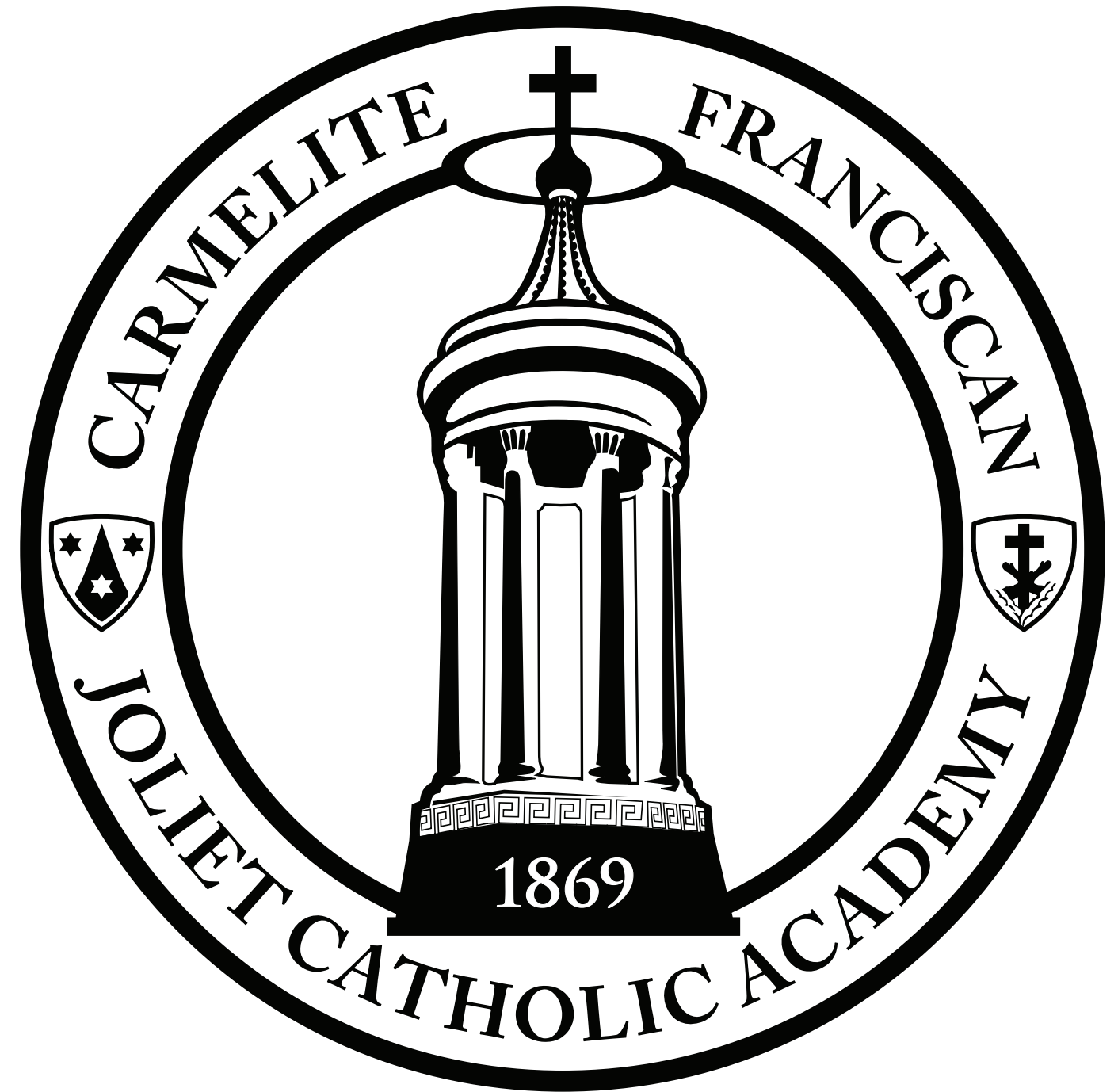
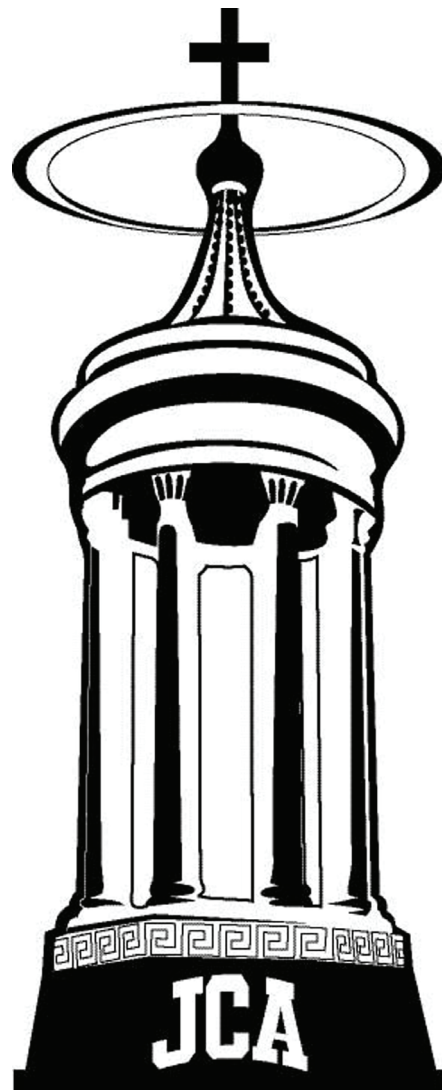


JOLIET CATHOLIC ACADEMY

Inspiring Growth in Knowledge and Faith

*Inspiring growth in knowledge and faith,
the Joliet Catholic Academy family creates
an environment that cultivates opportunities
for academic excellence, meaningful service, Christian respect,
and Catholic values in the traditions of the Carmelites and Franciscans.*



2016-2017 Curriculum Guide

Dear Parents and Students,

This Curriculum Guide contains course descriptions and other necessary information about required and elective courses that JCA will offer during the school year. Please read the course descriptions very carefully while paying close attention to the prerequisites that are required for some courses. In addition to the course descriptions, this guide contains the appropriate graduation requirements for each grade level, a progression chart for math, science, social studies, and visual art courses, the qualifications for the Honors Program, minimum public university/college requirements, and NCAA guidelines.

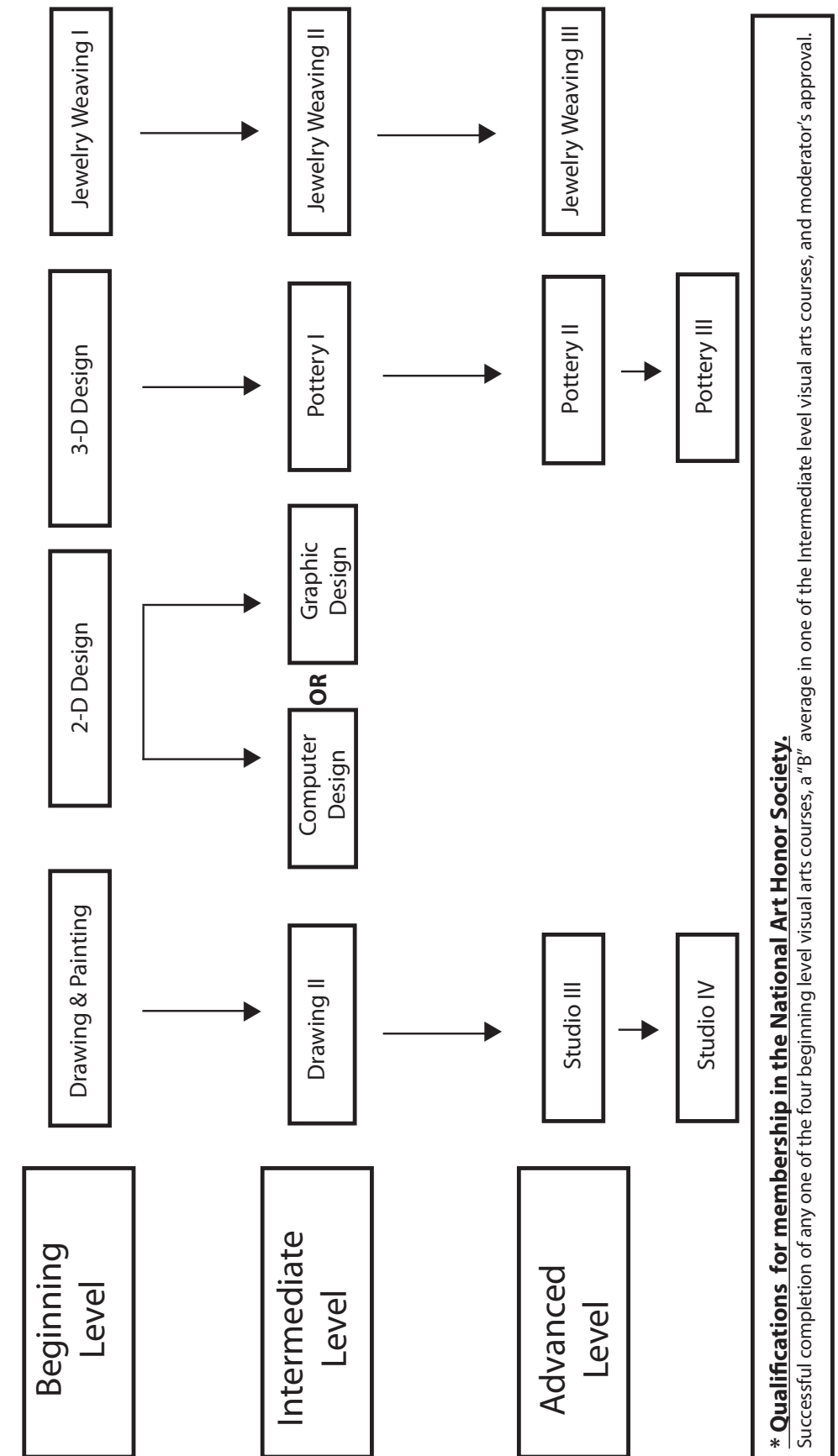
Part I: Parents

- 1.) We request parents to help their son/daughter in the selection of courses. Please use this curriculum guide to assist you. You may also contact your child’s counselor and/or the chairperson for the respective department for assistance. Contact information is available on the school’s website at www.jca-online.org/our-school/faculty-staff or by calling the Main Office at 815.741.0500.
- 2.) Students have been instructed to discuss their course choices with their parents, teachers, and counselor before marking their final requests on the course selection form. It is strongly recommended that the student maintains his/her academic placement status—Honors, Upper College Prep, or College Prep curriculum. Many of JCA’s courses are offered in a sequential pattern. Once a student breaks the sequence, it becomes very difficult to re-enter the progression of courses.
- 3.) After a student identifies their course selections for the next school year, the current core curriculum teacher and/or counselor will initial the form to indicate concurrence. It is the teacher’s responsibility to identify courses and the curriculum which is the best match for the student based on his/her current academic performance. Parents who have concerns about placement may schedule an appointment with the teacher or counselor to discuss a possible revision.
- 4.) The course selection form should be returned to your son’s/daughter’s homeroom teacher on/before the date designated on their course selection form. A non-refundable registration fee of \$300 will be included on your March tuition statement. Please mark the appropriate response on the course selection form regarding your son’s/daughter’s anticipated attendance status at JCA for the upcoming school year.

