including glazes. Firing processes, equipment, and vocabulary are also a part of this course. A project fee will be charged.

ART2010 CERAMICS 2 GRADE 10-12. *Prerequisite is Ceramics 1.*

This semester course introduces students to basic wheel throwing and more advanced hand-building and glazing techniques. A project fee will be charged.

ART2012 CERAMICS 3 GRADE 10-12. *Prerequisite is Ceramics 2.*

This is an advanced course stressing problem-solving using advanced wheel-throwing and hand building techniques. Emphasis is placed on developing the student as an artist who communicates ideas through the medium of clay. A project fee will be charged.

ART2014 JEWELRY GRADE 10-12. *Prerequisite is a minimum of one semester of any art course.*

This course covers the basic techniques of jewelry making using a variety of materials such as glass, wood, plastic, clay, and metals. Students will become familiar with vocabulary terms and tools while creating small sculptures. A project fee will be charged.

ART3000I ART INDEPENDENT STUDY (AIS) GRADE 11-12. *Prerequisites are four semesters of art courses and portfolio review by staff.*

This course is designed to meet the continuing artistic needs of the advanced art student. It is an individually-directed study in a particular area of art agreed upon by both the student and teachers. This course requires a high degree of motivation and self-discipline and is to be offered only to students who qualify. A project fee will be charged.

ART3002A AP (ADVANCED PLACEMENT) STUDIO ART GRADE 12. *Year-long. Weighted grade. Teacher recommendation.*

This course is designed for students who are seriously interested in the practical experience of art. The course is organized as an intensive, year-long class requiring commitment in quality and quantity of work from the art student. AP Studio Art is not based on a written examination; instead, students focus on portfolio development, breadth of work, and thematic concentration for evaluation at the end of the school year. It is vital that students plan far enough in advance to complete the portfolio on time. Students will be expected to work outside the classroom and beyond scheduled periods. Students will work independently in their area of concentration. Two-dimensional and three-dimensional artist portfolios are accepted. A project fee will be charged.

ART3003A AP (ADVANCED PLACEMENT) ART HISTORY GRADE 9-12. *Year-long. Weighted grade.*

AP Art History is a chronological survey of artistic styles, artists, architecture, painting, sculpture, and photography primarily of the western tradition with periodic introductions of non-western work from Africa, the Americas, Asia, the Near East, Oceanic, and Islamic traditions. Emphasis is placed on the study of the development of style within cultures, eras, and artists' careers. Students will develop knowledge of specific stylistic characteristics of various cultures as well as the terminology necessary to communicate a scholarly analysis of the works. In order to understand the similarities and differences that exist in our visual world, students will explore the symbolism, artistic processes and political, social, economic, and scientific background of the artwork. Formal analysis using the art elements and design principles are specifically referenced to each art form. Central to the AP Art History course is the development of visual literacy, oral and written skills of comparative analysis, and the understanding of those works in historical and sociological context. This course requires a high degree of commitment and academic work as students should be engaged at the same level as a college level art history survey. Students who have done well in the history courses or studio arts are especially encouraged to enroll. Students who successfully complete this course and the AP Art History exam may receive college credit and/or higher placement in college.

ART4000D DIGITAL PHOTOGRAPHY GRADE 9-12.

This semester course is an exploration of the fundamental principles, techniques, and applications of digital photography. Students will learn how to take, edit, print, and critique photos. Topics of study include technical camera operation, composition and design, photo criticism, visual culture, workflow, photo management, Photoshop and image editing, history of photography, lighting, originality and creativity, art galleries, professional organizations, and careers using photography. It is highly recommended but not required that students have access to their own camera. Cameras will be available for checkout according to the instructor's defined parameters. A project fee will be charged.

BUSINESS EDUCATION

Brian Giovanini, Department Chairperson – MVHS

John Hanson, Department Chairperson - NVHS

Andrea Hendrickson, Department Chairperson - WVHS

The Business Department offers a variety of courses to prepare students for continued education and for development of personal and business skills. A modest materials fee will be assessed in those classes requiring extensive computer usage.

BUSINESS COURSE LISTINGS

PROFESSIONAL COURSES

COURSE#	TITLE	LEVEL	RECOMMENDED PRIOR COURSE WORK INCLUDES
BUS1000	Business Orientation	Sem. 9-12	None
BUS3000	Advertising**	Sem. 9-12	Business Orientation, Marketing Technology, Visual Media, or Interactive Media
BUS3002	Marketing**	Yr. 10-12	Business Orientation, Advertising, or Marketing Technology
BUS1002	Management	Sem. 11-12	Business Orientation
BUS3005	Business Law	Sem. 11-12	NoneBUS3005C Online Business Law Yr. 11-12 None
BUS1040D	Introduction to Education	Sem. 11-12	None
BUS1041D	Education 2	Sem. 11-12	Introduction to Education
BUS3007	Business Internship +	Yr. 11-12	Approval of Business Internship Coordinator or Business Education teacher
BUS3020	Virtual Enterprises International (VEI) **	Yr. 11-12	Two semesters of business courses and Business Education Teacher approval

TECHNOLOGY COURSES

COURSE#	TITLE	LEVEL	RECOMMENDED PRIOR COURSE WORK INCLUDES
BUS1030	Essential Technology**	Sem. 9-12	None
BUS1032	Marketing Technology **	Sem. 9-12	None
BUS1033	Visual Media**	Sem. 9-12	None
BUS1034	Emerging Technology **	Sem. 9-12	None
BUS1038C	Online Video Game Design	Yr. 9-12	This course similar to BUS1034
BUS1035	Interactive Media	Sem. 9-12	None
BUS1036	Web Design**	Sem. 9-12	Previous Business Technology Course experience strongly Recommended
BUS1036C	Online Web Design	Yr. 9-12	Previous Business Technology Course experience Strongly recommended This course similar to BUS1034
BUS1037	Coding**	Sem. 9-12	Previous Business Technology Course experience strongly recommended

FINANCIAL COURSES

COURSE#	TITLE	LEVEL	RECOMMENDED PRIOR COURSE WORK INCLUDES
BUS2000	Business Mathematics	Sem. 10-12	Algebra 2
BUS2001	Accounting 1**	Yr. 10-12	None
BUS3016H	Honors Accounting 2 **+	Yr. 11-12	Accounting 1
BUS3017	Finance**	Sem. 11-12	None

COLLEGE/CAREER COURSES

COURSE#	TITLE	LEVEL	RECOMMENDED PRIOR COURSE WORK INCLUDES
BUS1003	Notetaking & Study Skills	Sem. 9-12	None
BUS3004	College Test Prep**	Sem. 11-12	None
BUS4001	Consumer Economics	Sem. 12	None, fulfills graduation requirement
BUS4001C	Online Consumer Economics	Yr. 12	None, fulfills graduation requirement
BUS4003A	AP Macroeconomics**	Sem. 12	None, fulfills graduation requirement
BUS4002A	AP Microeconomics** +	Sem. 12	AP Macroeconomics

** These classes require a materials or workbook fee.

+ Prerequisite

BUSINESS DUAL CREDIT WITH COLLEGE OF DUPAGE

Students enrolled in the following courses may apply to earn dual credit with COD. High School students who wish to take a course listed below for dual credit will receive college credit and a COD transcript regardless of whether or not they continue at College of DuPage. These credits may be transferable to other institutions. All dual credit opportunities are pending an agreement between IPSD and COD. To qualify for dual credit, students must complete appropriate applications and placement testing as required by COD. Freshmen are not eligible for dual credit.

COURSE COMPLETED AT MVHS, NVHS, WVHS	CREDIT AT COD
Introduction to Education: BUS1040D	Education 1100: Introduction to Education (3 hrs. credit)
Education 2: BUS1041D	Education 1101: School Procedures (3 hrs. credit)

BUSINESS COURSE DESCRIPTIONS

BUS1000 BUSINESS ORIENTATION GRADE 9-12.

This one-semester course introduces students to the world of business. Topics covered include types of business ownership, marketing, accounting, human resources, management, finance, ethics, and economics. These concepts are presented through classroom discussion and project-based learning. Students are encouraged to take this course prior to further study in business such as Management, Accounting, Marketing, and Advertising.

BUS1003 NOTETAKING & STUDY SKILLS GRADE 9-12.

This course is designed for students desiring to learn a more efficient and effective way of studying. Reading and note taking strategies are main focuses of the course as well as techniques provided to develop listening skills, study skills, test-taking skills, and to improve memory and vocabulary. Synergy, organizational skills, and time-management techniques are discussed and applied throughout the course. Such skills can be used by all students whether they are career or college bound.

BUS1030 ESSENTIAL TECHNOLOGY GRADE 9-12.

Students will expand their knowledge in basic technology and its application in academics and the workforce. This course will focus on developing twenty-first century technology skills by incorporating study in Internet research, and computer literacy. Through the use of integrated projects, Microsoft Office, and various design programs, we will focus on building a student's essential technology skills. Students who desire improvement in basic software application skills will benefit from this course and be better prepared for further study in the computer sequence. A materials fee will be charged.

BUS1037 CODING GRADE 9-12. *Previous Business Technology course experience strongly recommended.*

Computer logic is an important skill in today's world whether you are interested in business, engineering, science, or computer science. The course aims to provide students with an understanding of the role computation can play in solving problems. It also aims to help students, regardless of their major, to feel justifiably confident of their ability to write small programs that allow them to accomplish useful goals. This course introduces you to coding, including variables, user input, control structures, functions with parameters and return values, basic graphics, and to send messages to objects. The course will introduce lists/arrays, maps/objects, sets, and grids, which are the essential basic data structures that any program will use. A materials fee will be charged.

BUS1032 MARKETING TECHNOLOGY GRADE 9-12.

This course will expand a student's abilities to work creatively and communicate effectively while exploring how technology supports businesses in the field of Sports and Entertainment, Travel and Tourism, Hospitality, Finance, and others. Through the use of technology and project-based learning, students will further their skills in Microsoft Office, Adobe Creative Suite, and various online tools to a variety of business applications. Students interested in Advertising, Marketing, Management, Business Internship, or technology-related fields should take this course. A materials fee will be charged.

BUS1033 VISUAL MEDIA GRADE 9-12.

Students will learn technology skills related to visual layout and design for business application and personal use. This project-based course will incorporate digital photography, image manipulation, design principles, and typography. Current design software programs including Adobe Photoshop and InDesign will be explored in depth. Students interested in Advertising, Marketing, and Web Design should take this course. A materials fee will be charged.

BUS1035 INTERACTIVE MEDIA GRADE 9-12.

A project-based lab course in which students will combine video, audio, images, graphics, and text to create effective presentations in a multimedia environment. Students utilize digital and video cameras, digital editing software, and presentation software. Throughout the course, students will develop skills in communicating, writing, and presenting in a professional environment. A materials fee will be charged.

BUS1034 EMERGING TECHNOLOGIES GRADE 9-12. (comparable course to BUS1038C)

This class focuses on the development and creation of video gaming, app development and animation. Students will use a variety of software packages to create working, interactive gaming programs and apps. Students will learn about the gaming and app industry and planning tools, such as storyboarding and will continue to build upon their graphics knowledge by creating their own backgrounds and animations. They will learn how to edit sounds and incorporate them into their projects. In addition, students will develop their programming knowledge by adding scripting and coding to their projects. Previous programming skills are not required. Students interested in Coding, Marketing, Web Design and Development, and VEI should take this course. A materials fee will be charged.

BUS1038C ONLINE VIDEO GAME DESIGN GRADE 9-12. (similar course to BUS 1034 Emerging Technologies)

In this online eLo course students gain a complete understanding of the technological and creative aspects of video game design in an easy-to-follow format. Students will have the opportunity to learn all aspects of the creative, business, and technological components required to launch a new video game. Students will develop mastery in hard skills of art, science, and technology as they relate to computer programming. Students will also be introduced to basic hardware and software troubleshooting.

BUS1036 WEB DESIGN GRADES 9-12. Previous Business Technology course experience strongly recommended.

Students will learn to design and create websites and optimize digital resources. An understanding of visual appeal, effective communication, functionality, and site organization and maintenance will be gained. Course resources include Dreamweaver, XHTML, Flash, and various online services. Students interested in Management, Marketing, and Business Internship should take this course. A materials fee will be charged.

BUS1036C ONLINE WEB DESIGN GRADES 9-12. One Semester. Previous Business Technology course experience strongly recommended.

In this online eLo course, students learn to design and create websites and optimize digital resources. An understanding of visual appeal, effective communication, functionality, and site organization and maintenance are gained. Course resources include Dreamweaver, XHTML, Flash, and various online services. Students will persist in troubleshooting and problem solving while enhancing their ability to communicate through a virtual classroom setting.

BUS3000 ADVERTISING GRADE 9-12. Business Orientation, Marketing Technology, Visual Media, or Interactive Media recommended.

This course will focus on advertising principles and practices. Students will learn the history of advertising, its role in today's society, how the advertising industry works, careers in advertising, and the principles and techniques used to create ads for a variety of media. Emphasis is placed on planning and designing print ads, radio and TV commercials, and other specialty ads that appeal to certain target markets. Moderate computer use will be required. A materials fee will be charged.

BUS2000 BUSINESS MATHEMATICS GRADE 10-12. Prerequisite is Algebra 2.

This course develops and strengthens mathematical and technology skills needed for business careers and business financial management. Problem-solving procedures involving payroll and compensation, manufacturing and production, sales, marketing, banking services, investments, accounting principles, taxation, and data analysis will be emphasized. Students will be able to apply mathematical concepts in various personal and business situations. This course is an excellent choice for the student wishing to pursue a career in a business field.

BUS2001 ACCOUNTING 1 GRADE 10-12. Year-long.

Accounting 1 tracks the flow of money into and out of a business. It is the study of preparing business records for the purpose of making management decisions. Generally Accepted Accounting Principles (GAAP) are applied to the financial data needed to understand businesses organized as sole proprietorships and corporations. Accounting is the language of business and is strongly recommended for any student interested in business as a career. A workbook/simulation fee will be charged.

BUS3016H HONORS ACCOUNTING 2 GRADE 11-12. Year-long. Weighted grade. Prerequisite is Accounting 1.

This is an advanced course for students interested in furthering their career exploration in accounting or any business-related occupation. Study includes corporate and cost accounting for merchandising and manufacturing businesses. Management decisions through the analysis of financial statements are an integral part of the curriculum. Automated accounting using computer simulation is integrated throughout the course. A workbook and simulation fee will be charged.

BUS3002 MARKETING GRADE 10-12. Year-long. Business Orientation, Advertising and/or Marketing Technology recommended.

This course examines the field of marketing and its essential role in all aspects of business. Topics covered include the role of marketing in today's society, marketing careers, product planning and development, pricing strategies, distribution methods, sales techniques, promotion, visual merchandising, and marketing math skills. Marketing principles learned will be applied through industry-specific units on sports, entertainment, travel/tourism, and fashion marketing. A materials fee will be charged for this course.

BUS1002 MANAGEMENT GRADE 11-12. Prior completion of Business Orientation recommended.

Business Management is designed to facilitate students' conceptual and practical understanding of issues related to management principles, practices, and organizational behavior. The topics explored include leadership, human resource management, motivation, organizational behavior, social responsibility, organizational culture, and communication. Each unit will require a project/activity to assess student learning. A systematic approach has been created with the intention of providing a process for evaluating students' performances in their development and presentation of class projects for the Management course.

BUS3004 COLLEGE TEST PREP GRADE 11-12.

This course is designed for junior and senior students desiring improvement in reading, vocabulary, grammar, math, and science skills. Emphasis is placed on improving test-taking skills and learning techniques to improve success on standardized tests such as the ACT. A workbook fee will be charged.

BUS3005 BUSINESS LAW GRADE 11-12.

This course is designed for students preparing for both the business world and personal life in order to understand the legal environment in which we live. This course will give students insight into the legal rules and regulations that benefit mankind and will promote understanding of the importance of law to both society and the individual. Topics studied include ethics, criminal and civil law, the court system, contracts, law and the minor, law and the consumer, employment law, bankruptcy, wills, and career exploration. Mock trials and a field trip to the county courthouse are utilized in this course to provide authentic learning experiences.

BUS3005C ONLINE BUSINESS LAW GRADE 11-12

Are you familiar with your rights? This online eLo Business Law course provides an introduction to the fundamentals of the United States legal system as it relates to business rights and responsibilities. Anyone who is planning a career in any area of business will benefit from this class. Civil and criminal law, consumer rights, contracts, corporate structures, and the legal obligations required within business organizations are included.

BUS3017 FINANCE GRADE 11-12.

This course is designed to be a capstone course in the business curriculum pertaining to the financial sequence. The course will focus on four areas of finance: financial institutions, the Federal Reserve System, international markets, and the US stock and commodities markets. The course will emphasize real-world business and investment situations for student analysis and decision-making strategies.

