

THE PHILOSOPHY OF GLENBARD DISTRICT #87.....5

GRADUATION REQUIREMENTS.....5

CREDIT FOR ALTERNATIVE COURSES AND PROGRAMS AND COURSE SUBSTITUTIONS.....5-6

ACADEMIC PLANNING.....6

 Academic Classification of Students.....6

 Planning a Four-Year Program.....6

 Career Preparation.....6

NON-DISCRIMINATION-TITLE IX.....7

NEW COURSES.....8-9

COURSES DESCRIPTIONS AND PREREQUISITES

 Art.....10-13

 Business.....14-18

 Driver Education.....19-20

 English.....21-27

 EL.....28-31

 Family and Consumer Science.....32-37

 Mathematics.....38-42

 Music.....43-46

 Physical Education and Health.....47-50

 Science.....51-55

 Social Studies.....56-62

 Special Education.....63

 Speech Arts.....64-66

 Technology and Engineering.....67-70

 World Languages.....71-76

 TECHNOLOGY CENTER OF DUPAGE.....77-78

 Approximate Fees for TECHNOLOGY CENTER OF DUPAGE PROGRAM.....78

 Illinois State Universities High School Preparation Requirements79

 Student Conduct.....80

Glenbard North High School
990 Kuhn Road
Carol Stream, IL 60188
(630) 653-7000
Fax (630) 653-7259



Dr. John T Mensik
Principal

Dear Glenbard North Students:

The purpose of the Enrollment Handbook is to provide you and your parents with information concerning the comprehensive educational programs that are available at Glenbard North. This guide contains specific course descriptions, high school graduation requirements and specialized programs. There are also descriptions of academic policies, academic honors, and college admission requirements. Please read all of the information found in this manual carefully before registering for classes.

You are about to undertake a very important task in your high school education - choosing your courses for the upcoming school year. Selecting the right courses not only prepares you for life after high school, but also creates opportunities for you to challenge your academic abilities. As you read through this guide, consider your interests, talents, activities and career goals. I encourage both students and parents to speak with our guidance staff, if you have any questions.

John Mensik

Glenbard North High School

ADMINISTRATIVE STAFF

John T. Mensik - Principal
John Healy - Assistant Principal for Instruction
Eric Johansen - Assistant Principal for Operations
Debra Cartwright - Assistant Principal for Student Services
Matthew Bowser - Assistant Principal for Athletics
Ryan Hall - Dean of Students
Erika Willis - Dean of Students
Deborah Stack- Dean of Students
Robert Kichka- Dean of Students

DEPARTMENT CHAIRS

Art Nathan King
Business Adam Butcher
Driver Education Gary Heilers
English Laura Payton
Family and Consumer Science Adam Butcher
Mathematics Michele Hawbaker
Media Eric Sundquist
Music Nathan King
Physical Education Gary Heilers
School Counseling Colleen Joyce-Guzman
Science Eric Day
Social Studies Kevin Coon
Special Education Samantha Christoff
Speech Arts Nathan King
Technology and Engineering Eric Day
World Languages Tracy Balhan

BOARD OF EDUCATION

Glenbard Township High School District #87

596 Crescent Blvd.
Glen Ellyn, IL 60137

SUPERINTENDENT OF SCHOOLS

Dr. David Larson
Office: Glenbard Administrative Center - (630) 469 - 9100

ELECTED MEMBERS

Ms. Judith Weinstock - President
Term Expires April, 2021
Ms. Jennifer Jendras - Vice President
Term Expires April, 2021
Mr. Robert Friend - Parliamentarian
Term Expires April, 2021
Ms. Margaret DeLaRosa
Term Expires April, 2023
Ms. Mireya Vera
Term Expires April, 2021
Ms. Martha Mueller
Term Expires April, 2023
Mr. John Kenwood
Term Expires April, 2023

APPOINTED OFFICIALS

Ms. Donna Gastel - Secretary

Mr. Chris McClain - Treasurer

I. GRADUATION REQUIREMENTS

Twenty-three credits including the classroom phase of Driver Education must be earned by a student to be eligible for a Glenbard diploma. No more than six credits earned at Technology Center of DuPage and/or in the Cooperative Work Training Program may be applied toward graduation. In earning the necessary credits, a student shall successfully complete the following to be eligible to receive a Glenbard diploma:

1. Applied Arts - (1 semester)
May be chosen from Business, Family and Consumer Science, Technology and Engineering, Technology Center of DuPage
2. Communication - (8 semesters)
 - a. Seven semesters of English
 - b. One semester of Speech, Theatre, or Acting
3. A program of Consumer Education instruction (1 semester).
The following classes satisfy the consumer education requirement:

a. Business and the Consumer	See Page 16
b. Consumer Management	See Page 16
c. Cooperative Work Training	See Page 16
d. Economics	See Page 59
e. AP Macroeconomics	See Page 59
4. Cultural Education - (1 semester) -to be chosen from art, music, world languages or speech arts. This does not satisfy the 1 semester speech requirement.
5. The classroom phase of Driver Education (1 semester)
6. Health Education (1 semester)
7. Mathematics (6 semesters) with at least one year of Algebra 1 and one year of course work that includes Geometry content.
8. Physical Education (6 semesters)
9. Science - laboratory science (6 semesters)
10. Social Studies (6 semesters)
 - a. Two semesters must be in United States History.
 - b. One semester must be in U.S. Government. Passing the U.S. Government course will also satisfy the state requirement for passing an examination on the Constitution of the United States, the State of Illinois, the Flag Code, and the Declaration of Independence.
11. SAT examination - Complete the examination.

II. CREDIT FOR ALTERNATIVE COURSES AND PROGRAMS, AND COURSE SUBSTITUTIONS

The approval of "credit" shall be interpreted as an award of credit(s) toward graduation. Unless specifically approved by the building's School Counseling Department Chair, a grade will not be entered on the student's transcript.

Extramural Credit Options - Limit on Credits Granted

Glenbard will not accept more than 4 units of credit from any combination of correspondence and internet courses, high school courses offered by other institutions, world language courses, and college courses. For additional information on this policy, please reference school board policy 6:320 at www.glenbard87.org.

Correspondence and Internet Courses

A student enrolled in correspondence or internet courses may receive credit for work completed, provided:

1. The course is given by an institution accredited by the North Central Association of Colleges and Secondary Schools;
2. The student is a junior or a senior;
3. The student assumes responsibility for all fees; and
4. The course is approved in advance by the School Counseling Department Chair

III. ACADEMIC PLANNING

A. Academic Classification of Students

Students at Glenbard are classified as freshmen, sophomores, juniors and seniors. They are also commonly referred to through the predicted year of their graduation. For example, the freshman class of 2020-21 is referred to as the "Class of 2024"

The following are the standards for the classification of all Glenbard students:

1. A student will be classified as a freshman by earning 5.5 or less credits.
2. A student will be classified as a sophomore by earning 6.0 - 11.0 credits.
3. A student will be classified as a junior by earning 11.5 - 17.0 credits.
4. A student will be classified as a senior by earning 17.5 or more credits.

Regardless of when a student completes requirements for graduation, there will be only one annual graduation exercise held at the end of the second semester.

B. Planning a Four-Year Program

Counselors will conduct conferences with freshmen to develop a four year academic plan outlining course selections for sophomore, junior and senior years. Four-year plans are revised yearly.

1. Definition of terms

- a. **Credit** is the measure of school achievement. For successful completion of a semester's work in a subject meeting daily for one period, a student receives one-half credit.
- b. A **Prerequisite** is a course or level which a student must complete before other courses may be taken. Prerequisites are listed in the course descriptions.
- c. **Required courses** are courses which a student must complete in order to earn a Glenbard diploma.

2. Transfer of Credits

- a. **From another school** - The School Counseling Office will evaluate the credits transferred from another school and specify what is needed for the student to meet the graduation requirements at Glenbard.
- b. **By correspondence or college courses** - Third and fourth year students, with parental and School Counseling Department Chair approval, may receive up to two (2) Glenbard credits for correspondence or work. Approval of such courses must be secured prior to registration. We accept correspondence credit in order to satisfy graduation requirements.

3. Career Preparation

a. Career after High School - The Glenbard High Schools provide students many opportunities to prepare themselves for entrance into specific careers. In a sense, the entire curriculum can be considered as career preparation. Students are encouraged to discuss with their counselors the sequence of courses which will provide them with the prerequisite training needed for further work in a career area.

b. Technical Careers - Technology Center of DuPage (TCD). The Glenbard High School District belongs to the Technology Center of DuPage consortium which provides a comprehensive vocational/technical education for high school students. Features of the Technology Center of DuPage program are diversified curriculum, up-to-date equipment, specialized teachers, coordinated guidance services with participating schools and placement services for area center enrollees.

Students at Technology Center of DuPage are third and fourth year students who have career objectives related to vocational and technical education. Attendance at the Center is for 2.5 hours with all students being bussed from the home high school. Glenbard grants credits to the students in District 87. During the other part of the day, students attend classes and participate in extra-curricular activities at their home school. In order to insure that students take full advantage of this opportunity, we have established the following guidelines. Priority for enrollment at TCD will be given to those students possessing a history of good attendance, grades and behavior. Juniors who wish to continue at TCD for their senior year must meet the following criteria: absences less than 10 days, except for personal emergencies as determined by the counselor, no significant discipline issues at TCD or on the bus, and a TCD grade of 3 or better. Some TCD programs experience a large demand for limited space. If a TCD program is closed or enrollment is capped by the District; School Counseling Department Chair will maintain a wait list. The aforementioned guidelines will apply to students on the wait list.

See Technology Center of DuPage course offering – pages 78-79

NON-DISCRIMINATION — TITLE IX

In accordance with law, District #87 does not discriminate on the basis of sex in the educational programs or activities which it operates. Administrative Regulation #4000 governing Sex Discrimination provides for the District's compliance with Title IX requirements. The District's Title IX coordinator is the Superintendent of Schools. Inquiries regarding Title IX may be directed to the Office of the Superintendent, Glenbard Township High School District #87, 596 Crescent Blvd., Glen Ellyn, Illinois 60137. Telephone number: 630-469-9100.

New Courses – Glenbard North

AFRICAN-AMERICAN EXPERIENCES IN LITERATURE - EN4213 - Sr.- 1/2 cr.- This study of the African American literacy experience will examine how the historical, political, cultural, and societal elements of each time period are reflected through the novels, poetry, and voices of Black scholars throughout history. Through an exposure to authors whose ideas and values reflect diverse backgrounds, students will gain an appreciation in the similarities as well as the differences among all people. This course is designed for anyone with a strong appetite for reading, a dedication to respectful discussion, and desire for growth around race and equity in our society.

Italian 4H- FL4521(2) - Jr., Sr.-1yr. 1 cr.- Prerequisite: Italian 3H. This course applies the skills developed in previous Italian courses. It explores advanced Italian language structures and culture in depth. Students achieve intermediate-high proficiency in listening, speaking, reading, and writing. This class is conducted entirely in Italian.

MANDARIN 4H-FL4421 (2)- Jr., Sr.- 1 yr.,1 cr.- This course is a continuation of Mandarin 3H and continues to build students' skills by expanding their vocabulary and sentence patterns to achieve proficiency in the oral and written use of the Mandarin language through listening, speaking, reading, and writing. Oral proficiency in this course will focus on teaching students how to describe and narrate in detail, including formulating supportive opinions. For reading comprehension skills, this course is designed to help students understand most material on both concrete and abstract topics for a general readership. This course will also help students to understand main themes and most supporting details in television shows, movies for general audience, news reports, and lectures.

MATH 1218 GENERAL EDUCATION MATH-MA5611(2) Sr.-1 yr. 1 cr. + 3 hours undergraduate credit from the College of DuPage. Prerequisite: Math SAT score 530+. Students will learn mathematical reasoning and the solving of real-life problems, rather than routine skills. Four topics will be studied: set theory, logic theory, counting techniques and probability, and mathematics of finance. The course is designed to fulfill general education requirements, and not designed as a prerequisite for any other college mathematics course. The course would appeal to students who plan to obtain an Associate of Arts or Bachelors of Arts degree and believe that a dual credit Math course would be a good fit on that College and Career pathway. This course is offered at no cost and is guaranteed to transfer to an Illinois college or university through the College of DuPage transcript (IAI M1 904).

Students should talk with their school counselor and current math teacher to discuss if this course is a good fit for their future college and career goals.

ONLINE WELLNESS - PE0511(2) -Jr., Sr., 1/2 cr.- Students will work with their grade specific curriculum in a Physical Education class that is designed to provide an individualized learning approach toward personal wellness. Students will create a personal fitness plan that focuses on individualized goals and components of fitness and mental wellness. All goals and outcomes are aligned with state and district standards. **Students will meet in person with the teacher the first and last weeks of the semester before school. All other class meetings will be either virtual or through individual student work from home.** A smart watch that has a heart monitor is required and will be loaned to students for the semester if needed. All students will gain knowledge of how to recognize, analyze, and evaluate their individualized learning.

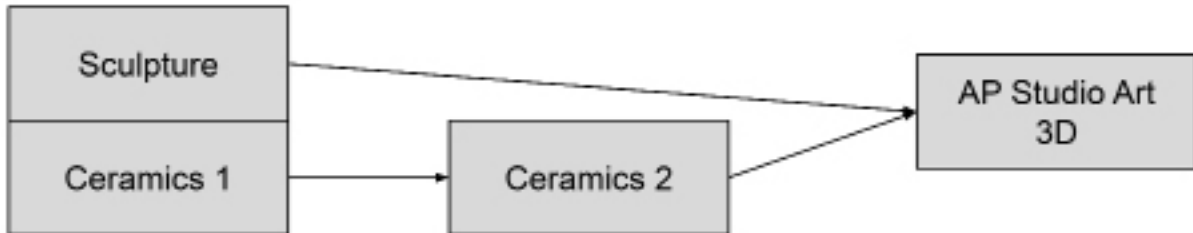
PHILHARMONIC ORCHESTRA- MU3411(2) Fr., Soph., Jr., Sr.-1 yr., 1 cr.- In this class, students begin to engage in deep study of more challenging music from the classical repertoire as well as film soundtracks and popular songs. Philharmonic Orchestra students are part of a bigger and exciting Orchestra with selected band students. Several evening concerts and rehearsals are a required component of the class. **Prerequisite: successful audition during the previous school year. Orchastra placements are made in the spring by the orchestra teachers.**

PRINCIPLES OF ENGINEERING (PLTW)-IT1611(2)- Soph., Jr., Sr.-1 Yr., 1 cr. Prerequisite: IED. Principles of Engineering (POE) is a foundation course of the high school PLTW engineering pathway. This course exposes students to some of the major concepts they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Students have the opportunity to develop skills and understanding through activity-, project- and problem-based learning. By solving rigorous and relevant design problems using engineering and science concepts within a collaborative learning environment, students will hone their interpersonal skills, creative abilities, and problem solving skills.

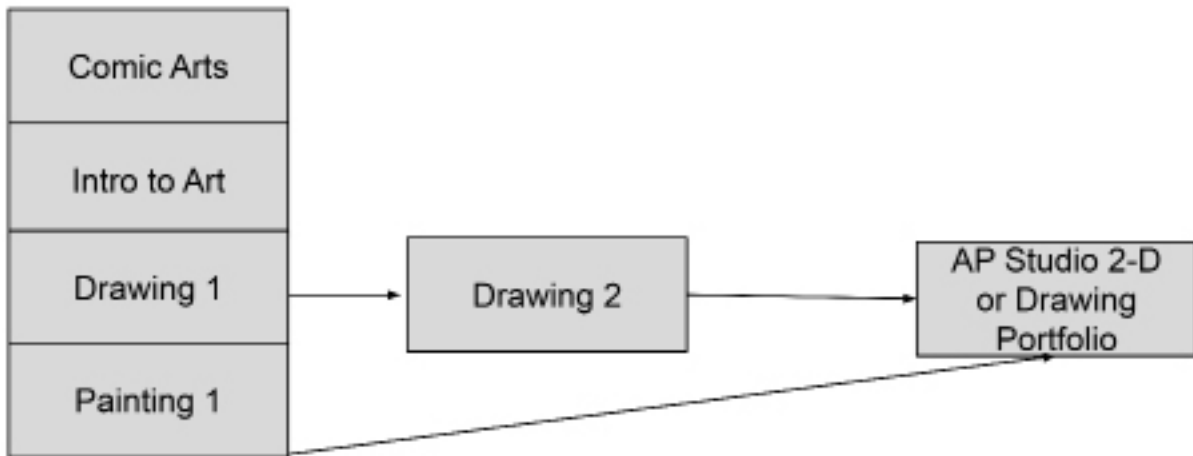
SPANISH 2H - FL2221(2) -Fr., Soph., Jr., Sr.-1 cr.-Prerequisite: Spanish 1. Spanish 2H continues to develop the skills of listening comprehension, speaking, reading, and writing at a more advanced proficiency level. The structure of the language is studied in depth. The study of contemporary society in the Spanish-speaking world is continued. Specific cultural information is introduced through reading selections and audiovisual media. Students that select this course intend to make a four year commitment to Spanish because the rigor will mirror that of our capstone course.

ART COURSE SEQUENCE

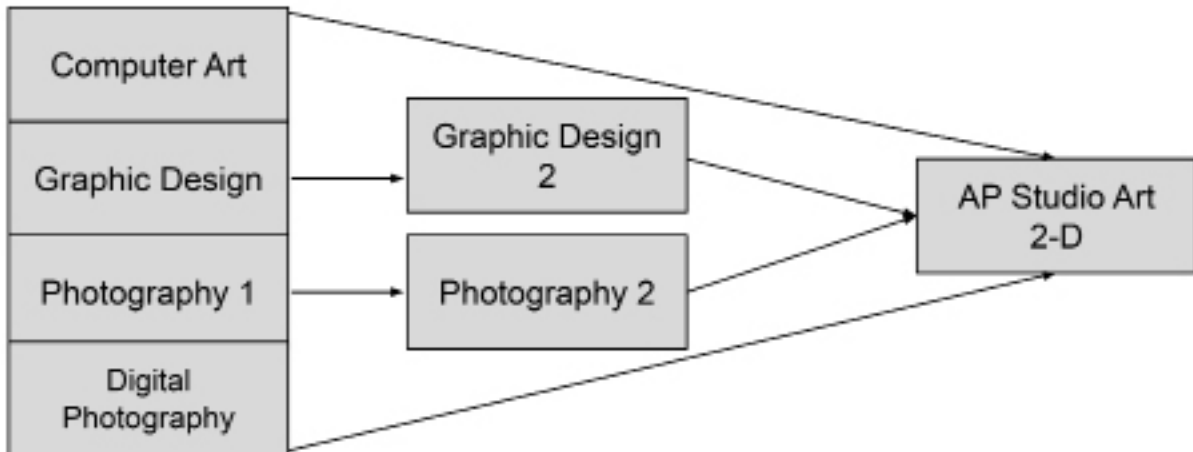
3-DIMENSIONAL COURSES



2-DIMENSIONAL COURSES



COMPUTER AND PHOTOGRAPHY COURSES



ART

The ability to communicate visually is a necessary skill for success in contemporary society; these courses help students develop those skills. These courses fulfill the graduation requirement for Cultural Arts.

INTRODUCTION TO ART - AR1013 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: None. This is a great way to sample many of our art courses in one single semester class. Intro to Art will give you a wide variety of art experiences as you do projects in drawing, graphic design, painting, ceramics, computer art and photography.

COMIC ARTS- AR2813 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Drawing 1 is helpful. This course is for the naturally talented and interested cartoonist, as well as the curious beginner. We will teach you the basics of drawing cartoons and then invite you to develop your own personal style as we explore a variety of cartooning styles, including hero comics, manga, comic strips, graphic novels, and even get in some exposure to simple animation techniques.

DRAWING 1 - AR2313 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: None. Learn how to draw figures, faces, and objects from observation and your imagination. Learn how to use charcoal, pencil, chalk, and pen and ink like artists. Discover how to talk about art and look at the world like an artist. Are you afraid you can't draw? Don't worry, we'll teach you how.

DRAWING 2 - AR3313 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Drawing 1 or teacher approval. This class brings your original ideas to life by using charcoal, pencil, pastels, and ink. Learn perspective and figure drawing, and create multiple prints in relief printmaking. This is an advanced class that will build on the techniques you learned in Drawing 1.

PAINTING 1 - AR2513 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: None. Create original paintings with acrylic and watercolor. Learn how you can bring your ideas to life with color and brushstrokes. We'll teach you the painting techniques you need to create artwork your friends will envy.

SCULPTURE - AR3413 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: None. You will get to work with glass, clays and plaster. Learn how to fuse glass, construct large-scale artwork with plaster gauze, and much more! We will carve, model, assemble and cast various materials to create 3-dimensional artwork that demands to be looked at.

GRAPHIC DESIGN 1 - AR2213 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: None. In this interesting course you will learn what it takes to be a designer, solving problems and communicating through composition, typography and images. You will solve real client problems like logos, page design, package design, advertising and illustration. In this Apple Mac-based course, you will work every day on computers, learning the software that actual designers use.