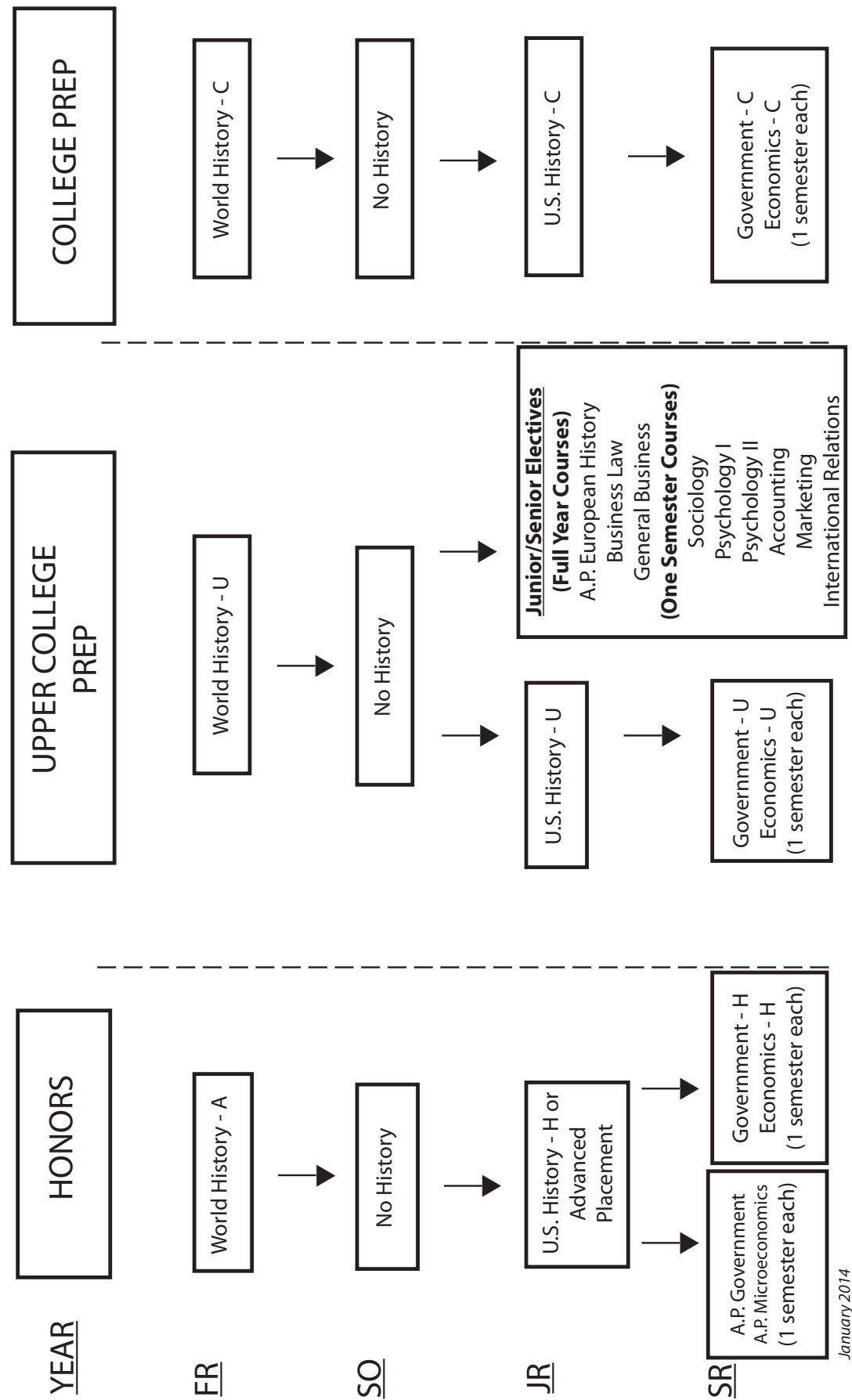
Part II: Students

- 1.) Please use the course selection form to indicate your choices for the upcoming school year. The form lists required and elective courses.
- 2.) Use the Curriculum Guide to assist you in the selection of courses. Please note, there may have been changes made in the courses that will be offered for next year. You are not eligible to enroll in a course if you have not met the prerequisite. For your convenience, the prerequisites are listed in the guide and on the course selection form. Review the math, science, social studies and visual arts flow charts in the guide to assist you in selecting the appropriate courses.
- 3.) **Sophomores must register for 7.0 credits, and juniors and seniors must register for at least 6.0 credits. Sophomores should register for one visual art, one performing art, physical education, and health education.**
- 4.) Students are strongly advised to maintain your present placement status—Honors, Upper College Prep, or College Prep—when selecting your courses. However, it is possible that your current core curriculum teacher will place you in a different curriculum for next year based on this year’s level of academic achievement.
- 5.) Please review the Curriculum Guide immediately upon receipt. Begin marking the courses you want to enroll in for next year. On the course selection form place an “X” in front of the courses you want. You should take your form home and discuss your selections with your parents.
- 6.) Students may enroll in an elective course only once for credit. In other words, a student may not take any elective course (such as Strength Training, Drawing and Painting I, English Handbells, etc.) more than once while enrolled as a JCA student. The exceptions are performance based courses such as Tapestry, Band, and Advanced Handbells.
- 7.) Students are responsible for obtaining teacher or counselor approval and signatures on the course selection form. JCA reserves the right for teachers to place students in courses that parallel their current level of academic achievement. Final placement will be determined by the faculty and administration.
- 8.) Parents must sign the completed form **which must be turned in to the homeroom teacher on or before the date specified on the course selection form.**
- 9.) Students requesting placement in an **advanced** visual arts or performing arts course, multimedia design, yearbook, journalism, or band will need to obtain the signature of these teachers before school, after school, or during homeroom. Students interested in Tapestry must complete the audition process.

**JOLIET CATHOLIC ACADEMY
VISUAL ARTS COURSE PROGRESSION**



JOLIET CATHOLIC ACADEMY SOCIAL STUDIES COURSE PROGRESSION



January 2014

10.) In late spring, students will receive a tentative list of classes. Questions or concerns regarding placement may be addressed at this time with teachers and the counselor. There are no guarantees for course enrollment until the master schedule has been established in June/July. At that time, final placement will be determined.

11.) It is possible a teacher's recommendation for placement will change by late spring. If there is a change, it will appear on the computer printout.

12.) Until this process is completed a student will not be officially registered. Failure to register may result in closed courses. Even if there is some doubt about your return to Joliet Catholic Academy, the course selection form should be completed, since it is easier to withdraw than to add courses after the process has been completed.

13.) **Juniors and seniors:** Because juniors and seniors have the option to enroll in a variety of elective courses, it becomes critical they understand the following admission guidelines adhered to by a majority of colleges and universities.

14.) **Seniors** must enroll in a minimum of **four core curriculum** courses their senior year. For purposes of this requirement, Theology is defined as a core course.

College admissions personnel use various criteria to determine acceptance of a student for enrollment. In addition to GPA, ACT/SAT scores, and involvement in extra-curricular activities, the admissions office evaluator will examine the transcript for the number and quality of core curriculum courses taken by the student. The more core courses successfully completed by the student, the better the odds he/she will be accepted by the college of choice. Students who complete a more demanding curriculum are also more likely to succeed in college and finish their degrees in a reasonable period of time.

It is recommended that all students discuss the college admissions process with their counselor. The counselor will provide the best information possible with respect to what courses one should take to enhance the opportunity for admission to and success at the college of choice. Thus, all juniors and seniors are strongly advised to enroll in as many of the core curriculum courses (english, math, science, social studies, etc.) as possible, and then choose other non-core electives (strength training, junior/senior physical education, multimedia design, etc.) to complete their schedule. The four beginning level visual art courses and the four beginning level performing art courses are reserved for **sophomore** placement, unless the course is needed to meet a graduation requirement.

REGARDING ANY COURSE CHANGES

We would like to reiterate the following policies for all students:

- **You have until the date specified on the course selection form to request a course change. After that date, no change may be made unless a selected course becomes unavailable. For students initiating a schedule change, a \$75 fee will be incurred.**
- We reserve the right to drop any course for which an insufficient number of students register. (Should this occur, no charge will be incurred.)