BUS1040D INTRODUCTION TO EDUCATION GRADE 11-12.

Introduction to Education provides an introduction to teaching as a profession in the American educational system. Students will participate in authentic experiences, including fifteen clock hours of field observations in a K-12 school setting. Students will explore, reflect, and begin to develop the skills necessary to become an elementary or secondary educator. The class offers a variety of perspectives on education, including historical, philosophical, social, legal, and ethical issues in a diverse society. In addition to practical experiences, students will learn about the organization and structure of our school system. Dual credit opportunity is available through this course.

BUS1041D EDUCATION 2 GRADE 11-12. Prerequisite is Introduction to Education.

Education 2 is a field experience course with each student spending a minimum of 40 clock-hours in a classroom setting. Coursework focuses on the development of human relations and problem-solving skills necessary for an effective classroom. Students examine various policies, procedures, and routine activities that are part of a teacher's role. This course will meet as a two period block during the school day. The 40 clock-hour field experience is mandatory for credit; students will provide transportation to offsite locations if needed. Dual credit opportunity is available through this course.

BUS4001 CONSUMER ECONOMICS GRADE 12.

Consumer Economics, a required course, will integrate economic concepts with consumer skills, a combination necessary for added satisfaction in the use of personal resources. Instruction will center on the student's role in the economy as a citizen, consumer, and worker. Topics will include money management, buying goods and services, housing, banking and the Federal Reserve System, financial institutions and the use of credit and loans, consumer protection, insurance, savings and investing, pricing of products, supply and demand, taxation, government, and the free enterprise system. The capstone project of the course is a real-life consumer simulation.

BUS4001C ONLINE CONSUMER ECONOMICS GRADE 12.

This online eLo course offers students an alternative to a traditional classroom setting while meeting the State of Illinois graduation requirement. The course will integrate economic concepts in combination with development of financial literacy and consumer responsibility. Instruction centers on the role of individuals in the economy – as citizens, workers, and consumers. Students develop skills related to money management; decision-making, use of credit, insurance, savings, investing, taxation, and consumer protection. A deeper understanding of the free enterprise system and laws of supply and demand are developed through real-life consumer simulations.

BUS4003A AP (ADVANCED PLACEMENT) MACROECONOMICS GRADE 12. Weighted grade.

This college-level course deals with macroeconomics and includes such topics as the Fiscal and Monetary policy, GDP, inflation, unemployment, and the global economy. Studies also include consumer topics to satisfy the state requirement for Consumer Economics. Students who successfully complete this course and the AP Macroeconomics examination may receive college credit and/or higher placement in college. A workbook fee will be charged.

BUS4002A AP (ADVANCED PLACEMENT) MICROECONOMICS GRADE 12. Weighted grade. Prerequisite is AP Macroeconomics.

This college-level course deals with topics pertaining to microeconomics, including the study of the market system, pricing, resource allocation, distribution, and current domestic economic problems. Students who successfully complete this course and the AP Microeconomics exam may receive college credit and/or higher placement in college. A workbook fee will be charged.

BUS3007 BUSINESS INTERNSHIP GRADE 11-12. *Two credits. Year-long. Approval of Business Internship Coordinator or Business Education teacher.*

This is a cooperative work program between the school and employers. Students work outside of school and also attend class on a daily basis. Topics discussed in class pertain to work-related and career issues. A student will receive one credit for classroom instruction and one credit for on-the-job training. The internship instructor will assist with job placement and monitor students' progress throughout the year. Early dismissal is NOT a requirement for this program. Students must provide own transportation.

BUS3020 VIRTUAL ENTERPRISES INTERNATIONAL GRADE 11-12. *Weighted grade. Year long. Prerequisite is two semesters of business courses and approval of a Business Education teacher.*

This capstone course provides a simulated business environment in which students create and manage a virtual company, conducting business with other virtual firms nationally and internationally. Students are involved in every aspect of running the business, including human resources, accounting, product development, production, distribution, marketing, and sales. In the simulated business environment, students belong to a specific department depending on skills, prior knowledge, and personal interest. Leadership opportunities within the firm provide further relevant experience. The program enables participants to experience careers, acquire global economic knowledge, develop interpersonal and organizational skills, utilize technology as applied in business, and gain a clear understanding of how employees work together to meet the goals of the company while at the same time conveying the professional expectations of the workplace.

ENGLISH

Diane Tancredi, Department Chairperson - MVHS

Karen Lawson, Department Chairperson - NVHS

TBD, Department Chairperson - WVHS

A student must be registered in a core English course each semester. The curriculum builds language skills sequentially from freshman through senior levels. Writing-based courses introduce, develop, and refine student skills in all aspects of the writing process including literary analyses, personal essays, and creative writings. In addition, reading development is approached through the various literature studied in each course. Literature at the high school level contains mature content.

THE FIRST THREE YEARS OF ENGLISH COURSE WORK CONSIST OF THREE FULL-YEAR CORE COURSES: ENGLISH 1, 2 AND 3. SENIOR YEAR, THE STUDENT MUST TAKE A MINIMUM OF TWO SEMESTER COURSES FROM THE LIST OF SENIOR CHOICES.

The Communication Electives (special-interest courses) may be taken in addition to the core curriculum, but do not count toward fulfillment of English requirements for graduation.

Because Honors and Advanced Placement (AP) course work is accelerated and more sophisticated, upper level work of high quality in a compacted time frame is demanded of students. The English Department has developed a recommendation process for student placement. These placement criteria are indicators of performance levels or standards for the Honors or AP courses and are available from the English Department.

ENGLISH COURSE LISTINGS

FRESHMAN COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
ENGL1001	English 1-Academic Literacy and Composition	Yr. 9	Does not meet NCAA requirement
ENGL1020	English 1-Literature, Language and Composition	Yr. 9	None
ENGL1000H	English 1-Honors Literature, Language and Composition	Yr. 9	None

SOPHOMORE COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
ENGL2002	English 2-Academic Literacy and Composition	Yr. 10	Does not meet NCAA requirement
ENGL2000	English 2-American Literature and Composition	Yr. 10	
ENGL2000H	English 2-Honors American Literature and Composition	Yr. 10	
ENGL2025B	English 2-American Society (2-period block)	Yr. 10	

JUNIOR COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
ENGL3000	English 3-Comparative Studies and Composition	Yr. 11	
ENGL3000A	English 3-Advanced Placement Language and Composition	Yr. 11	

Juniors not in ENGL3000R or ENGL3000A must take ENGL3000.

SENIOR COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
ENGL4000	English 4 – Media Communication and Composition	Yr. 12	Does not meet NCAA requirement
ENGL4003A	English 4-Advanced Placement Literature and Composition	Yr. 12	

Seniors not in ENGL4000 or ENGL4003A must take two courses from the following seven choices:

ENGL4001	English 4-Composition and Media	Sem. 12	Does not meet NCAA requirement
ENGL4002	English 4-20th Century Literature and Composition	Sem. 12	
ENGL4004	English 4-Poetry and Composition	Sem. 12	
ENGL4012	English 4-World Literature 1 and Composition	Sem. 12	
ENGL4013	English 4-World Literature 2 and Composition	Sem. 12	
ENGL4007	English 4-Philosophy through Literature and Composition	Sem. 12	
ENGL4008	English 4-Communication and Composition	Sem. 12	

COMMUNICATION ELECTIVES

COURSE#	TITLE	LEVEL	PREREQUISITE
ENGL2012	Public Speaking	Sem. 10-12	None
ENGL2013	Theatre Arts I	Sem. 9-12	None
ENGL2014	Theatre Arts 2	Sem. 10-12	Theatre Arts I
ENGL2015	Creative Writing I	Sem. 10-12	None
ENGL2016	Creative Writing 2	Sem. 11-12	Creative Writing I
ENGL2017	Newspaper Journalism	Yr. 10-12	Instructor Approval
ENGL2018	Yearbook Journalism	Yr. 10-12	Instructor Approval
ENGL2002L	Reading – Academic Literacy	Yr. 9	Placement
ENGL1035	Literacy Strategies 1	Yr. 9	Placement required
ENGL2023	Literacy Strategies 2	Yr. 10	Placement required
ENGL3022	Literacy Strategies 3	Yr. 11	Placement required
ENGL2034C	Online African American Literature	Yr. 10-12	None

ENGLISH COURSE DESCRIPTIONS

All English courses are year-long unless noted.

FRESHMEN LEVEL CORE COURSE

ENGL1001 ENGLISH 1 ACADEMIC LITERACY AND COMPOSITION *Year-long.*

This course focuses on the development of reading skills through the analysis of fiction, nonfiction, short story, novel, poetry, and drama. Descriptive, expository, argumentative, and narrative writing, as well as basic research techniques and communication skills are addressed. In addition, students refine grammar and usage skills through the writing process and effective composition strategies. This full-year course meets for two consecutive periods providing time for practice and growth in reading. This course is not NCAA core approved.

ENGL1020 ENGLISH 1 LITERATURE, LANGUAGE AND COMPOSITION *Year-long.*

This course targets literary analysis through study of mythology, short story, novel, poetry, and drama. Descriptive, expository, argumentative, and narrative writing, as well as basic research techniques and speaking and listening skills are emphasized. In addition, students will refine grammar and usage skills through the writing process and effective composition strategies.

ENGL1000H ENGLISH 1 HONORS – LITERATURE, LANGUAGE AND COMPOSITION *Year-long. Weighted grade.*

This course includes mythology, short story, novel, poetry, and tragic drama. Refinement of the principles of grammar, usage, and precision of expression is taught through emphasis on effective composition skills. Students will analyze literature and utilize critical thinking through the writing of expository, argumentative, and narrative essays. Through the study of literature, composition, and argumentation, this course prepares students for the Advanced Placement test as juniors and seniors.

SOPHOMORE LEVEL CORE COURSE

ENGL2002 ENGLISH 2 – ACADEMIC LITERACY AND COMPOSITION *Year-long.*

This course focuses on the development of reading skills through the analysis of fiction, nonfiction, short story, novel, poetry, and drama. Descriptive, expository, persuasive, narrative, and literary analysis writing, as well as basic research techniques and communication skills, are addressed through instruction. In addition, students refine their grammar and usage skill through the writing process and the application of essential composition strategies. This full-year course meets for two consecutive periods providing time for practice and growth in reading and writing. This course is not NCAA core approved.

ENGL2000 ENGLISH 2 – AMERICAN LITERATURE AND COMPOSITION *Year-long.*

This course includes the study of American Literature from colonial through contemporary periods using thematic strands. Students will read journals, biographies, essays, novels, short stories, plays, and poetry representing American authors and authors of various ethnic backgrounds. The literature will promote students' analytical abilities and will encourage critical thinking through the writing of expository, argumentative, and narrative essays. Speaking and listening skills are also emphasized.

ENGL2000H ENGLISH 2 HONORS – AMERICAN LITERATURE AND COMPOSITION *Year-long. Weighted grade.*

This course includes the study of American literature from colonial through contemporary periods using thematic strands. Students will read journals, biographies, essays, novels, short stories, plays, and poetry representing American authors and authors of various ethnic backgrounds. The literature will promote students' analytical abilities and will encourage critical thinking through the writing of expository, argumentative, and narrative essays. In addition, the literature will serve as models and material for speaking in persuasive, informative, and entertainment forums. Through the study of literature, composition, and argumentation, this course continues to prepare students for Advanced Placement tests as juniors and seniors.

ENGL2025B AMERICAN SOCIETY – 2 PERIOD BLOCK: ENGLISH 2 & AMERICAN HISTORY *Two periods. Year-long.*

This course provides a two-credit alternative to separate American Studies and English classes. Students will receive individual grades for each course and will fulfill the graduation requirements for both Sophomore English and American History. The linkage between the two courses allows for many opportunities to emphasize the connections between American literature, history, art, music, and architecture through team-teaching, joint assignments, and projects. The course demands active student participation, intensive outside reading, and experiences beyond the classroom (i.e. field trip, projects). One credit of English and one credit of Social Studies is awarded upon successful completion of this course.

JUNIOR LEVEL CORE COURSE**ENGL3000R ENGLISH 3 – COMPARATIVE STUDIES AND COMPOSITION** *Year-long.*

This course emphasizes a range of fiction and non-fiction texts arranged in thematic units. It is designed to improve reading, writing, and speaking skills. It is designed to reinforce valuable principles and usage of reading along with an emphasis on improving composition skills. Students complete a research project during the second semester. This course is not NCAA core approved.

ENGL3000 ENGLISH 3 – COMPARATIVE STUDIES AND COMPOSITION *Year-long.*

This required course (except for students taking ENGL3000R or ENGL3000A) continues college preparation of language and composition through a skills-based study of a wide variety of texts representing multiple cultures and genres. Students will utilize skills to critically analyze information, synthesize valid sources, and develop cogent arguments while implementing 21st-century skills and technologies.

ENGL3000A ENGLISH 3 – ADVANCED PLACEMENT LANGUAGE AND COMPOSITION *Year-long. Weighted grade.*

This course emphasizes the study of verbal and written language, rhetoric, and argumentation. Students in this course participate in the reading and writing of a variety of challenging texts. Students who successfully complete this course and the AP English Language and Composition exam may receive college credit and/or higher placement in college.

SENIOR LEVEL CORE COURSE**ENGL4000 ENGLISH 4 – MEDIA COMMUNICATION AND COMPOSITION** *Year-long.*

This course focuses on various aspects of film study including the technical viewpoint, the historical significance, and the visual approaches used to demonstrate thematic ideas in film. Also, students will focus on communication skills needed to effectively connect with others in their environment, personal relationships, daily activities, and professional settings. Students will focus on logically developing ideas with appropriate evidence, clear and precise language, and varied sentence structure. In this course students will utilize and refine their reading, writing, listening, and speaking skills. This course is not NCAA Eligibility Center approved.

ENGL4003A ENGLISH 4–ADVANCED PLACEMENT LITERATURE AND COMPOSITION *Year-long. Weighted grade.*

Through the study of a variety of genres (poetry, short story, novel, essays, media) and exposure to various text styles, students will enhance their verbal and written text analysis skills. Students who successfully complete this course and the AP English Literature and Composition examination may receive college credit and/or higher placement in college. Students in this course also frequently add a senior choice to their semester studies. Literature read in this course contains mature content.

SENIOR LEVEL CHOICES

The following are semester-long senior classes. Seniors may choose two of the following electives to complete the high school, four-year English requirement. Seniors in English 4000, 4000R, 4003A may opt to take these Senior Choice courses as electives only.

ENGL4001 ENGLISH 4 – COMPOSITION AND MEDIA *One semester.*

This semester course compares literature to media, the study of historical periods in media development, and the technology of media production, in order to have seniors become visually literate, critical thinkers, and evaluative writers when interpreting media. To show mastery, students will respond through a variety of venues such as written analyses and class presentations. This class will hone critical thinking and composition skills learned in previous English courses while instructing students on the concept of visual literacy. This course is not NCAA Eligibility Center approved.

ENGL4002 ENGLISH 4 – 20TH CENTURY LITERATURE AND COMPOSITION *One semester.*

This course allows seniors the opportunity to read a variety of contemporary novels, plays, and short stories. Building on textual knowledge, critical thinking, and composition skills developed in previous English classes, students will question and determine the role of contemporary literature in society through a variety of written analyses, class presentations, and quarterly projects. Literature read in this course contains mature content.

ENGL4004 ENGLISH 4 – POETRY AND COMPOSITION *One semester.*

This course allows seniors the opportunity to enhance their creative expression by developing the skills and commitment essential for reading and writing poetry. Through the study of classical, modern, and contemporary poetry, students will be asked to respond to a wide variety of poetic prompts, and, in a workshop setting, to analyze and learn from one another's writing. Students will be encouraged to submit their writing for publication.

ENGL4012 ENGLISH 4 WORLD LITERATURE 1 AND COMPOSITION *One semester.*

This one-semester course will provide students with an overview of timeless literary works from around the world. Students will read and respond to selected novels, plays, short stories, essays, and poetry. Students will gain an understanding of works of literary merit from other cultures and the universality of the human condition. Literature read in this course contains mature content.

ENGL4013 ENGLISH 4 – WORLD LITERATURE 2 AND COMPOSITION *One semester.*

This course offers a continuation of the curriculum and intent of World Literature 1, although World Literature 1 is NOT a prerequisite. The course provides students with further exploration of timeless major literary works from around the world. Students will read and respond to selected novels, plays, short stories, essays, and poetry, gaining an understanding of works of literary merit from other cultures and the universality of the human condition. Literature read in this course contains mature content.

ENGL4007 ENGLISH 4 – PHILOSOPHY THROUGH LITERATURE AND COMPOSITION *One semester.*

In this course students will analyze the cultural roots of civilization through an examination of selected literature and its philosophies, preparing students for further study and enhancing their understanding of broader profound concepts such as knowledge, truth, the difference between right and wrong, justice, evil, fate, freedom, and beauty. Through this study students will hone critical thinking skills, study the basic principles of argumentation, and create cogent arguments in both discussion and writing.