GRAPHIC DESIGN 2 - AR3213 - Fr., Soph., Jr., Sr. - 1 sem 1/2 cr. - Prerequisite: Graphic Design 1. If Graphic Design 1 showed you how satisfying it is to communicate through visual design, this second level course will help you to develop your own design style and offer you even more design problems to solve. We step it up a notch, design our own fonts, layout web pages, design our own books and create more complex multimedia works. This class can really help prepare you for a college experience in art by building your portfolio.

CERAMICS 1 - AR2113 - Fr., Soph., Jr., Sr. -1 sem., 1/2 cr. - Prerequisite: None. You will get to work with clay all semester. We'll make mugs, vases, sculptures, and more! You will also get to use the pottery wheel. We'll teach you the entire ceramic process of constructing, firing, and glazing your artwork.

CERAMICS 2 - AR3113 - Fr., Soph., Jr., Sr. -1 sem., 1/2 cr. - Prerequisite: Ceramics 1. Can't get enough of clay? This class builds on the skills you acquired in Ceramics 1. Improve your wheel throwing and handbuilding skills, experiment with various glazes and alternative firings, and understand how the kiln works.

PHOTOGRAPHY 1 - AR2613 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: None. You will learn how to make classic black and white photographs in true old school style in this interesting class. No digital photography here, as we learn to shoot film with 35mm cameras, develop our own film, and then print personal work in our school darkroom. You will learn to take better pictures with any camera. No film camera? No problem since we supply the 35mm cameras - and all your film and photo paper too.

PHOTOGRAPHY 2 - AR3613 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Photo 1. - If you fell in love with the darkroom and mastered the technical challenges of making great photographs, this second level course will start where you left off. Creativity and curiosity are the keys to this advanced black and white photo class. Building on the foundations we laid in Photo 1, we will push creative expression even further with assignments in hand coloring, toning, mixed media, and reverse printing. By studying the quality and control of light, we will master portraits. By adding text and color to change your photo's impact, you will produce amazing, original art. We will finish the semester with a strong series that showcase your independent creative vision. No film camera? We supply 35mm cameras - and all your film and photo paper too.

DIGITAL PHOTOGRAPHY - AR4113 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: None (Photo 1 or Computer Art is helpful). Ever wonder how art photographers make such cool photos? This photoshop class is perfect for anyone interested in digital photography. First you will learn how to work your digital camera - including all the strange settings mentioned in the manual. You will create dreams or nightmares, make photos that purposely lie and paint digitally. We will play with scanners as cameras and work every day in our newest Apple Mac lab.

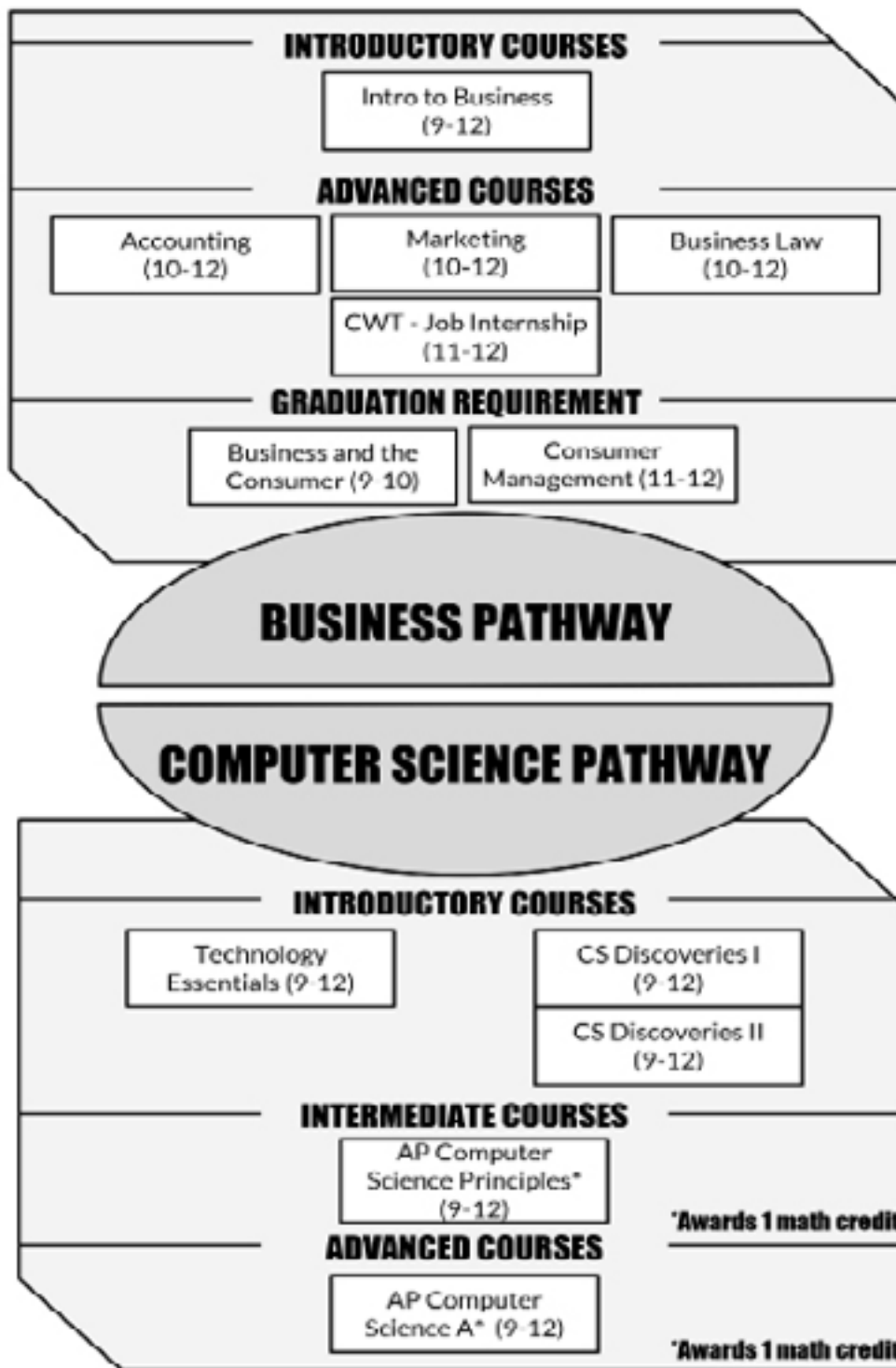
COMPUTER ART: ANIMATION - AR2913 - Fr., Soph., Jr., Sr., - 1 sem., 1/2 cr. - Prerequisite: None. Students are invited to create fun and exciting computer work and animation using programs like Adobe Illustrator, Character Animator, and Animate. Students will learn how to add movement to characters and backgrounds. Working our Mac lab and drawing studio makes this a great choice for independent and creative study.

INDEPENDENT STUDY - AR6012 - Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Student must have taken the entire sequence of courses in the chosen area of study offered by the Art department. The student must contract with the individual teacher and have departmental approval. This is an advanced course for the serious student, tailored to the student's interest. It requires self-motivation and self-discipline, with the teacher functioning as mentor to the student's goals and objectives. Final pieces are expected to be of portfolio quality.

AP 2D ART AND DESIGN - AR5231(2) Jr., Sr., 1 yr., 1 cr. - Prerequisite: Teacher Approval. Grade of C or above in Drawing 1, Drawing 2, and/or Painting are strongly encouraged for a good foundation. Throughout the school year, you will produce pieces of art that address two-dimensional (2-D) design issues. Design involved purposeful decision making about how to use the elements and principles of art in your work. For this portfolio, you can use any 2-D medium or process, such as graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. At the end of the year, you will submit your portfolio of artwork to the AP College Board where it will be scored. There is no "traditional" AP test in this class. This class is fast paced; expect to complete one assignment per week and to set aside time outside of class to produce quality work.

AP 3D ART AND DESIGN - AR5131(2) Jr., Sr., 1 yr., 1 cr. - Prerequisite: Teacher Approval. Grade of C or above in Ceramics 1, Ceramics 2 and/or Sculpture are strongly encouraged for a good foundation. Throughout the school year, you will produce pieces of art that address sculptural issues. You will be asked to demonstrate your understanding of design principles as they relate to depth and space, volume and surface. Students can use any 3-D approach: figurative or nonfigurative sculpture, architectural models, ceramics, glass, installation, performance, assemblage and 3-D fabric/fiber arts. At the end of the year, students will submit their portfolio of artwork to the AP College Board; expect to have two weeks to complete one assignment and to set aside time outside of class to produce quality work. At the end of the year, you will submit your portfolio of artwork to the AP College Board where it will be scored. There is no "traditional" AP test in this class.

AP DRAWING - AR5031(2) - Jr., Sr., - 1 year, 1 cr. - Prerequisite: Teacher Approval. Grade of C or above in Drawing 1, Drawing 2, and/or Painting are strongly encouraged for a good foundation. Throughout the school year, you will produce pieces of art that address drawing issues: line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth and mark-making. These issues can be addressed through a variety of media: painting, printmaking, mixed media, graphite, charcoal, etc. At the end of the year, you will submit your portfolio of artwork to the AP College Board where it will be scored. There is no "traditional" AP test in this class. This class is fast paced; expect to set aside time outside of class to produce quality work.



The mission of our department is to provide all students relevant and challenging educational opportunities while supporting a greater understanding of post-secondary careers and pathways. Our students will acquire critical life, technical and employability skills while engaging in professional experiences that relate to the 16 national career clusters.

- Courses offered in these areas meet the Applied Arts Graduation Requirement.
- Consumer Management and Business and the Consumer meet the Consumer Education Graduation Requirement. Either of these courses emphasize Personal Financial Literacy beyond basic economics.
- AP Computer Science Courses satisfy Math Graduation Requirements in Illinois as of June, 2014.

TECHNOLOGY ESSENTIALS - BU1013 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. -

Prerequisite: None. How fast are you on a desktop keyboard? Can you enter formulas in a spreadsheet? Can you create a video for online viewing? Become a technology expert. This course will give students the technology skills needed for mobile and tablet devices, as well as, laptops or desktop computers. Microsoft Word and Excel, as well as, Google Apps are used to help students develop and enhance necessary technology skills. Students will create documents useful for the school and the work environment. Students will also learn the importance of recognizing the digital footprints left behind when using any computer device.

COMPUTER SCIENCE DISCOVERIES 1 - BU2113 - Fr., Soph., Jr., Sr.- 1 sem., 1/2 cr. -

Prerequisite: None. This course takes a wide lens on computer science by covering topics such as programming, physical computing, and HTML/CSS. Students are empowered to create authentic artifacts and engage with CS as a medium for creativity, communication, problem solving, and fun.

COMPUTER SCIENCE DISCOVERIES 2 - BU2512 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. -

Prerequisite: Computer Science Discoveries 1. Students will see how a thorough user-centered design process produces a better application, how their personal data is collected and used on the web, and they will work with bare circuit boards to see how computers collect input and return output in a variety of ways. Student groups will continue to iterate on and refine a mobile app that integrates everything they've learned throughout the course into one capstone project.

AP COMPUTER SCIENCE PRINCIPLES - BU5231(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr.,

1 Math cr. - Prerequisite: None. AP computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact our everyday world. The goal of this course is to create leaders in computer science fields and attract and engage those who are traditionally underrepresented with essential computing tools and multidisciplinary opportunities. Successful completion of this course will provide students with the opportunity to take the Advanced Placement examination in Computer Science.

AP COMPUTER SCIENCE A - BU5131(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr., 1 Math cr. -

Prerequisite: Algebra 1. This course teaches the methods and techniques of programming design as well as an in depth study of algorithms, data structures, data abstractions and object-oriented programming using the language Java. Successful completion of this course will provide students with the opportunity to take the Advanced Placement examination in Computer Science.

CONSUMER EDUCATION

The following courses fulfill the graduation requirement for consumer education.

BUSINESS AND THE CONSUMER - BU1213 - Fr., Soph. - 1 sem., 1/2 cr. - Are you looking for a straightforward business approach to personal consumer issues? Business and the Consumer is for you because it provides a basic background of business as it functions in our American economic system. Topics included in this course are budgeting, banking and financial services, income tax preparation, the nature of credit and installment buying and comparison shopping through an on-line shopping experience. Students will investigate business careers and occupations and learn how to apply for a job. Basic business mathematics is also included.

CONSUMER MANAGEMENT – FC3813 - Jr., Sr. – 1 sem., 1/2 cr. - Learn to “live” the concepts of budgeting, investing, renting or buying a home, reconciling your checkbook, getting credit, and preparing income taxes as a consumer, worker, and a citizen in our market economy! This Junior/Senior course is designed to assist students with the challenges of living with a roommate or marriage partner.

JOB INTERNSHIP

COOPERATIVE WORK PROGRAM - BU3011(2) - Jr., Sr. - 1 yr., 3 cr. -

Prerequisite: 16 years of age, transportation. The Cooperative Work Training Program provides opportunities for students to explore careers in a variety of occupations, develop good work habits, attitudes, self-confidence and sense of job security and independence. The overall goal of the program is for students to obtain work experience and develop desirable employment and academic skills in preparation for potential career choices. Students can be released from school anywhere between one to two class periods to attend work. This course fulfills the applied arts and consumer education requirement.

Students who enroll in this program MUST be employed for at least 15 hours a week and show proof of employment by Friday of the first week of school.

BUSINESS

ACCOUNTING 1 AND 2 - BU2311(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Are you considering a college major in Business? Accounting is the language of business. This course is designed to teach the double entry accounting system through the entire basic business accounting cycle for a proprietorship, partnership and corporation. Learn the systematic process of reading, analyzing and preparing financial statements of a business. Computerized accounting software will be introduced and used throughout the course. Guest speakers discuss the profession and job outlook.

BUSINESS LAW - BU4113 - Soph., Jr., Sr. - 1 sem., 1/2 cr. This course emphasizes the basic principles of law, which underlie everyday personal and business transactions. Topics covered include: the nature of law and legal problems, criminal law, contractual obligations, bailments, basic rights of individuals, employment law and a variety other activities that students will encounter.

MARKETING: SPORTS & ENTERTAINMENT - BU4613 - Soph., Jr., Sr. - 1 sem., 1/2 cr. This course will introduce students to the role of marketing in the sports and entertainment industry. The emphasis is on employing basic marketing concepts and strategies such as developing, researching, advertising and selling goods and services. Particular attention will be focused on the development and implementation of marketing plans. Manage a professional football team by operating a computer simulation.

INTRODUCTION TO BUSINESS - BU3613 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr.
Prerequisite: None. Introduction to Business explores the role and purpose of business in our economic system with emphasis on what everyone should know to function effectively as a consumer and a worker in a free-enterprise economy. Units will include marketing, accounting, business law, entrepreneurship, and international business. Some topics that would be discussed: the 4 P's of the marketing mix, understanding financial statements and how they impact a business, a general overview of the U.S. legal system, an understanding on the types of business ownerships, and an emphasis on how businesses must understand the differences when operating outside of the U.S. The overall goal of this course is to give students a general overview of business, and provide students the opportunity to explore topics related to the business world.

DRIVER EDUCATION

DRIVER EDUCATION - DE2011(2) -Soph., Jr., Sr. - 1 sem., 1/2 cr.

Program Overview & Description

Glenbard North's Driver Education program offers students a comprehensive, fully-integrated, 3 phase program that covers the length of a semester. The 3 phases include classroom, simulation, and behind the wheel (BTW). Students must complete all the time requirements and pass all 3 phases to be eligible for a driver's license. Glenbard South also participates in the Cooperative Driver Testing Program with the Illinois Secretary of State's Office which allows Glenbard South instructors to administer the State Road Test if the student receives an A or B in both classroom and BTW.

Course Eligibility

The school district shall provide a driver education course to any eligible student who is between the ages 15 and 21 and currently resides within the district boundaries. In order to be eligible the student must have received a passing grade in at least eight courses during the previous two semesters or have had a waiver of the requirement approved by the district superintendent.

Requirements

- Complete a minimum of 30 hours of classroom instruction with a passing grade
- Complete a minimum of 3 hours of Behind the Wheel (BTW) instruction with a passing grade
- Complete a minimum of 12 hours of simulation instruction with a passing grade

Classroom Phase-30 Hours

Students attend the classroom phase of Driver Education on an every other day basis. The length and schedule of this phase will depend on the size of the class and the number of instructors assigned to it. Classroom may run all semester long or for a portion of the semester until hourly requirements are met. During the semester students will also be assigned a Driver Ed study hall in which they can use to study and complete materials when they are not in class, BTW, or simulation.

Classroom is designed to give students basic information on a variety of topics related to the safe operation of a motor vehicle and more importantly how to interact with people on the road. During the semester students will complete 4 Unit tests consisting of information from the Drive Right Textbook. Each Unit Test is comprised of 4 chapters in which a homework assignment will also be assigned for each chapter. The use of online Schoology assignments is strongly used in Driver Education. Students are encouraged to talk with their individual classroom instructor regarding turning in late work or making up unit tests. It is very important students pay attention in class, study all materials, and complete any missed work. Any student who misses class for any reason must make up the class to meet student requirements. Students are expected to arrive to class and be seated prior to the bell. Excessive tardiness, talking while others are talking, and failing to comply with basic classroom rules may result in consequences including not completing behind the wheel drive.

Simulation Phase- 12 Sessions (Pass/Fail)

The main objective of our simulation lab is for students to be taught specific procedural and mental skills which can carry over into a BTW environment. Students will use the machines to allow for additional practice as they develop their physical and decision making skills required for driving. BTW instructors will also use this time to teach in greater depth specific lessons or situations that regularly occur behind the wheel. Each student will be given a simulation folder and materials that they will need to bring with them and complete on a regular basis. Failure to complete required sim reflections may result in not driving during BTW. Students must attend all simulator lessons and schedule any makeups due to being absent. The interactive simulation-based units are designed to provide practice time to develop critical skills for new drivers.

(BTW) Behind the Wheel Phase-180 minutes (Pass/Fail)

The BTW phase is designed to teach all the necessary physical skills and decision making skills required for driving. In this phase, classroom knowledge and simulation experience will be used to guide each students' development behind the wheel of a vehicle. Students will drive approximately once a week and are required to complete 180 minutes of BTW with an instructor. Each student will be put through a variety of lessons that correspond to topics covered in the textbook. Students will be graded on growth and progress during the semester. Any absences must be made up to meet state requirements. Students who are required to wear glasses must have them in order to drive. Also, students must have the proper footwear including no sandals or slippers. The BTW setting is an extension of the school classroom and all school rules apply including using cell phones. All students must have their simulation folder completed weekly to be allowed to drive. A very important aspect which is crucial to your success is driving practice at home. The state requires each student to have 50 hours of driving practice at home in addition to the time spent with an instructor at school. This practice allows students to master skills taught with instructors and build confidence controlling the vehicle.

The school district shall determine when to offer the behind-the-wheel portion of the course during the school day. Should the need arise, the district may assign students for hours other than the normal school day (before or after school, evenings or Saturdays) as determined appropriate by administration. Students will participate as a group in BTW and will alternate observation/driving roles during a session.

1 (F)-Not Passing 2 (D)- Pass 3 (C)- Pass 4 (B)-Pass & Eligible for CDTP 5 (A)- Pass & Eligible for CDTP

Core Coursework--English

Year	Regular	Honors/AP
9	English 1	English 1H
10	English 2	English 2H
11	English 3 American Studies	AP Language & Composition
12	Semester-long options: Modern Literature & Comp Senior Comp World Literature Major British Writers Creative Writing Journalistic Writing Literature of War Literature & Psychology African-American Experiences in Literature	AP Language and Composition AP Literature & Composition AP Research

Academic Assistance—Administrative Placement Only

Year	Regular
9	Extended English English 1/Academic Strategies

ENGLISH

Graduation requirement: 3.5 credits

ENGLISH 1 - EN1011(2) - Fr. - 1 yr., 1 cr. - English 1 introduces students to the major genres, themes, and approaches that they will encounter throughout their high school career in the English classroom. Activities, assignments, and thematic units will encourage students to make meaningful connections and to extend understanding beyond the text. Through a balance of contemporary and classic works from a multitude of genres, students will improve their writing, reading, speaking, and listening skills.

ENGLISH 1H* - EN1021(2) - Fr. - 1 yr., 1 cr. - English 1 Honors is offered to students with strong reading and writing ability and interest in the study of English. This course thematically integrates the study of language, composition and literature in order to develop and enhance critical thinking skills. Course content is enriched, rigorous and rapidly paced, designed to prepare students to take Advanced English Placement courses as juniors and seniors. **Placement in English Honors depends upon test scores and teacher and department chair recommendations. Honors students may be required to read selected works of literature during the summer and complete an assignment as preparation for the course.**

ENGLISH 2 - EN2011(2) - Soph. - 1 yr., 1 cr. - This course includes units in literature and composition to strengthen skills in reading as well as expository and descriptive writing. Composition work focuses on improvement of sentence structure, vocabulary, and usage. In literature, students read selected poems, short stories, drama, and novels, which demonstrate effective use of language. In addition, students complete a library research project.