Sincerely,

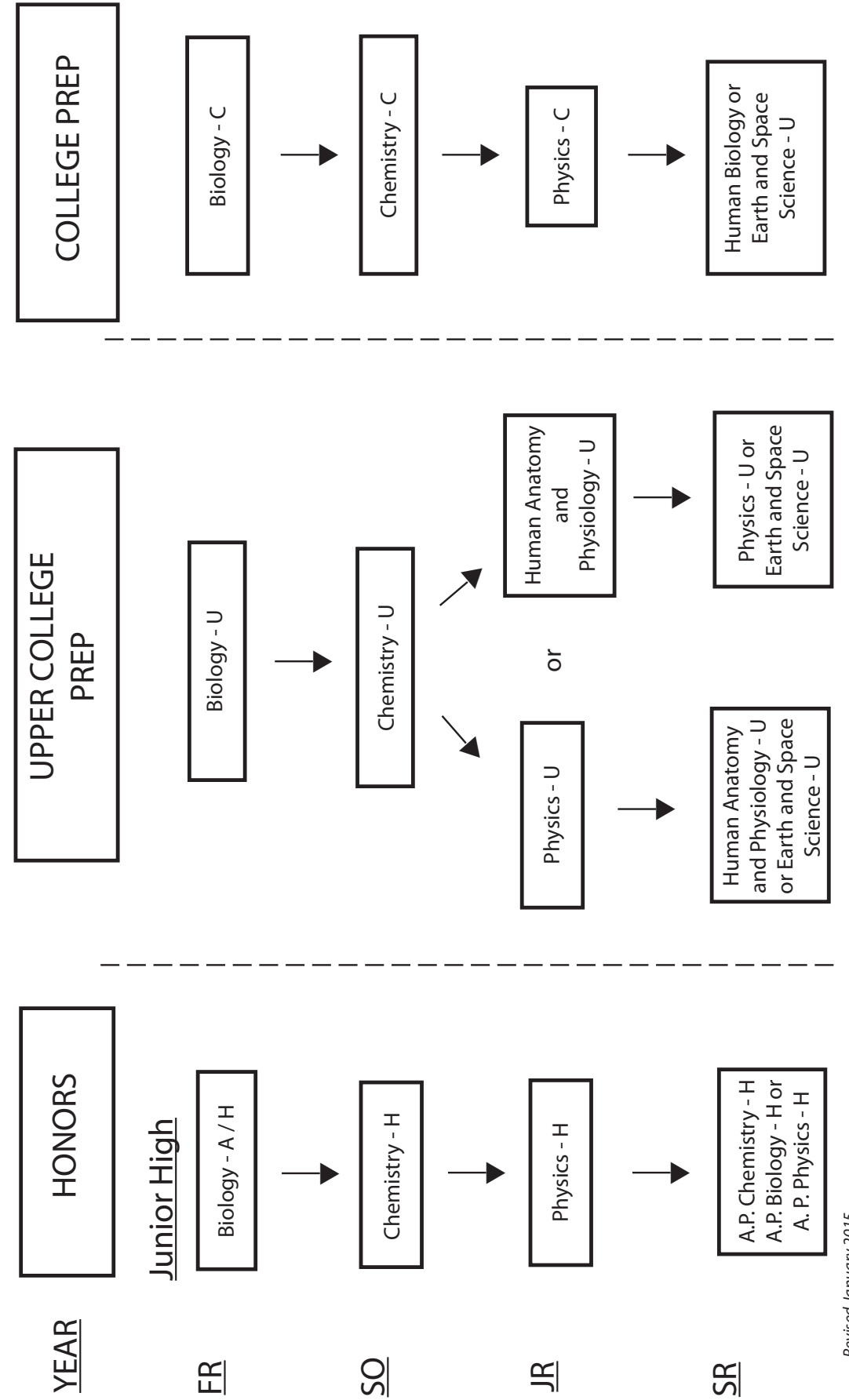
Jeffrey Budz

Dr. Jeffrey Budz
President/Principal

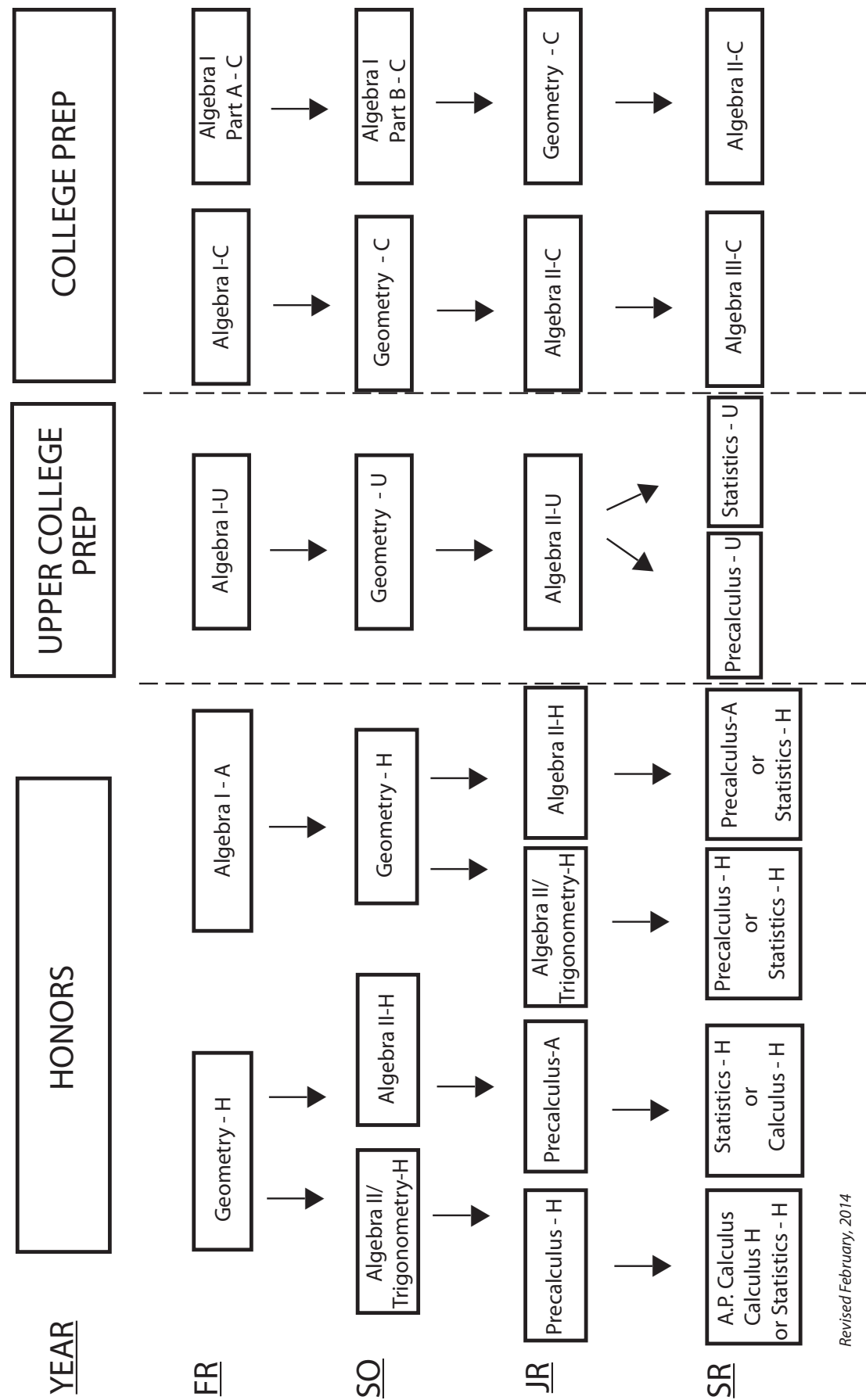
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JOLIET CATHOLIC ACADEMY SCIENCE COURSE PROGRESSION



JOLIET CATHOLIC ACADEMY MATHEMATICS COURSE PROGRESSION



Joliet Catholic Academy Honors Program

The intent of the Honors Program is to challenge academically gifted students, provide them with a demanding program to meet their needs, and encourage them to reach their full academic potential. Enrollment in Honors courses and membership in the Honors Program is not synonymous.

Freshmen will be placed, based on their High School Placement Test scores, combined with their grade school recommendations in an "Accelerated Prep" curriculum for their first year at JCA. At the end of their freshman year, the student's performance is evaluated. Upon the recommendation of the freshman teachers, the Administration will "officially" invite the student to join the Honors Program prior to the start of their sophomore year. The student must have completed the following freshman Accelerated courses: English I, Algebra I or Geometry-H, World History and Biology I, with a grade of A or B for both semesters. NOTE: With reference to mathematics, if the student was enrolled in Algebra I - Accelerated as an eighth grader, and earned an A or B, and was enrolled in Geometry-H as a freshman, and received an A, B or C, he/she would qualify for the Honors Program, assuming the grades for the three aforementioned classes were A or B. With reference to science, if the student was enrolled in Biology-Accelerated as an eighth grader, and earned an A or B, and was enrolled in Chemistry-H as a freshman, and received an A, B or C, he/she would qualify for the Honors Program, assuming the grades for English I, Algebra I or Geometry-H, and World History were a grade of A or B for both semesters.

Enrollment in and completion of the following Accelerated/Honors subjects are required:

1. Four years of English
2. Three years of Science, Math, and Social Studies
3. Four years of the same Foreign Language
4. A fourth year Honors course in Science, Math, or A.P. European History

Membership in the Honors Program is only available to JCA freshman students who complete the above criteria. Upperclassmen and/or transfer students will not be eligible for membership. Students must meet all of the above criteria to remain in the Honors Program. In addition, each student must complete a total of 60 hours of Christian service to be eligible for graduation.

Students receiving more than one C and/or any single grade of D or F **per semester** in any course will not be eligible to continue in the Honors Program.

Honors Program students are expected, but not required, to enroll in Advanced Placement-level courses, when available. Students who complete the four-year program will receive an Honors diploma and their transcript, which will be forwarded to colleges, will indicate membership in and completion of the Joliet Catholic Academy Honors Program.

Grading Scale

Advanced Placement	A = 5.5 points
Accelerated/Honors	A = 5.0 points
Upper College Prep	A = 4.25 points
College Prep	A = 4.0 points

Note: Full time students must register for a minimum of **6.00 credits per year**.