ENGL4008 ENGLISH 4 – COMMUNICATION AND COMPOSITION *One semester.*

This course concentrates on communicating effectively in the academic environment, personal relationships, daily activities, and professional settings. Students will utilize and refine their reading, writing, listening, and speaking skills. Students will focus on logically developing ideas with appropriate evidence, clear and precise language, and varied sentence structure. They will learn how to effectively communicate in different settings through instruction on teamwork, problem solving, technological application, leadership skills, and interaction with people in various roles and work situations, all to help them become successful communicators in the world beyond high school.

COMMUNICATION ELECTIVES

These courses count toward graduation as general electives, but NOT as fulfillment of the four-year English graduation requirement.

ENGL2012 PUBLIC SPEAKING GRADE 10-12. *One semester.*

This course develops essential oral communication skills introduced previously in the language arts experience. Individual speeches, such as children's stories, prose reading, award acceptance, impromptu speaking, radio speaking, and original essays are performed in this semester program. Special attention is given to acquiring poise, confidence, and dignity as a speaker.

ENGL2013 THEATRE ARTS 1 GRADE 9-12. *One semester.*

This course is a student-oriented class that focuses on the theory of acting, the process of directing, and the elements of technical theatre. Theory will be interlaced with opportunities for hands-on involvement at all levels of the theatrical experience.

ENGL2014 THEATRE ARTS 2 GRADE 10-12. *One semester. Prerequisite is Theatre Arts 1*

This course builds upon concepts learned in Theatre Arts I while still centering on student participation and involvement. The focuses will be on more advanced styles of acting and more specific responsibilities inherent to the directing process, including technical aspects of theatre.

ENGL2015 CREATIVE WRITING 1 GRADE 10-12. *One semester.*

This course enhances creative and imaginative expression by developing the skills, style, and commitment essential for effective writing. Students will create within a variety of genres: journals, short stories, poetry, essays, and drama.

ENGL2016 CREATIVE WRITING 2 GRADE 11-12. *One semester. Prerequisite is Creative Writing 1*

This course significantly extends the writing experiences introduced in Creative Writing 1 Its primary focus will be on poetry and short story writing. Students will create a portfolio for both poetry and short stories and will submit some of their work for publication.

ENGL2034C ONLINE AFRICAN-AMERICAN LITERATURE GRADE 10-12 *One Semester.*

This online eLo course provides a historical overview of African-American literature, from Frederick Douglass' slave narrative to contemporary hip-hop music. Students will examine the importance of literacy, story craft, and social responsibility in the African-American literary tradition. Course materials include poetry, drama, non-fiction, novels, film and music.

ENGL2017 NEWSPAPER JOURNALISM GRADE 10-12. *Prerequisite is instructor's permission based on teacher recommendations regarding the student's writing ability, creativity, and dependability. A test of basic writing skills and an interview may also be administered.*

This course develops writing, interviewing, and design skills which are applied when students produce the school newspaper.

NOTE: This course may be repeated from the sophomore through the senior year with permission of the instructor.

ENGL2018 YEARBOOK JOURNALISM GRADE 10-12. Prerequisite is instructor's permission based on teacher recommendations regarding the student's writing ability, creativity, and dependability. A test of basic writing skills and an interview may also be administered.

This course develops skills such as writing copy, designing spreads, and desktop publishing. Students develop computer literacy skills and meet specific deadlines in order to produce the annual high school yearbook. *NOTE: This course may be repeated from the sophomore through the senior year with permission of the instructor.*

ENGL1035 LITERACY STRATEGIES 1 *Grade 9-11. Year-long. Placement required.*

ENGL2023 LITERACY STRATEGIES 2 *Grade 9-11. Year-long. Placement required.*

ENGL3022 LITERACY STRATEGIES 3 *Grade 9-11. Year-long. Placement required.*

Literacy Strategies is a year-long course designed to improve a student's reading skills. Literacy Strategies will emphasize comprehension strategies, vocabulary development, study skills, transference of reading strategies to content-area classes, enjoyment of reading, and written response to text.

ENGLISH LANGUAGE LEARNING PROGRAM

Rafael Segarra, Director of ELL Programs
Traci Salek, District ELL Program Coordinator
Tammie Black, Department Chairperson, MVHS
Tom McManamen, Department Chairperson NVHS
Laura McAran, Department Chairperson, WVHS

The high school ELL program offers English Language Learners a series of courses to assist them in attaining English language proficiency and in meeting state learning standards. Students are referred to and placed in this program based upon the district Home Language Survey, classroom performance, and/or assessment by the ELL teacher.

ELL COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
ELL1000	ELL Resource	Yr.	Placement
ELL1001	Intensive ELL Resource	Yr.	Placement
ELL1002	English 1 for ELL Students	Yr.	Placement
ELL2000	English 2 for ELL Students	Yr.	Placement
ELL2001B	Intensive ELL English 2 (2 periods)	Yr.	Placement
ELL1003	Spanish for Spanish Speakers I	Yr.	Placement
ELL1004	Bilingual Resource	Yr.	Placement
ELL1101B	Intensive ELL English 1 (2 periods)	Yr.	Placement
ELL3000	English 3 for ELL Students	Sem.	Placement
ELL2002	Spanish for Spanish Speakers 2	Yr.	Placement

ENGLISH LANGUAGE LEARNING PROGRAM DESCRIPTIONS

ELL1000 ELL RESOURCE

This class provides academic support to English language learners to enable them to be successful in their core academic classes. Students receive assistance with the development of cognitive academic language as well as with reading and writing skills. Students receive elective credit for successful completion of this class.

ELL1001 INTENSIVE ELL RESOURCE

This class is for the students in the Intensive English 1 class. It provides them with academic support to enable them to succeed in their core academic classes. Students receive assistance with the development of cognitive academic language as well as with reading and writing skills. Students will receive elective credit for successful completion of this class.

ELL1101B INTENSIVE ELL ENGLISH 1

This is an English class for students who are new to the United States and for whom English is a new language. The focus of this class is on listening, speaking, reading, and writing. Vocabulary and grammar development, as well as basic reading and writing skills, are emphasized. Students also learn about the history and culture of the United States. This class meets for two periods a day. Students enrolled in this class must also enroll in either Intensive ELL Resource or Bilingual Resource. Students will receive 1 core English credit and 1 English elective credit for this class.

ELL1002 ENGLISH 1 FOR ELL STUDENTS

This is an English class for English language learners who have completed Intensive ELL English 2 or who have a comparable level of English language proficiency. The focus of this class is on further developing the student's listening, speaking, reading, and writing skills. Vocabulary and grammar development, reading strategies, literature interpretation, and basic research techniques, as well as descriptive, narrative, persuasive, and expository writing are emphasized. Students enrolled in this class should also be enrolled in either ELL Resource or Bilingual Resource. Students will receive core English credit for this class.

ELL2000 ENGLISH 2 FOR ELL STUDENTS

This is an English class for English language learners who have completed English 1 for ELL students or who have a comparable level of English language proficiency. The focus of this class is on the continuing development of the student's listening, speaking, reading, and writing skills. Emphasis is on vocabulary and grammar development, reading strategies, literature interpretation, advanced research techniques, and writing expository, narrative, and persuasive essays. Students enrolled in this class should also be enrolled in ELL Resource. Students will receive core English credit for this class.

ELL2001B INTENSIVE ELL ENGLISH 2

This is an English class for students who have completed Intensive ELL English 1 or who have a comparable level of English language proficiency. It focuses on further development of vocabulary and grammar along with reading and writing skills. This class meets for two periods a day. Students enrolled in this class must also enroll in either ELL Resource or Bilingual Resource. Students will receive 1 core English credit and 1 English elective credit for this class.

ELL1003 SPANISH FOR SPANISH SPEAKERS I

This class is designed to develop the native language literacy skills of English language learners whose first language is Spanish. The focus of this class is on reading, writing, and grammar skills. Students will also learn about the history and culture of countries where Spanish is spoken. Students will receive elective credit for successful completion of this class

ELL2002 SPANISH FOR SPANISH SPEAKERS 2

This class is designed to further develop the native language literacy skills of English language learners whose first language is Spanish. This class will focus on expanding the students' knowledge of reading, writing, and grammar skills as well as their knowledge of history and culture. This class is for students who have successfully completed Spanish for Spanish Speakers 1 or who have tested at an equivalent proficiency level in Spanish. Students will receive elective credit for successful completion of this class.

ELL1004 BILINGUAL RESOURCE

This class provides native language academic support to English language learners whose first language is Spanish. Spanish-speaking English language learners may choose to take Bilingual Resource instead of ELL Resource. Students will receive elective credit for successful completion of this class.

ELL3000 ENGLISH 3 FOR ELL STUDENTS

This is a one-semester English class for English language learners who have completed English 2 for ELL students. The focus of this class is on strengthening the student's listening, speaking, reading, and writing skills. Strong emphasis is placed on reading strategies, literature interpretation and analysis, and writing expository, narrative, and persuasive essays. Students enrolled in this class should also be enrolled in ESL Resource. Students will receive core English credit for this class.

FAMILY AND CONSUMER SCIENCE

Brian Giovanini, Department Chairperson – MVHS

Lisa Traut, Department Chairperson – NVHS

Andrea Hendrickson, Department Chairperson – WVHS

The Family and Consumer Science Department offers students an opportunity to select from a range of courses. These courses can be chosen to prepare the student for continued education, employment after graduation, or for personal satisfaction. In many of these classes, students complete projects that can be taken home. There are material fees associated with such classes.

FAMILY AND CONSUMER SCIENCE COURSE LISTINGS

APPAREL & FASHION COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
FACS1000D	Apparel Construction 1	Yr. 9-12	None
FACS2000D	Apparel Construction 2	Yr. 10-12	Apparel Construction 1
FACS2001	Fashion Merchandising & Marketing	Sem. 10-12	None
FACS3013I	Independent Study	Sem. 11-12	Apparel Construction 2; Instructor approval
BUS3007	Business Internship	Yr. 11-12	Instructor approval

CULINARY ARTS COURSES

* Denotes required lab fee.

COURSE#	TITLE	LEVEL	PREREQUISITE
FACS1001	Introduction to Culinary Arts *	Sem. 9-12	None
FACS1005	Pastry Arts *	Sem. 9-12	Introduction to Culinary Arts or Senior Foods
FACS2002	International and Regional Foods*	Sem. 10-12	Pastry Arts
FACS3002	Catering and Hospitality*	Sem. 11-12	Three previous foods classes; Instructor approval
FACS3003I	Independent Study*	Sem. 11-12	Catering and Hospitality; Instructor approval
FACS4000D	Senior Foods*	Sem. 12	None
BUS3007	Business Internship	Yr. 11-12	Instructor approval

CHILD DEVELOPMENT COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
FACS2003	Child Development	Sem. 10-12	None
FACS3006	Early Childhood Teaching Lab	Sem. 11-12	Child Development; Instructor approval
FACS3005I	Independent Study	Sem. 11-12	Early Learning Lab; Instructor approval
BUS3007	Business Internship	Yr. 11-12	Instructor approval

HOUSING & DESIGN COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
FACS2004	Interior Design	Sem. 10-12	None
FACS3008I	Independent Study	Sem. 11-12	Instructor approval
BUS3007	Business Internship	Yr. 11-12	Instructor approval

INDEPENDENT LIVING COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
FACS3010	Individual & Family Relationships	Sem. 11-12	None
FACS3011	Parenting	Sem. 11-12	None
FACS4000D	Senior Foods*	Sem. 12	None

* Denotes required lab fee.

FAMILY & CONSUMER SCIENCE DUAL CREDIT WITH COLLEGE OF DUPAGE

Students enrolled in the following courses may apply to earn dual credit with COD. High School students who wish to take the course listed below for dual credit will receive college credit and a COD transcript regardless of whether or not they continue at College of DuPage. These credits may be transferable to other institutions. All dual credit opportunities are pending an agreement between IPSD and COD. To qualify for dual credit, students must complete appropriate applications and placement testing as required by COD. Freshmen are not eligible for dual credit.

COURSE COMPLETED AT MVHS, NVHS. WVHS	CREDIT AT COD
Apparel Construction 1: Course FACS1000D	Fashion Merchandising & Design 1155: Clothing Construction 1 (3 hrs. credit)
Apparel Construction 2: Course FACS2000D	Fashion Merchandising & Design 1156 Clothing Construction 2 (3 hrs. credit)
Senior Foods: Course FACS4000D	Healthy Eating PHYS1554 (1 hr. credit)

FAMILY AND CONSUMER SCIENCE COURSE DESCRIPTIONS

FACS1000D APPAREL CONSTRUCTION 1 GRADE 9-12. Year-long.

Whether for personal use or a career in clothing and fashion, this course provides an opportunity to develop basic skills for clothing construction. Techniques used to construct four projects including: a skirt/pants, dress/top, shirt, and a knit garment are covered. Students are encouraged to select pattern and materials according to their needs and abilities. Materials and supplies for the four projects are to be furnished by the student. COD Dual Credit available.

FACS2000D APPAREL CONSTRUCTION 2 GRADE 10-12. Year-long. Prerequisite: Apparel Construction 1.

Students who have successfully completed Apparel Construction 1 will be ready for the advanced pattern and fabric study in this course. Projects include fitting pants, working with sheer fabrics, plaids, and lined projects. Other topics include the principles and elements of design, textiles, and career opportunities. Materials and supplies for the four projects are to be furnished by the student. COD Dual Credit available.

FACS2001 FASHION MERCHANDISING & MARKETING GRADE 10-12. One semester.

This course is designed for the student to explore and understand the various facets of today's fashion industry. Areas included are fashion design, fashion buying, merchandising, and the retail function. Career exploration in related fields of study will be explored. This course may be taken for enrichment or as preparation for further training in fashion-related occupations.

FACS1001 INTRODUCTION TO CULINARY ARTS GRADE 9-12. One semester.

Develop life-long culinary skills in Introduction to Culinary Arts. Food science principles and culinary techniques are applied as students prepare a variety of recipes in the lab. There is an emphasis on healthy eating and nutrition. Career exploration in related fields of study will be incorporated. A lab fee will be charged.

FACS1005 PASTRY ARTS GRADE 9-12. One semester. Prerequisite is Introduction to Culinary Arts or Senior Foods.

Pastry Arts is a hands-on lab course. Students will apply the food science principles learned in the Pastry Arts classroom during their lab experiences. Areas of emphasis are quick breads, yeast breads, cakes, cookies, and pies. Cross-curricular academics include culinary math, literacy comprehension, and food science principles. A lab fee will be charged.

FACS2002 INTERNATIONAL AND REGIONAL FOODS GRADE 10-12. One semester. Prerequisite is Pastry Arts.

This course will provide the student the opportunity to experience how food and its preparation varies by region and by country. Students will learn about different ingredients and techniques to broaden their culinary horizons. Due to the scope of study, students may enroll in this class for a second semester. A lab fee will be charged.

FACS3002 CATERING AND HOSPITALITY GRADE 11-12. One semester. Prerequisite is completion of three foods classes or instructor approval.

Units in this course combine lecture and laboratory work to provide an introduction to the food service industry. Students will have the opportunity to improve their skills and expand their culinary expertise in the areas of food preparation, quantity food production, and food management. Careers in the food service industry will be explored. A lab fee will be charged.

FACS4000D SENIOR FOODS GRADE 12. One semester.

Senior Foods is fundamental for anyone who wants to create healthy alternatives to eating fast food and wants a basic cooking course. The course is designed to give students a sampling of the following areas of study: simple food preparation, nutrition, basic meal planning, purchasing of food, time management, and care and use of cooking equipment and appliances. COD Dual Credit available. A lab fee will be charged.

FACS2004 INTERIOR DESIGN GRADE 10-12. One semester.

This course explores concepts and career choices of interior design. Students are introduced to architectural styles, alternative housing styles, basic blueprint reading, principles and elements of design, and the use of color. Students make choices in decorating and furniture arrangement. Hands-on projects enable the student to link concepts with visual images.

FACS3010 INDIVIDUAL & FAMILY RELATIONSHIPS GRADE 11-12. One semester.

This course is designed to help students to develop a greater understanding of self and others in order to enhance future relationships. An empathic approach to intellectual, emotional, and physical relationships is taken, using statistically-sound research as a basis for discussions. Topics include self-awareness, decision-making, communication, gender roles, dating, marriage, and family issues.

FACS2003 CHILD DEVELOPMENT GRADE 10-12. One semester. This course is designed to provide the student with an introduction to the intellectual, physical, emotional, and social development of a child from prenatal through preschool. It is beneficial both to the future parent and those interested in child-related careers. This class is the prerequisite for Early Childhood Teaching Lab, and the student must receive instructor approval to be eligible for the lab.