ENGLISH 2H* - EN2021(2) - Soph. - 1 yr., 1 cr. - This course offers highly motivated students the opportunity to study the classic works of Hugo, Bronte, Shakespeare, Rostand, and Sophocles, along with non-fiction works, which contribute to a world-literature focus. Composition activities provide experience in formal expository and creative writing. Research focuses on enrichment of experience in the study of literature. ***Honors students may be required to read selected works of literature during the summer and complete an assignment as preparation for the course.**

ENGLISH 3 - EN3011(2) - Jr. - 1 yr., 1 cr. - This course offers an in-depth study of some of America's most prized literary works in various genres. Students will learn to question, predict, and interpret the ways in which great literature can illuminate the human experience. Activities and assignments will encourage students to think critically about authorial intent and a text's enduring understanding. Students will also practice expository, persuasive and research writing to learn the various components of delivering an effective argument.

ENGLISH 3 - AMERICAN STUDIES - EN3111(2) - Jr. - 1 yr., 2 cr. -This two-credit course is an alternative to enrolling in U.S. History and English 3 separately; it satisfies the graduation requirements for both. Team-taught by an English and a history teacher during two consecutive periods, this course traces America's historical, artistic, and philosophical growth. Students analyze the American experience as a cultural whole: its institutions, literature, politics, economics, and ethnic groups. They are involved in essay writing, journaling, reading and discussing as well as several hands-on projects. The study of the U.S. Constitution and state and local government will be included in this course. Because of the two credits attached to this course, only students with a history of strong academic commitment are advised to select this course.

AP ENGLISH LANGUAGE AND COMPOSITION* - EN3031(2) - Jr. or Sr. - 1 yr., 1cr. - This course is designed according to the guidelines found in the AP English Course Description. In addition to meeting the standards set by the College Board, AP Language also provides students with a survey of the body of American Literature. Students will analyze, discuss, and write about various types of American prose, particularly essays, short stories, speeches, and novels, with an emphasis on the effectiveness of language, rhetorical strategies, and argument. Upon completion of this course, students will be prepared to take the Advanced Placement Examination in English Language and Composition. ***Honors/ AP students are required to read selected works of literature during the summer and respond in journal entries as preparation for the course.**

CREATIVE WRITING - EN4513 - Jr. - 1 sem, 1/2 cr. - Creative Writing explores the basic elements of fiction writing, including narrative, character, and dialogue, as well as the habits necessary to grow as a writer. Students will read a wide variety of short stories and poetry alongside essays on writing craft in order to develop a language for talking about how fiction works. Frequent writing exercises, often inspired by the readings, will explore genres such as poetry, memoir, as well as generate longer stories and experimental fiction. In the second half of class, students will compose a final portfolio that will be the culmination of their semester work and will include polished and publishable pieces. ***NOTE: Creative writing may also be taken by seniors as an elective towards their 3 1/2 credits for graduation. See the English Senior Electives page for details.**

JOURNALISTIC WRITING - EN4813 Jr. - 1 sem., 1/2 cr. - In this semester course, students will explore the foundational principles of journalism and its crucial role in a functioning democracy. Writing practices such as balanced reporting, evaluating sources, effective research and interviewing techniques will challenge students to develop their skills. Students will explore the evolution of journalism from the inception of the television to the 24-hour news cycle of today, our current “fake-news” epidemic, and reporting in the age of social media. Specific issues such as ethical decision making and journalistic integrity will be scrutinized through the exploration of current events. This course emphasizes the importance of critical thinking, challenging the status quo, and seeking the truth. ***NOTE: Juniors in Journalistic Writing take this course in addition to their core junior English course. Seniors may also take this as an elective towards their 3 1/2 credits for graduation. See the English Senior Electives page for details.**

AP ENGLISH LITERATURE AND COMPOSITION * - EN5031(2) - Sr. - 1 yr., 1 cr. - This course is designed for those students who have demonstrated a special interest and high level of competence in English. Concentrated instruction and practice in writing plus a chronological study of British literature through the twentieth century will enhance student preparation for the AP exam. Successful completion of this course qualifies the student to take the AP examination which can result in the awarding of college credit and/or advanced placement at the undergraduate level. Also, a major research project is required for successful completion of this course. ***Honors/AP students are required to read selected works of literature during the summer and respond in journal entries as preparation for the course.**

AP RESEARCH – EN5131(2)– Sr. – 1 yr. English cr. - In the second year of the AP Capstone curriculum, students will design, plan, and conduct a year long research-based investigation on a topic of individual interest. Through this mentored inquiry and investigation, students will learn research methodology and ethical research practices while accessing, analyzing and synthesizing information to address their research question. This course culminates in a 5000 word academic thesis paper, an oral defense, and a public presentation of their research.

ENGLISH SENIOR ELECTIVES

Senior students may choose from any of the following semester-long options. All students are encouraged to consult their teacher for recommendations.

***AP RESEARCH is a year-long course with specific requirements. See course description for details.**

SENIOR COMPOSITION - EN4713 - Sr. - 1 sem., 1/2 cr. - This is a challenging college-preparatory course designed to further develop competence in composition writing and prepare them for their freshmen-level college composition course requirement. It includes an intensive review of style, coherence, grammar, and mechanics. Assignments require students to write a variety of essays in different rhetorical modes such as comparison/contrast, argumentative, research, and personal narrative. A student electing to take this course should expect to write on a constant basis, incorporating mature content along with sophistication in writing style. In addition, a term project focuses on writing a literary analysis paper based on the independent reading of a novel and researched criticism in order to support a thesis. **Successful completion of the research paper is required to earn credit for the course.**

LITERATURE AND PSYCHOLOGY - EN4214 - Sr., 1 sem, 1/2 cr. - This course is designed for students who are interested in studying literature through a psychological lens. Divided into units that address sensitive issues such as anxiety and depression, grief and guilt, and love and relationships, students will apply psychological theories, especially those of Freud and Jung, to literature in order to deepen and enrich their understanding of a text.

MAJOR BRITISH WRITERS - EN4413 - Sr. - 1 sem., 1/2 cr. - In this college-preparatory course, students study the early history of English and the origins of the English language. They will meet remarkable characters and reflect upon the wisdom of literary giants like Chaucer, Shakespeare, Donne, and Joyce. The class will open up a treasure-trove of what Mathew Arnold called “the best that has been thought and said” in human history, and students’ study will give them the tools for accessing other great literature in the future.

WORLD LITERATURE - EN4313 - Sr. - 1 sem., 1/2 cr. - This college-preparatory course is designed for students with above-average reading skills and a special interest in global literature. Students will be involved in an active search for meaning in the texts as well as creative, critical reflections on questions of enduring significance. Students will have the opportunity to explore important works of literature from a variety of time periods and genres and from every continent.

MODERN LITERATURE AND COMPOSITION - EN4111(2) - Sr. - 1 sem., 1 cr. - This course is designed for students who wish to acquire additional skills in academic writing and further develop a critical understanding of literature. The study of literature includes selections that reflect multicultural issues and global social concerns of 21st century culture. Students should select this course if they are looking to balance more contemporary texts with academic writing.

LITERATURE OF WAR - EN4114 - 1 sem., 1/2 cr - This course examines literature through the lens of war, including the psychology, evolution, and ethos of both war and the warrior. The course will also encompass the history and consequences of both World Wars, and students will analyze two novels from not only a personal and a societal perspective but from a global one as well.

CREATIVE WRITING - EN4513 - Sr. - 1 sem., 1/2 cr. - Creative Writing explores the basic elements of fiction writing, including narrative, character, and dialogue, as well as the habits necessary to grow as a writer. Students will read a wide variety of short stories and poetry alongside essays on writing craft in order to develop a language for talking about how fiction works. Frequent writing exercises, often inspired by the readings, will explore genres such as poetry, memoir, as well as generate longer stories and experimental fiction. In the second half of class, students will compose a final portfolio that will be the culmination of their semester work and will include polished and publishable pieces. ***NOTE: Creative writing may also be taken by juniors as an additional elective. See General English course descriptions.**

JOURNALISTIC WRITING - EN4813- Sr. - 1 sem., 1/2 cr. - In this semester course, students will explore the foundational principles of journalism and its crucial role in a functioning democracy. Writing practices such as balanced reporting, evaluating sources, effective research and interviewing techniques will challenge students to develop their skills. Students will explore the evolution of journalism from the inception of the television to the 24-hour news cycle of today, our current “fake-news” epidemic, and reporting in the age of social media. Specific issues such as ethical decision making and journalistic integrity will be scrutinized through the exploration of current events. This course emphasizes the importance of critical thinking, challenging the status quo, and seeking the truth. ***NOTE: Journalistic Writing may also be taken by juniors as an additional elective.**

AFRICAN AMERICAN EXPERIENCES IN LITERATURE-EN4213 -Sr.-1 sem., 1/2 cr.- This study of the African American literary experience will examine how the historical, political, cultural, and societal elements of each time period are reflected through the novels, poetry, and voices of Black scholars throughout history. Through an exposure to authors whose ideas and values reflect diverse backgrounds, students will gain an appreciation in the similarities as well as the differences among all people. This course is designed for anyone with a strong appetite for reading, a dedication to respectful discussion, and desire for personal growth around race and equity in our society.

ACADEMIC ASSISTANCE COURSES

These classes are by administrative placement only.

**** This credit will not apply toward the three-year English requirement.**

ACADEMIC STRATEGIES 1 - EN1301(2) - Fr. - 1 yr., 1 elective cr.** - Criteria: Standardized reading test scores, 8th grade reading scores. For students reading below grade level and in need of academic strategy development. This course will develop and strengthen academic reading strategies and skills necessary for success in all content areas. Students will improve in the areas of comprehension, Project C.R.I.S.S. strategies for learning, writing development, content area support strategies (i.e. note taking, highlighting, and study strategies), academic vocabulary and fluency.

EXTENDED ENGLISH I - EN0011(2) - Two period course - Fr. - 1 English cr. & 1 elective cr. - Prerequisite: For students reading significantly below grade as determined by standardized reading test scores and recommendation. - This double period English course is designed to support the most at-risk reader. Students will be immersed in a standard English program emphasizing vocabulary acquisition, fluency, grammar, writing, and communication skills. Importance is placed on intensive reading strategies in order to accelerate reading growth toward grade level proficiency.

ENGLISH LEARNERS

*These classes are by administrative placement only.

TECHNOLOGY ESSENTIALS EL - BU1143 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: None. This course will develop the technology skills of EL students, as well as, support their development of English as a second language. Students first develop speed on a desktop keyboard. This important course will give students the technology skills for mobile and tablet devices and laptop or desktop computers. Microsoft Word and PowerPoint, as well as, Google Apps are used to help students develop and enhance their technology skills.

ENGLISH 1 EL - EN1041(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - (Typically recommended for students with ACCESS scores in the range of 1.0-1.9.) This course is designed for students who have little or no English language proficiency. Students use phonics and decoding strategies to develop skills in vocabulary and reading comprehension as well as written and oral English conventions. An immersion in English language and American culture will prepare students to transition into EL 2 and other appropriate academic classes. Must be consecutively enrolled in Language Skills 1 EL.

LANGUAGE SKILLS 1 EL - EN1141(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - This course is the second daily period of English 1 EL. It is designed for students from non-English speaking backgrounds to become proficient in listening, speaking, reading, and writing while developing literacy skills necessary to be successful in academic settings. Must be consecutively enrolled in English 1 EL.

ENGLISH 2 EL - EN1241 (2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - (Typically recommended for students with ACCESS scores in the range of 2.0-2.9.) This course is designed for beginning English Learners who demonstrate basic English language comprehension and fluency, and who are continuing to develop skills in listening, speaking, reading, and writing. Students are encouraged to use English in real life situations and to manipulate vocabulary and structures that they will need in their content-area classes. Grammar is taught formally by rules and informally through practice and repetition. Must be consecutively enrolled in Language Skills 2 EL.

LANGUAGE SKILLS 2 EL - EN1341(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - This course is the second daily period of English 2 EL. It is designed for students to learn structural patterns to effectively communicate in content-area topics. Reading material is guided and controlled to ensure practice of grammatical structures. Vocabulary development focuses on interpersonal communications and content-area terminology. Students also begin to develop more comprehensive writing skills. Must be consecutively enrolled in English 2 EL.

ENGLISH 3 EL - EN2041(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - (Typically recommended for students with ACCESS scores in the range of 3.0-3.9.)

This course is designed for students at an intermediate level of English language proficiency who have developed comprehension and conversational English skills. Students will be introduced to adolescent literature to help familiarize them with American society and culture. Students will also utilize inferential and other higher-level thinking skills. At the completion of this course, students will exhibit high-intermediate to advanced level proficiency in the four domains of listening, speaking, reading, and writing. Must be consecutively enrolled in Language Skills 3 EL.

LANGUAGE SKILLS 3 EL - EN2141(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Students will build on the vocabulary learned in English 2 EL. Vocabulary used in content-area classes will be studied to develop academic language proficiency. The course expands on students' existing language skills, emphasizing writing and formal speaking. Students will have opportunities for continued practice and refinement of academic language skills. Must be consecutively enrolled in English 3 EL.

ENGLISH BRIDGE EL - EN3041(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - (Typically recommended for students with ACCESS scores in the range of 4.0-4.7.) As the final course of English EL, it is designed to expose students to reading and writing at a high-intermediate to advanced level of English language proficiency. Emphasis will be placed on reading strategies and the writing process. Students will be introduced to various types of literature and will be provided with opportunities to further practice and refine all language skills. At the completion of EL Bridge, students will exhibit advanced level proficiency in the four domains of listening, speaking, reading, and writing. Upon successful completion of the program of study, students will be prepared to thrive in a mainstream English course.

CONSUMER MANAGEMENT EL - FC3343 - Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: EL 3 and Bridge. This course fulfills the consumer education requirement for graduation. While supporting students continued development of English as a second language, this course will teach students financial responsibility. Money management, credit and debt, use of banking institutions for savings and checking accounts, and investment options are topics students will learn.

CULINARY ARTS EL - FC1143 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - This course is designed for students from non-English speaking backgrounds to develop vocabulary and preparation skills related to basic American food items. Units of study include quick breads and cereals, fruits, vegetables, dairy/meat and cookies and simple nutrition. Laboratory experiences will emphasize vocabulary, safety, sanitation and the proper use and care of food preparation equipment.

SPEECH - EL - SP1043 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: EL 3 and Bridge. This course is designed with the English Language Learner in mind. Students will build and expand their communication skills and vocabulary. The class incorporates individual, partner, and group work that explore a variety of speech activities. The highlights include job interviewing, a Radio/TV News report, and speeches that focus on cultural celebrations, a demonstration, personal narratives and informative topics. The class is interactive and is adapted to meet the needs of the students. Students must be able to demonstrate an intermediate level of competency in English in order to take this course.

PRE-ALGEBRA EL - MA0641(2) - Fr. - 1 yr, 1 cr. - Pre-Algebra EL is a sheltered content class that covers pre-algebra material, including whole numbers, decimals, fractions, percents, proportions and equations with one variable. The class provides a solid math foundation of skills, processes and vocabulary on which future classes will build.

ALGEBRA EL - MA1141(2) - Fr., Soph., Jr., Sr. - 1 yr. 1 cr. - Prerequisite: Recommendation of the EL teacher. The purpose of this course is to prepare English language deficient students for their transition into courses offered by the mathematics department. Students may be moved out any time during the year, and their placement will be determined by both their English language proficiency and their mathematics proficiency.

GEOMETRY EL - MA2141(2) - Soph., Jr. - 1 yr., 1 cr. - Prerequisite: Algebra 1 and recommendation of Department Chair. Geometry is an integrated course in plane, solid, and coordinate geometry. This course emphasizes problem-solving skills as opportunities for review of algebra.

HEALTH EL - HE1043 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: EL 3 and Bridge. This course is designed for those students who have demonstrated a need for English as a second language instruction. The course includes the study of mental health, personal hygiene, human sexuality, disease, nutrition, drug education and safety and first aid. This course fulfills the health requirement for graduation.

PHYSICAL SCIENCE EL - SC1441(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Recommendation of the EL teacher and counselor. This course is based on laboratory work where physical science principles are learned through experimentation. This course presents an introduction to chemistry and physics where scientific data are collected and interpreted, using skills such as measurement of length, mass, volume and temperature. Emphasis is placed on record keeping, organizing facts and problem solving. EL Science will prepare English language deficient students for their transition into other courses offered by the science department.

BIOLOGY EL - SC2041(2) - Fr., So., Jr., Sr., - 1 yr., 1 cr. - Prerequisite: Recommendation of the EL teacher and the Science EL teacher. This course is based on laboratory work where the biological principles are learned through experimentation. Topics covered include the study of cells, biochemistry, reproduction, physiology, diversity of plants and animals, heredity and evolution. EL Biology will prepare English Language learners for their transition into other courses offered by the science department.

CHEMISTRY EL - SC3341(2) - Sop., Jr., Sr., 1 yr., 1 cr. - Prerequisite: Algebra with a "C" or better and Biology EL. Chemistry EL is a course that deals specifically with the nature of matter. This is a lab-based class that will focus on quantitative problem solving and scientific literacy. Topics include: atomic structure, nature of matter and chemical reactions, mathematics of chemical reactions, gas laws, periodicity, thermodynamics and acid-base chemistry.

US HISTORY EL - SS3041(2) - Fr., Soph., Jr., Sr., 1 yr., 1 cr. - Prerequisite: EL Level 3 and Bridge. This course is designed to meet two objectives: to improve each student's English language ability and to learn about United States History. Students will explore significant events from the Colonial Period through the 20th Century and will be encouraged to think critically about the events and people that have come to define the United States. Students will also practice reading, writing, speaking and listening in English. Successful completion of U.S. History EL will provide students with the skills and background knowledge needed in U.S. Government and Politics EL. **Successful completion of this course is required for graduation.**

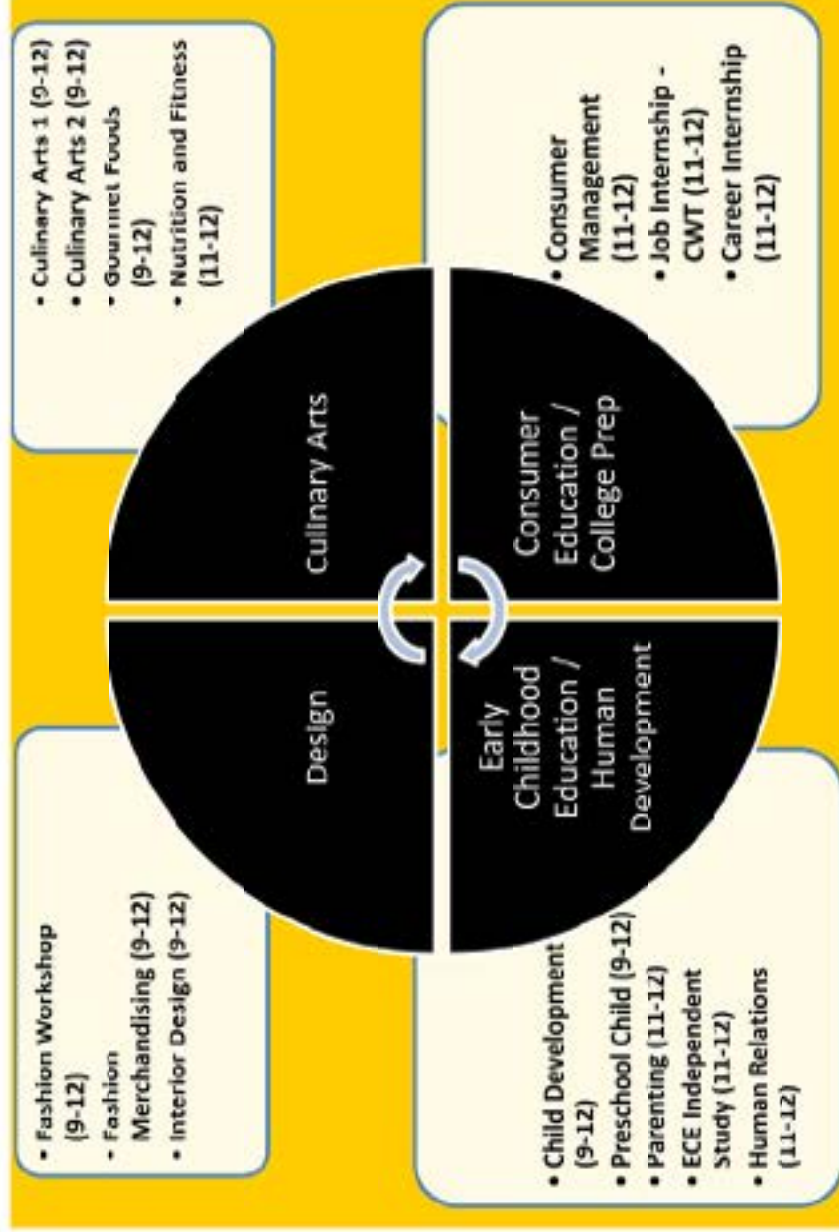
UNITED STATES GOVERNMENT AND POLITICS EL - SS4303 - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Students must have successfully completed U.S. History EL. This course is especially crafted for students who are participating in the EL program; attention to language and communication skills will complement the study of the political structure of the United States at the national, state, and local levels. Students will begin their study examining classical political philosophies and explore the practical operations of government at the local, state and national levels. Students will be encouraged to think critically about the role of individual citizens in the political process and are expected to engage in activities which involve active citizenship in and outside of the classroom.