GRADUATION REQUIREMENTS

<u>Subject</u>	<u>Credit</u>
Theology	4.00
English	4.00
Mathematics	3.00
Social Studies	3.00
Science	3.00
Foreign Language (or 2 year sequence in Fine Arts or 2 year sequence in Reading)	2.00
Physical Education	1.00
Performing Arts	0.50
Visual Arts	0.50
Health	0.50
Computer Applications	0.50
Electives (Includes one core course senior year)	3.00
<u>60 hours of Christian Service</u>	<u>0.00</u>
Total Credits (Minimum needed for graduation)	25.0

SEQUENCES OF COURSES

Freshman Year		Junior Year	
Theology	1.00	Theology	1.00
English	1.00	English	1.00
Mathematics	1.00	Mathematics	1.00
Science	1.00	Science	1.00
Foreign Language	1.00	U.S. History	1.00
<i>(or 2 year sequence in Fine Arts/Reading)</i>		<u>Electives</u>	<u>1.00</u>
World History	1.00	Total	6.00
Computer Applications	0.50		
<u>Physical Education</u>	<u>0.50</u>	Senior Year	
Total	7.00	Theology	1.00
		English	1.00
Sophomore Year		Economics	0.50
Theology	1.00	U.S. Government	0.50
English	1.00	<u>Electives*</u>	<u>3.00</u>
Mathematics	1.00	Total	6.00
Science	1.00		
Foreign Language	1.00	<i>*Including one core course</i>	
<i>(or 2 year sequence in Fine Arts/Reading)</i>			
Health	0.50		
Physical Education	0.50		
Visual Arts	0.50		
<u>Performing Arts</u>	<u>0.50</u>		
Total	7.00		

GRADES

The goals of education are accomplished by the pursuit of knowledge and understanding rather than the pursuit of grades. Grades are recognized at JCA as a necessary element for charting academic progress and because colleges/universities utilize grades in their equation for student admission. JCA assigns the following numeral point values to letter grades for the purpose of calculating the GPA:

A = Superior Achievement	INC = Incomplete
B = Above Average Achievement	WP = Withdraw Passing
C = Average Achievement	WF = Withdraw Failing
D = Passing	U = Unsatisfactory
F = Failure	S = Satisfactory

SCALE	AP	HONORS	UCP	CP
A+ 100-99	5.75	5.25	4.75	4.25
A 98-94	5.50	5.00	4.50	4.00
A- 93-92	5.25	4.75	4.25	3.75
B+ 91-90	4.75	4.25	3.75	3.25
B 89-86	4.50	4.00	3.50	3.00
B- 85-84	4.25	3.75	3.25	2.75
C+ 83-82	3.75	3.25	2.75	2.25
C 81-78	3.50	3.00	2.50	2.00
C- 77-76	3.25	2.75	2.25	1.75
D+ 75-74	1.25	1.25	1.25	1.25
D 73-72	1.00	1.00	1.00	1.00
D- 71-70	0.75	0.75	0.75	0.75
F 69 or less	0.00	0.00	0.00	0.00

SPANISH I - U

Credit: 1.00
Elective: Freshmen, Sophomores, Juniors
Prerequisite: Administrative Placement for Freshmen

This course will develop foreign language skills in the four areas of listening, speaking, reading and writing of basic compositions. This course will also promote an awareness, appreciation and understanding of the Spanish-speaking world's way of life, history and traditions.

SPANISH I - C

Credit: 1.00
Elective: Sophomores, Juniors
Prerequisite: Administrative Placement for Freshmen

This course will be similar in content to Spanish I- U. However, the instructional pace will be slower to provide more time for review and reinforcement. In addition, more time will be devoted to the study of the culture, history, geography and traditions of the people in Spanish-speaking regions of the world. The same textbook will be utilized for two years (Spanish I- C and Spanish II- C). Students will be placed in this course based on their standardized test scores, teacher recommendation and instructor approval. **This course is designed as a two-year program only, students will not be able to take Spanish III-H.**

SPANISH II - U

Credit: 1.00
Elective: Sophomores, Juniors, Seniors
Prerequisite: Spanish I -U and a minimum grade of "C" (Not for students coming from Spanish I-C)

This course provides further development of audio-lingual proficiency along with a continued emphasis on reading, writing and composition skills. An expanded vocabulary and structures necessary for personal communication are emphasized. The cultural aspects of the course help the student to appreciate the customs and traditions of the Spanish-speaking world.

SPANISH II - C

Credit: 1.00
Elective: Sophomores, Juniors, Seniors
Prerequisite: Spanish I U or C and instructor approval

This course provides further development of audio-lingual proficiency, along with a continued emphasis on reading, writing, and composition skills. An expanded vocabulary and structures necessary for personal communication are emphasized. The cultural aspects of the course help the student to appreciate the customs and traditions of the Spanish-speaking world. **This course completes the program and students may not continue with Spanish III-H.**

SPANISH III - H

Credit: 1.00
Elective: Juniors, Seniors
Prerequisite: Spanish II-U and a minimum grade of "C" (Not for students from Spanish II-C)

This course furthers proficiency in the areas of listening, speaking, reading and writing. Also, the study of grammatical structures is emphasized. Audio-lingual skills are cultivated through listening comprehension exercises, pronunciation drills and oral practice. Spanish life and culture are continuous parts of the course.

SPANISH IV - H

Credit: 1.00
Elective: Seniors
Prerequisite: Spanish III -H and a minimum grade of "C"

This course enhances communication skills and presents more advanced grammatical structures. Reading skills are strengthened through exposure to culture and literary Spanish works. Importance is placed on guided paragraph writing. Study of the civilization and culture of Spanish-speaking people is included.

A.P. SPANISH V - H

Credit: 1.00
Elective: Seniors
Prerequisite: Minimum of 3 years of Spanish in high school and a Grade of C or higher in Spanish IV-H, or Spanish III-H with straight A's in all Spanish courses plus teacher approval

This course is conducted primarily in Spanish with authentic materials from the Spanish-speaking world. The vocabulary and fine points of grammar continue to be reviewed and expanded. This course is designed to provide students with various opportunities to further improve their proficiency in listening, speaking, reading, and writing skills to be ready for the possibility of taking the AP Spanish Language and Culture Examination and other standardized tests.

FRENCH I - U**Credit:** 1.00**Elective:** Freshmen, Sophomores, Juniors**Prerequisite:** Administrative Placement for Freshmen

This course offers an introduction to the language and culture of the French speaking world. It is designed to help the student attain an acceptable degree of proficiency in the areas of listening, speaking, reading and writing. The grammar and French vocabulary reinforce and develop the students' English proficiency.

FRENCH II - U**Credit:** 1.00**Elective:** Sophomores, Juniors, Seniors**Prerequisite:** French I-U and a minimum grade of "C"

This course provides further development of audio-lingual proficiency along with a continued emphasis on reading and writing skills. An expanded vocabulary and structures necessary for personal communication are emphasized. The cultural aspects of the course help the student to appreciate the customs and traditions of the French speaking world.

FRENCH III - H**Credit:** 1.00**Elective:** Juniors, Seniors**Prerequisite:** French II -U and a minimum grade of "C"

This course develops proficiency in reading and comprehension through authentic texts and material. The grammar is reviewed and expanded. The essay topics improve students' writing proficiency. The audio and video program is taken in part from authentic sources.

FRENCH IV - H**Credit:** 1.00**Elective:** Seniors**Prerequisite:** French III-H and a minimum grade of "C"

This course offers an in-depth study of the finer points of grammatical structures. The reading and audio program are taken from authentic sources and deal with contemporary issues. The Little Prince will be read.

A.P. FRENCH V - H**Credit:** 1.00**Elective:** Seniors**Prerequisite:** Minimum of 3 years of French in high school and a Grade of C or higher in French IV-H, or French III-H with straight A's in all French courses plus teacher approval.

This course is conducted primarily in French with authentic materials from the French-speaking world. The vocabulary and fine points of grammar continue to be reviewed and expanded. This course is designed to provide students with various opportunities to further improve their proficiency in listening, speaking, reading, and writing skills to be ready for the possibility of taking the A.P. French Language and Culture Examination and other standardized tests.

LATIN III - H**Credit:** 1.00**Elective:** Juniors, Seniors**Prerequisite:** Latin II-U and a minimum grade of "C"

Continued growth in grammar, syntax and vocabulary will be undertaken. An extensive review of the first two years will be undertaken before students begin study of the ancient Latin masters; philosophers, poets and statesmen who developed the classical Latin style. The life and times of these Latin masters will be explored to better appreciate the complexity and beauty of their prose and poetry. Ancient Roman history and culture will continue to be explored with ongoing application to our own civilization, with special comparisons to art and government.

LATIN IV - H**Credit:** 1.00**Elective:** Seniors**Prerequisite:** Latin III-H and a minimum grade of "C"

New vocabulary is introduced for each lesson to better understand the classical writing selection of a renowned Latin author. Specific Roman events are explored in the fields of warfare, politics, government, mores and culture. Students gain an appreciation of the events contributing to the rise and fall of Roman culture and civilization. Particular emphasis is given to the various cultural, religious and literary connections between the Romans and Greeks.

REQUIREMENTS FOR COLLEGE ADMISSION

Minimum subject requirements for admission to PUBLIC Illinois colleges and universities have been established by the Illinois State Board of Higher Education. Private and out-of-state colleges and universities may have different admission requirements. Students should review the admission requirements for their anticipated college of choice as early as possible during their high school career. This essential, pre-planning will better guarantee admission and improve the student's chances of successfully completing a baccalaureate degree program. Students who have not taken the required courses may still be admitted to a public college or university on a provisional basis. Because each college's provisional policy may differ, it is the responsibility of the student to contact the college/university for more information.

The basic high school level courses may not meet all of a college's admission requirements. Other criteria may include GPA, rigor of coursework, ACT/SAT scores, participation in co-curricular activities, letters of recommendation, and essays. Applicants are responsible for researching and understanding the admission requirements of the individual schools to which they will submit applications.

ILLINOIS PUBLIC COLLEGE/UNIVERSITY REQUIREMENTS*

The following secondary school courses are usually the minimum required for entering an Illinois Public college (2 year or 4 year) university.

<u>Credits</u>	<u>Course</u>
4	English
3	Social Studies
3	Mathematics
3	Science (Laboratory Sciences)
2	Foreign Language or Fine Arts (Visual Arts/Performing Arts)

**Requirements may vary from college to college.*

Students interested in obtaining an athletic scholarship should know that the NCAA has its own set of approved core courses for initial eligibility. All credits must be earned through a regular program of studies from an approved high school before completion of the senior year.

NCAA GUIDELINES

(National Collegiate Athletic Association)

Division I

College-bound student-athletes first entering an NCAA Division I college or university on or after August 1 must meet minimum academic requirements in order to receive athletic aid (scholarship), practice or compete during their first year.

Full Qualifier - In order for a student-athlete to receive athletic aid (scholarship), practice and compete in the first year of enrollment a student must:

- Graduate from high school
- Complete 16 core courses total (see chart below)
- Complete 10 core courses before the seventh semester. These courses/grades are “locked in” at the start of the seventh semester (cannot be repeated for GPA improvement to meet initial-eligibility requirements for competition).
- Seven of those 10 must be a combination of English, Math or Natural or Physical Science that fulfills the overall distribution requirements listed below.
- Earn a minimum 2.300 GPA in core courses to compete in your first year of college. Only core courses that appear on the JCA list of NCAA Courses on the NCAA Eligibility Center’s website, www.eligibilitycenter.org, are used to calculate your core course GPA.
- Core course GPA is calculated using the best 16 core courses that meet both progression (10 courses “locked in” before seventh semester) and subject-area requirements.
- Earn an ACT sum score or SAT combined score (critical reading and math) that matches your core course GPA on the sliding scale (visit www.eligibilitycenter.org to see sliding scale).
- Students who do not earn 10 courses before the seventh semester, may still be eligible to practice and receive a scholarship in their initial year of enrollment by meeting academic redshirt requirements (see below) but will not be eligible to compete.