FACS3006 EARLY CHILDHOOD TEACHING LAB GRADE 11-12. One semester. Prerequisite is Child Development and instructor approval.

This is a capstone course for the highly-motivated student interested in education or a child-related career such as pediatric medicine, child psychology, speech pathology, or social work. Strong academic achievement in Child Development is a requirement and an excellent predictor of success in this course. The students will be responsible for planning, preparing, and teaching three- and four-year old children in a preschool lab contained within the department. This is a repeatable elective.

FACS3011 PARENTING GRADE 11-12. One semester.

This course is designed to give the student an overview of parenting and the knowledge necessary for effective parenting. Developing healthy family relationships is emphasized. Some of the parenting skills included are decision-making, family resource management, and child-guidance techniques. Throughout the course, interactions between parent and child will be explored. The needs, concerns, joys, and responsibilities of parenting are emphasized.

INDEPENDENT STUDY

FACS3013I CLOTHING & FASHION

FACS3003I CULINARY ARTS

FACS3005I CHILD DEVELOPMENT

FACS3008I HOUSING & DESIGN

GRADE 11-12. Requires instructor approval.

This course provides the student an opportunity for advanced work in clothing and fashion, food service, interior design, or early childhood. A contract between student and teacher will be jointly developed specifying goals and objectives. A portfolio will be created by the student. It is an individually-directed study and requires a high degree of motivation and self-discipline. See a teacher in the department for an application.

BUS3007 BUSINESS INTERNSHIP GRADE 11-12. Two credits. Year-long. Requires Instructor Approval

This is a cooperative work program between the school and employers. Students work outside of school and also attend class on a daily basis. Topics discussed in class pertain to work-related and career issues. A student will receive one credit for classroom instruction and one credit for on-the-job training. The internship instructor will assist with job placement and monitor students' progress throughout the year. Early dismissal is NOT a requirement for this program. Students must provide own transportation.

MATHEMATICS

Jackie Palmquist, Department Chairperson – MVHS

Mary Nash, Department Chairperson - NVHS

Molly Owles, Department Chairperson - WVHS

The Mathematics curriculum is designed to meet the needs of all students. The curriculum is structured into three distinct sequences based upon student abilities. Any six semesters of mathematics, in the right sequence, will fulfill the three-year requirement for graduation.

All Math classes are year-long unless noted. Each course builds on the courses before it. The typical sequence includes some level of Algebra, Geometry, Algebra 2 Trigonometry & Statistics, Pre-Calculus, and Calculus.

Because Honors and Advanced Placement (AP) course work is accelerated and more sophisticated, upper level work of high quality in a compacted time frame is demanded of students. The Math Department has developed recommendations for student success. These criteria are indicators of performance levels or standards for the Honors or AP courses and are available from the Math Department.

MATHEMATICS COURSE LISTINGS

GENERAL COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
MATH1000	Math 100	Yr. 9	Placement required
MATH2000	Math 200	Yr. 9-10	Placement required
MATH3000	Math 300	Yr. 9-11	Placement required

COLLEGE PREP COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
MATH1002B	Algebra 1 Block/ Algebra 1 Academy (2 periods)	Yr. 9, 10	Teacher recommendation
MATH1002	Algebra 1	Yr. 9, 10	Teacher recommendation
MATH2007	Geometry Essentials	Yr. 10-12	Teacher recommendation
MATH1003	Geometry	Yr. 9-11	Teacher recommendation
MATH1003C	Online Geometry	Yr. 9-12	Teacher recommendation
MATH1004	Algebra 2 Trigonometry & Statistics	Yr. 9-12	Teacher recommendation
MATH3006	Algebra 2 Essentials	Yr. 10-12	Teacher recommendation
MATH3008C	Online Algebra 2/ Trigonometry	Yr. 9-12	Teacher recommendation
MATH3007	Trigonometry	Sem.11-12	Teacher recommendation
MATH3002	Probability & Statistics	Sem.11-12	Teacher recommendation
MATH2006	Precalculus	Yr. 10-12	Teacher recommendation
MATH3008	Calculus	Yr. 11-12	Teacher recommendation

ACCELERATED COLLEGE PREP COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
MATH1006A	AP Computer Science 1	Yr. 9-12	Teacher recommendation
MATH1003H	Honors Geometry	Yr. 9-10	Teacher recommendation
MATH1004H	Honors Algebra 2/Trig.	Yr. 9-11	Teacher recommendation
MATH2002A	AP Statistics	Yr. 10-12	Teacher recommendation
MATH2006H	Honors Precalculus	Yr. 10-12	Teacher recommendation
MATH3010A	AP Calculus AB	Yr. 11-12	Teacher recommendation
MATH3009A	AP Calculus BC	Yr. 11-12	Teacher recommendation
MATH4000D	Calculus 3	Yr. 11-12	Teacher recommendation

MATHEMATICS COURSE DESCRIPTIONS

All Math courses are year-long classes unless otherwise noted.

MATH1000 MATH 100 GRADE 9. *Placement required.*

This course is designed to meet the needs of students who have experienced difficulty in learning mathematics in a traditional format. The content of this course develops basic arithmetic and computational skills using a variety of activities and group projects. This is the first course in a three-course sequence. A TI-30X calculator (or equivalent) is required. This course is not NCAA core approved.

MATH2000 MATH 200 GRADE 9-10. *Placement required.*

This course stresses the applications of skills developed in Math 100. Practical applications used in everyday life situations will be emphasized. This course will cover pre-Algebra and some basic Geometry skills. Note-taking and study skills will be stressed. A TI-30X calculator (or equivalent) is required. This course is not NCAA core approved.

MATH3000 MATH 300 GRADE 9-11. *Placement required.*

Emphasis in this course is on basic Algebra skills, including studying and graphing linear and quadratic equations, and further exploring Geometry concepts developed from Math 200. An integration of Algebra and Geometry will be covered. Note-taking and study skills will be stressed. A TI-30X (or equivalent) calculator is required. This course is not NCAA core approved.

MATH1002B ALGEBRA 1 BLOCK/ALGEBRA 1 ACADEMY GRADE 9-10. *Placement required.*

This one-year Algebra 1 course meets daily one period in addition to the student's 1 period Algebra 1 course. This course is designed to support student learning in Algebra 1. In addition to pre-teaching and re-teaching Algebra 1 concepts, emphasis is placed on vocabulary, study skills, and mathematical habits of mind. Students earn one Algebra 1 credit and one general elective credit; the general elective credit is pass/fail). The Algebra 1 units include: solving equations and inequalities, linear and exponential functions, systems of linear equations, quadratic functions, and statistics. Math Practice Standards are the foundation of lessons, teaching students how to reason and think mathematically. A graphing calculator is required (TI-84 or equivalent is recommended).

MATH1002 ALGEBRA 1 GRADE 9-10 *Placement required.*

The Algebra 1 units include: solving equations and inequalities, linear and exponential functions, systems of linear equations, quadratic functions, and statistics. The Math Practice Standards are the foundation of lessons, teaching students how to reason and think mathematically. A graphing calculator is required (Ti-84 or equivalent is recommended). In order to be successful, students should have a solid foundation in 7th and 8th grade math.

MATH2007 GEOMETRY ESSENTIALS GRADE 10-12. *Placement required.*

Geometry Essentials covers all the basic geometry concepts, using problem-solving through inductive and deductive reasoning, but with little emphasis on formal proofs. The course includes topics such as distance concepts, angles, triangles, geometric inequalities, parallel and perpendicular lines and planes, polygons, circles, and spatial figures and their properties. Right-triangle trigonometry is introduced. A graphing calculator, compass, and protractor are required.

MATH1003 GEOMETRY GRADE 9-11. *Placement required*

The Geometry units include: transformations, constructions, congruence, properties and applications of quadrilaterals and circles, coordinate geometry, similarity, right triangle trigonometry, and surface area and volume of three-dimensional figures. The Math Practice Standards are the foundation of lessons, teaching students how to reason and think mathematically. A graphing calculator (TI-84 or equivalent is recommended), compass, and protractor are required.

MATH1003C ONLINE GEOMETRY GRADE 9-12 *Placement required*

This online eLo course provides students with the fundamental vocabulary, properties, language, content and procedures of geometry. Topics include triangles, circles, polygons, parallel lines, and inequalities, with an introduction to coordinate and solid geometry. Emphasis is placed on construction of formal proof, the analysis of the nature and structure of a logical system and on problem solving skills. This course includes applications of the students' algebraic skills.

MATH1003H HONORS GEOMETRY GRADE 9-10. *Placement required. Weighted Grade.*

In addition to covering the topics listed above for Geometry (MATH1003), this course provides a more rigorous and in-depth approach to covering geometric ideas and formal proofs. A graphing calculator, compass, and protractor are required.

MATH1004 ALGEBRA 2 TRIGONOMETRY & STATISTICS GRADE 9-12. *Placement required*

This course expands on concepts covered in Algebra 1 (MATH1002), but develops a deeper understanding while introducing more advanced algebra topics. The A2TS units include: linear models, linear systems, functions and relations, modeling and solving quadratic equations, polynomial functions, periodic functions, exponential and logarithmic functions, probability and statistics, and sequences and series. The Math Practice Standards are the foundation of lessons, teaching students how to reason and think mathematically. A graphing calculator (TI-84 or equivalent is recommended) is required.

MATH1004H HONORS ALGEBRA 2/TRIGONOMETRY GRADE 9-11. *Placement required. Weighted Grade.*

This course covers the same topics as MATH1004 Algebra 2/Trigonometry & Statistics with greater depth and some additions including sequences and series. Starting with a brief review of some basic axioms and properties in algebra, the course moves quickly to newer topics, integrating real-life applications. A summer packet of Algebra 1 problems may be required. A graphing calculator is required (TI-84 or equivalent is recommended).

MATH3006 ALGEBRA 2 ESSENTIALS GRADE 10-12. *Placement required*

This course is devoted to providing an understanding of advanced algebra topics and expanding on the concepts of Algebra 1 (MATH1002). If the student intends to take Pre-Calculus the following year, Trigonometry during the summer is required. A graphing calculator is required (TI-84 or equivalent is recommended).

MATH1004C ONLINE ALGEBRA 2/TRIGONOMETRY GRADE 9-12 *Placement required*

This online eLo course develops the algebraic concepts from Algebra I in greater depth. Emphasis is placed on basic operations associated with the real number system, polynomials and their various operations, graphs of linear equations, equalities and inequalities, matrices, quadratic functions, exponents and exponential functions. Algebra 2 is an essential course for those who plan to continue the study of mathematics in high school and college.

MATH3007 TRIGONOMETRY GRADE 11-12. *One semester. Prerequisite is Algebra 2 Essentials.*

This one-semester course emphasizes an understanding of the theoretical and practical concepts of trigonometry and their relationship to Algebra. A graphing calculator is required (TI-84 or equivalent is recommended).

MATH3002 PROBABILITY AND STATISTICS GRADE 11-12. *One semester. Prerequisite is Algebra 2 Essentials.*

This semester course emphasizes basic probability and statistical techniques. A graphing calculator is required (TI-84 or equivalent is recommended).

MATH2002A AP STATISTICS GRADE 10-12. *Prerequisite is Algebra 2 Trigonometry & Statistics or higher. Weighted Grade.*

The Advanced Placement course in statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students who successfully complete the course and AP examination may receive college credit and/or a higher placement in college. A summer reading assignment may be required. A graphing calculator is required (TI-84 or equivalent is recommended). *NOTE: A TI-89 is not equipped with a statistics package.*

MATH2006 PRECALCULUS GRADE 10-12. *Prerequisite is Algebra 2 Trigonometry & Statistics and placement.*

This one-year course serves as a prerequisite for Calculus or AP Calculus AB. A major emphasis is an extended study of various functions, analytic geometry, polynomial functions, transcendental functions, and an introduction to limits. Trigonometric functions are further studied and utilized to solve real-world problems. A summer packet may be required. A graphing calculator is required (TI-84 or equivalent is recommended).

MATH2006H HONORS PRECALCULUS GRADE 10-12. *Prerequisite is Honors Algebra 2/Trigonometry and placement. Weighted Grade.*

This one year course serves as the prerequisite for Calculus or AP Calculus AB or BC. In addition to those topics covered in Precalculus, parametric, vector, and polar functions are studied. A summer packet may be required. A graphing calculator is required (TI-84 or equivalent is recommended).

MATH1006A AP COMPUTER SCIENCE 1 GRADE 9-12. *Prerequisite is Geometry. Weighted Grade.*

This one-year introductory course emphasizes structured computer programming. JAVA is emphasized as a tool to develop problem-solving, encourage student creativity, and facilitate discovery learning. Students who successfully complete this course and the AP Computer Science A examination may receive college credit and/or a higher placement for a college course.

MATH3008 CALCULUS GRADE 11-12.

This calculus course reviews Precalculus concepts and introduces a study of limits, derivatives, integrals, and functions including trigonometric, exponential, and logarithmic functions. A graphing calculator is required (TI-84 or equivalent is recommended).

MATH3010A AP CALCULUS AB GRADE 11-12. *Prerequisite is Precalculus and placement. Weighted Grade.*

Topics include an in-depth study of a variety of functions and a study of limits. Additionally, differential and integral calculus with applications in optimization, related rates, area, and volume are covered. The demands of this course include analytical reasoning skills and disciplined study habits appropriate for continued success in college. Some independent study is required. This course is equivalent to the traditional college level Calculus I. Students who successfully complete this course and the AP Calculus AB examination may receive college credit and/or higher placement in college. A graphing calculator is required (TI-84 or equivalent is recommended).

MATH3009A AP CALCULUS BC GRADE 11-12. *Prerequisite is Honors Precalculus and placement Weighted Grade.*

This course covers everything listed in AP Calculus AB, with the additional topics of sequences and series, vector-valued functions, polar and parametric functions, and some proof of theorems. Extensive independent study is required. This course is equivalent to the traditional college level Calculus I and II. Students who successfully complete this course and the AP Calculus BC examination may receive college credit and/or higher placement in college. A graphing calculator is required (TI-84 or equivalent is recommended).

MATH4000D CALCULUS 3 (MATH 241 - 4 SEMESTER HOURS @ UNIVERSITY OF ILLINOIS)

CALCULUS OF SEVERAL VARIABLES GRADE 11-12. *Prerequisite is Calculus BC and a 4 or 5 on the AP Calculus BC exam.*

Contact the department chairperson for further explanation. Weighted Grade.

This course is the third course in Calculus and Analytic Geometry. Topics include three-dimensional space, functions of several variables, partial derivatives, and multiple integrals. This course uses MakingMath software. There is a fee associated with this course through University of Illinois. Qualifications on: <http://netmath.math.uiuc.edu/whoqual.html>.

MUSIC

Don Devany, Department Chairperson - MVHS

Charles Staley, Department Chairperson - NVHS

Mark Duker, Department Chairperson - WVHS

The Music Department encourages each student to explore his or her own capabilities in the area of Fine Arts. Through the courses listed below, students are offered the opportunity to perform, develop aesthetic awareness and appreciation, and acquaint themselves with various aspects of music theory and history.

MUSIC COURSE LISTINGS

VOCAL COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
MUSC1004	Cecilian Singers	Yr. 9	None
MUSC1005	Bass Chorus	Yr. 9-12	None
MUSC2003	Treble Choir	Yr. 10-12	Audition
MUSC2004	Concert Choir	Yr. 10-12	None
MUSC2005	* Varsity Singers	Yr. 10-12	Audition
MUSC2002	* Varsity Chamber Singers	Yr. 10-12	Audition
MUSC4001H	* Honors Varsity Chamber Singers	Yr.12	Audition, Previous HS Choral Experience & Instructor approval

ORCHESTRAL COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
MUSC1012	* Concert Orchestra	Yr. 9	Previous Orchestra Experience and/ or Instructor approval
MUSC1008	* Concert Strings	Yr. 9	Audition and Instructor approval
MUSC2008	* Symphonic Orchestra	Yr. 10-12	Previous Orchestra Experience and/ or Instructor approval
MUSC2006	* Symphonic Strings	Yr. 10-12	Audition and Instructor approval
MUSC1003	* Chamber Orchestra	Yr. 9-12	Audition and Instructor approval
MUSC1007	* Chamber Strings	Yr. 9-12	Audition and Instructor approval
MUSC4002H	* Honors Chamber Strings	Yr.12	Audition, Previous HS Orchestra Experience, and Instructor approval

* This is a two period class (paired with lunch).