State Requirement: Passing grade on the U.S./Illinois Constitution exam is required for graduation.

Glenbard Requirement: Successful completion of this course fulfills the civics requirement for graduation.

STUDY METHODS EL - EN9941(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Basic study skills are taught and reinforced. Time management, outlining, note-taking and test-taking are some examples of skills taught in this course. Daily study time is provided for practical application of study skills.

Glenbard North Family and Consumer Science Department



FAMILY and CONSUMER SCIENCE

The mission of our department is to provide all students relevant and challenging educational opportunities while supporting a greater understanding of post-secondary careers and pathways. Our students will acquire critical life, technical and employability skills while engaging in professional experiences that relate to the 16 national career clusters.

- Courses offered in these areas meet the Applied Arts Graduation Requirement.
- Consumer Management meets the Consumer Education Graduation Requirement. This course emphasize Personal Financial Literacy beyond basic economics.
- Nutrition and Fitness can meet a Physical Education Graduation Requirement.

How can you earn College Credit at College of DuPage by taking Family and Consumer Science Courses?

**Consumer Education Graduation Requirement*

CULINARY ARTS 1 - FC1113 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Acquire teamwork skills that will last a lifetime. Explore culinary techniques and cooking methods while learning to work safely and efficiently in the kitchen. A la carte food items and meals are prepared in lab including quick breads, fresh pasta, pizza, and desserts. Catering projects apply the concept of small businesses in the hospitality industry. Apply information about nutrition and wellness to your lifestyle. Develop skills that can be used for job placement in the hospitality industry or for personal use.

CULINARY ARTS 2 - FC2113 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Culinary Arts 1. Continue expanding the food preparation skills learned in Culinary Arts 1 while using more advanced cooking methods to prepare pastries, meat and poultry dishes, soups, sauces, cakes, and yeast breads. Work together to create meals for entertaining throughout the semester. Quantity food preparation is practiced during catering projects. Students take a field trip to encounter new experiences in dining.

GOURMET FOODS - FC4113 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Culinary Arts 1. Advance your food preparation skills from Culinary Arts 1 to prepare regional cuisine and advanced culinary arts projects. Current food and restaurant trends will be explored. Experience international cuisine and food customs. Carry out marketing and production plans for catering and commercial food projects. Learn advanced techniques for candy making, cake decorating, and other gourmet food projects.

NUTRITION AND FITNESS - PE3113 - Soph., Jr., Sr.- 1 sem., 1/2 cr. (.5 in PE)

This one-semester course is an integrated program which incorporates the principles of foods and nutrition. The student will analyze his/her diet, prepare nutritious foods, and participate in a variety of fitness and stress management activities. Each student will participate in a health and fitness evaluation at the beginning of the semester and will then establish his/her own fitness and nutritional goals for the semester. Activities include: computer diet analysis, selection and preparation of low fat foods and menus, running, walking, aerobics other fitness related activities, and speakers related to health and fitness. **This class may be repeated once; different topics are covered in the fall and spring semester.** This course fulfills the Physical Education requirement. Each student will receive .5 credit per semester for successful completion of the program. If a student chooses to take this course and an additional PE course, they could elect to receive a .5 credit for applied arts rather than the .5 PE credit.

FASHION WORKSHOP - FC1213 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - The main focus of the course is the world of fashion, how it changes and how to make fashion work for you. Design your own fashions as you create a wearable art project. Find out your figure type and learn to choose clothes that will make you look your best. Students learn to coordinate fashion looks and accessories by applying design elements and principles to their design projects. Hands-on projects are used throughout the course. Some projects may involve sewing techniques.

FASHION MERCHANDISING - FC2213 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - No prerequisite required. An adventure into the fashion world: fashion merchandising, apparel design, advertising, retail buying, visual display, modeling, fashion show production or textile design! Class projects allow students to learn skills used in fashion related businesses. This course includes many hands-on projects.

INTERIOR DESIGN - FC3613 - Fr, Soph., Jr., Sr. - 1 sem., 1/2 cr. - Learn about the many factors involved in creating a satisfying living environment. Analyze residential and commercial floor plans and learn basic drafting skills to draft your own. Choose fabrics and furniture styles to create a specific look in a room. Apply design, color and art principles to design projects. Work with space planning and traffic patterns to create practical, interesting furniture arrangements. Projects are used extensively so students can apply the concepts they learn. This is an excellent course for the student who plans a career in design or architecture.

CHILD DEVELOPMENT - FC2313 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Learn how children grow and develop, how they express their emotions and expand their knowledge. Children from birth to age eight will be studied. Examine the importance of toys and play in a child's life. Study the theories of child psychologists, including Piaget. Student laboratory work will be with 3-5 year old children during the ten-week session in the Little Panther Playschool, our on-site child development lab. This class provides information for anyone considering a career working with children, in social services, teaching and beyond.

PRESCHOOL CHILD - FC3913 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Child Development. Learn about communication techniques that are successful with young children. Explore the use of positive discipline methods. Learn about the professions in early childhood development and how to plan and present age-appropriate activities to preschool children. Apply developmental information learned in the previous course. Students will plan and present lessons to 3-5 year old children during the ten-week session in the Little Panther Playschool, our on-site development lab. The course is highly recommended for anyone planning a career in education, psychology, or social services. Independent Study in early childhood education is available after this course is completed.

INDEPENDENT STUDY IN EARLY CHILDHOOD EDUCATION - Jr., Sr. - 1 or 2 sem., 1/2 cr. per sem. - Prerequisite: Child Development, Preschool Child and Dept. Chair approval. Students will learn the business of running a Playschool from set up in fall to shut down in spring. Administrative tasks will include parent correspondence, computer generated forms for children, room management, and Playschool inventory. Preparation and teaching of activity centers for 18-36 month old children occur during a ten-week session in conjunction with the Little Panther PlayGroup, our on-site child development lab. Student must be self-motivated, able to work steadily on his/her own, and love children. See page 7 of the enrollment handbook regarding school guidelines for independent study.

PARENTING - FC3713 - Jr., Sr. - 1 sem., 1/2 cr. - No prerequisite required - Explore and prepare for the future of parenting including today's key controversies. Investigate children's physical and emotional needs; discover why parents are crucial to their children's development. Family dynamics, planning, challenges, and crisis are covered along with parenting strategies and styles. This class interacts with 18-36 month old children during a ten-week session in the Little Panther Playgroup, our on-site child development lab. This class is very applicable to career choices in education, nursing, psychology and social services.

HUMAN RELATIONS - FC3413 - Jr., Sr., - 1 sem., 1/2 cr. - Look closely at the relationships you have with the important people in your life. Learn about yourself and others. Examine personality development theories and how they apply to the individual. Explore future relationships such as marriage and parenthood as you develop an understanding of the person you are now and the person you want to become. This course examines positive communication skills and techniques essential to everyone as they interact with others in their careers and relationships.

JOB INTERNSHIP

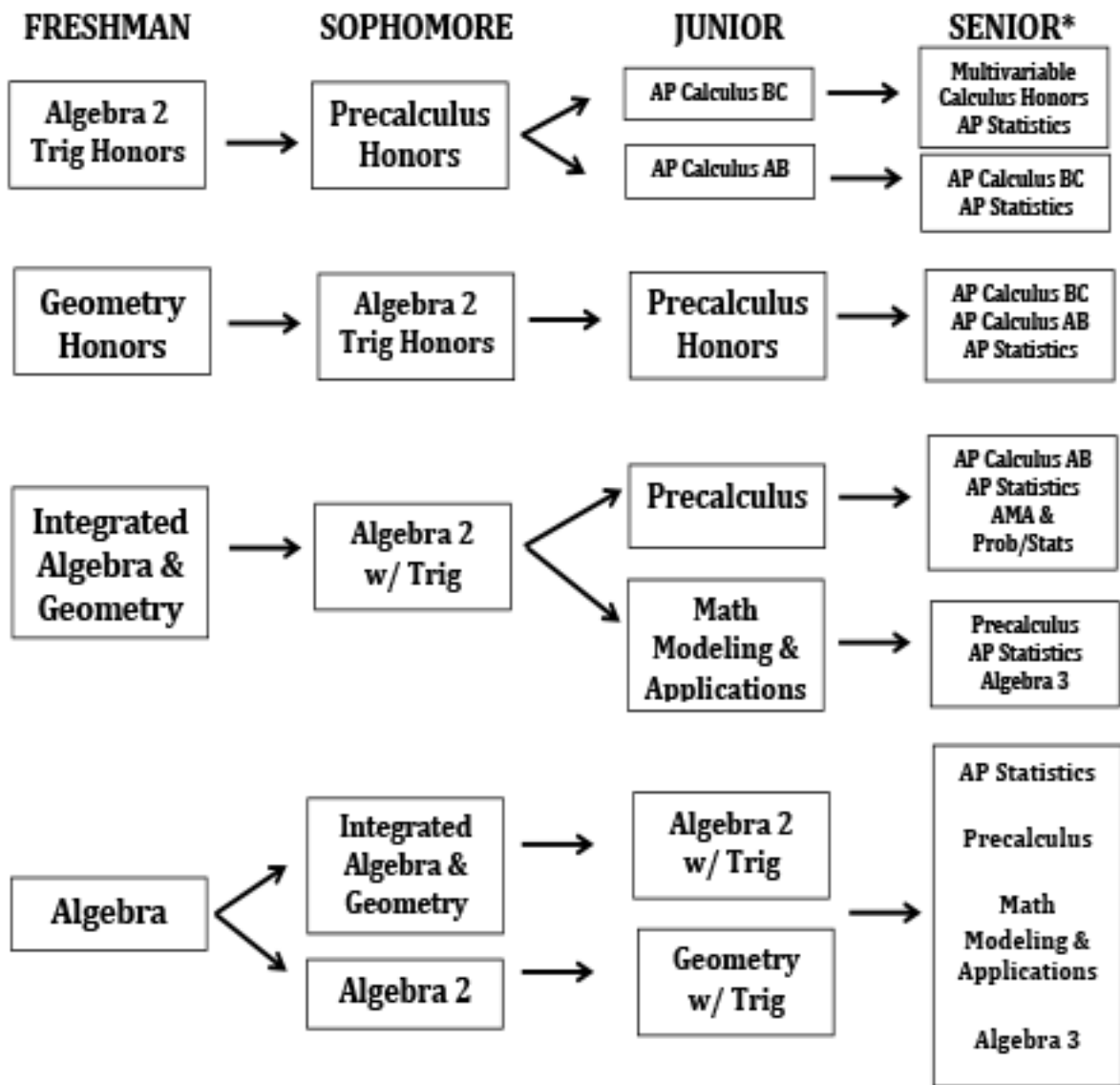
COOPERATIVE WORK PROGRAM - BU3011(2) & BU3111(2) - Jr., Sr. - 1 yr., 3 cr. - Prerequisite: 16 years of age, transportation. The Cooperative Work Training Program provides opportunities for students to explore careers in a variety of occupations, develop good work habits, attitudes, self-confidence and sense of job security and independence. The overall goal of the program is for students to obtain work experience and develop desirable employment and academic skills in preparation for potential career choices. Students can be released from school anywhere between one to two class periods to attend work. **This course fulfills the applied arts and consumer education requirement.** *Students who enroll in this program MUST be employed for at least 15 hours a week and show proof of employment by Friday of the first week of school.*

CONSUMER EDUCATION

CONSUMER MANAGEMENT – FC3813 - Jr., Sr. – 1 sem., 1/2 cr. - Learn to “live” the concepts of budgeting, investing, renting or buying a home, reconciling your checkbook, getting credit, and preparing income taxes as a consumer, worker, and a citizen in our market economy! This Junior/Senior course is designed to assist students with the challenges of living with a roommate or marriage partner.

Mathematics Department

2021-2022



*Seniors with a Math SAT of 530+ qualify to take our dual credit course Math 1218 General Education Math. See handbook for further details.

MATH

A TI-84 calculator (or equivalent) is required for ALL math courses. It is important to note that due to recording, camera, and internet capabilities, the use of iPad is NOT allowed on any assessment.

A number of the courses listed are part of our Honors (H) or Advanced Placement (AP) series of courses. These courses are rich in mathematics theory and application; they will provide students with a solid foundation on which to build a career heavy in mathematics. Students interested in pursuing these courses should have a strong affinity for mathematics and truly enjoy problem solving. Students enrolled in these classes may be required to complete summer work.

ALGEBRA ENRICHED - MA0111(2) - Fr. 1 yr., 0 cr. - Algebra Enriched is a course designed to be a flexible support for students who need assistance to be successful in Algebra. This is a needs-based course in which students will be selected based on 8th grade teacher recommendations and performance on the PSAT8/9. At times, students may be dismissed to a regular study hall to work on course work in other areas. This will allow the mathematics teacher to target instruction to specific skills and competencies necessary for success in Algebra. A determination will be made at the conclusion of semester 1 regarding the students continued placement in this course. Upon availability, students who are successful in Algebra will have the option of taking a regular study hall or an elective of their choice during semester 2 in place of Algebra Enriched.

ALGEBRA 1 - MA1111(2) - Fr. - 1 yr., 1 cr. - Prerequisite: Previous school recommendations and PSAT 8/9 scores. This course is designed for the first year algebra student or for a continuation of algebra in 8th grade. It integrates the language and application of algebra with geometry, statistics, and probability. Problem solving is emphasized throughout the course. The content focuses on the application of algebraic skills in real-world situations.

INTEGRATED ALGEBRA AND GEOMETRY - MA1311(2) - Fr. - 1 yr., 1 cr. - Prerequisite: Previous school recommendations and PSAT 8/9 scores. This accelerated course reinforces conceptual understanding and procedural fluency of foundational Algebra 1 content, while integrating plane, solid, and coordinate geometry. Problem-solving, multiple representations of mathematical relationships, and effective use of technology are emphasized. This course satisfies the requirement for Algebra and Geometry. Successful completion prepares a student for Algebra 2 with Trigonometry.

GEOMETRY H - MA2121(2) - Fr., Soph. - 1 yr., 1 cr. - Prerequisite: Algebra. This is a course in plane, solid and coordinate geometry. In addition to topics of regular geometry, students will study inequalities and coordinate proofs. Formal proofs will be emphasized and students will be exposed to a variety of non-routine problems.

ALGEBRA 2 - MA3211(2) - Soph - 1 yr., 1 cr. - Prerequisite: Algebra 1. Algebra 2 reinforces the concepts of Algebra and gives a more thorough understanding of the number system, of graphical representation, and of the function concept. The study of topics such as quadratic functions, complex numbers, matrices and determinants, and probability, gives the student increased computational skills, as well as ability to apply them to wider fields.

ALGEBRA 2 WITH TRIGONOMETRY - MA3411(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Integrated Algebra & Geometry. This is a course in advanced algebra. Algebra 2 with Trigonometry emphasizes an understanding of the number system, the concept of a function, graphical representations of functions, and trigonometry. Topics include linear, quadratic, exponential, trigonometric functions, complex numbers, logarithms, matrices, and sequences.

ALGEBRA 2 WITH TRIGONOMETRY H - MA3421(2) - Fr., Soph. - 1 yr., 1 cr. - Prerequisite: Geometry Honors. The content is similar to that of Algebra 2 with Trigonometry but also includes extensions and problem-solving activities designed to challenge, enrich, and deepen students' math understanding. *Students choosing to level-up are expected to complete the Algebra 2 with Trigonometry Honors Summer Bridge course to prepare for the rigorous course work in honors Mathematics.

GEOMETRY WITH TRIGONOMETRY - MA3911(2) - Jr. - 1 yr., 1 cr. - Prerequisite: Algebra 2. Geometry with Trigonometry includes a continuation of Algebra 2 topics that focus on exponential and logarithmic functions and trigonometry. Geometry will focus on plane, 3D-space, and coordinate geometry. Topics include triangles, circles, polygons, parallel lines and an introduction to coordinate and solid geometry.

MATHEMATICAL MODELING AND APPLICATIONS - MA4121(2) - Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Algebra 2 with Trigonometry. This course will provide an emphasis on business, social science, and natural science applications to enhance the numerical literacy of the student. The application will focus on statistical analysis, financial literacy, social science trends, and business analysis. This course will also enhance students' ability to communicate mathematically both orally and in written form. Students' critical thinking skills will be further developed in preparation for their college work, or entry into the traditional Pre-calculus, Calculus sequence, or an AP Statistics course.

PRECALCULUS - MA4511(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Algebra 2 with Trigonometry or Algebra 2 with Trigonometry Honors. Pre-calculus is a one year course that emphasizes an in-depth understanding of functions, including linear, quadratic, exponential, and trigonometric functions. Other topics include vectors, matrices, logarithms, and complex numbers. Real world applications are used. There is extensive graphing calculator use in this course.

PRECALCULUS H - MA4521(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Algebra 2 with Trigonometry Honors. This course combines the study of trigonometry and analytic geometry with advanced work in functions, logarithms, complex numbers, vectors, matrices, sequences, and series. In addition, students will be introduced to some topics which are usually covered at the beginning of calculus, such as the formal definition of the limit of a function, continuity of a function, and the first and second derivatives of a function.

ALGEBRA 3 - MA4611(2) - Sr. - 1 yr., 1 cr. - Prerequisite: Algebra 2 with Trigonometry or both Algebra 2 and Geometry with Trigonometry. This course is designed to develop mathematical reasoning and maturity and to transition students directly into college and career pathways requiring general education college level math competencies in quantitative literacy and statistics. Five topics will be studied: personal finance, statistics and predictions in everyday life, constructing our world, and math in decision making. The course emphasizes problem solving and reinforces the fundamental concepts of algebra. Algebra 3 will prepare all students for the mathematics needed for college and career. Students completing this course with a C or better can transition into a general education credit-bearing math course at COD or equivalent course at an Illinois community college. (Portability Code: TM002)

ADVANCED MATHEMATICAL APPLICATIONS – MA4113 – Sr. – 1 sem – 1/2 cr. - Prerequisite: Precalculus. In this course students will learn new skills from the field of linear algebra and discrete and finite mathematics, as well as, an introduction to applied calculus. Students will work to understand how mathematical applications and models play a role in economics and social, life, and physical sciences.

PROBABILITY AND STATISTICS – MA4213 – Sr. – 1 sem – 1/2 cr. - Prerequisite: Precalculus. Statistics is the science of collecting information; organizing and displaying the information in the form of numerical data; and analyzing, interpreting, and making predictions from the data. This course familiarizes students with experiment design, formulation and testing of hypotheses, and adoption of confidence intervals to predict future behavior using probability. Students will pursue solutions to real and challenging problems in business and economics, biology and medicine, social sciences, psychology and education.

Math 1218 GENERAL EDUCATION MATH-MA5611(2)-SR.-1 Yr., 1 cr. +3 hours undergraduate credit from the College of DuPage. Prerequisite: Math SAT score of 530+. Students will learn mathematical reasoning and the solving of real-life problems, rather than routine skills. Four topics will be studied: set theory, logic theory, counting techniques and probability, and mathematics of finance. This is a dual credit course and is designed to fulfill general education requirements, and not designed as a prerequisite for any other college mathematics course. Dual Credit Math 1218 is offered at no cost and is transferable to many colleges and universities through a COD transcript and the Illinois Articulation Initiative (IAI M1 904).

Students should talk with their school counselor and current math teacher to discuss if this course is a good fit for their future college and career goals.

AP STATISTICS - MA5131(2) - Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Algebra 2 with Trigonometry or equivalent. This course will provide a full year junior/ senior mathematics course for college bound students. This course will cover both descriptive and inferential statistics and will cover topics like experimental design, probability, sampling distributions, confidence intervals and hypothesis tests. Successful completion of this course should qualify the student to take the AP examination and can result in the awarding of college credit and/or advanced placement at the undergraduate level of college.