Academic Redshirt - A college-bound student-athlete may receive athletic aid (scholarship) in the first year of enrollment and may practice in the first regular academic term (semester term (semester or quarter) but may NOT compete in the first year of enrollment. After the first term is complete, the college-bound student-athlete must be academically successful at his/her college or university to continue practice for the rest of the year.

Division I Initial-Eligibility Requirements

- Graduate from high school
- Complete 16 core courses (see chart below)
- No grades/credits “locked in”
- Earn a minimum 2.000 GPA in core courses
- Earn an ACT sum score or SAT combined score that matches your core course GPA on the sliding scale

Division I (16 Core Courses)

- 4 years of English
- 3 years of Math (Algebra I or higher)
- 2 years of Natural/Physical Science (1 year of Lab)
- 1 year of additional English, Math, or Science
- 2 years of Social Science
- 4 years of additional core courses on NCAA list

Division II Initial-Eligibility Requirements

- Graduate from high school
- Complete 16 core courses (see chart below)
- No grades/credits “locked in”
- Earn a minimum 2.000 GPA in core courses
- Earn an ACT sum score of 68 or SAT combined score (critical reading and math) of 820

Division II (16 Core Courses)

- 4 years of English
- 3 years of Math (Algebra I or higher)
- 2 years of Natural/Physical Science (1 year of Lab)
- 1 year of additional English, Math, or Science
- 2 years of Social Science
- 4 years of additional core courses on NCAA list

For additional information on these requirements or to view the sliding scale, please visit: www.eligibilitycenter.org.

THEOLOGY

THEOLOGY I - U

Credit: 1.00

Required: Freshmen

Prerequisite: None

During the first semester of freshmen year the purpose of the course is to give students a general knowledge and appreciation for Sacred Scripture. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In this course students will learn about the Bible, authored by God and its value to people throughout the world. If students have not been taught this earlier, they will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they will grow to know and love Jesus Christ more personally. The second semester will answer the question “Who is Jesus Christ?” The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. Additionally students will learn that Jesus Christ is the ultimate Revelation to us from God. In learning about who He is, the students will learn who He calls them to be.

This course conforms to the United States Conference of Catholic Bishop’s High School Curriculum.

THEOLOGY II - U

Credit: 1.00

Required: Sophomores

Prerequisite: Theology I

During sophomore year the two semester course will help students understand all that God has done for us through his son, Jesus Christ. Through this course of study students will learn for all eternity, God has planned for us to share eternal happiness with Him, which is accomplished through the Redemption Christ won for us. Students will learn that they share in this Redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what that life entails. Additionally in the second semester students will understand that it is through the Church that they encounter the living Jesus Christ. Students will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him through the Holy Spirit. Students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

This course conforms to the United States Conference of Catholic Bishop’s High School Curriculum.

THEOLOGY III - U

Credit: 1.00

Required: Juniors

Prerequisite: Theology II

During the first semester students will come to understand that they can encounter Christ today in a full and real way in and through the Sacraments of the Church especially through the Eucharist. Students will examine each of the Sacraments in detail so that they may learn how to encounter Christ through their lives. During the second semester of junior year students will understand that it is only through Christ that they can fully live out God’s plan for their lives. Students will learn the moral concepts and precepts that govern the lives of Christ’s disciples.

This course conforms to the United States Conference of Catholic Bishop’s High School Curriculum.

THEOLOGY IV - U

Credit: 1.00

Required: Seniors

Prerequisite: Theology III

During the first semester seniors will be introduced to the Church’s Social Teaching. In this course students will learn how Christ’s concern for others must manifest itself in His disciples. Students will examine the issues of Global/Domestic Poverty and the challenges to the sacredness of Human Life. Students will learn that Christ is present in the Church’s social teaching and mission. During the second semester students will understand the vocations of life: how Christ calls us to live. Additionally students will learn how all vocations are similar and how they differ. The course will be structured around the married life, single life, priestly life, and consecrated (religious) life. Students will learn what it means to live life for the benefit of others and the value in considering a vocation in service of the Christian Community.

This course conforms to the United States Conference of Catholic Bishop’s High School Curriculum.

WORLD LANGUAGES

ENGLISH AS A SECOND LANGUAGE (ESL) - U

Credit: 1.00

Elective: International Students

Prerequisite: Students affiliated with The Cambridge Institute of International Education

English as a Second Language (ESL) class provides one-on-one tutoring in a classroom setting for exchange students affiliated with The Cambridge Institute of International Education and Gphomestay. Tutoring is subject-specific with an emphasis on English language learning to improve student learning. The class is tailored to students seeking excel academically or catch up with their peers. Specific lessons and a textbook are used to enable students to improve their English and academic performance.

ECONOMICS - C

Credit: 0.50

Required: Seniors

Prerequisite: Placement by Junior level U.S. History instructor

This course introduces fundamental economic concepts such as scarcity, GNP, inflation, budgeting, etc. Other basic concepts include the functions performed by an economic system and the way the tools of supply and demand can be used to analyze a market economy.

A.P. EUROPEAN HISTORY - H

Credit: 1.00

Elective: Juniors, Seniors

Prerequisite: A.P. U.S. History or Junior level U.S. History instructor approval

This course will analyze European history from four distinct historical perspectives: 1) international and military 2) political 3) social and economic and 4) cultural and intellectual. These perspectives will enable the student of history to study the past, understand the present and explore the future through contemporary historical methods. Students who enroll in this course **will be expected to take the A.P. Exam at the completion of the course.**

INTERNATIONAL RELATIONS - U

Credit: 0.50

Elective: Juniors, Seniors

Prerequisite: Instructor approval

In today's world, no nation acts in isolation. Decisions made by one nation's leaders - about agricultural production, regulation of industry, or military expenditures - can have a dramatic effect on other nations. The interdependence of nations makes the study of international relations complex and ever changing. This course will help students understand why nations compete, why they cooperate, and why they sometimes go to war.

PSYCHOLOGY - U

Credit: 0.50

Elective: Juniors, Seniors

Prerequisite: Instructor approval

This semester course is an introduction to human behavior and a survey of selected topics. A student will become familiar with the vocabulary and concepts of personality development, the human life cycle, states of consciousness, and stress and mental disorders. Some of the issues covered in this course will include child abuse, sleep and dreams, the brain and perception, personality theories, major mental disorders and criminal profiling.

PSYCHOLOGY II - U

Credit: 0.50 (Dual Credit JJC)

Elective: Juniors, Seniors

Prerequisite: Successful completion of Introduction to Psychology

This course is a continuation of the introductory course. Students will examine more topics in human development, brain studies and neuroscience, animal studies, and memory. Further topics will include human relationships, coercion, and brainwashing, the power of emotions, and forensic (criminal) psychology.

SOCIOLOGY - U

Credit: 0.50

Elective: Juniors, Seniors

Prerequisite: None

The study of human social behavior is the focus of this introductory course. This course is also designed to stimulate the sociological imagination so students can better perceive how the pieces of society fit together, and what that means for their own lives. This course will help make today's multicultural, global society come alive for the student. From the international elite dividing up global markets to the intimacy of family, friendship, and the social institutions, the student can see how sociology is the key to understanding modern life and his or her own role in it.

BUSINESS

ACCOUNTING I - U

Credit: 0.50

Elective: Juniors, Seniors

Prerequisite: None

This course provides students with a background in basic financial accounting procedures and principles. The class covers concepts including analyzing business transactions, worksheets, calculating depreciation, taking inventory, types and forms of businesses, taxes, and preparing financial statements. This course is an excellent choice for students who anticipate entering into business-related fields in the future.

BUSINESS LAW - U

Credit: 1.00

Elective: Juniors, Seniors

Prerequisite: None

This course studies our American legal system and the basics of contract law. Students will learn about civil and criminal law and the rights and responsibilities of the individual and minor including renting property, purchasing an automobile, marriage and retirement. Case laws are reviewed and mock trials will be performed in class. Principles discussed are applicable to personal as well as business use; so non-business students wanting to acquire more knowledge about the law are strongly encouraged to enroll.

GENERAL BUSINESS - U

Credit: 1.00

Elective: Juniors, Seniors

Prerequisite: None

This course provides background information for students interested in business subjects and serves as an introduction to the real world. Areas covered include our economy, types of business ownership, marketing, saving and investing options, government spending, preparing resumes, interviewing, and banking functions. The Computer Center is also utilized for various student presentations.

MARKETING - U

Credit: 0.50

Elective: Juniors, Seniors

Prerequisite: None

Students will be introduced to the most current topics in marketing including the world of marketing, economics as it relates to marketing, selling, promotion, distribution and pricing of a product, marketing information management, product and service management, entrepreneurship and finance. Class projects will be utilized to emphasize marketing goals and product planning.

COMPUTER SCIENCE

COMPUTER APPLICATIONS - U

Credit: 0.50

Required: Freshmen (fulfills graduation requirement)

Prerequisite: None

Students report to the Computer Center daily to extend their proficiency in Microsoft Word, Excel and PowerPoint. Students will also learn research skills as well as how to use an online research database. They will also use various Web 2.0 tools to extend proficiency in writing skills, photo and video publishing skills, working with music and study skills.

COMPUTER APPLICATIONS II - U

Credit: 0.50

Elective: Juniors, Seniors

Prerequisite: Completion of Computer Applications I

This course will begin where Computer Applications I ended and is geared toward students interested in working in an office environment after high school. Students will learn more advanced office skills using Microsoft Word, Excel, and PowerPoint. Students will also be introduced to Google Docs and various Web 2.0 tools.

MULTIMEDIA DESIGN - U

Credit: 0.50

Elective: Juniors, Seniors

Prerequisite: "B" or better in Computer Applications and teacher approval

This semester course provides instruction and assignments in both print and digital design. Multimedia assignments provide students an opportunity to demonstrate their learning of course content through the creation of multimedia learning objects using such formats as video, audio, still images and text. Assignments include the creation of short video documentaries, digital stories, digital essays, and other types of multimedia presentations. Students present their ideas for peer and/or instructor critique, research with sources, reflect upon and communicate their perspective on what they've learned, and use the appropriate tools to structure their assignments.

ENGLISH

ENGLISH I - A

Credit: 1.00

Required: Freshmen

Prerequisite: Administrative Placement

In this course, students will enhance their reading and vocabulary skills to prepare for upper level courses by reading and studying two novels, poetry, and two Shakespearean plays, as well as other modern and traditional classic literature. They will review grammar, mechanics and usage in order to refine their writing. Students will practice effective writing as they compose paragraphs and analyze literature.