BAND COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
MUSC1011	* Concert Band	Yr. 9	Previous Band Experience and/or Instructor approval
MUSC1006	* Concert Winds	Yr. 9	Audition and Instructor approval
MUSC2009	* Symphonic Band	Yr. 10-12	Previous Band Experience and/or Instructor approval
MUSC2007	* Symphonic Winds	Yr. 10-12	Audition and Instructor approval
MUSC1010	* Wind Symphony	Yr. 9-12	Audition and Instructor approval
MUSC1009	* Wind Ensemble	Yr. 9-12	Audition and Instructor approval
MUSC4003H	* Honors Wind Ensemble	Yr.12	Audition, Previous HS Band Experience & Instructor approval

THEORY COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
MUSC2000	Music Theory	Sem. 10-12	None
MUSC2001A	AP Music Theory	Yr. 10-12	Music Theory and/or proficiency exam
MUSC2000C	Online Music Theory	Yr. 10-12	None

MUSIC COURSE DESCRIPTIONS

All Music classes are year-long, unless noted. Courses requiring an audition are designated.

VOCAL COURSES

MUSC1004 CECILLIAN SINGERS GRADE 9.

This is the initial choral experience for grade 9 female voices. Emphases are on fundamentals of vocal technique and music literacy (understanding music notation). Music is selected from all periods. Cecillian Singers performs at all choral concerts. Participation in concert performances is required.

MUSC1005 BASS CHORUS GRADE 9-12.

Bass Chorus is a non-auditioned ensemble for grade 9-12 male voices. Emphasis is placed on fundamentals of vocal technique as it applies to the changing voice, as well as music literacy. Through the study of a varied selection of music literature, students enhance their understanding of music notation and other elements of music. Bass Chorus performs at all choral concerts. Participation in concert performances is required.

MUSC2003 TREBLE CHOIR GRADE 10-12. Audition and instructor approval required.

Entry-level expectations for this female voice choir include the ability to read musical notation and sight-sing accurately. Literature is selected with the more proficient singer in focus. Treble Choir performs at all choral concerts. Participation in concert performances is required.

MUSC2004 CONCERT CHOIR GRADE 10-12.

Concert Choir is a non-auditioned ensemble for grade 10-12 voices. The ensemble meets daily as a treble ensemble and combines in rehearsal with the Bass Chorus to perform SATB literature. Emphasis is placed on beginning and intermediate vocal/choral techniques and notational abilities. Literature is selected from all historical periods. Concert Choir performs at all choral concerts. Participation in concert performances is required.

MUSC2005 VARSITY SINGERS

MUSC2002 VARSITY CHAMBER SINGERS GRADE 10-12. Audition required.

The Varsity Choirs are the most advanced, mixed choral ensembles. Music-reading abilities and the demonstration of advanced vocal proficiencies are a prerequisite for these ensembles. Students in these courses are expected to be self-motivated and leadership oriented. Varsity Choirs will meet in two different sections: Varsity Singers and Varsity Chamber (most advanced). Members are expected to participate in 204 Solo & Ensemble Festival. These sections will rehearse and perform both separately and together at various concerts as determined by the directors. Combined rehearsal will take place during lunch period. Varsity and Varsity Chamber Singers perform at all choral concerts. Participation in concert performances is required.

MUSC4001H HONORS VARSITY CHAMBER SINGERS GRADE 12. Audition and instructor approval required. Weighted grade. SENIORS enrolled in MUSC4001H may be eligible to take this course for weighted credit. In addition to meeting all the criteria for the standard course, senior students eligible for a weighted grade will create a performance and research portfolio which will include four small ensemble performances with a comprehensive written critique: two evaluations of concert programs and tangible evidence of leadership activities leading to substantial musical achievement. Students may prepare auditions related to college applications in lieu of the fourth small ensemble performance.

ORCHESTRAL COURSES

A fee will be charged for all instrumental courses.

MUSC1012 CONCERT ORCHESTRA GRADE 9.

A non-auditioned ensemble that introduces freshmen to the high school orchestra experience. This class provides important formative experiences in musicianship. Students will be expected to develop their talents through completion of technique classes. Members may participate in the 204 Solo and Ensemble Festival. Participation in concert performances is required.

MUSC1008 CONCERT STRINGS GRADE 9. *Audition and instructor approval required.*

An auditioned group for students with advanced skills. Students will be expected to develop their talents through completion of technique classes. Members may participate in the 204 Solo and Ensemble Festival. Participation in concert performances is required.

MUSC2008 SYMPHONIC ORCHESTRA GRADE 10-12.

A non-auditioned ensemble that builds upon the formative experiences in musicianship of Concert Orchestra. Students will be expected to develop their talents through completion of technique classes. Members may participate in the 204 Solo and Ensemble Festival. Participation in concert performances is required.

MUSC2006 SYMPHONIC STRINGS GRADE 10-12. *Audition and instructor approval required.*

An auditioned ensemble for students with highly developed skills. Students will be expected to advance their talents through completion of technique classes. Members may participate in the 204 Solo and Ensemble Festival. Participation in concert performances is required.

MUSC1003 CHAMBER ORCHESTRA GRADE 9-12. *Audition and instructor approval required.*

An auditioned string ensemble which utilizes wind and percussion students from the Wind Symphony. Emphasis is placed on literature specific to the string ensemble. Students are assigned to chamber ensembles for technique class. Members may participate in Solo and Ensemble Festivals. Participation in concert performances is required.

MUSC1007 CHAMBER STRINGS GRADE 9-12. *Audition and instructor approval required.*

Chamber Strings offers the most advanced orchestral experience through the study and performance of college level works for string and full orchestra. This select string ensemble utilizes the most advanced wind and percussion students from the Wind Ensemble. Students are assigned to chamber ensembles for technique class. Due to the nature of part assignments, there is a strong emphasis on individual preparation for rehearsals and performances. Private study on principal instrument is strongly recommended. Members are expected to participate in 204 Solo & Ensemble Festival. Members will have the opportunity to audition for IMEA district festivals. Participation in concert performances is required.

MUSC4002H HONORS CHAMBER STRINGS GRADE 12. *Audition and instructor approval required. Weighted grade.*

SENIORS enrolled in MUSC4002H may be eligible to take this course for weighted credit. In addition to meeting all the criteria for the standard course, senior students eligible for a weighted grade will create a performance and research portfolio which will include four small ensemble performances with a comprehensive written critique: two evaluations of concert programs and tangible evidence of leadership activities leading to substantial musical achievement. Students may prepare auditions related to college applications in lieu of the fourth small ensemble performance.

BAND COURSES

A fee will be charged for all instrumental courses.

MUSC1011 CONCERT BAND GRADE 9.

This is a non-auditioned ensemble that introduces freshmen to the high school band experience. This class provides important formative experiences in musicianship. Students will be expected to develop their talents through completion of technique classes. Members may participate in the 204 Solo and Ensemble Festival. Participation in concert performances is required.

MUSC1006 CONCERT WINDS GRADE 9. *Audition and instructor approval required.*

This is an auditioned ensemble for students with advanced skills. Students will be expected to develop their talents through completion of technique classes. Members may participate in the 204 Solo and Ensemble Festival. Participation in concert performances is required. Participation in concert performances is required.

MUSC2009 SYMPHONIC BAND GRADE 10-12.

This is a non-auditioned ensemble that builds upon the formative experiences in musicianship experienced in Concert Band. Students will be expected to develop their music talents through completion of weekly technique classes. Members may participate in the 204 Solo and Ensemble Festival. Participation in concert performances is required.

MUSC2007 SYMPHONIC WINDS GRADE 10-12. *Audition and instructor approval required.*

This is an auditioned ensemble for students with highly developed skills. Members are expected to develop their talents through completion of weekly technique classes. Members may participate in the 204 Solo and Ensemble Festival. Participation in concert performances is required.

MUSC1010 WIND SYMPHONY GRADE 9-12. *Audition and instructor approval required.*

This ensemble provides sophisticated instrumental experiences through study and performance of masterworks for winds and percussion. Members are expected to advance their musicianship through completion of techniques classes. Members may participate in the 204 Solo and Ensemble Festival. Members may have the opportunity to audition for IMEA district festivals. Participation in concert performances is required.

MUSC1009 WIND ENSEMBLE GRADE 9-12. *Audition and instructor approval required.*

Wind Ensemble offers the most advanced instrumental experience through study and performance of college-level works for winds and percussion. Due to the soloist nature of part assignments, there is a strong emphasis on individual preparation for rehearsals and performance. Private study on principal instrument is strongly recommended. Members are expected to participate in 204 Solo & Ensemble Festival. Members will have the opportunity to audition for IMEA district festivals. Membership is determined by audition and consent of the instructor. Participation in concert performances is required.

MUSC4003H HONORS WIND ENSEMBLE GRADE 12. *Audition and instructor approval required. Weighted grade.* SENIORS enrolled in MUSC4003H may be eligible to take this course for weighted credit. In addition to meeting all the criteria for the standard course, senior students eligible for a weighted grade will create a performance and research portfolio which will include four small ensemble performances with a comprehensive written critique: two evaluations of concert programs and tangible evidence of leadership activities leading to substantial musical achievement. Students may prepare auditions related to college applications in lieu of the fourth small ensemble performance

THEORY COURSES

MUSC2000 MUSIC THEORY GRADE 10-12. *One semester.*

This music class is an introductory course to the basic building blocks of music. The content includes the following areas of concentration: scales, intervals, chord structure and progressions, beginning harmony, and elementary ear training. This course is especially useful for all serious music students who plan to continue in music beyond high school. Students will have the opportunity to complete assignments using MIDI keyboards and computers.

MUSC2000C ONLINE MUSIC THEORY GRADE 10-12 *One Semester*

This music class is an introductory course to the basic building blocks of music. The content includes the following areas of concentration: scales, intervals, chord structure and progressions, beginning harmony, and elementary ear training. Students will have the opportunity to complete assignments using MIDI keyboards and computers. This course is especially useful for all serious music students who plan to continue music beyond high school.

MUSC2001A AP (ADVANCED PLACEMENT) MUSIC THEORY GRADE 10-12. *Weighted grade. Prerequisite is Music Theory or placement exam.*

AP Music Theory is a continuation of MUSC2000. Students will study four-part writing, harmonic progression, texture, form, non-harmonic tones, and secondary dominants. Ear training and sight singing will be stressed. Students will have the opportunity to complete assignments using MIDI keyboards and computers. Students who successfully complete the course and AP Music Theory examination may receive college credit and/or a higher placement in college.

PHYSICAL EDUCATION, HEALTH EDUCATION, AND DRIVER EDUCATION

Craig Tomczak, Department Chairperson - MVHS

Bill Casey, Department Chairperson - NVHS

Kevin Chaffee, Department Chairperson - WVHS

The Physical Education programs seek to provide opportunities for each student to develop their individual fitness level through a wide variety of coeducational, fitness-based activities.

PHYSICAL EDUCATION, HEALTH, & DRIVER EDUCATION COURSE LISTINGS

PHYSICAL EDUCATION COURSES

PE1100	P.E. (Freshman)*	Yr. 9	None
PE2100	P.E. (Sophomore)	Yr. 10	P.E. 1
PE3100	P.E. (Junior)	Yr. 11	P.E. 2
PE4100	P.E. (Senior)	Yr. 12	P.E. 3
PE1000	Adapted P.E.	Yr. 9-12	Placement
PE1029	P.E. Leader	Yr. 11-12	Instructor approval
PE1052D	Lifeguarding*	Yr. 11-12	Instructor approval
PE1046	Peer Partners	Yr. 11-12	Instructor approval

HEALTH EDUCATION COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
PE2101	Health Education	Sem. 10	None
PE2101C	Online Health	Sem. 10	None
PE3101	Advanced Health	Sem. 11-12	Instructor Approval

DRIVER EDUCATION COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
DRVR2000	Driver Education*	Sem. 9-12	Minimum 8 classes passed in previous two semesters

* Course has a required fee

PHYSICAL EDUCATION COURSE DESCRIPTIONS

PE classes are required every semester, except when taking Health (PE2101).

PE1100 PHYSICAL EDUCATION 1 GRADE 9.

Emphasis for this course is on physical fitness, fundamental skills and rules of each activity, and knowledge of the importance of fitness for life. Units may include: Personal Fitness, Rock Climbing, Adventure Education, CPR & AED Course, and Fitness Integration Through Sport (FITS). A course fee will be charged.

PE2100 PHYSICAL EDUCATION 2 GRADE 10.

Sophomores will have Health for one semester and Physical Education for the other semester. Units will include: Social Dance, Fitness Consumerism, and Swimming.

PE3100 PHYSICAL EDUCATION 3 Grade 11-12.

PE4100 PHYSICAL EDUCATION 4 Grade 11-12.

Physical fitness and knowledge of activities will continue to be developed, along with leadership and teamwork. Students have the opportunity to elect a variety of activities to enhance their fitness level. Units are selected by students in their physical education period. Courses will have maximum capacities. Units may include: BodySculpt, Applied Personal Fitness, Skill and Body Development, Lifetime Motion, Rollerblading, Softball, Golf, Football, Badminton, Lacrosse, Swimming, Indoor Hockey, Volleyball, Pickleball, Team Handball, Basketball, Soccer, Kayaking, Water Polo, Jazz Dance, Tap Dance, Dance of the Decades, Hip Hop Dance, Self-Defense, Bowling, CPR, Scuba, Rock Climbing and Adventure Education. Zero hour class option may be offered.

PE1046 PEER PARTNERS GRADE 11-12. Instructor approval.

Peer Partner PE supports breaking down knowledge barriers in the field or court. Junior/Senior students in regular PE can choose to be in the selection process for Peer Partner PE. This includes daily reciprocal teaching among students with and without an IEP. Some students have intellectual disabilities as well as communication and behavioral challenges. Students learn they all have more similarities than differences. Once these relationships are built in Peer Partner PE, partners typically introduce their classmates to their friends. This is a grassroots program of playing and competing together for fitness through physical education and builds respect that benefits all students in our school communities. As one peer partner has stated, "This class is life changing!"

PE1029 P.E. LEADERS GRADES 11-12. Year-long. Instructor approval.

This course is offered to students who are interested in developing leadership skills within a Physical Education environment. Junior year students will go through a year of training concentrating on skill development, technique analysis, game strategies, teaching progressions, and lesson-plan writing. A strong emphasis is placed upon the development of responsibility for self and others, leadership skills, and peer teaching. Senior year students will be able to utilize their leadership skills by assisting a Physical Education teacher. Responsibilities include leading warm-up activities, officiating game play, helping students with skill development, and being a positive role model to the students in class.

PE1052D LIFEGUARDING GRADES 11-12. Semester. Instructor approval.

This course is offered to students who are interested in developing leadership skills within an aquatic educational environment. Junior/Senior year students will go through a semester of training in rescue and surveillance skills, First Aid and CPR/AED, swim lesson teaching strategies and other skills you need to work as a professional lifeguard, and/or swim lesson instructor. A strong emphasis is placed upon the development of responsibility for self and others, leadership skills, peer teaching and aquatic safety. This class will also award dual credit pending approval through College of DuPage in the amount of 2 credit hours. CPR, First Aid and lifeguard certifications can be received by passing certification tests at the end of the class. A course fee will be charged.

HEALTH EDUCATION COURSE DESCRIPTIONS

PE2101 HEALTH EDUCATION GRADE 10. *One semester, required by the State of Illinois to graduate.*

This course is incorporated into the Physical Education curriculum at the tenth-grade level. It includes the below areas of study.

*Parents may review course materials used in the instruction of these units and elect to have their child study alternative materials during the time allotted for a unit.

Wellness

Stress Management

Mental Health

Suicide Prevention

Coping with Loss

Aging, Death, and Dying

Nutrition

Prevention and Control of Disease

Prevention of Alcohol, Tobacco, and other Drug Abuse

Male & Female Reproductive Anatomy & Physiology*

Human Growth & Development*

Abstinence*

Birth Control*

Marriage & the Family*

Sexually Transmitted Diseases*

Injury Prevention and Safety

PE2101C ONLINE HEALTH EDUCATION GRADE 10. *One semester, required by the State of Illinois to graduate.*

This online eLo course is incorporated into the Physical Education curriculum at the tenth-grade level. It includes the same above areas of study as in the face-to-face course.

*Parents may review course materials used in the instruction of these units and elect to have their child study alternative materials during the time allotted for a unit.

PE3101 ADVANCED HEALTH GRADE 11-12. *One semester. Instructor approval.*

This course will provide students the opportunity to expand on their current level of health and wellness. Students study health issues in depth and further explore health-related concepts. Some topics covered are health promotion, disease prevention, interpersonal communication skills, critical thinking, decision making, health careers, and current health topics. Students will have input as to the topics covered in class.

*Parents may review course materials used in the instruction of these units and elect to have their child study alternative materials during the time allotted for a unit.

DRIVER EDUCATION

The State of Illinois requires two phases of instruction to obtain a driver's license. The classroom phase is required for graduation. Both phases may be taken from either the high school or an accredited driver education business. If a student attends an outside agency, the student must submit proof of classroom phase completion to the guidance office. The State also requires that a student pass a minimum of 8 classes in the two preceding semesters including middle school to take Driver Education. Students register for driver education and receive credit like any other subject. Students are scheduled by birthdate priority. A student is not guaranteed driving during the semester he or she takes the classroom phase of Drivers Education. Any student participating in the behind-the-wheel phase will need to provide the instructor with two checks: one payable to the Secretary of State for the driving permit, the second payable to School District 204 to help defray the expense of the driving phase, an optional service our district provides.