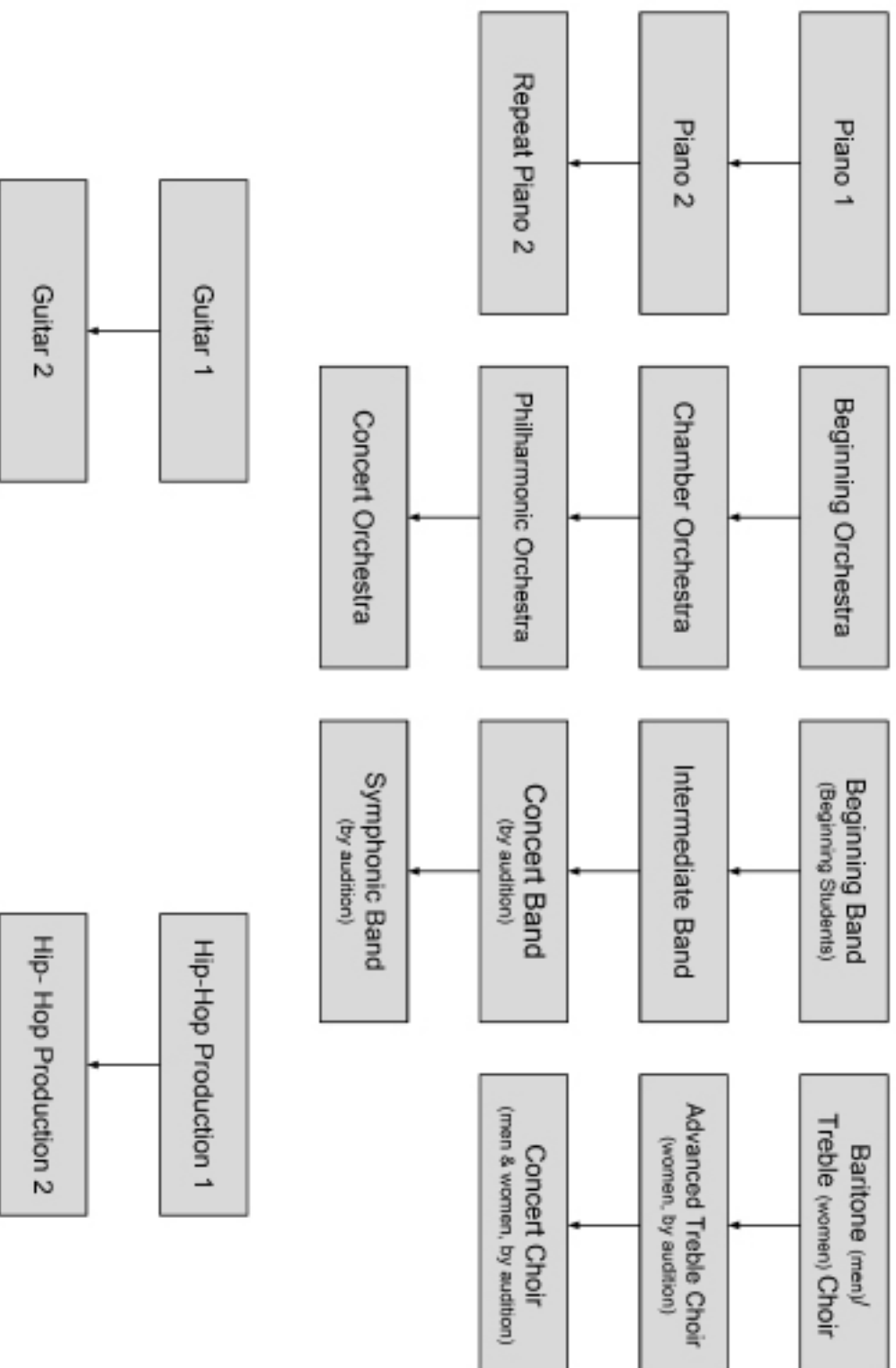
AP CALCULUS (AB) - MA5231(2) - Sr. - 1 yr., 1 cr. - Prerequisite: Pre-Calculus or Pre-Calculus H. This is a course in introductory calculus with elementary functions and includes all the topics that are part of the AP-AB syllabus for differential and integral calculus. Successful completion of this course should qualify the student to take the AP examination and can result in the awarding of one semester of college credit and/or advanced placement at the undergraduate level of college.

AP CALCULUS (BC) - MA5331(2) - Sr. - 1 yr., 1 cr. - Prerequisite: Pre-Calculus H. This course includes all the topics normally included in the differential and integral calculus. It is quite likely that a student who successfully completes this course will receive either advanced placement or credit at the college level. Successful completion of this course should qualify the student to take the AP examination and can result in the awarding of two semesters of college credit and/or advanced placement at the undergraduate level of college.

MULTIVARIABLE CALCULUS H - MA5531/2 – Sr. – 1 yr. – 1 cr. - + 4 hours undergraduate credit from University of Illinois. Prerequisite: AP Calculus BC (U of I only offers MVC credit for a 4 or 5 on the BC exam). This course is the capstone of our calculus course sequence and is offered at Glenbard North through a dual enrollment model with the University of Illinois @ Urbana-Champaign. There is a \$400.00 (price subject to change) enrollment fee per student. This fee also avails the student to 4 hours of undergraduate credit at the University of Illinois upon completion of the course (along with earning a 4 or higher on the AP Calculus BC Exam). Students receive personal help from on-line mentors under the guidance of the Glenbard teacher trained to guide this computer-aided course. While students are expected to perform calculations by hand, abstracting away from the algebraic calculations can often make it easier to initially learn the connections between concepts. Technology allows students to quickly produce and easily change graphics and representations of their formulas.

MUSIC

Music Curriculum



MUSIC

Enrollment in any of the Music Department courses satisfies the cultural education requirement needed for graduation.

GUITAR 1 - MU1513 - Fr., Soph., Jr., Sr. – 1/2 yr., 1/2 cr. - This course offers beginning instruction on acoustic guitar. Instruction emphasizes music fundamentals, chord structures, music notation, picking, strumming, and instrumental techniques for accompanying and playing traditional and contemporary songs. Students will be provided with an acoustic guitar.

GUITAR 2 - MU3513 - Fr., Soph., Jr., Sr. – 1/2 yr., 1/2 cr. - Prerequisite: Guitar 1. This course is an extension of Guitar 1 and offers more advanced instruction on acoustic guitar. Instruction continues to emphasize music fundamentals, chord structures, music notation, picking, strumming, and instrumental techniques for accompanying and playing traditional and contemporary songs. Students will be provided with an acoustic guitar. This course is repeatable.

PIANO 1 - MU2513 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: None. This class is for students with little or no piano experience and will teach students the basics of piano keyboarding performance. Using these piano skills, students will also explore elements of music theory, history, notation, and composition.

PIANO 2 - MU4513 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Successful completion of Piano 1 or approval of instructor. This class is a continuation of Piano 1, stressing the development of advanced piano skills. This class will allow students to develop their skills both within a group as well as through independent projects that are coordinated on a “one-to-one” type basis with the instructor. This class will be geared to students with piano background: either private piano lessons or successful completion of Piano 1. This course is repeatable.

HIP HOP PRODUCTION 1 - MU2613 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - This class is for students with an interest in or curiosity about Hip Hop music. The main purpose of the course is to create original Hip Hop music (both lyrics and beats). Students use and learn about loop-based software on their iPad to create and sample beats. Students will have access to recording equipment to create studio-quality audio recordings of their rapping and/or singing. While the focus of the class is on creating new material, students will also explore Hip Hop origins, current Hip Hop music, Hip Hop culture (graffiti art, beatboxing, and break dancing), as well as Hip Hop’s impact on society and social issues. Students do not need any experience or background in Hip Hop music to take this course.

HIP HOP PRODUCTION 2 - MU2713 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Hip Hop Production 1 or consent from instructor. Deeply expands on the content and techniques used in recording, producing, and performing hip hop music learned in Hip Hop Production 1. With professional software including Logic Pro, students will create a wide portfolio of music that have both impact and real-world applications. Students will also explore multiple genres to deepen and inspire the music making process. Hip Hop Production 1 is a prerequisite for this course. This course will apply to the cultural arts requirement for graduation. This course is repeatable.

BEGINNING BEGINNING ORCHESTRA - MU1411(2) - Fr., Soph., Jr. - 1 yr., 1 cr. -

Prerequisite: None. This class

is for the beginning stringed instrument player with little or no musical training. Instruction is offered on orchestral stringed instruments: Violin, Viola, Cello and Stringed Bass. Fundamentals of string playing are taught with an emphasis on proper instrument and bow position, tone production, intonation, rhythm, note reading, basic music theory, ensemble playing, and the development of basic aural skills. Upon completion of this course the student may gain membership in the Chamber Orchestra.

CHAMBER ORCHESTRA - MU2411(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. -

Prerequisite: Previous instruction on the chosen instrument at the Middle School level or successful completion of Beginning Orchestra. In this class, students receive additional technical and musical training. Emphasis is placed on bowings, vibrato, intonation, and rhythm. Several types of compositions are prepared and presented in public concert.

PHILHARMONIC ORCHESTRA-MU3411(2)- Fr., Soph., Jr., Sr.- 1 yr., 1 cr.- In this class, students begin to engage in deep study of more challenging music from the classical repertoire as well as film soundtracks and popular songs. Philharmonic Orchestra students are part of a bigger and exciting Orchestra with selected band students. Several evening concerts and rehearsals are a required component of the class. **Prerequisite: successful audition during the previous school year. Orchestra placements are made in the spring by the orchestra teachers.**

BEGINNING BAND - MU1311(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - This is a class for students who have no previous or very limited experience playing a musical instrument. The class will prepare wind and percussion students for further study in Intermediate Band. All students will develop their own individual skills and techniques.

INTERMEDIATE BAND - MU2211(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Approval by band director. This is a class for students who have experience playing in band, but have not auditioned into either Concert or Symphonic Band. This class will prepare students for participation in Concert Band, Symphonic Band and Marching Band. The type of instrument studied is limited to winds and percussion.

CONCERT BAND - MU3111(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Audition in the spring prior to the start of the school year. Concert Band is composed of students who have exhibited a sufficient technical proficiency to perform advanced literature. Students will continue to progress in their musical skills. Members of the Concert Band also play in Marching Band and Pep Band.

SYMPHONIC BAND – MU4211(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Audition in the spring prior to the start of the school year. Symphonic Band is composed of students who have exhibited the highest level of technical proficiency on their instrument. Emphasis is placed on giving the individual a comprehensive background and experience in performance of traditional and contemporary music. Members of the Symphonic Band also play in Marching Band and Pep Band.

BARITONE CHOIR - MU1111(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - This course is for the beginning singer with little or no musical training. Fundamentals of music notation, sight reading, breath control, and tone production, as well as basic aural skills are taught. Each year members are required to participate in several formal concerts presented by both the individual choruses and the combined choral department. Upon completion of this course, students may audition to progress to Concert Choir.

TREBLE CHOIR - MU1211(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - This course is for the beginning singer with little or no musical training. Fundamentals of music notation, sight reading, breath control, and the tone production, as well as basic aural skills are taught. Each year the members are required to participate in several formal concerts presented by both the individual choruses and the combined choral department. Upon completion of this course, students may audition to progress to Advanced Treble Choir or Concert Choir.

TREBLE-BARITONE CHOIR ii - MU1371(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - In Treble-Baritone Choir ii, the focus is on developmentally appropriate music skills. Peers will be partnered with Life Skills students and will be responsible for assisting and participating with the students in all music activities. Activities will include singing, playing instruments, and movement. This class may also perform at Glenbard North choir concerts throughout the year, as well as other performance opportunities.

ADVANCED TREBLE CHOIR - MU3011(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Audition in the spring prior to the school year or recommendation of the director - This vocal ensemble is an advanced group for singers who have had experience in a high school chorus. Continued study of tone production, breath control, sight reading and music theory concepts are stressed. Each year members are required to participate in several formal concerts presented by both the individual choruses and the combined choral department. Upon completion of this course, students may audition to progress to Concert Choir.

CONCERT CHOIR - MU4011(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Audition in the spring prior to the start of the school year - Concert Choir is an advanced mixed vocal ensemble for students who have satisfactorily completed Advanced Treble Choir or Baritone Choir. With the choir, vocal techniques and performance skills are developed and refined at a high level. A wide variety of music is studied and mastered. Concert Choir performs in four formal concerts per year, as well as occasional out-of-school performances.

AP MUSIC THEORY - MU5031(2) - Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Enrollment in another music course or instructor recommendation. - This course gives the student a thorough introduction to advanced music theory as well as the study of music history. Included in this course is ear training, sight singing, melodic dictation, conducting, and a broader understanding of music as a listener as well as a performer. Music Theory is an especially helpful course for the individual who is considering enrolling in music at the college level.

PHYSICAL EDUCATION AND HEALTH

PHYSICAL EDUCATION REQUIREMENT FOR GRADUATION

Daily Physical Education Program:	Semester 1	Semester 2
Grade 9	P.E. or Health	P.E. or Health
Grade 10	P.E. or Driver Ed.	P.E. or Driver Ed.
Grade 11	P.E.	P.E.
Grade 12	P.E.	P.E.

For juniors and seniors, the state mandates a program of physical education. Three credits in physical education are required for graduation (1/2 credit per semester course). Due to the continuing state mandate of physical education, except during the semesters that health and driver education are taken, the normal student progress toward accumulating the necessary three credits in physical education will be a one semester course in physical education during the freshman year, a one semester course in physical education the sophomore year, and full years of physical education during junior and senior years. (Students may choose to take elective physical education classes in addition to the required courses- up to four credits may be used toward graduation.) However, it should be noted that additional elective courses taken in physical education during a particular school year cannot be substituted for the state physical education requirement in a later school year. Grades earned in physical education will be used in computing a student's grade point average.

The Glenbard North physical education uniform is required for all students.

COMMON ASSESSMENTS

Performance Assessment: Students are required to complete a pre and post-fitness assessment measuring their health related fitness: cardiovascular endurance (mile run), muscular strength (push-ups), muscular endurance (sit-ups) and flexibility (sit and reach). Students will be assessed on growth in these respective areas throughout the semester as well as their junior and senior year. Student data will be stored in Mastery Manager. Student data will be collected with Mastery Manager and student's fitness test scores will be tracked through a database.

Cognitive Assessment: Freshmen and sophomore students will complete a common district assessment at the end of the semester showing their knowledge, understanding, and applications of various fitness and wellness concepts. Student data will be stored in Mastery Manager. Student data will be collected with Mastery Manager and student's fitness test scores will be tracked through a database.

FROSH PE - PE1011(2) - Fr. - 1/2 cr.-This course emphasizes knowledge and development of fitness and wellness concepts through instruction and participation in physical education activities. Units of study may include basketball, volleyball, badminton, soccer, team building, and fitness and others. Students will be introduced to the use of heart rate monitors. Students will be challenged to think critically and collaborate with peers. The class will All freshmen will take this class one semester of their freshman year.

NUTRITION AND FITNESS - PE3113 - Jr., Sr. - 1 sem, 1/2 cr. - This one semester course is an integrated program which incorporates the principles of foods and nutrition. The student will analyze his/her diet, prepare nutritious foods, and participate in a variety of fitness and stress management activities. Each student will participate in a health and fitness evaluation at the beginning of the semester and will then establish his/her own fitness and nutritional goals for the semester. Activities include: computer diet analysis, selection and preparation of low fat foods and menus, running, walking, aerobics, other fitness related activities, and speakers related to health and fitness. This class may be repeated once, different topics are covered in the fall and spring semester. This course fulfills the Physical Education requirement. Each student will receive .5 credit per semester for successful completion of the program. If a student chooses to take this course and an additional PE course, they could elect to receive a .5 credit for applied arts rather than the .5 PE credit.

ADVANCED STRENGTH TRAINING - PE4811(2) - Jr., Sr. - 1 sem., 1/2 cr. - This class is offered to students who want to improve their strength, speed, quickness and cardiovascular fitness. This course includes high intensity weight, functional, and plyometric training. The advanced strength training class is designed to provide each student with the knowledge needed to understand the importance of strength and fitness training.

MODIFIED PHYSICAL EDUCATION - PE0111(2) - Fr., Soph., Jr., Sr. -1 sem., 1/2 cr.- An annual physician's written statement is required. This program is designed to provide physical education for the enrollees based on the specified limitations of each student. Emphasis will be placed on the awareness of one's capabilities and limitations, and the scope of activities in which the student may participate. Those students capable of participating in the regular program will be mainstreamed into appropriate activities.

ONLINE WELLNESS-PE0511(2) - Soph., Jr., Sr. 1/2 Cr.- Students will work with their grade specific curriculum in a Physical Education class that is designed to provide an individualized learning approach toward personal wellness. Students will create a personal fitness plan that focuses on individualized goals and components of fitness and mental wellness. All goals and outcomes are aligned with state and district standards. **Students will meet in person with the teacher the first and last weeks of the semester before school. All other class meetings will be either virtual or through individual student work from home.** A smart watch that has a heart rate monitor is required and will be loaned to students for the semester if needed. All students will gain knowledge of how to recognize, analyze, and evaluate their individualized learning.

ZERO HOUR PHYSICAL EDUCATION - PE1001(2) - Jr., Sr. - 1 sem., 1/2 cr. -

The purpose of this class is to provide a student with opportunities to develop an individual level of fitness, acquire knowledge of physical fitness concepts, and improve personal fitness. This class will include strength training, cardiovascular fitness, speed training, team sports, and leisure sports.

STUDENT LEADER TRAINING PROGRAM - PE0311(2) - Jr., Sr. - 1 sem, 1/2 cr. -

(Recommendation required) In peer tutor physical education, the focus is on team sports with a focus on personal fitness. Junior and senior peer partners will be matched up with a Life Skills Program student and rotate on a unit to unit basis. Peers will be responsible for assisting the student in learning and demonstrating the fundamental skills in each team sport. Units of activity may include: soccer, basketball, volleyball, softball, floor hockey, bowling, dance, and others. Students wishing to take this class should contact their P.E. teacher for a recommendation form.

DANCE ARTS - PE4411(2) - (Co-Ed Elective)- Jr., Sr. - 1 sem., 1/2 cr.- Students will develop the knowledge, understanding and skills of dance as an art form through dance performance. Basic forms of dance, fitness and cardiovascular development are taught for the beginner and advanced learner. Students will learn and develop locomotor & non-locomotor combinations, sequences & choreographed dances.

Semester Themes:

Dance of the Decades- (1900-Present) Flappers, Jitterbug, Swing, Disco, MJ, Boy Bands, HipHop, etc.

Dance Around the Worlds- Philippines, Africa, India, Germany, Italy, Poland, Mexico, Israel, USA

SYTYCD/DWTS- Tap, Ballet, Jazz, Hip Hop, Tango, Cha Cha, Salsa, Merengue, Waltz, Swing

Movies/Musicals & Videos- Hairspray, Thriller, Beat-It, Footloose, High School Musical, K-pop!

BODY SCULPTING - PE3911(2) – Jr., Sr. – 1 sem., 1/2 cr. - This course is a great mixture of Cardio, Strength and Functional Fitness. Using a wide variety of cross training methods you will receive a couple days of cardiovascular conditioning the form of Kickboxing, Hiit Training, Interval Station Work, Tabatas and Speed Ladder / Rope work. This Cardio training will be mixed with Strength and Body Sculpting course work such as Pilates, Yoga, Definition (Free Weights) and Functional Strength Training Core Stability and TRX station work. You will be fit like never before!! Geared toward all fitness levels – modifications will be given to suit the needs of beginning to advanced exercisers.

CIRCUS STUNTS - PE4011(2) - Jr., Sr. – 1 sem., 1/2 cr. - Looking for a unique and creative way to stay healthy and fit – Circus Stunts is the class for you. Using principles of Functional Strength Training and Teambuilding as a building foundation, students will be asked to demonstrate an understanding of basic tumbling and cooperative activities and lifts. Starting with individual work and advancing to group team work, students will be asked to combine stunting skills, rolls, human pyramid building in to a season ending team performance. Students will learn how to juggle, hoola hoop, jump rope, balance on a roller boards and walk on stilts – these are just some of the skills practiced and developed in class. Try something new and talk about it for a lifetime!

SELF DEFENSE – PE3411(2) - Jr., Sr. – 1 sem., 1/2 cr. - This course will provide a terrific introduction to Self Defense strategies, skills and personal safety practices that will work for a lifetime. Many topics are addresses in discussion, lecture and practice. Students will review case studies and discuss current self-defense issues and topics. Strikes, kicks, elbows, knees, grabs/holds, choke defense, distract and attack strategies will be introduced and practiced to elude an attacker. Development of muscle strength, muscular endurance and agility of fast strikes and kicks will be emphasized. Speed work will be developed via agility ladders, boxing, stairs and ropes.

TEAM SPORTS 1 - PE3311 (2) Soph., Jr., Sr. - 1 sem., 1/2 cr. - This class will consist of students who choose to participate and engage in sports at a highly competitive level. This is a semester long course that provides each student with individualized challenges and fitness based lessons through a variety of sports including but not limited to Basketball, Volleyball, Floor Hockey, Flag Football, Softball, Team Handball, Ultimate Frisbee, Strength training activities and Cardiovascular endurance activities.

TEAM SPORTS 2 - PE 4311(2) - Soph., Jr., Sr. - 1 sem., 1/2 cr. - This class will consist of students engaged in a semester long course of physical education. This course will not be as competitive as team sports 1 but it will include team and individual sports. Sports that might be played may include. Basketball, Volleyball, Floor Hockey, Flag Football, Softball, Soccer, Tennis, Team Handball, Badminton, Eclipse Ball, along with weekly use of the fitness center and cardiovascular fitness activities and heart rate monitors.

HEALTH - HE1011(2) - Fr. – 1 sem, 1/2 cr. -

Course Description: Students will focus on the promotion of a healthy lifestyle through knowledge gained in the following units of study: nutrition, disease prevention, emotional health, misuse and abuse of drugs, human sexuality. Other areas of focus may incorporate stress management, death and dying, first air, and CPR/AED training.