ENGLISH I - U

Credit: 1.00

Required: Freshmen

Prerequisite: Administrative Placement

This course concentrates on introducing literary genres, such as the novel, poetry, mythology, and Shakespearean drama. Library skills, vocabulary, and grammar review are emphasized. Writing will emphasize the development of sentences into clear, logical paragraphs through narrative, descriptive, persuasive, and expository modes of writing.

ENGLISH I - C

Credit: 1.00

Required: Freshmen

Prerequisite: Administrative Placement

This course includes the fundamentals of grammar and writing, a review of study skills and library orientation. Reading activities include mythology, poetry, drama and a novel. Student writing activities will emphasize the development of correct sentence structure and paragraph writing.

READING I - C

Credit: 1.00

Required: Freshmen by assignment

Prerequisite: Administrative Placement

This course is designed for students who do not meet expected levels of achievement in reading and who require a review or a complete re-learning of unmastered skills. Placement is determined by the reading scores from the JCA Placement Exam and junior high school reports. Students enrolled in English I - C are usually enrolled in this course in place of a foreign language.

ENGLISH II - H

Credit: 1.00

Required: Sophomores

Prerequisite: Grade of "A" or "B" in English I - A and placement by previous English instructor

This course includes literature, grammar, speech, and composition and builds upon skills developed in English I. It involves a study of grammar usage and punctuation and the writing of themes. Literature includes several literary genres.

ENGLISH II - U

Credit: 1.00

Required: Sophomores

Prerequisite: Placement by previous English instructor

This course includes the study of grammar usage, punctuation, speech and the development of writing. The course includes vocabulary within the study of several literary genres including short stories, non-fiction, novels, and Shakespeare.

ENGLISH II - C

Credit: 1.00

Required: Sophomores

Prerequisite: Placement by previous English instructor

This course covers grammar usage, punctuation, speech, and writing fundamentals along with comprehension of literature including short stories, non-fiction, novels, and Shakespeare.

READING II - C

Credit: 1.00

Required: Sophomores

Prerequisite: Placement by previous Reading I-C instructor

This course is designed to complete the Reading I sequence by teaching reading skills and strategies. Individual choice of books gives practice in daily reading, writing about reading, and interpreting reading. Students enrolled in English II - C are usually enrolled in this course in place of a foreign language.

A.P. U.S. GOVERNMENT AND POLITICS - H

Credit: 0.50

Required: Seniors

Prerequisite: A.P. U.S. History or Junior level U.S. History instructor

This A.P. U.S. Government and Politics course will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. All students enrolled in this course will **be expected to** take the A.P. exam. Students must pass the Illinois and U.S. Constitution tests as a graduation requirement.

U.S. GOVERNMENT - H

Credit: 0.50

Required: Seniors

Prerequisite: Placement by Junior level U.S. History instructor

This course deals with the theory, structure and function of our American government. Particular attention is given to our Federal and State Constitutions. Students are made aware of their rights and duties as citizens of the United States. An emphasis on inquiry and interpretation of pivotal court cases and their impact on current government policies. Students must pass both the Illinois and U.S. Constitution tests as a graduation requirement.

U.S. GOVERNMENT - U

Credit: 0.50

Required: Seniors

Prerequisite: Placement by Junior level U.S. History instructor

This course deals with the theory, structure and function of our American government. Particular attention is given to our Federal and State Constitutions. Students are made aware of their rights and duties as citizens of the United States. Students must pass both the Illinois and U.S. Constitution tests for graduation.

U.S. GOVERNMENT - C

Credit: 0.50

Required: Seniors

Prerequisite: Placement by Junior level U.S. History instructor

This course deals with the theory, structure and function of our American government. Particular attention is given to our Federal and State Constitutions. Students are made aware of their rights and duties as citizens of the United States. Students must pass both the Illinois and U.S. Constitution tests for graduation.

A.P. MICROECONOMICS - H

Credit: 0.50

Required: Seniors

Prerequisite: A.P. U.S. History or Junior level U.S. History - H

This course will allow students to creatively discover the workings of our economic system. During the semester students will learn the key fundamentals enabling them to become better consumers. Students will investigate the concepts of supply and demand, cost benefit analysis when making decisions, the ten principles of economics, individual and governmental taxation practices/policies, production costs, structures including competitive/noncompetitive, labor and capital markets, as well as an in depth look at how the financial market works. In addition, students will utilize current events to compare and contrast economic events from the past and provide possible future outcomes. This class is designed and taught in a manner that will prepare students for the Advanced Placement Exam in May which all are expected to take.

ECONOMICS - H

Credit: 0.50

Required: Seniors

Prerequisite: Placement by Junior level U.S. History instructor

This course introduces fundamental economic concepts such as scarcity, economic systems, market structures, GDP, inflation, unions, federal budgets and taxation. Other basic concepts include the functions performed by an economic system and the way the tools of supply and demand can be used to analyze a market economy.

ECONOMICS - U

Credit: 0.50

Required: Seniors

Prerequisite: Placement by Junior level U.S. History instructor

This course aims to provide an understanding of our private enterprise system as it relates to the individual. In the American economic system, decision making is shared by consumers, producers and governments. Students will acquire a background which will equip them to make informed and intelligent decisions.

SOCIAL STUDIES

WORLD HISTORY - A

Credit: 1.00

Required: Freshmen

Prerequisite: Administrative Placement

This course takes a chronological approach to examine key periods in the history of the world from the earliest human communities to the very recent past. Cultural, economic, political, intellectual and geographic concepts are emphasized. Special attention is paid to the themes of both change and continuity over time.

WORLD HISTORY - U

Credit: 1.00

Required: Freshmen

Prerequisite: Administrative Placement

In this course, the development of civilization is traced from the ancient Middle East to the latter half of the twentieth century. Special emphasis is placed on the common elements that cultures have shared over time as well as the diversity that has made each civilization unique.

WORLD HISTORY - C

Credit: 1.00

Required: Freshmen

Prerequisite: Administrative Placement

In this course, selected periods of world history are examined in chronological sequence, beginning with the ancient Middle East through World War II. Special attention is paid to reoccurring themes and geographical differences throughout the world. Emphasis is placed on understanding characteristics and values of each time period and relating how these concepts affect the world today.

A.P. U.S. HISTORY - H

Credit: 1.00

Required: Juniors

Prerequisite: Placement by Sophomore level English teacher (**Demonstrated exemplary writing and reading comprehension skills and strategies**)

This course is designed to prepare students to take the Advanced Placement exam for U.S. History. Students are expected to demonstrate the highest levels of reading, writing, thinking, speaking and research skills. Special emphasis is placed upon historiography and an examination of the craft of the historian. All students enrolled in this course will **be expected** to take the A.P. exam.

U.S. HISTORY - H

Credit: 1.00

Required: Juniors

Prerequisite: Placement by Sophomore level English instructor

This course is a chronological examination of the events and developing themes which mark the history of the United States of America. Students are challenged to attain high levels of research, writing conceptualization and understanding.

U.S. HISTORY - U

Credit: 1.00

Required: Juniors

Prerequisite: Placement by Sophomore level English instructor

This course is designed to cover the traditional periods, major themes and achievements within a chronological frame. The course begins with the movement of people to the Americas and ends with an evaluation of the current administration and world affairs.

U.S. HISTORY - C

Credit: 1.00

Required: Juniors

Prerequisite: Placement by Sophomore level English instructor

This survey course is designed to cover the traditional periods, major themes and achievements of the American people within a chronological frame. It emphasizes development of study skills within the context of the course.

A. P. ENGLISH III - H

Credit: 1.00

Required: Juniors

Prerequisite: Grade of "A" or "B" in English II-H and placement by previous English instructor

Students will focus on rhetoric and composition, writing in several forms (narrative, expository, analytical, and argumentative essays) about a variety of subjects. A rhetoric and composition textbook will be used in addition to an American Literature textbook. Students enrolled in this course will **be required to** take the Advanced Placement exam in Rhetoric and Composition.

ENGLISH III - H

Credit: 1.00

Required: Juniors

Prerequisite: Grade of "A" or "B" in English II-H and placement by previous English instructor

This course is designed to teach the following: chronological development of American literature, critical thinking skills, vocabulary skills and writing and research skills. Students will study novels in addition to the assigned literature text. A variety of writing assignments will be submitted in addition to a research paper on a literary topic.

ENGLISH III - U

Credit: 1.00

Required: Juniors

Prerequisite: Placement by previous English instructor

This course is designed to cover chronological development of American literature, application of grammar and vocabulary skills, and writing on literary topics. A variety of writing assignments will be required to develop the student's analytical writing skills.

ENGLISH III - C

Credit: 1.00

Required: Juniors

Prerequisite: Placement by previous English instructor

This course is a survey of American Literature from the formation of the colonies through modern times. Emphasis will be placed on practicing and improving critical thinking and writing skills, recognizing literary elements, and improving grammar and vocabulary.

A.P. ENGLISH IV - H

Credit: 1.00

Required: Seniors

Prerequisite: Grade of "A" or "B" in English III-H and placement by previous English instructor

Students will learn to read both poetry and prose with greater facility, with an eye towards the interpretation of specific texts and an understanding of the diction, structure and style of each work's author. Five works are assigned for summer reading. Students will write themes, and a research paper is a course requirement. Students enrolled in this course will **be required to** take the Advanced Placement exam in English.

ENGLISH IV - H

Credit: 1.00

Required: Seniors

Prerequisite: Grade of "A" or "B" in English III-H and placement by previous English instructor

This course focuses on the history and development of British literature from Anglo-Saxon to modern times. British poetry, drama and novels will be studied. Students will analyze literature for character and thematic development. A research paper is a course requirement and multiple independent and group projects.

ENGLISH IV - U

Credit: 1.00

Required: Seniors

Prerequisite: Placement by previous English instructor

This course includes a study of British literature from Anglo-Saxon to modern times, including the historical and linguistic background. Great examples of British poetry, drama and novels will be read. Writing will cover literary analysis, research and persuasive essays. A research paper is a course requirement.

ENGLISH IV - C

Credit: 1.00

Required: Seniors

Prerequisite: Placement by previous English instructor

This course examines highlights in British literature: the epic, the play, poetry, satire, and a novel. Through the study of literature and vocabulary building, writing clarity and reading comprehension are emphasized. A research paper is a course requirement.