CLASSROOM PHASE The State of Illinois requires at least 30 hours of instruction if the student desires to obtain his/her driver's license before 18 years of age. Classroom instruction is required for graduation and must be taken prior to or at the same time as the behind-the-wheel phase.

BEHIND-THE-WHEEL PHASE This part of the program is voluntary. The State of Illinois requires this phase if students desire their license before they reach 18 years of age. At least six hours driving instruction and six hours of observation time is required. Course has a required fee.

DRVR2000 DRIVER EDUCATION GRADE 9-12. One semester.

The Driver Education program offers both classroom and behind the wheel instruction. The District reserves the right to deny a student behind-the-wheel instruction if it determines that the student is not capable of completing it safely.

PE: Dual Credit with College of DuPage

Students enrolled in the following courses may apply to earn dual credit with COD. High School students who wish to take the course listed below for dual credit will receive college credit and a COD transcript regardless of whether or not they continue at College of DuPage. These credits may be transferable to other institutions. All dual credit opportunities are pending an agreement between IPSD and COD. To qualify for dual credit, students must complete appropriate applications and placement testing as required by COD. Freshmen are not eligible for dual credit.

COURSE COMPLETED AT MVHS, NVHS, WVHS	CREDIT AT COD
PE1052D – Pending approval with COD	PE 2244 (2 hrs. credit)

SCIENCE

Matt Long, Department Chairperson - MVHS

Paul Vandersteen, Department Chairperson - NVHS

Ray Hanus, Department Chairperson - WVHS

The science curriculum is designed to meet the needs of all students. The curriculum is structured into two distinct sequences based upon student ability and electives for any student. Any six semesters of science, successfully completed, may be counted to fulfill the three-year requirement for graduation. The Science Department believes it is in the best interest of the student to experience two disciplines of science within his/her three-year science requirement. By completing both a life science and a physical science course, a student can have a better appreciation of the scope of science, be more prepared for specific content on standardized tests, and have a solid foundation for further science exploration.

Because Honors and Advanced Placement (AP) course work is accelerated and more sophisticated, upper level work of high quality in a compacted time frame is demanded of students. The Science Department has developed recommendations for student success. These criteria are indicators of performance levels or standards for the honors or AP courses and are available from the Science Department.

SCIENCE COURSE LISTINGS

COLLEGE PREP COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
SCI1005	Biology	Yr. 9	None
SCI2006	Earth Science	Yr. 10-12	One Year of science or Instructor approval
SCI2016	**Horticulture	Yr. 10 -12	Biology
SCI3000	Greenhouse Mgmt. & Floral Design	Yr. 11-12	Horticulture
SCI2020C	Online Sustainable Energy	Sem. 10-12	None
SCI2001	Astronomy: Exploring the Universe	Sem. 10 -12	None
SCI2017	Chemistry/Physics	Yr. 10-12	None
SCI2018	Chemistry	Yr. 10 -12	Biology and concurrent enrollment in Geometry
SCI2019	Physics	Yr. 11-12	Biology, Chemistry, Algebra and Geometry
SCI2002	Cosmic Journey	Yr. 10 -12	Geometry or taken concurrently w/teacher permission
SCI2003	**Genetics (Human Genetics, Bioethics & Biotechnology)	Yr. 10 -12	Biology and Chemistry or taken concurrently with Instructor approval
SCI2004	**Anatomy & Physiology	Yr. 10 -12	Biology and Chemistry or taken concurrently with Instructor approval

ACCELERATED & COLLEGE PREP COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
SCI1005H	Honors Biology	Yr. 9	Placement
SCI1005A	*AP Biology	Yr. 10 -12	Biology, Chemistry, or Instructor approval
SCI2018H	Honors Chemistry	Yr. 10 -11	Biology and Geometry
SCI2018A	*AP Chemistry	Yr. 11-12	Biology, Chemistry, Algebra 2/Trig
SCI2019H	Honors Physics	Yr. 11-12	Biology, Chemistry, Algebra 2/Trig
SCI2014A	AP Environmental Science	Yr. 10-12	Biology, Chemistry, Algebra 2/Trig
SCI2019A	AP Physics	Yr. 11-12	Physics & AP Calculus (AB or BC) concurrently

*This course may meet for 1½ periods.

**This course has potential for dual credit designation.

DUAL CREDIT WITH COLLEGE OF DUPAGE

Students enrolled in the following courses may apply to earn dual credit with COD. High school students who wish to take the course listed below for dual credit will receive college credit and a COD transcript regardless of whether or not they continue at College of DuPage. These credits may be transferable to other institutions. All dual credit opportunities are based on an agreement between IPSD and COD. To qualify for dual credit, students must complete appropriate applications and placement testing as required by COD. Freshmen are not eligible for dual credit.

COURSE COMPLETED AT MVHS, NVHS, WVHS	CREDIT AT COD
Anatomy and Physiology: Course SCI200	Anatomy and Physiology 1500: Survey of Human Anatomy and Physiology
Horticulture: Course SCI2016	Horticulture 1100: Introduction to Horticulture (3 hrs. credit)
Genetics: Course SCI2003	Biology 1120 (3 hrs. credit)

SCIENCE COURSE DESCRIPTIONS

All Science courses are year-long except Astronomy.

SC1005 BIOLOGY GRADE 9.

This laboratory is the traditional biology course. It is organized and conducted to provide students with a sound and comprehensive understanding of biology. Strong emphasis is given to understanding fundamental biological processes and how they apply to our lives.

SC1005H HONORS BIOLOGY GRADE 9.

The laboratory experience emphasizes biology as an investigative process based on inquiry. Creating hypotheses by studying the facts and devising an explanation for them is a crucial part of this curriculum. Teaching strategies enable students to learn science through a natural development process. Beginning with exploration and moving through invention to application, students build solid foundations in biological concepts and theories while developing higher-order thinking skills.

SCI2006 EARTH SCIENCE GRADE 10-12. Prerequisite is one year of science or instructor approval.

This course represents an overview of the Earth. It engages each student in a laboratory study of topics in geology, including rocks and minerals, earthquakes and volcanoes, streams and glaciers. The topics of weather and climate are explored as well.

SCI2016 HORTICULTURE GRADE 10-12. Prerequisite is Biology.

This course places emphasis on botany, plant parts and processes, propagation, careers, and plant identification. Students are introduced to greenhouse management, landscape, and floral design through the greenhouse and floral lab. This college-preparatory course is geared toward students interested in majoring in biological sciences or horticulture. This course does not meet NCAA eligibility requirements.

SCI3000 GREENHOUSE MANAGEMENT & FLORAL DESIGN GRADE 11-12. Prerequisite is Horticulture.

This course stresses greenhouse management, plant production, and floral design. Specific topics include but are not limited to botany, plant identification, propagation, and careers. Extensive use of lab facilities and greenhouse will be used to demonstrate concepts and supply students with first-hand knowledge of plant growth and management practices. The students will create a greenhouse design and management project. This course does not meet NCAA eligibility requirements.

SCI2020C ONLINE SUSTAINABLE ENERGY GRADE 10-12 Semester Course

How can science be harnessed to better manage energy use in our society? This online eLo course will examine this problem using a variety of skills and concepts from the worlds of engineering, math, and science. Concepts such as sustainability, thermodynamics, design, statistics, public opinion, and much more will be explored. This course will be a stimulating introduction to the field of sustainable energy.

SCI2017 CHEMISTRY/PHYSICS GRADE 10-12.

This course provides students with a solid foundation of physical science and the laboratory techniques used to test and support such knowledge. One semester is an introduction to the principles of chemistry; the other is an introduction to the principles of physics.

SCI2018 CHEMISTRY GRADE 10-12. Prerequisite is Biology and concurrent enrollment in Geometry.

This course introduces the college-bound student to basic chemistry principles through lecture, laboratory, and group work. The laboratory experience emphasizes the discovery of key concepts through the analysis of student-generated data.

SCI2018H HONORS CHEMISTRY GRADE 10-12. Prerequisites are Biology & Geometry. Weighted grade.

This course introduces students to the fundamental concepts and theories of chemistry. This laboratory course emphasizes problem-solving, analysis, critical thinking, and experimentation.

SCI2019 PHYSICS GRADE 11-12. *Prerequisites are Biology, Chemistry, Algebra, and Geometry.*

Physics presents a practical overview of general classic and modern physics topics. In this introductory course, the emphasis will be upon laboratory investigations leading to a firm grasp of conservation of momentum, energy, and charge. The math requirement entails proficient use of algebra and geometry.

SCI2019H HONORS PHYSICS GRADE 10-12. *Prerequisites are Biology, Chemistry, and Algebra 2/Trig. - Weighted grade.*

This course introduces students to the basic concepts and theories of physics. The pace and scope of this course are designed for students with a sound understanding of algebra, geometry, and trigonometry. This course emphasizes problem-solving and experimentation. Honors Pre-calculus is also strongly recommended.

SCI2001 ASTRONOMY: EXPLORING THE UNIVERSE GRADE 10-12. *Semester course.*

This is an introductory course that focuses on observational astronomy. The planetarium may be used in order for students to comprehend observational techniques and coordinates that help them observe the heavens. Seasonal stars and constellations, their mythologies, and constellation creation are the main focuses of this class.

SCI2002 COSMIC JOURNEY GRADE 10-12. *Prerequisite is Geometry (may be taken concurrently).*

Students begin their journey with the Big Bang and explore the universe through the eyes of Galileo, Copernicus, Kepler, Newton, and other great minds. On the journey into present day, students study the extinction of dinosaurs, the solar system, galaxies, stars, black holes, and the laws governing the universe. Many laboratory experiences and group projects, along with trips to the planetarium, are used to reinforce astronomical concepts. Each student will also construct a refracting telescope. A field trip to the Museum of Science and Industry to explore the Henry Crown Space Center and Omnimax Theatre is included.

SCI2003 HUMAN GENETICS, BIOETHICS, AND BIOTECHNOLOGY GRADE 10-12. *Prerequisites are Biology and Chemistry (may be taken concurrently).*

This college level course introduces students to the fundamental concepts of genetics. Students are acquainted with not only classical patterns of inheritance but also present day findings in molecular genetics. Laboratory experiments provide active participation in demonstrating and applying the theories of genetics and biotechnology. Present day bioethics issues in biotechnology are addressed.

SCI2004 ANATOMY AND PHYSIOLOGY GRADE 10-12. *Prerequisite is Chemistry (may be taken concurrently with Instructor approval).*

This college level course introduces students to the fundamental concepts of human anatomy and physiology. Particular emphasis is placed on animal dissections to help the students learn how the human body functions. Students may apply to earn dual credit through COD.

SCI1005A AP BIOLOGY GRADE 10-12. *Prerequisites are Biology, Chemistry or Instructor approval. Weighted grade.*

This course is a college-level laboratory course dealing with advanced topics in Biology. There are twelve mandatory laboratory experiences dealing with such topics as diffusion, osmosis, enzyme catalysis, molecular biology, and genetics. Students who successfully complete this course and the AP Biology examination may receive college credit and/or higher placement in college.

SCI2018A AP CHEMISTRY GRADE 11-12. *Prerequisites are Chemistry and Algebra 2/ Trig. Weighted grade.*

Advanced Chemistry is a college level laboratory course dealing with advanced topics in inorganic chemistry. Students may receive college credit in Advanced Chemistry by qualifying on an examination administered by the College Entrance Examination Board at the conclusion of the course. This course is weighted and emphasizes problem solving and lab experience.

SCI2014A AP ENVIRONMENTAL SCIENCE GRADE 10-12. Prerequisites are Biology, Chemistry (may be taken concurrently), Algebra 2/Trig. Weighted grade.

The goals of the AP Environmental Science course are to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world; to identify and analyze environmental problems both natural and man-made; to evaluate the relative risks associated with these problems; and to examine alternative solutions for resolving and/or preventing them. Environmental Science is interdisciplinary, embracing a wide variety of topics that include Ecology, Geology History, Sociology, Economics and Chemistry. Field experiences may include a trip to northern Wisconsin and/or one-day trips to local prairies, streams and forests. Students who successfully complete the course and AP examination may receive college credit and/or a higher placement in college.

SCI2019A AP PHYSICS GRADE 11-12 Prerequisites are Chemistry, Honors Physics and Calculus. Weighted grade. This calculus-based college style Physics course is structured to provide a strong preparation in Physics for those intending to major in Engineering, Mathematics, Physics, Astronomy or Medicine. Students who successfully complete the course and AP examination may receive college credit and/or a higher placement in college.

SOCIAL STUDIES

Don Pankuch, Department Chairperson - MVHS

Tom McManamen, Department Chairperson - NVHS

Adam Dyche, Department Chairperson - WVHS

Responsible participatory citizenship in our democratic republic is the major goal of the Social Studies program. The basic course offerings should enable the student to develop the necessary skills and understandings to achieve this goal. Students who successfully complete Social Studies AP courses and their respective AP examinations may receive college credit and/or higher placement in college.

SOCIAL STUDIES COURSE LISTINGS

COURSES THAT SATISFY THE S.S. GRADUATION REQUIREMENTS

COURSE#	TITLE	LEVEL	PREREQUISITE
SOCS1005	World Geography	Yr. 9	None
SOCS1006H	Honors World History	Yr. 9	None
SOCS1006A	AP World History	Yr. 9-12	None
SOCS1007A	AP Human Geography	Yr. 9-12	None
SOCS1007AC	Online AP Human Geography	Yr. 9-12	None
ENGL2022B	American Society (Block with English 2)	Yr. 10	A Freshman Social Studies Course
SOCS2019	American History	Yr. 10-12	A Freshman Social Studies Course
SOCS2008C	Online U.S. History	Yr. 10-12	A Freshman Social Studies Course
SOCS3011A	AP U.S. History	Yr. 11-12	A Freshman Social Studies Course
SOCS4000	Government	Sem. 12	An American History Course
SOCS4000C	Online American Government	Sem. 12	An American History Course
SOCS3014A	AP Government and Politics	Yr. 11-12	An American History Course

ELECTIVE COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
SOCS3015A	AP European History	Yr. 10-12	A Freshman Social Studies Course
SOCS2010	Military History	Sem. 10-12	A Freshman Social Studies Course
SOCS2009	U.S. Geography	Sem. 10-12	A Freshman Social Studies Course
SOCS3016	*Sociology	Sem. 11-12	A Freshman Social Studies Course
SOCS3012	Psychology	Sem. 11-12	A Freshman Social Studies Course
SOCS3012C	Online Psychology	Sem. 11-12	A Freshman Social Studies Course
SOCS3013	Psychology & Group Behavior	Sem. 11-12	A Freshman Social Studies Course
SOCS3013A	AP Psychology	Sem. 11-12	Psychology

*This course has potential for dual credit designation.

SOCIAL STUDIES: DUAL CREDIT WITH COLLEGE OF DUPAGE

Students enrolled in the following courses may apply to earn dual credit with COD. High school students who wish to take the courses listed below for dual credit will receive college credit and a COD transcript regardless of whether or not they continue at College of DuPage. These credits may be transferable to other institutions. All dual credit opportunities are based upon an agreement between IPSD and COD. To qualify for dual credit, students must complete appropriate applications and placement testing as required by COD. Freshmen are not eligible for dual credit.

COURSE COMPLETED	CREDIT AT COD
SOCIOLOGY: SOCS3016	SOCIOLOGY 1100 (3 HRS. CREDIT)

SOCIAL STUDIES COURSE DESCRIPTIONS

SOCS1005 WORLD GEOGRAPHY GRADE 9. *Year-long.*

The study of world geography provides students with a strong foundation for future social studies courses. Students will learn about the complex interrelation of physical, cultural, and economic geography. An emphasis is placed on the historical and political changes occurring within each region of study and the impact the geographic factors have on the day-to-day lives of people. Throughout the course, students will also analyze and develop a deeper understanding of a wide range of global issues: human rights, genocide, disease, overpopulation, resources, environmental dangers, world trade, emerging nationhood, globalization, and independence. The major world religions will also be studied. Students will develop critical thinking, reading, writing, and speaking skills. Regular homework reading beyond the textbook will be required. This course satisfies the freshman Social Studies graduation requirement.

SOCS1006H HONORS WORLD HISTORY GRADE 9. *Year-long. Weighted grade.*

This year-long course is presented from a geographical, political, and cultural point of view. The first semester begins with Ancient Egypt and concludes with the European Middle Ages. The second semester presents the rise of nation states, age of exploration, western imperialism, the Industrial Revolution, and concludes with the First World War. The course emphasizes analytical thought and is recommended for advanced students. Honors World History is taught at a very fast pace and students are required to master difficult readings, organize and write essays independently, and apply critical thinking skills in all of their work. Independent learning and self-motivation are required. This course satisfies the freshman Social Studies graduation requirement.