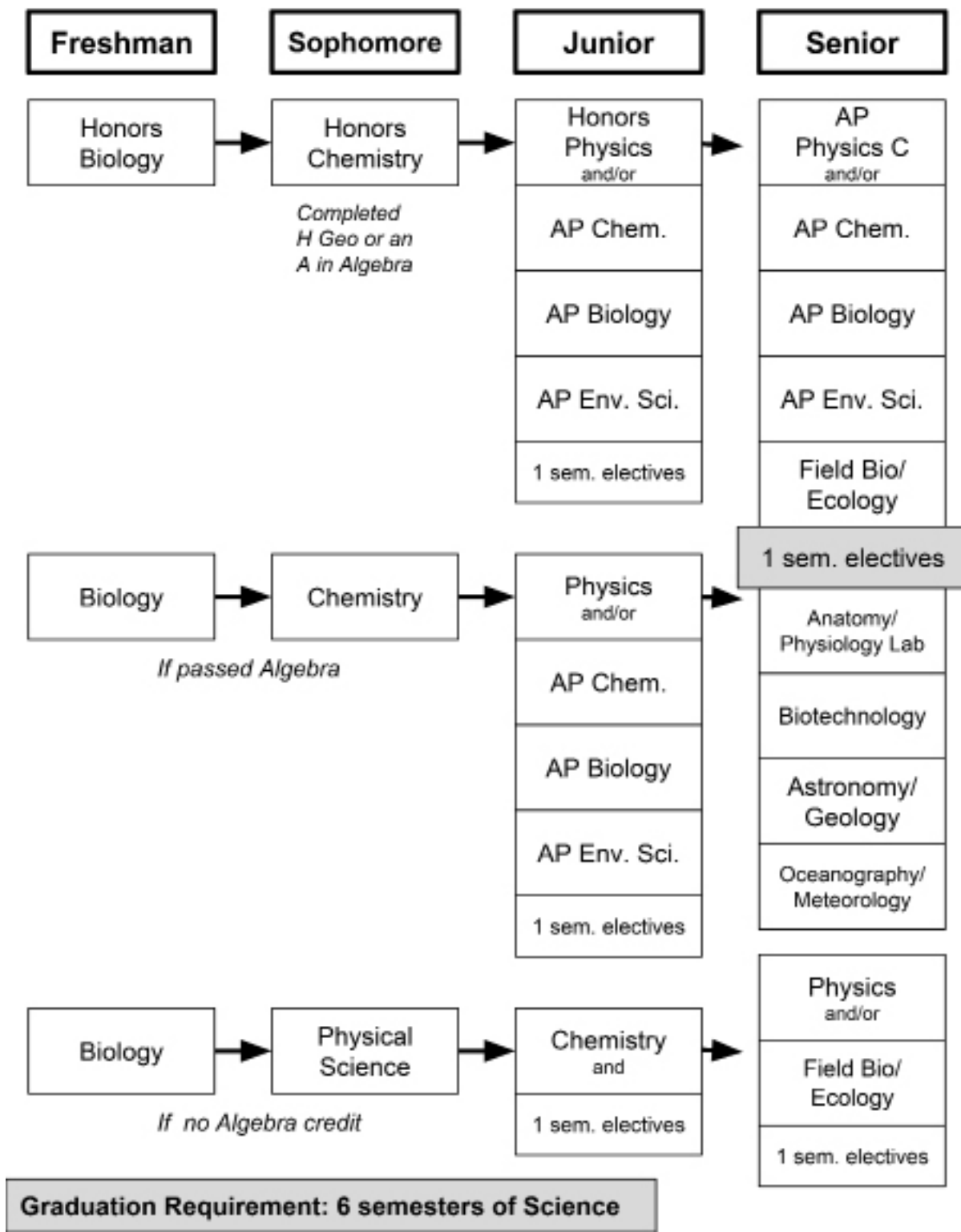
Common Assessment: Students enrolled in Health Education will complete a common district assessment at the end of the semester showing their knowledge and understanding regarding nutrition, disease prevention, emotional health, misuse and abuse of drugs, and human sexuality.

All students shall be permitted to participate in physical education classes that correspond with their gender identity and/or in ways that make them feel safest and most included.

Students may enroll in physical education classes that correspond with their gender identity, physical education classes that correspond with their sex assigned at birth, or physical education classes that are not gender-specific.

The student's Gender Support Coordinators and, if convened, Gender Support Team shall work with the student to determine the student's placement. In this process, they can engage the physical education staff once they have received authorization from the student.

Glenbard North Science Department



SCIENCE

BIOLOGY - SC2011(2) - Fr. - 1 yr., 1 cr. - This course presents an introduction to living organisms, how they function, and how they interact in the biosphere. Included are topics such as: Scientific method, biochemistry, genetics, evolution, cells (structure, division, and energy usage), ecology and exploration of the various kingdoms (including some dissection). Biology is aligned with the Next Generation Science Standards.

BIOLOGY H - SC2021(2) - Fr. - 1 yr., 1 cr. - Placement is based on PSAT 8/9 assessment scores and the recommendation of 8th grade teacher and the Science Department Chairperson. Honors Biology focuses on the major themes of life. Topics of study include cell structure and function, genetics, evolution, biochemistry, ecology and body systems. Laboratory investigations are an integral part of the student experience including animal dissection. Students who have not completed Algebra should complete Algebra in summer school or they may be eligible for Integrated Algebra and Geometry (based on PSAT 8/9 scores).

PHYSICAL SCIENCE - SC1111(2) - Soph., Jr. - 1 yr., 1 cr. - Prerequisite: Biology. Physical Science is a lab-based course which provides comprehensive practice and assessment of science skills. While using the scientific method, emphasis is placed on problem-solving, measuring, analyzing data and higher-order thinking skills such as inferring, questioning, designing experiments and drawing conclusions. Students will learn the fundamentals of matter, including chemical and physical properties, phases of matter, and types of matter. Students will have a basic understanding of forces, motion, electricity and magnetism. Studies will also include Earth and Space science.

CHEMISTRY - SC3311(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Algebra and 1 year of Biology. Chemistry is a course that deals specifically with the nature of matter. Through lecture, laboratory activities and demonstrations, students will improve their ability to observe accurately, organize information effectively, become adept at making valid conclusions, and improve their problem-solving skills. Special emphasis is placed on quantitative problem solving. Topics include: (1) atomic theory and structure, (2) the properties of matter and how matter changes, (3) thermodynamics and equilibrium, (4) acid-base chemistry, and (5) reaction kinetics. This is a lab-based course that is aligned with Next Generation Science Standards.

CHEMISTRY HONORS - SC3021(2) - Fr., Soph. - 1 yr., 1 cr. - Prerequisite: Geometry, or (an A in Algebra) Biology or Biology H. This course deals specifically with the nature of matter and the type of changes that matter can undergo. Topics covered will include atomic theory, thermodynamics, equilibrium, kinetics, acid-base, electrochemistry, and periodic properties. Chemistry Honors has a strong laboratory component designed to supplement each topic. Completion of this course prepares students to take AP Chemistry. This course is designed for college-bound students who are interested in medical, science or math careers.

PHYSICS - SC4011(2) - Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Chemistry and concurrently taking Algebra 2 with Trigonometry or higher. This course presents the subject not as a body of facts, but rather as a continuing process by which we seek to understand the nature of the physical universe. Emphasis is placed on logical and mathematical analysis of theoretical and experimental situations. The concepts of physics are investigated and discovered in the laboratory followed by problem solving and graphical analysis. Among the topics studied are: measurement, motion, energy, Newton's Laws, light, waves, sound, electricity and magnetism.

PHYSICS H - SC4021(2) - Jr. - 1 yr., 1 cr. - Prerequisite: Chemistry or Chemistry Honors, concurrent with Pre-Calculus Honors, Pre-Calculus or higher. This course is a laboratory oriented course designed to give the student an overview of various areas of the physical universe. The laboratory experience is designed to permit the student to inquire into the nature of physical law, a process which is transferable to any discipline. The student then applies these physical principles to in depth problem solving. Topics covered in this course include kinematics mechanics, light waves, electricity and magnetism, and atomic structure. This course is intended as an honors course for juniors and seniors.

ANATOMY AND PHYSIOLOGY - SC4313 - Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Biology. This science semester course introduces students to the fundamental concepts of human anatomy and the inner workings of the body. An understanding of key concepts about the body, rather than rote memorization, is emphasized. The book, CD-ROM, web sites, labs and the cat dissection, provide students an opportunity to explore the fascinating world of human structure and function.

BIOTECHNOLOGY - SC4813 - Jr., Sr. - sem., 1/2 cr. - Prerequisite: Biology, Chemistry or Chemistry H (may be taken concurrently). This science semester course is a comprehensive class that introduces high school students to various biotechnology concepts. The ability to use and understand advanced laboratory equipment, new science concepts and career exploration will be emphasized throughout the semester. Some of the topics covered include: DNA Science (Forensics), Microbiology, Pharmaceuticals, Genetic Disorders, Diseases and Cancer Research.

FIELD BIOLOGY & ECOLOGY - SC4111(2) - Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Biology. Ecology is the study of the relationships among plants, animals and their environment. In this course, the student will study ecological concepts (communities, food webs, succession, etc.) and man's relationship to the environment. Students will learn to identify the common vertebrates and invertebrates of the DuPage County area. Several field trips will allow the student to study first hand pond, stream, forest and prairie ecosystems. The skills necessary for the collection, analysis and the reporting of data are emphasized.

GEOLOGY AND ASTRONOMY - SC4613 - Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: One full year of science and an algebra equivalent course. This semester long lab-based course will introduce students to the study of nonliving earth systems, including plate tectonics, rocks and minerals and field geology, as well as the study of the universe. The astronomy segment will introduce students to astronomy within our solar system, as well as deep space astronomy. Geology and Astronomy pairs with Oceanography and Meteorology to form a yearlong earth science course.

OCEANOGRAPHY/METEOROLOGY - SC4713 - Jr., Sr. - 1 sem - 1/2 cr. -

Prerequisite: One full year of science and an algebra equivalent course. This course focuses on the science behind the ocean, weather, and the connections between these two areas of science. Students will study the atmosphere and its effects on our weather, understand how to read and interpret weather data, and connect the physical and chemical properties of water to our weather and life on Earth. Oceanography and Meteorology pairs with Geology and Astronomy to form a yearlong earth science course.

AP BIOLOGY - SC5131(2) - Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Biology/Biology H and Chemistry/Chemistry H (Concurrent with Chemistry H by DC approval). This course is a college-level approach to biology, building on the understanding of biology gained in Biology or Honors Biology. The class is designed to emphasize problem solving and inductive and deductive thinking in a laboratory setting. Students will do lab work in metabolism respiration, photosynthesis, taxonomy, comparative anatomy, morphology, ecology, and evolution. Students completing the course are expected to take the AP Biology examination which may result in the awarding of college credit and/or advanced placement in biological sciences at the undergraduate level.

AP ENVIRONMENTAL SCIENCE - SC5141(2) - Soph., Jr., Sr. - 1 yr., 1 cr.-

Prerequisite: Biology/Biology H and current enrollment in Chemistry (or higher). This is a course that will provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is multidisciplinary: it embraces diverse topics such as energy conversion, biogeochemical systems, and the development and management of sustainable systems. Field work, data analysis, and a laboratory component, complement the readings and discussions in class. Students in AP Environmental Science are expected to take the AP exam in May.

AP CHEMISTRY - SC5031(2) - Jr., Sr. - 1 yr., 1 cr. - Chemistry/Chemistry H and Algebra 2 with Trigonometry. Physics/Physics H is usually taken concurrently. This is an enrichment course building on concepts gained in the first year of Chemistry. In addition, the course follows those objectives outlined in the standardized AP curriculum and, therefore, approximates college level general chemistry. Laboratory experiences are emphasized in exploring topics, which include analytical chemistry, kinetics, thermodynamics, oxidation-reduction, chemical equilibrium, and acid-base chemistry. Advanced concepts in chemical bonding, atomic theory, and introductory organic chemistry are also covered. Successful completion of this course will qualify the student to take the AP examination which can result in the awarding of college credit and/or advanced placement at the undergraduate level. Students in AP Chemistry are expected to take the AP exam in May.

AP PHYSICS C MECHANICS ONLY - SC5231(2) - Sr. - 1 yr., 1 cr. - Prerequisite: Prerequisite: Physics or Physics H, Calculus (can be taken concurrently), Noncalculus students may enroll with permission of Department/Instructor. - This course follows the advanced placement level C syllabus, the university-level general physics course taken by math, science and engineering majors. Emphasis is placed on problem-solving in mechanics. Laboratory work involves in-depth experiments in the above mentioned area. Depending on time constraints, successful completion of this course should qualify the student to take the AP examination which can result in the awarding of college credit and/or advanced placement at the undergraduate level. Students in AP Physics C are expected to take the AP exam in May.

Core Coursework

Year	Regular	Honors/AP **
9	World History	World History Honors**
10	U.S. Government & Politics (sem) Contemporary World History (sem)	AP European History AP Human Geography
11	U.S. History American Studies	AP U.S. History
11/12	<u>Electives</u> American Law 1 (sem) Latin American History (sem) Sociology (sem) Psychology 1 (sem) Psychology 2 (sem) Economics (sem)*	<u>Electives</u> AP U.S. Government and Politics (sem) AP Psychology AP Macroeconomics (sem) * Humanities Honors*** AP Human Geography**** AP European History AP Seminar *****

Sem These are semester courses.

* Both Economics and AP Macroeconomics satisfy the consumer education graduation requirement.

** A student's placement in World History Honors is based on the PSAT 8/9 score as well as the recommendation of the 8th grade teacher. Students requesting a level change from regular to honors must receive the approval of the Social Studies Department Chairperson.

*** In order to be accepted into the Humanities course, students must complete an application.

**** AP Human Geography is listed as a sophomore level course, but it is also recommended for juniors and seniors who are interested in taking their first AP course or are interested in the course topics.

***** AP Seminar qualifies for elective credit; not Social Studies credit.

SOCIAL STUDIES

All students are required to earn three credits in Social Studies for graduation. It is strongly recommended that courses in the global studies be taken by freshmen and sophomores. The following courses are included in the global studies program: World History, World History Honors, Contemporary World History, AP Human Geography and AP European History. Students are also required to take a semester course in government in order to graduate; students may take U.S. Government and Politics (during their sophomore year) or AP U.S. Government and Politics (during their junior or senior year) to satisfy this requirement. U.S. History is a required course for juniors. Students may also take Economics or AP Macro Economics to satisfy the Consumer Education requirement for graduation. Finally, Social Studies also offers students an opportunity to explore various disciplines in the Social Sciences by selecting from a variety of elective courses. The Illinois Board of Higher Education suggests that high school students take six semesters of social studies for admission to most Illinois public universities.

FRESHMAN COURSE OPTIONS

WORLD HISTORY - SS1211(2) - Fr. - 1 yr., 1 cr. - World History studies the diverse cultures of the world as well as significant events from the first civilizations to the modern age so that students may better appreciate the story of humankind. By analyzing the contributions of past civilizations and investigating key periods in history, students can better understand the modern world. The course utilizes many primary and secondary sources to develop a global perspective and to foster growth in reading, writing, critical thinking, and geography skills. This course fulfills District 87's global studies recommendation.

WORLD HISTORY HONORS - SS1221(2) - Fr. - 1 yr., 1 cr. - Prerequisite: Placement is based on PSAT 8/9 scores and the recommendation of 8th grade teacher and the Social Studies Department Chairperson. World History Honors chronicles human development from the earliest civilizations through the major conflicts of the first half of the 20th Century. By analyzing the political, economic, and social institutions of Western and non-Western societies as well as key historical events, students will better appreciate the diversity and development of the modern world. Using both primary and secondary sources, students will be challenged to develop their critical and creative thinking skills as well as their research, reading, and writing skills. This course goes into greater depth, moves at a faster pace, and presents students with more challenging reading and writing assignments. World History Honors will provide students with the necessary skills and knowledge to pursue AP/honors level courses in Social Studies. This course fulfills District 87's global studies recommendation.

SOPHOMORE COURSE OPTIONS

UNITED STATES GOVERNMENT AND POLITICS - SS4314 - Soph., Jr., Sr. - 1 sem., 1/2 cr. - Students in U.S. Government and Politics will begin their study by examining classical political philosophies and explore the practical operations of government at the local, state, and national levels. Students will be encouraged to think critically about the role of individual citizens in the political process and are expected to engage in activities which involve active citizenship both in and outside of the classroom. **State of Illinois and Glenbard District 87 Requirement: Successful completion of this course fulfills the civics requirement for graduation. State Requirement: By passing the U.S. Government course, students will also satisfy the state requirement of passing an examination on the U.S. and Illinois Constitutions exam which is required for graduation.**

CONTEMPORARY WORLD HISTORY - SS2011(2) Soph. – 1 sem., 1/2 cr. - Contemporary World History focuses on the modern world by investigating significant political, economic, and social developments since 1945. Students will explore the Cold War and the collapse of the Soviet Union, the rise of modern China, conflicts in the Middle East, and issues facing sub-Saharan African countries. By studying the world since 1945, students develop a historical perspective while analyzing current trends in today's world systems including global interdependence, terrorism, nuclear diplomacy, and human rights concerns. Students will use a variety of current events sources to further develop the reading, writing, and critical thinking skills introduced in their freshman World History course. This course fulfills District 87's global studies recommendation.

AP HUMAN GEOGRAPHY - SS5331(2) - Soph., Jr., Sr. - 1 yr, 1 cr. - AP Human Geography studies human behavior across the Earth. Its purpose is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Major units of study include population, migration, culture, religion, ethnicity, agriculture, and urban patterns. This course prepares students for the AP exam in May. Students are expected to take this exam. This course fulfills District 87's global studies recommendation. **While this course is listed as a sophomore level course, APHG is also recommended for juniors and seniors who are looking to take their first AP course and are interested in the course topics.**

AP EUROPEAN HISTORY- SS5031(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - The AP European History course focuses on developing students' understanding of European history from approximately 1450 to the present. The course has students investigate the content of European history for significant events, individuals, developments, and processes in four historical periods. Students in the course will also explore European history in the context of five themes (interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; and individual and society) so that students can make connections among historical developments in different times and places. Furthermore, students will develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning and argumentation) employed by historians when they study the past. Overall, by understanding some of the principle themes in modern Western history and by analyzing historical evidence and interpretation, students will be asked to express their historical understanding through writing. This course prepares students for the AP exam in May; students are strongly encouraged to take this exam. This course fulfills district 87's Global Studies recommendation.

JUNIOR COURSE OPTIONS

U.S. HISTORY - SS3011(2) - Jr. - 1 yr., 1 cr. - U.S. History is a survey course covering the history of the United States from the Colonial Period through the 20th Century. By examining the political, social, and economic foundations, students will better understand the current developments that affect their lives. Students will expand their reading, writing, speaking, and critical thinking skills as they analyze primary and secondary historical materials and evaluate the ideals upon which the United States was built. **Successful completion of this course fulfills the U.S. History graduation requirement.**

AMERICAN STUDIES - SS3111(2) - Jr. - 1 yr., 1 cr. - American Studies is an interdisciplinary, team-taught course which meets for a double period; students can earn credits for English 3 and U.S. History. American Studies explores the relationship between history and literature, providing a unique experience in the culture and history of the United States. The course will emphasize the use of primary source documents including art, music, and literature. American Studies is a project-based course that encourages students' creativity and responsibility for their own learning. Students will take several field trips in order to enhance their experience. Successful completion of this course fulfills the U.S. History graduation requirement.

AP U.S. HISTORY - SS5131(2) - Jr. - 1 yr., 1 cr. - The AP U.S. History course covers U.S. history from 1491 to the present and focuses on seven themes which include American and National Identity; Migration and Settlement; Politics and Power; Work, Exchange, and Technology; America in the World; Geography and the Environment; and Culture and Society. Students in APUSH will also develop historical thinking skills which include chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative. These skills will allow students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. This course prepares students for the AP exam in May; students are strongly encouraged to take this exam. **Summer reading is required for this course. Successful completion of this course fulfills the U.S. History requirement for graduation.**

ELECTIVE COURSE OPTIONS

LATIN AMERICAN HISTORY - SS3213 - Jr., Sr. - 1 sem., 1/2 cr. - Latin American History is a semester elective course that explores the Latin American experience from the pre-colonial period to contemporary 21st Century America. Students will explore Latin America's rich diversity that includes Mesoamerica, South America and the Caribbean. This exploration includes a cultural and historical perspective to better understand the experiences and processes that have shaped the region. Students will reflect on identity, independence movements, revolutions, Latin America's role in the world, and immigration issues based on analysis of primary sources such as films, music, literature, art and historical documents along with secondary sources. Students will discuss the multiple and changing identities of Latinos in America and analyze key events in 20th century Latin American to understand the context of the region in the world.