JOURNALISM / NEWSPAPER - U**Credit:** 1.00**Elective:** Juniors, Seniors**Prerequisites:** 1. Previous experience writing for the school paper or English instructor's recommendation
2. Submission and acceptance of a writing portfolio with examples of news, feature and editorial writing
3. Journalism/Newspaper instructor's approval

In this two semester course, students will further develop their writing skills in areas of news, feature, sports and opinion writing. They will analyze additional news articles and related audio visual materials. In addition, they will learn to interview people, proof-read, edit, and revise stories. Furthermore, they will learn basic principles of design, layout and photo cropping by employing Adobe software to produce *The Victory View*. During production weeks, students are required to spend two additional sessions outside of class time. Students are strongly urged to take desktop publishing during their junior year. Students will also learn to maintain the school news website with The Victory View articles, as well as articles from outside reporters. Work will be required to be completed outside of class as well as attendance at extracurricular events.

JOURNALISM / YEARBOOK - U**Credit:** 1.00**Elective:** Juniors, Seniors**Prerequisite:** Journalism/Yearbook instructor's approval

Students will work together on a daily basis to produce the school yearbook. Focus will be on photography, digital photography, reporting, writing and computer use. During the class period, students will layout and design the yearbook on the computer and produce appropriate graphics and photographs. Students are encouraged to have desktop publishing experience.

LITERATURE OF THE HOLOCAUST - U**Credit:** 0.50**Elective:** Juniors, Seniors**Prerequisite:** Enrollment in the previous year's/semester's U or above level of English and course instructor's approval

This course will concentrate on the profound accounts of victims and survivors of Nazi persecution. Using fiction and memoirs, students will examine the significance of human suffering, the consequences of apathy, and the meaning of the Holocaust in today's world.

THE SHORT STORY - U**Credit:** 0.50**Elective:** Juniors, Seniors**Prerequisite:** None

This course gives students the opportunity to study a variety of short stories through the application of the essential literary elements (theme, character, setting, conflict, etc.). Reading, critical thinking, writing, and discussion will be the primary aspects of this course.

FINE ARTS ~ PERFORMING ARTS**BAND - U****Credit:** 1.50**Elective:** All years (fulfills performing arts graduation requirement)**Prerequisite:** Skill and previous experience playing a band instrument.

This course is open to any student who plays a band instrument (wind, brass or percussion). Students must be proficient with an instrument and must be able to read music. **This group will perform in a minimum of two major concerts per semester.** The first semester will focus on a combination of marching/pep band and concert band. The second semester will include concert band (theory, playing and conducting), jazz band, soloistic playing, and small ensemble playing. Pep band is still available to participate but not a requirement. A variety of compositions will be played and there will be several performing venues (football games, basketball events, concerts, etc). Please note: Freshmen and sophomore band members will meet during D2/4B. Junior and senior band members will meet during E2/5B. All band members will meet for a full period during the school day. Freshmen and sophomore band members may have to postpone taking their P.E., health and computer courses until their junior or senior year.

BEGINNING HANDBELLS - U**Credit:** 0.50**Elective:** Sophomores (fulfills performing arts graduation requirement)**Prerequisite:** None

In this introductory course, the student will learn music fundamentals through the ringing of handbells. Proper bell technique and ensemble ringing will be taught through a variety of literature. **Students will perform in one major concert at the end of the semester.**

CHEMISTRY - C**Credit:** 1.00**Elective:** Sophomores, Juniors, Seniors**Prerequisite:** Algebra I - C, Biology-C and instructor approval

This course provides a basic overview of Chemistry. It emphasizes the basic concepts of molecules and structure dealing with application and problem solving. Laboratory work will be utilized to verify concepts and applications.

A.P. PHYSICS - H**Credit:** 1.00**Required:** Juniors, Seniors**Prerequisite:** "B" or above in Honors Chemistry and instructor approval. Successfully completed or currently enrolled in Algebra II/Trigonometry - H or Algebra II - H

AP Physics is an algebra-based Physics course that is equivalent to an introductory college-level physics course. AP Physics explores topics such as: Newtonian mechanics, work, energy, rotational mechanics, power, mechanical waves and sound, and even simple circuitry. Through lectures, independent study, inquiry-based exercises, and lab work (25%), students will develop their ability to think critically using the six "Big Ideas" that have recently been redeveloped by the AP college board to not only explore scientific theories, but also cross traditional lines in student's thinking about the world around us.

PHYSICS - H**Credit:** 1.00**Required:** Sophomores, Juniors**Prerequisite:** "B" or above in Honors Chemistry and instructor approval; successfully completed or currently enrolled in Algebra II/Trigonometry - H or Algebra II - H

A physical science concerned with the relationship between matter and energy. The goal of this course is to explain the physical universe in terms of its basic interactions. Particular emphasis is placed on the development of theories/principles, problem solving, and demonstrations and experiments. Areas of study with laboratory experience will include: classical mechanics, heat, waves, sound, light, electricity and magnetism, and nuclear physics.

PHYSICS - U**Credit:** 1.00**Elective:** Sophomores, Juniors, Seniors**Prerequisite:** Algebra II - U, "C" in Chemistry-U and instructor approval

A physical science concerned with the relationship between matter and energy. The goal of this course is to explain the physical universe in terms of its basic interactions. Particular emphasis is placed on conceptual development, demonstrations and experiments. The course also stresses the application of physics in everyday life. Areas of study with laboratory experience will include: classical mechanics, heat, waves, sound, light, electricity, magnetism, relativity and nuclear physics.

PHYSICS - C**Credit:** 1.00**Elective:** Juniors, Seniors**Prerequisite:** Biology -C and Chemistry-C and instructor approval

This course is designed for those students that have already completed Biology-C and Chemical Issues-C/Chemistry-C. It is a combination of Physics, Earth and Space Science. Lab work will be utilized to reinforce concepts and principles.

EARTH & SPACE SCIENCE - U**Credit:** 1.00**Elective:** Seniors**Prerequisite:** None

This is an integrated science class covering geology, weather, astronomy and environmental science issues.

HUMAN ANATOMY and PHYSIOLOGY - U**Credit:** 1.00**Elective:** Juniors, Seniors**Prerequisite:** "C" or above in Chemistry - U or Physics - U, or instructor approval

This course provides a comprehensive study of human systems, their origin, structure and function. Laboratory investigations include several representative dissections to further illustrate the relationship between structure and function.

HUMAN BIOLOGY - U**Credit:** 1.00**Elective:** Seniors**Prerequisite:** Grade of "C" or above in Physics-C or instructor approval

This course introduces students to the sciences of anatomy and physiology. The student will study the human body's internal and external structures and the body's functions. Students will leave the course with a firm grasp of how their bodies function in both health and disease.

SCIENCE

A.P. BIOLOGY - H

Credit: 1.00

Elective: Juniors, Seniors

Prerequisite: Grade of "B" or above in Biology -A, Chemistry - H & Physics - H and Algebra II - H or above and instructor approval

This class is designed to prepare seniors for the A.P. biology exam. Topics covered include cell biology, biochemistry, energy reactions, ecology, molecular genetics, population genetics, diversity, evolution, and plant and animal structure and function. Labs are designed to meet A.P. biology requirements, introducing students to techniques and reasoning appropriate to a college level course. Students should be prepared to arrive at school during the zero hour (7:00-7:45 a.m.) periodically to begin lab experiments that cannot be completed in the traditional 45-minute class period. All students enrolled will be **expected** to take the A.P. exam.

BIOLOGY - A

Credit: 1.00

Required: Freshmen

Prerequisite: Administrative Placement

This course offers a phylogenetic approach to the study of molecular and cellular biology. This leads to an understanding of the continuity of characteristics of offspring by hereditary determinations, which gives meaning to organic variation and scientific classification. It includes a hands-on laboratory course dealing with various topics, as well as a methods course to acquaint students with the use of the microscope, balance, and other scientific instruments.

BIOLOGY - U

Credit: 1.00

Required: Freshmen

Prerequisite: Administrative Placement

This relevant and vital course in the study of life includes such topics as: microbiology, biochemistry, genetics, natural selection, cell structure and function, principles of heredity, evolution, classification of organisms, and characteristics of moneran, protist, fungi, plants and animals. Laboratory investigations pertinent to each topic area are used to stress scientific principles.

BIOLOGY - C

Credit: 1.00

Required: Freshmen, Sophomores

Prerequisite: Administrative Placement

This course is a practical study of the characteristics and functions of living things. The class emphasizes current knowledge, processes which keep organisms alive, and ecological relationships between organisms. Topics include: cell, plant and animal structure functions, microbiology, classification of organisms, bacteria, viruses and disease, animal behavior, genetics, reproduction, evolution and human anatomy. Pertinent laboratory investigations are used to stress scientific principles.

A.P. Chemistry - H

Credit: 1.00

Elective: Seniors

Prerequisite: Grade of "A" or "B" in Chemistry - H, Physics-H and Pre-Calculus-H and instructor approval

In this course students will apply chemical principles and investigate those principles by independent research, observations, methods and measurements; they will be able to verify and justify characteristic structures, functions and interdependence of matter and energy. Students should be prepared to arrive at school during the zero hour (7:00-7:45 a.m.) periodically to begin lab experiments that cannot be completed in the traditional 45-minute class period. All students enrolled will be **expected** to take the A.P. Chemistry exam.

CHEMISTRY - H

Credit: 1.00

Required: Freshmen, Sophomores

Prerequisite: Accelerated Biology - I, Algebra II - U or above (completion of or current enrollment in) and instructor approval

This course emphasizes basic chemistry principles and scientific reasoning. Labs are used to reinforce concepts and to allow students to discover some principles by "doing." Material covered includes atomic structure, bonding, properties of elements and compounds, theories underlying reactions, nuclear chemistry and introductory organic chemistry.

CHEMISTRY - U

Credit: 1.00

Required: Freshmen, Sophomores, Juniors, Seniors

Prerequisite: Freshmen & Sophomores: Accelerateds Biology I and instructor approval
Juniors and Seniors: Algebra II - U or above (completion of or current enrollment in) and instructor approval

This course emphasizes laboratory experimentation to illustrate ideas and concepts discussed in the text and class. The student discovers that scientific ideas and facts arise from experimentation. Fundamental principles presented are energy, reactions, molecular structure, chemical bonding of solids, liquids and gases, atomic structure, chemical periodicity and nuclear chemistry.