SOCS1006A AP WORLD HISTORY GRADE 9-12. *Year-long. Weighted grade.*

Covering from 8000 BC to the present, this full-year college level history course requires students to master factual knowledge as well as develop analytical skills necessary to be an historian. Specific themes are used as a framework to analyze regions around the globe including Africa, the Americas, Asia, and Europe. Throughout the year, students will use documents and primary sources, make comparisons across cultures, and develop the vital habits of mind required to be successful in Advanced Placement courses. This course imposes a heavy reading and writing workload, and the demands on students are equivalent to a full-year introductory college course. AP World History covers topics at a faster pace than Honors World History, requiring students to enter the course with high reading, writing, and critical thinking skills. Summer work may be offered to help students successfully prepare for the rigorous and extensive coursework. This course satisfies the freshmen Social Studies graduation requirement. Students who successfully complete this course and the AP World History examination may receive college credit and/or higher placement in college.

SOCS1007A AP HUMAN GEOGRAPHY GRADE 9-12. *Year-long. Weighted grade.*

This year-long college level course focuses on the impact human populations have on the planet. Units of study include the cultural patterns of religion, ethnicity, and gender; the population patterns of migration, growth, and settlement; and the historical global patterns of economic development, agriculture, and urbanization. Students will develop the ability to think geographically and apply the skills and tools of a geographer to analyze the world. Field studies to local areas are used as learning opportunities. This course is designed to represent an introductory one-semester human geography college course. Summer work may be offered to help students successfully prepare for the rigorous and extensive coursework that will be expected throughout the school year. This course satisfies the freshman Social Studies graduation requirement. Students who successfully complete this course and the AP Human Geography examination may receive college credit and/or higher placement in college.

SOCS1007AC ONLINE AP HUMAN GEOGRAPHY GRADE 9-12 *Year-long, Weighted grade.*

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. In this online eLo course, Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. Students also learn about the methods and tools geographers use in their research and applications. This course is designed to represent an introductory one-semester human geography college course. Students who successfully complete this course and the AP Human Geography examination may receive college credit and/or higher placement in college.

SOCS2019 AMERICAN HISTORY GRADE 10-12 *Year-long. Prerequisite is prior completion of a Freshman Social Studies Course*

This is the study of American History and the evolution of American ideals. Learning emphasizes analytical reading, writing, speaking and listening through the interpretation of historical documents, music and art. Additional focus is placed on understanding cause and effect relationships, discovering the significance of people, places and events impacting US history, and applying historical principles in today's world. This course satisfies the American History graduation requirement.

SOCS2008C ONLINE U.S. HISTORY Grade 10-12 *Year-long. Prerequisite is prior completion of a Freshman Social Studies Course*

This online eLo course is a comprehensive study focusing on major themes and concepts essential to understanding American economic, political, and social institutions. Learning emphasizes analytical writing, interpreting historical documents, developing both written and oral communication skills, understanding cause and effect relationships, discovering the significance of people, places, and events impacting U.S. history, and applying historical principles in today's world. This course satisfies the American History graduation requirement.

ENGL2022B AMERICAN SOCIETY TWO-PERIOD BLOCK OF AMERICAN HISTORY/ENGLISH 2 GRADE 10. *Year-long.*

Prerequisite is prior completion of a Social Studies course.

This is a year-long two-period block-scheduled class in which students receive individual grades for both American History and English. The linkage between the two courses allows for many opportunities to emphasize the connections between American history, literature, art, music, and architecture through team-teaching and joint assignments and projects. The course demands active student participation, intensive outside reading, and challenges beyond the classroom setting (i.e. field trips, projects). Students who are interested in studying history and English through this creative humanities emphasis will enjoy this option. This course satisfies the American History and the English 2 graduation requirement.

SOCS3011A AP UNITED STATES HISTORY GRADE 11-12. *Year-long. Weighted grade. Prerequisite is prior completion of a Social Studies course.*

This course in American history is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the issues and materials in this full-year college level American history course. Summer work may be offered to help students successfully prepare for the rigorous and extensive coursework that will be expected throughout the school year. This course satisfies the American History graduation requirement. Students who successfully complete this course and the AP United States History examination may receive college credit and/or higher placement in college.

SOCS4000 GOVERNMENT GRADE 12. *One semester. May be taken concurrently with American History with Instructor approval.*

Government introduces the student to the basic principles of political science. Emphasis is placed on students becoming part of an active citizenry. The semester course covers the foundations of American government, the Constitution, political parties, campaigns, and the three branches of American Government. State and local governments are also studied. Group and individual projects are utilized. This course satisfies federal and state constitutional graduation requirements, as well as the government graduation requirement.

SOCS4000C ONLINE AMERICAN GOVERNMENT GRADE 12 *One Semester*

How is democracy reflected in the three branches of the American system of government? In this online eLo course, students will study the primary concepts of the American political system, including its foundations, structures, and political behavior. This course does not simply look at the institutions of the federal government but also examines the parties' issues, candidates, and power-pressure groups and their roles in American politics at the national level. Emphasis is also placed on the role of the citizen in a democratic society. Successful completion of this course satisfies the American Government graduation requirement.

SOCS3014A AP GOVERNMENT AND POLITICS GRADE 11-12. *Year-long. Weighted grade. Prerequisite is an American History course.*

This introductory college-level course provides students with conceptual tools necessary to develop an understanding of the world's diverse political structure and practices. With a focus on American government and politics during the first semester and comparative governmental systems during the second semester, the course encompasses the study of specific countries, their governments, and their political climates. Summer work may be offered to help students successfully prepare for the rigorous and extensive coursework that will be expected throughout the school year. This year-long course satisfies federal and state constitutional graduation requirements and satisfies the government graduation requirement. Students who successfully complete this course and the AP Government and Politics examinations (AP U.S. Government and AP Comparative Government) may receive college credit and/or higher placement in college.

SOCS3015A AP EUROPEAN HISTORY GRADE 10-12. *Year-long. Weighted grade. Prerequisite is prior completion of a Social Studies course.*

The purpose of this full-year elective is to give students an opportunity to explore in-depth themes of modern European history from the High Renaissance to the recent past. Students who are particularly interested in a more in-depth approach, developing an understanding of the importance of analyzing historical documents, and expressing this understanding in writing would benefit from this course. If students plan to take both AP European and AP US History, it is recommended they take AP European first as a sophomore. Summer work may be offered to help students successfully prepare for the rigorous and extensive coursework that will be expected throughout the school year. Students who successfully complete this course and the AP European History examination may receive college credit and/or higher placement in college.

SOCS2010 MILITARY HISTORY GRADE 10-12. *One semester. Prerequisite is prior completion of a Social Studies course.*

This course is designed to deal with the various aspects of warfare throughout human history. Topics include the nature of war, concepts of tactics and strategy, technology and methods of warfare, great military leaders, crucial battles and their effect on history, and present and future trends in warfare.

SOCS2009 UNITED STATES GEOGRAPHY GRADE 10-12. *One semester. Prerequisite is prior completion of a Social Studies course.*

This course is designed to provide students with geographical knowledge of the United States studied from both a regional and urban approach. Various geographic topics are studied such as human geography, environmental issues, cartography skills, and the geography of Illinois. Supplemental reading is required.

SOCS3016 SOCIOLOGY GRADE 11-12. *One semester. Prerequisite is prior completion of a Social Studies course.*

Sociology will provide students with the basic concepts and tools necessary for understanding human social behavior in a complex world. The course examines the structures and functions of society from a purely sociological perspective and then examines current social issues in America. Topics to be covered include culture, socialization, class status, urbanization, religion, family, prejudice, discrimination, and crime. This is a college preparatory course containing challenging reading.

SOCS3012 PSYCHOLOGY 1 GRADE 11-12. *One semester. Prerequisite is prior completion of a Social Studies course.*

Psychology is the study of the behavior of living things. This course will provide students with an understanding of their own behavior, as well as the behavior of other individuals in society. Students will receive an overview of the many subfields of psychology including: an introduction to the scientific method, study of the brain, sleep and dreams, learning theory, memory, intelligence, personality, mental health and abnormal behaviors. This is a college-prep course which requires challenging reading. There will be an emphasis on student-centered projects. Opportunities may also be available to work with the “Kid-to-Kid” program.

SOCS3012C ONLINE PSYCHOLOGY GRADE 11-12 *One Semester. Prerequisite is prior completion of a Social Studies course.*

What determines behavior? This online eLo course is designed to expose students to the world of normal psychology. This course will provide students with an understanding of their own behavior as well as the behavior of other individuals. Attention is paid to the biology and chemistry of the human brain. Emphasis is placed on the psychological research regarding sleep, dreams, emotions, mental health, and motivation. This course requires reading, oral and written communication, and research skills.

SOCS3013 PSYCHOLOGY AND GROUP BEHAVIOR GRADE 11-12. *One semester. Prerequisite is prior completion of a Social Studies course.*

Psychology and Group Behavior is a basic level course combining the theories of psychology and sociology, allowing students to develop a perspective on their own life experiences and their relationship to the structure of our society and its pressures. The content will focus on personality theory, group and family interaction, mental illness, therapy, cultural awareness, and socialization issues. “Hands-on” learning, class discussions, role-playing, guest speakers, lectures, projects, and paperbacks relevant to the above topics will be incorporated. This course is in lieu of Psychology 1 (SOCS3012) and/or Sociology (SOCS3016).

SOCS3013A AP PSYCHOLOGY GRADE 11-12. *One semester (2nd sem. only). Weighted grade. Prerequisite is Psychology 1.*

Building upon the principles of Psychology 1, this course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in psychology. The course will prepare students for intermediate and advanced college courses by making demands upon them equivalent to those of full year introductory psychology courses. The content will focus on advanced experimental design, biological functioning, sensation and perception, motivation and emotion, developmental psychology, psychological disorders and their treatments, and social psychology. Intensive reading and writing skills will be a major focus, as will hands-on research and experimentation. Students who successfully complete this course and the AP Psychology examination may receive college credit and/or higher placement in college.

TECHNOLOGY AND ENGINEERING EDUCATION

Brian Giovanini, Department Chairperson - MVHS

Lisa Traut, Department Chairperson - NVHS

Andrea Hendrickson, Department Chairperson - WVHS

The Technology & Engineering Education Department believes that education is a process of life-long learning for all students. Technology Education works best when the school community shares in the responsibility and participates in the Technology Education program. Technology Education is a rapidly changing school curriculum of hands-on learning activities. The Technology & Engineering Education Department's courses and curriculum provide students with learning and activities focused on the five areas of technology: manufacturing, communication, transportation, energy and power, and construction.

All TEE courses require a material and/or workbook fee.

TEE COURSE LISTINGS

EXPLORATORY COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
TEE1001	Engineering* Technology 1	Sem. 9-12	None
TEE1002	Engineering* Technology 2	Sem. 9-12	Engineering Technology 1

** NVHS enrollment limited to freshmen and sophomores only.*

MANUFACTURING AND CONSTRUCTION TECHNOLOGY

COURSE#	TITLE	LEVEL	PREREQUISITE
TEE1003	Woods Fabrication 1	Yr. 10-12	None
TEE2001	Woods Fabrication 2	Yr. 11-12	Woods Fabrication 1
TEE2002	Introduction to Construction	Sem. 10-12	None
TEE 2003	Drafting & Design	Yr. 10-12	None
TEE3001D	Architectural Drafting	Yr. 11-12	Drafting & Design
TEE3003	Computer Aided Drafting & Design	Yr. 11-12	Drafting & Design
TEE 4005I	Technology and Engineering Independent Study	Yr. 12	Level 1 or 2 courses in specific area and instructor approval
BUS 3007	Business Internship	Yr. 11-12	Instructor Approval

COMMUNICATION TECHNOLOGY

COURSE#	TITLE	LEVEL	PREREQUISITE
TEE1014D	Media Communication & Production 1	Yr. 9-12	None
TEE2007D	Broadcast Journalism & Production 2	Yr. 10-12	Media Communication 1 and Instructor approval
TEE3013	Broadcast Journalism	Yr. 11-12	Media Journalism 2 and Instructor approval & Production 3
TEE4002I	Technology & Engineering Independent Study	Yr. 12	Level 1, 2 or 3 courses in specific area and Instructor approval
BUS 3007	Business Internship	Yr. 11-12	Instructor Approval

TRANSPORTATION TECHNOLOGY

COURSE#	TITLE	LEVEL	PREREQUISITE
TEE1004	Power Mechanics	Sem. 9-11	None
TEE2005	Automotive Maintenance	Sem. 10-12	None
TEE3003	Automotive Mechanics	Yr. 11-12	Power Mechanics
TEE4001B	Automotive Servicing (2 Block)	Yr. 12	Automotive Mechanics and Instructor approval
TEE4003I	Technology & Engineering Independent Study	Yr. 12	Level 1, 2 or 3 courses in specific area and Instructor approval
BUS 3007	Business Internship	Yr. 11-12	Instructor Approval

PROJECT LEAD THE WAY

COURSE#	TITLE	LEVEL	PREREQUISITE
PLTW2000	Introduction to Engineering Design (IED)	Yr. 9-12	Algebra 1 and appropriate grade-level Science
PLTW2001	Principles of Engineering (POE)	Yr. 10-12	Appropriate grade-level math and science
PLTW2002D	Digital Electronics (DE)	Yr. 10-12	IED or POE and appropriate grade-level math and science
PLTW2003	Civil Engineering & Architecture (CEA)	Yr. 10-12	IED, POE, or Drafting & Design, and appropriate grade-level math and science
PLTW2004	Engineering Design & Development (EDD)	Yr. 12	IED or POE, and 1 other PLTW course and appropriate grade-level math and science.

DUAL CREDIT WITH COLLEGE OF DUPAGE (Available for select TEE classes)

Students enrolled in the following courses may apply to earn dual credit with COD. High School students who wish to take the course listed below for dual credit will receive college credit and a COD transcript regardless of whether or not they continue at College of DuPage. These credits may be transferable to other institutions. All dual credit opportunities are pending an agreement between IPSD and COD. To qualify for dual credit, students must complete appropriate applications and placement testing as required by COD.

COURSE COMPLETED	CREDIT AT COD
Architectural Drafting: Course TEE3001D	Architecture 1101-Basic Architectural Drafting (2 hrs. credit)
Digital Electronics: Course PLTW2002	Electronics Technology 1141 (3 hrs. credit)
Media Communication & Production 1: Course TEE1014D	Motion Picture/Television 1011 (3 hrs. credit)
Broadcast Journalism & Production 2: Course TEE2007D	Motion Picture/Television 1220 (3 hrs. credit)

TECHNOLOGY, EDUCATION AND ENGINEERING (TEE) COURSE DESCRIPTIONS

TEE1001 ENGINEERING TECHNOLOGY 1 GRADE 9-12. One semester.

The course is designed to use Project-Based Learning (PBL) as the instructional model. Students will be involved in problem-solving investigations and other meaningful tasks that allow them to work in groups and/or autonomously to solve problems by developing realistic products. Master projects drive the direction of the course and the student learning. The projects cover one of several major technology sectors while employing an enterprise process to design, build, and market an invention or idea. The technologies introduced are AC/DC Power, CNC Milling Technology, Communication Technology, Desktop Publishing & Graphics, Electrical Systems, Engineering Team Building, Manufacturing Tools, Mechanical Systems & Mechanisms, Pneumatics Technology, Quality Control, and Robotics Technology. A lab fee will be charged.

TEE1002 ENGINEERING TECHNOLOGY 2 GRADE 9-12. One semester. Prerequisite is Engineering Technology 1.

The course is designed to use Project-Based Learning (PBL) as the instructional model. This course builds on skills learned in Engineering Technology I. Students will be involved in problem-solving investigations and other meaningful tasks that allow them to work in groups and/or autonomously to solve problems by developing realistic products. Master projects drive the direction of the course and the student learning. The projects cover one of several major technology sectors while employing an enterprise process to design, build, and market an invention or idea. A lab fee will be charged.

TEE1003 WOODS FABRICATION 1 GRADE 10-12. Year-long.

This course is the study of manufacturing technology as it applies to the woodworking industry. Students will display the safe operation of hand tools, power tools, and machinery used in industry. Students will learn to read and draw blueprints and manufacture a product from those prints. Basic math and measuring skills will be taught as they apply to the industry. A study of wood products, furniture design, fasteners, wood joints, and finishing processes will be covered. Students will explore possible careers. A lab fee will be charged.

TEE2001 WOODS FABRICATION 2 GRADE 11-12. Year-long. Prerequisite is Woods Fabrication 1.

This course involves the study of construction and advanced manufacturing technology. Students will be introduced to the processes used to produce blueprints and products. Students will display the safe operation of hand tools and power tools used in the manufacturing industry while completing various projects. Fees are charged for wood and project supplies.