AMERICAN LAW - SS4613 - Jr., Sr. - 1 sem., 1/2 cr. - This course emphasizes the effects of the legal system on contemporary society and how the legal system functions at the federal, state, and local levels. Students will explore Supreme Court cases and examine criminal and civil law, search and seizure, and criminal procedure. This course includes hands-on activities to investigate various roles in the legal system. At the end of the semester (time permitting) a current and topical issue is individually researched and reported on by students. Students may have opportunities to meet, question and discuss legal issues with lawyers, judges and law enforcement officers. Individual judgements are respected, and classroom debate is encouraged. The development of skills in critical thinking and writing will be developed. **This course is only offered at Glenbard North and South.**

AP UNITED STATES GOVERNMENT AND POLITICS - SS5033 - Jr., Sr. - 1 sem., 1/2 cr. - Students develop a critical perspective on politics and government in the United States. They study general concepts used to interpret American politics, and they examine various institutions, groups, beliefs, and ideas which make up the American political reality. Students focus on the philosophical basis for the Constitution, citizens' political beliefs and behavior, political parties and interest group, the institutions and processes of national government, and civil rights and civil liberties. This course prepares students for the AP exam in May. Students are strongly encouraged to take this exam. **State of Illinois and Glenbard District 87 Requirement: Successful completion of this course fulfills the civics requirement for graduation. State Requirement: By passing the U.S. Government course, students will also satisfy the state requirement of passing an examination on the U.S. and Illinois Constitutions exam which is required for graduation.**

SOCIOLOGY - SS4113 - Jr., Sr. - 1 sem., 1/2 cr. - Sociology is the study of people in groups. Students will learn the structure, function, and behavior of human society. Special emphasis is placed on the interaction between society and its members and how the individual is affected by society. Topics include social institutions, gender issues, marriage and the family, adolescence, the adult world, mass media, and deviance, discrimination and inequality. Students will design and conduct a social research project.

ECONOMICS - SS4213 - Jr., Sr. - 1 sem., 1/2 cr. - This course introduces students to fundamental economic concepts, the basic principles of capitalism, and personal finance. Students study supply and demand, stocks and bonds, mutual funds, interest rates and banking, unions and labor, taxes, monetary and fiscal policy, and international trade. Students will learn how to create a monthly budget and how to effectively build an investment portfolio. They also gain an overview of how our society and government make decisions which affect the future of our nation. **This course satisfies the consumer education requirement.**

AP MACROECONOMICS - SS5433 - Jr., Sr. - 1 sem., 1/2 cr. - The purpose of this course is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Concepts such as supply and demand, unemployment, inflation, gross domestic product are understood in light of fiscal policy, monetary policy, and foreign exchange rates by exploring the role of the Federal Reserve Bank. Students engage in decision making processes to create an environment where high employment, stable prices and a higher standard of living are achievable. This course prepares students for the AP exam in May. Students are expected to take this exam. **This course also satisfies the consumer education requirement.**

PSYCHOLOGY 1 - SS4013 - Jr., Sr. - 1 sem., 1/2 cr. - Psychology is the study of human behavior and mental processes. Students investigate the scientific explanation for the “how” and “why” of behavior, particularly of their own behaviors. Topics studied include learning process, emotional development, the physiology of brain and body development, learning and memory, personality, sensation, perception, psychological disorders, and other factors which affect individual human development.

PSYCHOLOGY 2 - SS4012 - Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Successful completion of Psychology 1. This course is a continued examination of human behavior and mental processes. The course will enable students to view behavior more objectively by studying additional topics and principles in psychology. Topics include altered states of consciousness, human development, stress and conflict, and abnormal psychology. This course also uses many hands on activities to enhance one’s understanding of explored topics. **This course is only offered at Glenbard North.**

AP PSYCHOLOGY - SS5231(2) - Jr., Sr. - 1 yr., 1 cr. - AP Psychology is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the basic concepts and principles of psychology such as sensation and perception, human development, learning and cognition, as well as personality, social, psychological disorders. They also explore the history of psychology as well as ethics and research techniques. This course prepares students for the AP exam in May. Students are expected to take this exam.

HUMANITIES HONORS - SS4021(2) - Sr. - 1 yr., 1 cr. - Humanities is the study of the art, literature, music, history, philosophy and religions of both Eastern and Western civilizations from ancient civilization to modern society. Students will be led to investigate, question, and discuss past human achievements as illuminations of the present. Field trips to cultural events will be essential parts of the curriculum, along with independent study projects. Students pay a portion of the field trip costs. The course is designed to give students a broad cultural background before they begin to specialize in college level work, and to give students the opportunity to develop reasoning skills and to practice independent thinking. This is a college preparatory course which offers honors Social Studies credit. **Students must complete an application in order to be accepted into the course.**

AP SEMINAR - SS4023 - Jr., Sr. - 1 elective cr. - AP Seminar will empower students to think critically about contemporary societal issues. In previous years, these issues have included: wealth and poverty, education, race, and the role of the government. While exploring these various topics, students will develop inquiry and research skills through reading, writing, reasoning, and collaboration. These inquiry skills will be exercised when completing a team project, an individual project, and the AP exam. For the team and individual research projects, students have the opportunity to select areas for research that they are passionate about. While this course is open to seniors, AP Seminar is part of a two-year AP Capstone program which includes AP Research, the senior component that counts for English credit. (The course description for AP Research is listed in the English section.) Juniors who successfully complete AP Seminar have the opportunity to continue in AP Research. By joining the AP Capstone program, students have the privilege of listing their pursuit of the AP Capstone Diploma on their common application for college under the "Honors and Distinctions" section. Additionally, they have the opportunity to earn college credit for both AP Seminar and AP Research.

SPECIAL EDUCATION

The Special Education Department offers a broad spectrum of support and services for students with identified disabilities who qualify for services under the guidelines of IDEA. The appropriate supports and services are outlined in the Individualized Education Plan (IEP). Placement in Special Education courses is only made through the recommendation of the IEP team.

SPEECH ARTS

Required courses: All Glenbard students are required to satisfy the “Speech” requirement for graduation. This Speech requirement may come from any of the following courses: Acting, Forensics, Theatre or Speech. It is strongly recommended that this requirement be met as soon as possible, as the skills you will learn will help you in other classes and in life. A percentage of the grade in all courses is made up of performance activities. Students who are truly interested in becoming involved in the Speech Arts Department program are encouraged to take on Stagecraft or Acting as a freshman. Acting serves as a great introduction and leads in to many of the other courses in the Speech Arts Department listed below. Acting can also be repeated as many times as the student wishes during their high school career and at any time.

THEATRE

THEATRE - SP1023 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Develop the skills of an effective communicator through the art of theatre. You will learn about many aspects of the theatre world as you develop your performance skills through games and presentations. You will become more confident with your skills while you improve in various types of performances: improvisation, pantomime, playwriting, monologue and scene work. Most performance projects are collaborative in nature.

ACTING - SP2213 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Sharpening the actor’s ability to use his/her tools - body, voice and imagination - is the chief goal of this course. Every semester will focus on a different dramatic style, genre, or period of theatre history. Activities focusing on acting, play-writing, and production skills will help to build the theatre artist’s portfolio and resume. Some work in improvisation supplements the scene and monologue work. This course may be repeated each year, each semester for additional credit, as each semester, a different acting style will be explored.

ACTING AND DIRECTING 1 - SP3011 - Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Passing grade in Acting or Department Chair/Instructor approval. Upper classmen who have had success and enjoyment in the Acting class can elect to take this course. Refine and sharpen skills in acting and directing to an even higher degree. Learn about college theatre programs. Explore employment opportunities in professional theatre. This course is offered first semester. This course is repeatable.

ACTING AND DIRECTING 2 - SP3012 - Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Passing grade in Acting. Higher levels of acting skills will be developed and the opportunity to direct scenes will be available. This course is offered second semester. This course is repeatable.

STAGECRAFT - SP2113 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Scene design, construction and painting are areas you will get to experience when you take Stagecraft, as well as lighting, sound effects, property construction and special effects. Find out how these parts come together as you work on the current theatre productions. This course is repeatable.

DESIGN FOR THEATRE - SP2613 - Soph., Jr., Sr. - Students may choose to explore an overview of the design elements of the theatre or the student may take this course as an independent study of specialized interest through the functions and responsibilities of the various areas of theatrical design - scenery, lighting, sound, stage management, props, publicity or costumes. Emphasis is on the effective use of line, color, light and space in designing a concept that is both functional and artistic. This course is repeatable.

PUBLIC SPEAKING

SPEECH - SP1013 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - A variety of useful and interesting speech activities will be included. You will learn how to present yourself confidently before an audience and how to organize your thoughts through effective speech - writing techniques, research, as well as how to be poised and dynamic. Learn about words and body language, how to listen and evaluate what you hear and other daily communication needs, including how to effectively communicate in group settings requiring teamwork.

FORENSICS (Speech) - SP2313 - Soph., Jr., Sr. - 1 sem, 1/2 cr. - Students learn techniques to perform short stories, poetry, news, plays and speeches and practice each different style following the rules and techniques of competitive speech team activities. Many performances require memorization. In order to pass this course, students are required to participate in at least two speech competitions for every semester they are enrolled. This course is repeatable.

BROADCASTING

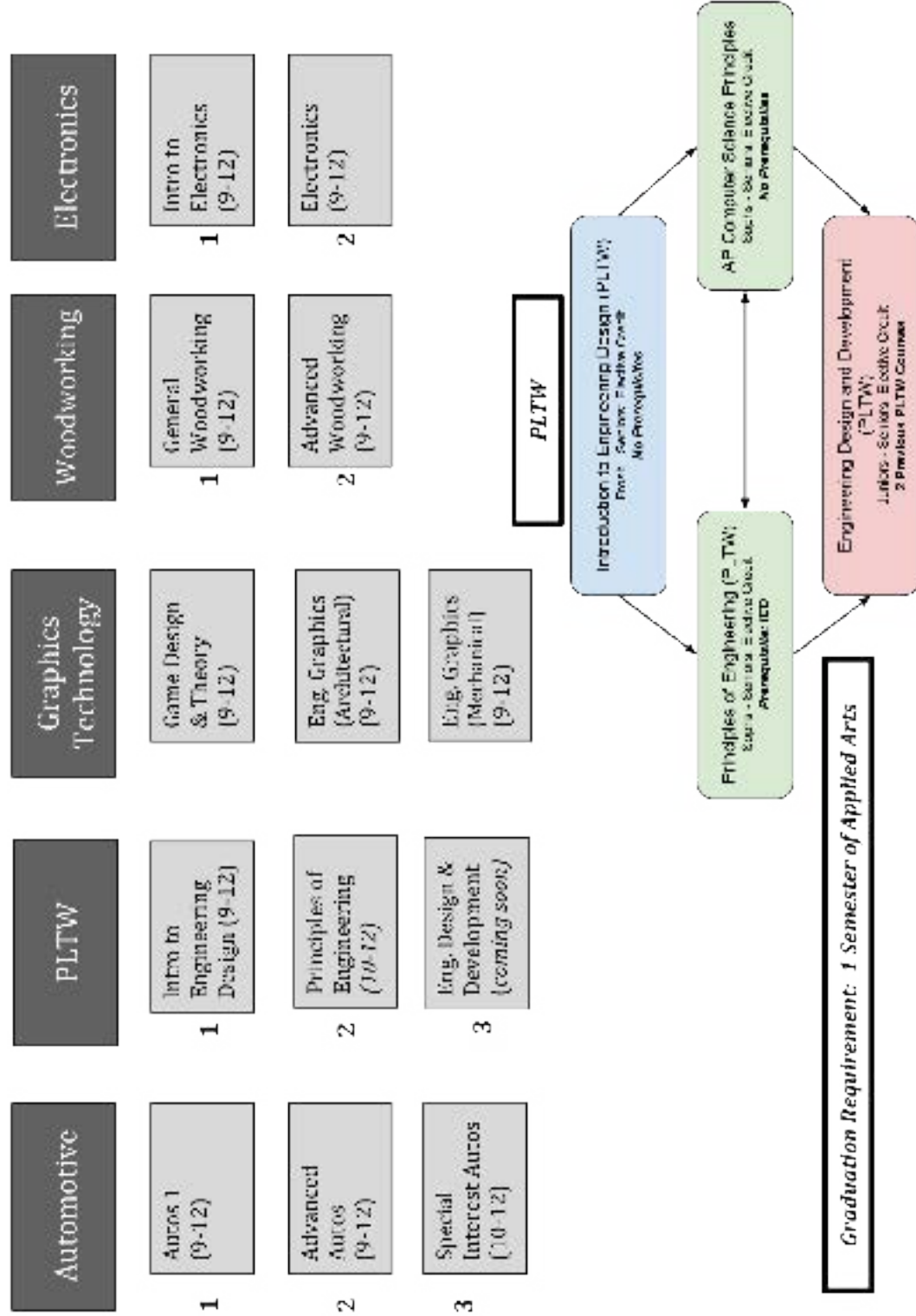
VIDEO PRODUCTION 1 - SP2413 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Students will produce their own video projects as they study videos' impact on modern society. Students will explore the functions of broadcast personnel and work with many types of equipment. Understanding video as a popular medium of entertainment, education, and advertising is a particular focus of the class. This course is repeatable.

VIDEO PRODUCTION 2-SP2713-Fr., Soph., Jr., Sr.- 1 sem., 1/2 cr.- This course is for students who have already participated in Video Production 1 or have substantial knowledge and experience in filmmaking. We will explore more advanced cinematic techniques regarding cinematography, film direction, lighting, sound, and editing. This course will have access to more advanced filmmaking equipment and raise the level of production value for their work. Each student will explore their own particular style and filmmaking techniques. These students will also be presented with film opportunities for filming outside of class. This course is repeatable.

FILM STUDY-SP2513- Soph., Jr., Sr.- 1 sem., 1/2 cr.- Prerequisite: Speech, Theatre Forensics, or Acting. A recent major motion picture had its audience sit looking at a blank screen for one hour of its two hour run time. Which one was it? Find out by taking Film Study. Explore the medium of motion pictures from its historic, scientific, and artistic aspects. Watch numerous films ranging from classic silents starring Charlie Chaplin to modern epics as well. Other genres include horror, animation, comedy, and much more! You will develop a greater appreciation of film as an art form. This course is repeatable.

TECHNOLOGY AND ENGINEERING

Technology & Engineering Courses



PROJECT LEAD THE WAY (PLTW)

INTRODUCTION TO ENGINEERING DESIGN (PLTW) - IT1511(2) - Fr., Soph., Jr., Sr., - 1 yr., 1 cr. - Prerequisite: Students should be comfortable with Algebra. Introduction to Engineering Design (IED) is a high school level foundation course in the PLTW Engineering Program. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

PRINCIPLES OF ENGINEERING (PLTW) – IT1611(2)– Soph., Jr., Sr. – 1 yr., 1 cr. Prerequisite: IED. Principles of Engineering (POE) is a foundation course of the high school PLTW engineering pathway. This course exposes students to some of the major concepts they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Students have the opportunity to develop skills and understanding through activity-, project- and problem-based learning. By solving rigorous and relevant design problems using engineering and science concepts within a collaborative learning environment, students will hone their interpersonal skills, creative abilities, and problem solving skills.

ENGINEERING DESIGN AND DEVELOPMENT (PLTW)– IT1711(2)– Jr. Sr. – 2 sem, 1 cr. Pre-requisite: IED; POE or AP Comp Sci or Department Approval. Coming soon.

AUTOMOTIVE

AUTOS 1 - IT2013 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - This is a consumer oriented course with the emphasis on auto preventive maintenance and minor repairs. It is appropriate for any student who will drive a car in the future and those who have a related career goal or interest. This is a lab course which provides hands-on activities. Topics studied include engines, tire and routine vehicle maintenance, insurance and legal issues are also included. Students are NOT required to bring a car to class.

ADVANCED AUTOS - IT2113 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Autos 1. In this course, students are introduced to modern diagnostics, operation and maintenance of automobiles. Units cover the major car systems: cooling, lubrication, fuel, brakes and small engine rebuilding. Engine Theory and brake operation are emphasized. Career opportunities and consumer information are also provided. This is a lab-based course with hands-on activities. Students are NOT required to bring a car to class.

SPECIAL INTEREST AUTO – IT2213 – Soph., Jr., Sr. – 1/2 cr. Pre-requisite: Advanced Autos. This course expands upon the theory and skills learned in Advanced Automotive. Special emphasis is on troubleshooting and advanced service techniques including computer diagnosis, electrical and electronic systems and fuel management. The majority of class time is spent in lab activities. Students are NOT required to bring a car to class.

ELECTRONICS

INTRODUCTION TO ELECTRONICS - IT1213 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. Electronics drives all “high technology” and this course gives students a well-rounded background in the field of electronics. This course will be meaningful for all students but especially those planning a career in Physics, Engineering, Computer Science or any other technical field. This is a lab-based course focused on lab activities. Students will study basic electricity, electronic components, test equipment and complex electronic circuits. Students will utilize computers and other test equipment to design, trouble-shoot and test lab projects.

ELECTRONICS - IT2813 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: Introduction to Electronics. This course explores alternating current electronics with text, lab, and project building experiences. Active A.C. components are studied, including: inductors, capacitors, transistors, and amplifiers. Additional study is provided in Solid State Electronics, which examines the operation of basic semiconductor devices in a circuit. Applications to digital logic are emphasized through laboratory experiments and project construction. Adders, half adders, flip-flops, and other computer components are studied. This course is ideal for those looking for careers in Electrical Engineering and Computer Science.

GRAPHICS TECHNOLOGY

GAME DESIGN & THEORY - IT2913 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. -

Prerequisite: C or better in Algebra. This course is designed for students who have an interest in game element development. The focus will be on gaming design concepts, such as beginner skills and techniques needed for character, scenery, and action development as well as information pertaining to collegiate options. Learn to use the most popular game design software. Students will gain an understanding about real-time 3D graphics programming.

ENGINEERING GRAPHICS 1 (MECHANICAL) – IT2313 – Fr., Soph., Jr. Sr. – 1/2 cr. This course introduces students to the use of computers in engineering, drawing and designing. During this course, students will gain an introductory skill level in using computer-aided design (CAD) software through hands-on experience. This course should be included in the four-year plan of students who are interested in being an engineer, architect, drafter, technician or tool and die makers.

ENGINEERING GRAPHICS 2 (ARCHITECTURAL) - IT2413 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - This course will focus on using Building Information Modeling (BIM) to design and create architectural drawings. This course should be included in the four-year plan of students who are interested in being an engineer, architect, drafter, technician or tool and die makers.

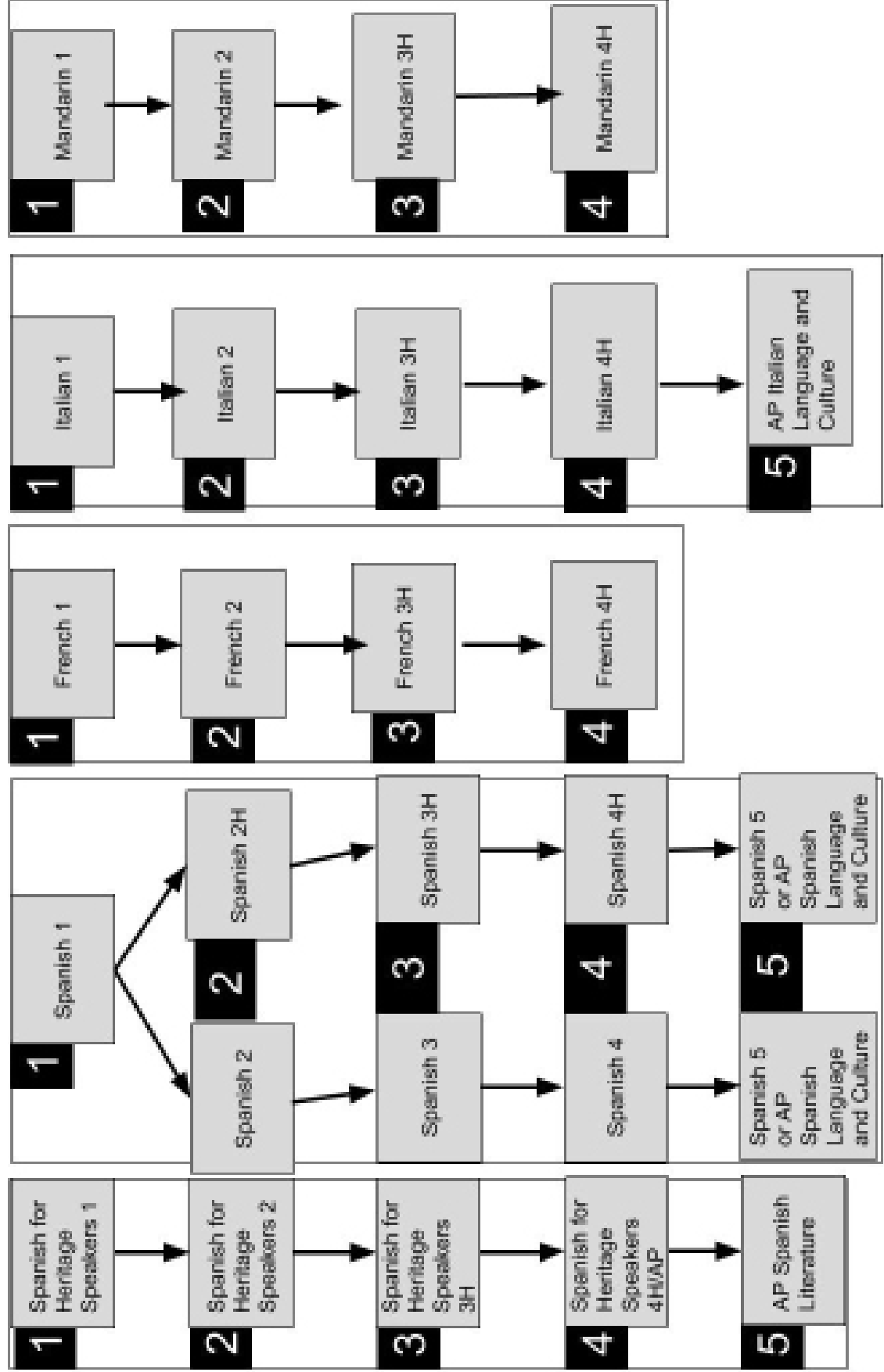
WOODWORKING

GENERAL WOODWORKING - IT1113 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - This course is appropriate for any student who enjoys working with wood or has a career goal related to construction, carpentry or manufacturing. Students will learn the safe operation of many power tools and use them to construct well designed projects, simulating industry. This course is required for entrance into the Technology Center of DuPage Building and Machining programs.

ADVANCED WOODWORKING - IT2513 - Fr., Soph., Jr., Sr. - 1 sem., 1/2 cr. - Prerequisite: General Woodworking. Students will work on advanced woodworking projects through safe use of tools and equipment. Review of safety principles and practices is an essential transition into planning layouts, blue print reading, drafting, the properties of various woods, jointing and fitting methods and applications, properties of glues and their applications, and the proper use of hand and power tools. Experiences in cutting, shaping, fitting, assembling and finishing wood products are carried through to installing hardware, such as hinges, catches and drawer pulls to include all steps of productions. Students who enroll for the second semester will be working on different projects than semester 1. This course can be repeated and earn additional credit.

WORLD LANGUAGES

World Languages Curriculum



WORLD LANGUAGES

*The World Languages Department highly recommends that every college bound student begin or continue world language study in his/her freshman year. Many benefits can be derived from a four year sequence. Research has shown that each additional year of language study (3rd, 4th and 5th year) enhances ACT/SAT scores. Students entering the work force immediately after high school can also benefit from world language study. **Before advancing to the next level, however, it is strongly recommended that a student earn a C or better in the language course.***

FRENCH 1 - FL1011(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - This course is designed for students without prior exposure to the French language. This introductory course begins to explore the French language and culture through a variety of authentic resources. Students achieve novice proficiency in listening, speaking, reading, and writing. The teacher and the students are expected to speak French.

FRENCH 2 - FL2011(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: French 1. This course builds on the communicative skills developed in French 1. It continues to explore French language structures and culture using more advanced authentic resources. Students achieve intermediate-low proficiency in listening, speaking, reading, and writing. The teacher and the students are expected to speak French.

FRENCH 3H - FL3021(2) - Jr., Sr. - 1 yr., 1 cr. - Prerequisite: French 2. This course applies the skills developed in French 1 and 2. It explores advanced French language structures and culture in depth. Students achieve intermediate-mid proficiency in listening, speaking, reading, and writing. This class is conducted entirely in French.

FRENCH 4H - FL4021(2) - Jr., Sr. - 1 yr., 1 cr. - Prerequisite: French 3H. In this course students will expand their knowledge through a variety of media and cultural units utilizing authentic resources. Students will achieve intermediate-high proficiency in listening, speaking, reading, and writing. This class is conducted entirely in French. This course precedes AP French Language and Culture.

ITALIAN 1 - FL1511(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - This course is designed for students without prior exposure to the Italian language. This introductory course begins to explore the Italian language and culture through a variety of authentic resources. Students achieve novice proficiency in listening, speaking, reading, and writing. The teacher and the students are expected to speak Italian.

ITALIAN 2 - FL2511(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Italian 1. This course builds on the communicative skills developed in Italian 1. It continues to explore Italian language structures and culture using more advanced authentic resources. Students achieve intermediate-low proficiency in listening, speaking, reading, and writing. The teacher and the students are expected to speak Italian.

ITALIAN 3H - FL3521(2) - Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Italian 2. This course applies the skills developed in Italian 1 and 2. It explores advanced Italian language structures and culture in depth. Students achieve intermediate-mid proficiency in listening, speaking, reading, and writing. This class is conducted entirely in Italian.

ITALIAN 4H- FL4521(2) -Jr., Sr.-1 yr. 1 cr. Prerequisite: Italian 3H. This course applies the skills developed in previous Italian courses. It explores advanced Italian language structures and culture in depth. Students achieve intermediate-high proficiency in listening, speaking, reading, and writing. This class is conducted entirely in Italian.

AP ITALIAN LANGUAGE AND CULTURE - FL5431(2) - Sr. - 1 yr., 1 cr.

Prerequisite: Italian 3 or Italian 3H. This course will explore the six overarching themes from the College Board in a variety of units. Students will be required to complete a selection of activities during the summer preceding the course. Students who successfully complete this course and the AP Italian Language and Culture examination may receive college credit and/or higher placement in college. This class is conducted entirely in Italian.

MANDARIN 1 - FL1411(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Pre-requisite: none

This course is designed for students without prior exposure to the Mandarin language. This introductory course begins to explore the Chinese language and culture through a variety of authentic resources. Students achieve novice proficiency in listening, speaking, reading, and writing. This course is designed for non-native/non-heritage students; simplified characters are taught. The teacher and the students are expected to speak Mandarin.

MANDARIN 2 - FL2411(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Students will participate collaboratively in guided conversations and presentations in both written and oral format on their way to progress through the proficiency levels towards Novice-High. The themes will be focused on daily-life topics throughout the year. They will develop strategies and language skills to talk about themselves and communicate with others on familiar topics in intercultural situations where Mandarin is used. Students will also learn to understand the various cultures in different areas of China, Taiwan and East Asia and compare them with their own cultures, and thus to appreciate the diversity of languages and cultures around the world, which enables the students to become global citizens in terms of both language and cultural awareness. Prerequisite: Mandarin Chinese I and recommendation of Instructor.

MANDARIN 3H - FL3421(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Students continue to build communication skills developed in Levels I and II. Specifically, students participate actively in extended oral and written discourse, using compound and complex sentences with cohesive devices to provide information in a coherent and fluent manner. They learn to initiate and sustain a conversation, discussion, or debate. Students narrate, describe, and predict events within context. Culture is a critical part of Chinese III curriculum. Students will be immersed in cultural intricacies through learning about traditional and contemporary cultural perspectives and products. The curriculum will be guided by the global themes adopted by AP Chinese Language Exam. Prerequisite: Mandarin Chinese II and recommendation of Instructor.

MANDARIN- 4H-FL4421(2)- Jr., Sr.- 1 year., 1 cr.- This course is a continuation of Mandarin 3H and continues to build students' skills by expanding their vocabulary and sentence patterns to achieve proficiency in the oral and written use of the Mandarin language through listening, speaking, reading, and writing. Oral proficiency in this course will focus on teaching students how to describe and narrate in detail, including formulating supportive opinions. For reading comprehension skills, this course is designed to help students understand most material on both concrete and abstract topics for a general readership. This course will also help students to understand main themes and most supporting details in television shows, movies for general audience, news reports, and lectures.

SPANISH 1 - FL1211(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - This course is designed for students without prior exposure to the Spanish language. This introductory course begins to explore the Spanish language and culture through a variety of authentic resources. Students achieve novice proficiency in listening, speaking, reading, and writing. This course is designed for non-native/non-heritage students. The teacher and the students are expected to speak Spanish.

SPANISH 2 - FL2211(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Spanish 1. Spanish 2 continues to develop the skills of listening comprehension, speaking, reading and writing. The structure of the language is studied in depth. The study of contemporary society in the Spanish-speaking world is continued. Specific cultural information is introduced through reading selections and audio-visual media. Students will read two books and utilize the language lab regularly.

SPANISH 2H- FL2221(2) - Fr., Soph., Jr., Sr.-1 yr., 1 cr.- Prerequisite: Spanish 1. Spanish 2H continues to develop the skills of listening comprehension, speaking, reading, and writing at a more advanced proficiency level. The structure of the language is studied in depth. The study of contemporary society in the Spanish-speaking world is continued. Specific cultural information is introduced through reading selections and audiovisual media. Students that select this course intend to make a four year commitment to Spanish because the rigor will mirror that of our capstone course.

SPANISH 3 - FL3211(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Spanish 2. This course is designed to strengthen speaking, listening, writing and reading skills. Conversations and compositions are based on reading of two novels and watching a video program. Understanding of grammatical structure is refined to provide students with the opportunity to express themselves creatively in writing. Writing skills are emphasized, with a final project in which students compose a book about their lives, covering past, present, and future events. Vocabulary is expanded to facilitate conversational skills through role-playing.

SPANISH 3H - FL3221(2) - Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Spanish 2, department recommendation. In this course, students will participate in enrichment activities in addition to the material covered in the regular class. Spanish will be used consistently in class with increasing student participation. Two novels appropriate to this level are read. The students will be required to use some analysis and evaluation related to situations dealing with Spanish-speaking countries. Writing skills are emphasized, with a final project in which students compose a book about their lives, covering past, present, and future events.

SPANISH 4 - FL4211(2) - Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Spanish 3. In this course, students will expand their knowledge through a variety of media and cultural units utilizing authentic resources. This course will prepare students for Spanish 5. Students will achieve intermediate-high proficiency in listening, speaking, reading, and writing. This class is conducted entirely in Spanish.

SPANISH 4H-FL422(2)-Jr., Sr. 1 yr., 1 cr., -Prerequisite: Spanish 3H. In this course, students will expand their knowledge through a variety of media and cultural units utilizing authentic resources. A selection of activities will be required during the summer preceding the course. The pacing and workload of an Honors course in the WL Department is more rigorous. This course will prepare students for AP Spanish Language and Culture. Students will achieve intermediate-high proficiency in listening, speaking, reading, and writing. This class is conducted entirely in Spanish. This course precedes AP Spanish Language and Culture.

SPANISH 5 - FL5113, FL5213 - Jr., Sr., -1 yr., 1 cr. - Prerequisite: Spanish 4 or Spanish 4H. This course will continue to refine the four skills of listening, reading, writing and speaking. The capstone of this course is the AAPPL test. Students who successfully complete this course and meet the requirements set by the State of Illinois will be awarded the Illinois State Seal of Biliteracy. This may result in college credit and/or higher placement in college. This class is conducted entirely in Spanish.

AP SPANISH LANGUAGE - FL5231(2) - Jr., Sr., - 1 yr., 1 cr. - Prerequisite: Spanish 4 or Spanish 4H. This course will explore the six overarching themes from the College Board 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 Spanish Language and Culture examination may receive college credit and/or higher placement in college. This class is conducted entirely in Spanish. Completion of this course prepares students for the Advanced Placement Examination in Spanish Language in May.

SPANISH FOR HERITAGE SPEAKERS 1 - FL1311(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Proficiency test. This course, intended for students who speak Spanish in the home, but need to develop basic skills of reading and writing. The structure of the language is studied, with particular emphasis on writing and spelling. Class is conducted entirely in Spanish. The study of contemporary society in the Spanish-speaking world is included. Specific cultural information is introduced through reading selections and audio-visual media. If students qualify for this program but elect not to take it, they may NOT take nonnative Spanish, but may consider other language programs.

SPANISH FOR HERITAGE SPEAKERS 2- FL2311(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. Prerequisite: Spanish for Heritage Speakers 1, proficiency test. Intended for students who speak Spanish in the home, this course is a continuation of Spanish for Heritage Speakers 1. Conducted entirely in Spanish, this course places continued emphasis on reading, writing and literature. Students also improve their writing, listening, and speaking skills using a variety of audio-visual media and technology. If students qualify for this program but elect not to take it, they may NOT take non-native Spanish, but may consider other language programs.

SPANISH FOR HERITAGE SPEAKERS 3H - FL3311(2) - Fr., Soph., Jr., Sr. - 1 yr., 1 cr. - Prerequisite: Spanish for Heritage Speakers 2, department recommendation, proficiency test. This course is specifically for students who speak Spanish as their first language and wish to continue with the Spanish for Heritage Speaker course sequence. Students will continue to improve their literacy skills with much emphasis on reading, writing, and discussion of literature. Conducted entirely in Spanish, this course will concentrate on improving skills in communication using a variety of audiovisual media and technology. Students are encouraged to move into this level in order to be able to take Spanish for Heritage Speakers 4H/AP Component.

SPANISH FOR HERITAGE SPEAKERS 4H/AP SPANISH LANGUAGE & CULTURE

- FL4311(2) - Soph., Jr., Sr., 1 yr., 1 cr. - Prerequisite: Spanish for Heritage Speakers 3H, department recommendation. This course is designed for students who have continued with the Spanish for Heritage Speakers program and wish to further polish their abilities in the language. This course will also prepare students to take the Spanish Language Advanced Placement Exam in May as well as to advance into AP Spanish Literature.

AP SPANISH LITERATURE - FL5331(2) - Jr., Sr., 1 yr., 1cr. - Prerequisite: Spanish 4, Spanish 4H, or Spanish for Heritage Speakers 3 and department recommendation. This course is designed for students who have demonstrated interest, motivation, and high achievement in previous Spanish courses. This course requires students to read a wide variety of literary genres in Spanish and engage in literary analysis of the texts through classroom discussion and formal essays. This course will also explore the culture and history of Spanish-speaking countries during each literary movement. Because this course is comparable to university level work, students are expected to have a high level of interest as well as sufficient time to read and prepare assignments outside of class. This course is conducted solely in the target language. This course prepares students for taking the Spanish Literature Advanced Placement Exam in May.

TECHNOLOGY CENTER OF DUPAGE

In considering the Technology Center of DuPage (TCD) course, please study the recommended and suggested course- lists carefully. The courses listed as recommended and suggested may be taken prior to going to TCD. The prerequisite course should be completed with a passing grade.

<u>PROGRAM TITLE</u>	<u>RECOMMENDED</u>	<u>SUGGESTED</u>
AGRICULTURE, FOOD & NATURAL RESOURCES		
Landscape Design & Turf Management		
ARCHITECTURE & CONSTRUCTION		
1. Civil Engineering & Architecture (CEA-PLTW)	Intro to Engineering Design (PLTW)	Interior Design
2. Construction Trades	General Woodworking Advanced Woodworking	Engineering Graphics 1
3. Heating, Ventilation, AC & Refrigeration	Intro to Electronics Electronics	Engineering Graphics 1
4. Residential Wiring	Intro to Electronics	Interior Design
ARTS, A-V TECHNOLOGY & COMMUNICATIONS		
Multimedia & Television Production	Television Production	Speech
EDUCATION & TRAINING		
Early Childhood Education & Care	Child Development Parenting	Preschool Child
HEALTH SCIENCE		
1. Nursing Assistant Training Program	Lab Science	Chemistry or Conceptual Chemistry
2. Medical Terminology & Health Careers	Lab Science	Chemistry or Conceptual Chemistry
HOSPITALITY & TOURISM		
Professional Cooking, Baking & Service Hospitality Management	Culinary Arts 1 & 2 Sports Marketing	Gourmet Foods
HUMAN SERVICES		
Cosmetology Healthcare Foundations	Fashion Workshop Fashion Merchandising	
INFORMATION TECHNOLOGY		
Computer Information Systems & Game Design	Computer Science Discoveries 1 & 2	AP Computer Science A AP Comp Science Principles
LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY		
1. Criminal Justice	Business Law	Chemistry, American Law
2. Fire Science/Emergency Medical Technician	IAB SCIENCE	Chemistry

MANUFACTURING

Precision Machining
Welding Technology

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (STEM)

“Pathway to Engineering” Courses (PLTW)

Precision Engineering & Design Technology
Engineering Design & Development (EDD)
Introduction to Engineering Design (IED)
Principles of Engineering (POE)
Digital Electronics (DE)
Civil Engineering & Architecture (CEA)
Computer Science Principles

ENGINEERING GRAPHICS & 2 (Arch)

Recommended for all PLTW courses

OTHER RECOMMENDED COURSES

Introduction to Engineering Design
Intro to Electronics
Engineering Graphics & 2 (Architectural)

TRANSPORTATION & LOGISTICS

1. Auto Body Repair & Refinishing	Autos 1	Advanced Autos
2. Automotive Technology	Advanced Autos Intro to Electronics	Engineering Graphics & 2 (Architectural)

APPROXIMATE FEES FOR TECHNOLOGY CENTER OF DUPAGE PROGRAMS

All TCD programs have a yearly \$100 participation fee. Each student will pay the \$100 fee while attending TCD with the exception of the Cosmetology program. Cosmetology students will pay a \$525 fee during the first year and a \$370 fee the second year.

In cases where a program fee will cause a special hardship for the student and his/her family, special arrangements can be made, such as allowing the student to purchase materials on a "time payment" basis. In no case, however, should a supply fee prevent a student from enrolling in a Technology Center of DuPage program.

***COSMETOLOGY - Students enter this program as juniors. Successful completion of the program allows students an opportunity to take the Illinois State Cosmetology exam and become licensed in the areas of cosmetology, nail technology and esthetics. Cosmetology is a two-year program. Seniors may enroll as first year cosmetology students but will not be able to meet licensing requirements before high school graduation.

TECHNOLOGY CENTER OF DUPAGE “NO-DROP” POLICY

Please be advised that registration for Technology Center of DuPage programs constitutes a year long placement for your son or daughter. April 30, 2020 is the final date that withdrawal from a Technology Center of DuPage program for the 2020-2021 school year will be allowed. On August 1, 2020 the Glenbard district will be charged approximately \$4,400.00 tuition for each student registered at Technology Center of DuPage, and that tuition is non-refundable to Glenbard.

It is important to understand that a student who drops out of a Technology Center of DuPage program after April 30, 2020 may not be able to schedule classes at any Glenbard campus during the class periods that had been scheduled at Technology Center of DuPage.

TRANSPORTATION ARRANGEMENTS FOR TCD STUDENTS

Students are transported back and forth between Technology Center of DuPage and Glenbard North High School. Afternoon T.C.D. students are transported back to Glenbard North at 2:25 pm and are able to take their assigned bus route home from school or participate in extra-curricular activities.

ILLINOIS STATE UNIVERSITIES HIGH SCHOOL PREPARATION REQUIREMENT

Admission as a freshman to a state university in Illinois is based primarily on a combination of GPA, ACT or SAT score, and high school subject pattern requirements.

Minimum Requirements For Graduation From Glenbard North High School Class of 2020		Admission Requirements To Public Universities in Illinois	
Course	Current Credits	Course Requirement	Credits
English	3.5	English - Emphasis on written & oral communications & literature	4.0
Speech	0.5		
Social Studies	1.5	Social Studies - Emphasis on history and government	3.0
U.S. History	1.0		
Government/Civics	0.5		
Mathematics - including Algebra and Geometry	3.0	Mathematics - Including geometry, algebra, algebra 2 with trigonometry, or fundamentals of computer programming	3.0
Science	3.0	Science - Emphasis on laboratory sciences	3.0
Cultural Education	0.5		
Applied Arts	0.5		
Health Education	0.5		
Driver Education	0.5		
Consumer Education	0.5		
Physical Education	3.0		
Electives	4.5	Electives - Four semesters in world language, art, music or theatre	2.0
TOTAL CREDITS:	23.0		

Specific application of these course requirements varies among the state universities. The chart on the following page provides specific information on each of the state schools. For more information, contact your counselor or the Admission Office at one of these Illinois state universities.

STUDENT CONDUCT

ATTENDANCE: Names of students who will be absent, tardy or leaving school early must be called in by their parents or legal guardian by 10:00 a.m. on the day of the absence. Notes are not accepted. Students who arrive to school late should report directly to the Attendance Office. Parents must make prior arrangements with the Attendance Office when students must leave school for appointments. Students leaving school early should pick up an attendance slip in the Attendance Office in person and show that slip to their teacher at dismissal time. The attendance telephone number is (630)653-9092, and all attendance calls are taken at that number. The recorder will be on from 4:00 p.m. until 7:00 a.m. for those who are unable to call during school hours.

SPECIAL CONDUCT: Students at Glenbard North are expected to take pride in their good manners and to have respect for each other and for authorities in and out of school. Students are responsible and accountable for their actions. Selfdiscipline, which implies responsibility for one's actions, is one of the important goals of education and a mark of maturity. Respect for property, deference to authority, and pride in personal accomplishments shall be expected of all students. Students' pride in the high standards of Glenbard North shall be reflected in their behavior. All students should become thoroughly familiar with the contents of the *Panther Planner*.

NOTE: IF YOU MOVE OUT OF THE GLENBARD NORTH HIGH SCHOOL ATTENDANCE AREA OR DECIDE TO ATTEND A PRIVATE SCHOOL BEFORE SCHOOL OPENS IN THE FALL, PLEASE NOTIFY THE GLENBARD NORTH SCHOOL COUNSELING DEPARTMENT AT 630-653-7000 EXTENSION 3242

Glenbard Township High School District 87 does not discriminate in any programs or activities on the basis of sex, race, creed, religion, color, national origin, age, veteran or military status, sexual orientation, gender expression or identity, marital status, disability, or the use of a trained dog guide or service animal and provides equal access to the Boy Scouts and other designated youth groups. Glenbard offers classes in several college preparedness courses, as well as career classes at TCD, admission to which is non-discriminatory. Lack of English-language proficiency will not be a barrier to admission and participation in those programs.