TEE2002 INTRODUCTION TO CONSTRUCTION TRADES GRADE 10-12. One semester.

This preparatory course is designed for any student interested in learning about construction technology and/or related fields such as architecture, contracting and engineering. The student will develop a background in design, preparation, construction, and maintenance as it relates to a single-family home. Other career opportunities in construction technology will be explored: creating blueprints, surveying, concrete, carpentry, roofing, plumbing, heating and air conditioning, electricity, insulation, siding, drywall, and painting. Safe practices in the use of hand tools and power tools used in the industry will be covered. A lab fee will be charged.

TEE2003 DRAFTING & DESIGN GRADE 10-12. Year-long.

This is a beginning course for the drafts person or engineering student, introducing him or her to drafting fundamentals. The course covers drafting equipment usage, materials, an introduction to CADD (Computer-Aided Drafting and Design), and techniques used as a means of technical communications. Drafting techniques are studied and drawings are made with emphasis on description through multi-view, pictorial, architectural, and CADD drawings. The course will also focus on product design process and product design cycle. A lab and workbook fee will be charged.

TEE3001D ARCHITECTURAL DRAFTING GRADE 11-12. *Year-long. Prerequisite is Drafting and Design.*

This course covers general architectural techniques, history of architecture, home styles, construction methods, planning and drafting layouts, and perspective drawings. The course will also focus on the design process using traditional and CADD techniques to produce a set of residential drawings. The course will be directed both to non-college and college-bound students. A lab and workbook fee will be charged.

TEE3002 COMPUTER-AIDED DRAFTING GRADE 11-12. *Year-long. Prerequisite is Drafting and Design.*

This course is designed for engineering students and architectural students using the computer. Auto CAD software will be used. Students will learn to create, store, edit, and plot drawings. They will also learn to set up prototype drawings, create symbol libraries, bills of materials, develop customized screens, and generate 3D models. A lab fee will be charged.

TEE1004 POWER MECHANICS GRADE 9-12. *One semester.*

This is an introductory course in the area of gasoline engine operation and fluid power mechanics. The course of study will concentrate on small two- and four-cycle engine operations. In Power Mechanics, students will also disassemble, inspect, and reassemble small gasoline engines and learn about the different types of systems. Students will be introduced to the operations of automotive engines, automotive maintenance, and car design. A lab fee will be charged.

TEE2005 AUTOMOTIVE MAINTENANCE GRADE 10-12. *One semester.*

This course is designed for students to gain basic knowledge and skills to maintain automobiles. This course covers the following areas in automotive maintenance: engine tune-up, lubrication maintenance, electrical maintenance, tires and wheels, drive train maintenance, and seasonal maintenance procedures. Lab and workbook fees will be charged.

TEE3003 AUTOMOTIVE MECHANICS GRADE 10-12. *Year-long. Prerequisite is Power Mechanics.*

This is a lecture/laboratory course designed primarily to prepare students for job entry or advanced training in automotive service. The students will develop a background in the design, operation, and troubleshooting procedures of the gasoline engine and other related components such as the transmission and drive line, brake, and electrical systems. Also stressed will be the disassembly of engines, identification of parts, use of test equipment and service manual, and shop safety. Laboratory procedures will be covered. Safety glasses are required. Lab and workbook fees will be charged.

TEE4001B AUTOMOTIVE SERVICING GRADE 11-12. *Two periods. Year-long. Two credits. Prerequisite is Auto Mechanics and Instructor Approval. Weighted grade.*

This is a lecture/laboratory class designed to give the automotive student an enriched background in automotive suspension, alignment, brakes, tires and wheels, drive line, and engine and electrical systems. The use of tools, test equipment, service manuals, shop safety, and laboratory procedures will be covered. This course requires two consecutive periods. Safety glasses are required. A lab and workbook fee will be charged.

TECHNOLOGY & ENGINEERING INDEPENDENT STUDY

TEE4005I MANUFACTURING & CONSTRUCTION

TEE4002I COMMUNICATION

TEE4003I TRANSPORTATION

TEE4004I ENERGY

Grade 12. *Prerequisite is completion of Levels 1 and 2 in an area and Instructor approval.*

This course is for seniors who have successfully completed level 2 or 3 courses and have the desire to advance in a specific area such as woods, automotive, electronics, drafting, or media. See a teacher in the department for an application. A lab fee will be charged.

TEE1014D MEDIA COMMUNICATION AND PRODUCTION 1 GRADE 9-12. *Year-long.*

This course is a survey of Mass Media designed to provide students an introduction to the various forms of electronic media. Students will be introduced to radio, television, film, broadcast journalism, and other forms of mass media. Through the study of these areas, students will develop media literacy and skills necessary to create and produce in a changing media environment. In addition to media theory, students will learn the technological, operational, and creative aspects of producing for the medium. A lab fee will be charged.

TEE2007D BROADCAST JOURNALISM AND PRODUCTION 2 GRADE 10-12. *Year-long. Prerequisite is Media Communication 1.*

In addition to expanding on the curricular units in Media Communication and Production I, students will work in a team-based environment to create advanced content emphasizing visual storytelling and editing technique. Students will learn fundamentals of broadcast journalism and advanced media production. A lab fee will be charged.

TEE3013 BROADCAST JOURNALISM AND PRODUCTION 3 GRADE 11-12. *Year-long. Prerequisite is Broadcast Journalism and Production 2 and Instructor Approval.*

This course seeks to further enhance the student's skills and develop media literacy. Students will formally propose and produce various projects throughout the year. Students will also be assigned school-related media productions by their instructor. A lab fee will be charged.

BUS3007 BUSINESS INTERNSHIP GRADE 11-12. *Two credits. Year-long. Instructor Approval* This is a cooperative work program between the school and employers. Students work outside of school and also attend class on a daily basis. Topics discussed in class pertain to work-related and career issues. A student will receive one credit for classroom instruction and one credit for on-the-job training. The internship instructor will assist with job placement and monitor students' progress throughout the year. Early dismissal is NOT a requirement for this program. Students must provide own transportation.

PLTW2000 INTRODUCTION TO ENGINEERING DESIGN (IED) GRADES 9-12. *Year-long. Prerequisite is Algebra 1, enrolled concurrently in Geometry and the appropriate grade level science. Weighted grade.*

In this course, students use 3D solid modeling design software to design solutions to proposed problems. Students will learn to document their work and communicate solutions to peers and members of the professional community. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. A lab fee will be charged.

PLTW2001 PRINCIPLES OF ENGINEERING (POE) GRADES 10-12. *Year long. Prerequisite is appropriate grade-level math and science. Weighted grade.*

This survey course of engineering exposes students to some of the major concepts they will encounter in a postsecondary engineering course of study. Students investigate engineering and high-tech careers and develop skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems. Students learn to document their work and communicate their solutions to peers and members of the professional community. A lab fee will be charged.

PLTW2002D DIGITAL ELECTRONICS (DE) GRADES 10-12. *Year-long. Prerequisite is IED or POE and appropriate grade level math and science. Weighted grade.*

This course is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras and high-definition televisions. The major focus of the DE course is to expose students to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation. A lab fee will be charged.

PLTW2003 CIVIL ENGINEERING & ARCHITECTURE (CEA) GRADE 10-12. *Year-long. Prerequisite is IED, POE, or Drafting and Design and appropriate grade level math and science. Weighted grade.*

The major focus of this course is completing long-term civil engineering and architecture projects that involve the development of property sites that involve applying what they learn to the design and development of a property. The course provides teachers and students freedom to develop the property to simulate the experiences of civil engineers and architects. Students work in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, students use 3D design software to design solutions to major course projects. Students learn to document their project, solving problems and communicating their solutions to their peers and members of the professional community of civil engineering and architecture. A lab fee will be charged.

PLTW2004 ENGINEERING DESIGN & DEVELOPMENT (EDD) GRADE 12. *Year-long. Prerequisites include a minimum completion of IED or POE, one additional PLTW course, and appropriate grade level math and science. Weighted grade.*

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. A lab fee will be charged.

WORLD LANGUAGES

Tammie Black, Department Chairperson – MVHS

Yvonne Fawell, Department Chairperson – NVHS

Laura McAran, Department Chairperson – WVHS

Effective language learning focuses on the role of the individual in a global society. No longer do we live in an isolated world. Instead, there is an ever-changing, interdependent world in which diverse cultures and linguistic groups converge.

Successful participation in a Global Society relies on successful communication in different situations. The World Languages classroom provides a forum to prepare students for those situations. The objectives of the World Languages program in District 204 are aligned with the National Standards for World Languages (Communication, Culture, Connections, Comparisons, and Communities) in the 21st Century. The Advanced Placement guidelines and the Common Core State Standards are also addressed.

The disciplines of English and World Languages are closely related. Therefore, recommendations for World Language students should take into account the student's success in English courses. Students who start in the two-year Middle School Spanish or French program are well prepared for their second-year (Level 2) as freshmen. Courses are designed for non-native speakers. It is recommended that a student take a language other than the language spoken at home.

Students communicate using the 3 modes of communication: presentational, interpretive and interpersonal in all courses.

If a student is linguistically inclined, he or she can take a second world language after completing the second-year of his/her first world language. AP courses are designed to prepare students to succeed on the Advanced Placement Language exams offered in May.

All courses require a workbook fee.

WORLD LANGUAGES COURSE LISTINGS

CHINESE COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
WLAN4001	Chinese 1	Yr. 9-12	None
WLAN4002	Chinese 2	Yr. 10-12	Chinese 1
WLAN4003	Chinese 3	Yr. 10-12	Chinese 2
WLAN4004H	Honors Chinese 4	Yr. 11-12	Chinese 3

FRENCH COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
WLAN1001	French 1	Yr. 9-12	None
WLAN1002	French 2	Yr. 9-12	French 1
WLAN1003	French 3	Yr. 10-12	French 2
WLAN1004H	Honors French 4	Yr. 11-12	French 3
WLAN1004A	AP French	Yr. 11-12	French 3

GERMAN COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
WLAN2001	German 1	Yr. 9-12	None
WLAN2002	German 2	Yr. 10-12	German 1
WLAN2003	German 3	Yr. 10-12	German 2
WLAN2004A	AP German	Yr. 11-12	German 3

SPANISH COURSES

COURSE#	TITLE	LEVEL	PREREQUISITE
WLAN3001	Spanish 1	Yr. 9-12	None
WLAN3002	Spanish 2	Yr. 9-12	Spanish 1
WLAN3003	Spanish 3	Yr. 10-12	Spanish 2
WLAN3004H	Honors Spanish 4	Yr. 11-12	Spanish 3
WLAN3004A	AP Spanish	Yr. 11-12	Spanish 3

WORLD LANGUAGES COURSE DESCRIPTIONS

All World Language courses are year-long. They are sequential, requiring completion of the previous level.

WLAN4001 CHINESE 1 GRADE 9-12.

Chinese 1 is an introductory course to the Chinese language and culture. Students learn the basics of Chinese pronunciation, grammatical structures and character writing systems which allow them to communicate in simple Chinese. They will be able to conduct basic conversations and self-expression in Chinese. This course is designed for non-native/non-heritage students; simplified characters are taught. The introduction of Chinese cultural products, practices and perspectives is also an integral part of the course.

WLAN4002 CHINESE 2 GRADE 10-12.

Chinese 2 builds on the skills developed in Chinese 1 and continues to focus on an introduction to Chinese sentence patterns and functional use of the language. Students expand their vocabulary and conversational proficiency by broadening their knowledge of basic language patterns, daily expressions, and Chinese culture. Classroom instruction and activities are centered on use of authentic materials and basic communication skills: listening, speaking, reading, and writing in Chinese. The target audience includes non-native speakers and native speakers who want to improve their basic Chinese language skills.

WLAN4003 CHINESE 3 GRADE 10-12.

Chinese 3 expands on the areas of vocabulary, speaking, reading and sentence patterns. Classroom instruction and discussions will be conducted primarily in Chinese. Students will expand their communication skills in Chinese along with their knowledge of the Chinese culture.

WLAN4004H HONORS CHINESE 4 GRADE 11-12. *Weighted grade.*

Honors Chinese 4 focuses on expanding the four communication skills (reading, writing, listening, and speaking) by exploring a variety of contemporary and classic topics. Grammar and structure are also reviewed.

WLAN1001 FRENCH 1 GRADE 9-12.

French 1 introduces the student to practical vocabulary and basic grammatical structures that will enable him or her to communicate in simple French. The course focuses on speaking, listening, reading, and writing, as well as various aspects of francophone (French speaking) culture. Oral communication is stressed.

WLAN1002 FRENCH 2 GRADE 9-12.

French 2 builds on the skills developed in French 1. Students expand their vocabulary and begin to study more complex grammatical structures. Cultural exploration continues. Development of all four communication skills is stressed, with special emphasis on oral communication. Most of this class is conducted in French.

WLAN1003 FRENCH 3 GRADE 10-12.

French 3 reinforces and develops the four basic communication skills and allows students to use them at a more advanced level. As time allows, this course introduces students to francophone (French-speaking) literature, art, and history. Class discussions and work are facilitated primarily in French.

WLAN1004 FRENCH 4 GRADE 11-12. *Weighted grade.*

The French 4 class focuses on the four skills: reading, writing, listening, and speaking. Emphasis is on conversation skills. The students expand their vocabulary through stories, literature, film, and various cultural units utilizing authentic resources. The class is facilitated primarily in French.

WLAN1004A AP FRENCH GRADE 11-12. *Weighted grade.*

AP French focuses on expanding the four communication skills: reading, writing, listening, and speaking by exploring a variety of contemporary and classic topics utilizing authentic resources. Grammar and structure are also reviewed. The 6 overarching themes from the College Board are addressed in a variety of units. A selection of activities will be required during the summer preceding the course. Students who successfully complete this course and the AP French Language examination may receive college credit and/or higher placement in college.

WLAN2001 GERMAN 1 GRADE 9-12.

German 1 emphasizes structure and beginning proficiency and introduces the student to basic conversation and self-expression in German. As students learn to understand, speak, read, and write German on a basic level, they are introduced to aspects of German culture, particularly relating to the everyday life of teenagers.

WLAN2002 GERMAN 2 GRADE 10-12.

German 2 has an increasing emphasis on vocabulary and conversational proficiency. Students also begin to amass a portfolio of written work. A higher level of structural forms is learned while students learn to express themselves in everyday situations in the family and with friends.

WLAN2003 GERMAN 3 GRADE 10-12.

German 3 continues emphasizing basic language skills while students learn the most complex structures and begin to describe, discuss, and express themselves personally in the language. Short stories and a short novel are read.

WLAN2004A AP GERMAN GRADE 11-12. *Weighted grade.*

AP German focuses on student communication in the form of reports, oral projects, role-playing, essays and discussions. Speaking, listening, reading, and writing are emphasized. Reading includes current articles, essays, as well as short stories. The 6 overarching themes from the College Board are addressed in a variety of units. Students communicate using the 3 modes of communication: presentational, interpretive and interpersonal. Emphasis is placed on understanding and integrating outside sources and information. A selection of activities will be required during the summer preceding the course.

WLAN3001 SPANISH 1 GRADE 9-12.

Spanish 1 is designed to train the student to understand, speak, read, and write basic Spanish, as well as presenting a cultural background of the Spanish-speaking people. Oral communication is stressed.

WLAN3002 SPANISH 2 GRADE 9-12.

Spanish 2 expands the basic skills of the first-year course by broadening the knowledge of vocabulary, basic grammar skills and Spanish culture. The course is also designed to further develop conversational, reading and writing skills. Oral communication is stressed.

WLAN3003 SPANISH 3 GRADE 10-12.

Spanish 3 continues to build proficiency in listening, speaking, writing and reading. It expands upon the material which students have mastered in levels 1 and 2. Language proficiency is developed through a challenging and varied curriculum, including cultural readings and oral presentations utilizing technology. The class is facilitated primarily in Spanish.

WLAN3004H HONORS SPANISH 4 GRADE 11-12. *Weighted grade.*

The Spanish 4 class focuses on the four skills: reading, writing, listening, and speaking; however, emphasis is on the conversational skills. The students expand their vocabulary through stories, literature, film and through various cultural units utilizing authentic resources. The class is facilitated primarily in Spanish.

WLAN3004A AP SPANISH GRADE 10-12. *Weighted grade.*

AP Spanish focuses on further developing the speaking, reading, writing, and listening level of proficiency of the student by reviewing previously covered grammar concepts and learning new vocabulary in context. The students expand this knowledge by exposure to authentic, well-known Hispanic literature and film. The 6 overarching themes from the College Board are addressed in a variety of units. A selection of activities is required to be completed during the summer preceding the course. Students who successfully complete this course and the AP Spanish Language exam may receive college credit and/or higher placement in college.