INTERMEDIATE HANDBELLS - U

Credit: 0.50

Elective: Juniors, Seniors

Prerequisite: Beginning Handbells Class

This course is the second step in the handbell curriculum where students will be introduced to intermediate handbell techniques and continue the study of music theory. Performance opportunities will be provided for school and community events. **Students will perform in one major concert at the end of the semester.**

ADVANCED ENGLISH HANDBELLS - U

Credit: 0.50

Elective: Juniors, Seniors

Prerequisite: Intermediate or Advanced Handbells

This performance course is for the student with handbell, choral or instrumental experience. Advanced handbell techniques and literature will be studied. **This group will perform for various school and community events and one major concert at the end of the semester.**

GUITAR - U

Credit: 0.50

Elective: Sophomores (fulfills performing arts graduation requirement)

Prerequisite: None

This is an elective course for guitarists with or without experience on the instrument. Students who already play will have the opportunity to fine tune their skills while beginners will be exposed to a new music form. Students will learn chords, melody playing, accompaniment techniques, and a variety of playing techniques and styles, including fingerstyle and pickstyle. The course will also include music fundamentals, theory, songs, performances, listening, improvising, and learning to read standard music notation and tablature. Students will either need to bring their own guitar or use one of the classroom guitars. There will be one large performance at the end of the semester. There is a mandatory field trip for this course.

MUSIC APPRECIATION - U

Credit: 0.50

Elective: Sophomores (fulfills performing arts graduation requirement)

Prerequisite: None

This course is designed for the student who wants an overview of music. Many phases of music will be studied: note and rhythm reading, recorders, keyboards, singing, history, instruments, musical theater, handbells, and styles of music.

MUSIC THEORY - U

Credit: 0.50

Elective: Sophomores, Juniors, Seniors (fulfills performing arts graduation requirement)

Prerequisite: Some prior knowledge of music is recommended.

This non-performance music class will teach students to analyze music and to write it. The course is designed to provide students with the tools and concepts to analyze, compose and listen to music. Writing music will be emphasized in this class. This class is for the music students interested in learning the more technical aspects of music, in writing music, and in pursuing music in college.

TAPESTRY - U

Credit: 1.00

Elective: Sophomores, Juniors, Seniors (fulfills performing arts graduation requirement)

Prerequisite: Proficiency audition/instructor approval

This advanced singing performance course is open to any student with previous music experience and necessary music skills. There will be a heavy emphasis on performing through singing and some opportunity to ring handbells. **A variety of performances will be scheduled throughout the year including one major concert at the conclusion of each semester.**

THEATRE ARTS - U

Credit: 0.50

Elective: Sophomores, Juniors, Seniors (fulfills performing arts graduation requirement)

Prerequisite: None

This course provides a positive learning experience for each student through the study of theatre. Students will learn a brief history of theatre, attendance etiquette, theatre critique, developing characterization, stage movement, vocal techniques, directing, and developing a full production. There will be small performances throughout the semester during the class. There is a mandatory field trip as well.

VOCAL SKILLS SINGING CLASS - U

Credit: 0.50
Elective: All years (fulfills performing arts graduation requirement)
Prerequisite: None

This is a hands on elective course for students who wish to learn how to sing and/or improve their individual singing skills. No singing experience is needed. Students will learn proper vocal technique, styles of singing, vocal warm-ups, be exposed to vocal literature and be given the opportunity to work on songs as individual projects. This is not a group performance class, but designed for individual work on singing. Those with singing experience will work on improving their vocal skills and learn a variety of vocal literature.

WORLD MUSIC - U

Credit: 0.50
Elective: Sophomores (fulfills performing arts graduation requirement)
Prerequisite: None

The world music course will study the cultures and music from the African countries, the west Indies, Latin America, etc. This course is a performance course where students will learn how to play instruments that are native to the countries that are being studied. There will be small performances in class and a mandatory field trip assignment.

FINE ARTS ~ VISUAL ARTS

2-D DESIGN - U

Credit: 0.50
Elective: Sophomores (fulfills visual arts graduation requirement)
Prerequisite: None

In this beginning level course **non-representational** work will be created. Students will become acquainted with terminology as well as techniques, and will use basic art media such as cut paper, colored pencils, markers and ink.

3-D DESIGN - U

Credit: 0.50
Elective: Sophomores (fulfills visual arts graduation requirement)
Prerequisite: None

This beginning level course teaches 3-D design and sculpture through the use of a variety of materials including clay, paper, wood and metal. Students will learn to use the appropriate tools and finishing techniques for each material used. The course will involve both additive and subtractive sculpture techniques.

COMPUTER DESIGN - U

Credit: 0.50
Elective: Juniors, Seniors
Prerequisite: "B" average in Drawing & Painting or 2-D Design, instructor approval

This second level course may be taken after either Drawing and Painting I or 2-D Design. The students will be introduced to using photography as a medium. Adobe Photoshop will be used to edit, alter, and enhance original photographs and artwork. Access to a digital camera is suggested, but not required.

DRAWING and PAINTING - U

Credit: 0.50
Elective: Sophomores (fulfills visual arts graduation requirement)
Prerequisite: None

This beginning level course teaches basic drawing skills as well as design theory. It includes **realistic drawing** with pencils and ink, painting with watercolor and tempera, and value studies in pencil.

DRAWING II - U

Credit: 0.50
Elective: Juniors, Seniors
Prerequisite: "B" average in Drawing and Painting and instructor approval

This second level course may be taken after Drawing and Painting I. The emphasis is on increased drawing skills with the use of pencils, pastels and ink. A variety of subjects will be explored including the human form.

GRAPHIC DESIGN - U

Credit: 0.50
Elective: Juniors, Seniors
Prerequisite: "B" average in Drawing and Painting I or 2-D Design and instructor approval

This second level course may be taken after either Drawing and Painting I or 2-D Design. Students will learn how to apply the Elements and Principles of Design learned in their first level class to commercial design. Students will use Adobe Illustrator to focus on computer graphics, product advertising, illustration and layout design.

STATISTICS - U

Credit: 1.00 (Dual Credit)
Elective: Seniors
Prerequisite: Algebra II - U, Grade of "C" or above and instructor approval

This class is a first course in Statistics focusing on mathematical reasoning and the solving of real-life problems. Topics include both descriptive and inferential statistics. A background of mathematics through Algebra II is essential for the course. A graphing calculator is required. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

PHYSICAL EDUCATION

PHYSICAL EDUCATION FROSH/SOPH - U (separate classes for boys and girls)

Credit: 0.50
Required: Freshmen, Sophomores (fulfills graduation requirement)
Prerequisite: None

This course stresses the importance of learning through the total development of each student in a wide variety of sports and exercises. Students will participate in a program with emphasis on fundamental skills, self-control, teamwork, and knowledge of each sport and activity.

PHYSICAL EDUCATION JR/SR - U (separate classes for boys and girls)

Credit: 0.50
Elective: Juniors, Seniors
Prerequisite: FROSH/SOPH Physical Education

This course is designed to help students begin, continue, and supplement their lives with a life-long program of physical fitness. Students will participate in a program of activities with emphasis on teamwork, sportsmanship, knowledge and self-esteem. **This course can be taken only once during the junior or senior year.**

HEALTH - U

Credit: 0.50
Required: Sophomores (fulfills graduation requirement)
Prerequisite: None

This course deals with a variety of topics which stress the advantages of living a healthy lifestyle. Topics studied and discussed will deal with such issues as nutrition, drugs, body systems, and mental and social health. The students will work on various individual and group projects with emphasis on decision making and alcohol and tobacco abuse.

FIRST AID - U (co-ed classes)

Credit: 0.50
Elective: Juniors, Seniors
Prerequisite: FROSH/SOPH Physical Education, instructor approval

The first nine weeks of this course will be devoted to learning the concepts of sports injuries i.e. sprains, fractures, dislocations; and ways to prevent injuries, psychological aspects of injuries and nutritional aspects of performance. The second nine weeks will be devoted to learning what type of injuries occur to specific regions of the body i.e. head, neck, shoulder, leg and foot. In addition, how to assess and treat the injury. Also, students will be learning basic techniques of the ankle and wrist. This will be a classroom course. After school observation hours in the training room will be expected of all students. Homework and reading will be assigned. Written and practical exams will be utilized as student assessment instruments. Guest speakers and possible field trips will be used to support and supplement the instruction provided by the classroom teacher.

STRENGTH TRAINING - U (co-ed classes)

Credit: 0.50
Elective: Juniors, Seniors
Prerequisite: FROSH/SOPH Physical Education, instructor approval

This course is designed for students who wish to improve their muscular strength and endurance. Each student will discover physical fitness through weight training and cardiovascular conditioning. Students will help design a program to fit his/her specific needs. They will chart their personal progress and will gain knowledge on the latest developments in training. **This course can be taken only once during the junior or senior year. Note: Students cannot be enrolled in this course and be engaged in weight training at a private gym simultaneously.**

A.P. CALCULUS - H**Credit: 1.00****Elective: Seniors****Prerequisite: Pre-Calculus - H, grade of "B" or above, or Pre-Calculus - A, grade of "B+" or above, or Algebra II/Trig. - H, grade of "A" all with instructor approval**

This course offers a solid background in differential and integral Calculus to the mathematically talented student. Techniques and applications are emphasized, and proofs are also discussed. The course covers all necessary topics of the "AB" A.P. Calculus test. All students enrolled in this course will **be required to** take the A.P. exam. A graphing calculator is required for the course. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

CALCULUS - H**Credit: 1.00****Elective: Seniors****Prerequisite: Pre-Calculus - H, grade of "C" or above, Pre-Calculus - A, grade of "B" or above, or Pre-Calculus - U, grade of "A" all with instructor approval**

This course offers a solid background in differential and integral Calculus. Techniques and applications are emphasized, while proofs are briefly discussed. A graphing calculator is required for the course. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

PRE-CALCULUS - H**Credit: 1.00 (Dual Credit)****Elective: Sophomores, Juniors, Seniors****Prerequisite: Algebra II/Trigonometry - H or Algebra II - H, and department invitation**

This course, designed for the mathematically talented student, offers a solid foundation for a further study of math, such as Calculus, vector analysis, complex variables and abstract algebra. Understanding of ideas and concepts is stressed, along with additional computational skills. A graphing calculator is required for the course. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

PRE-CALCULUS - A**Credit: 1.00 (Dual Credit)****Elective: Sophomores, Juniors, Seniors****Prerequisite: Algebra II - H, grade of "C" or above and instructor approval**

This course places an emphasis on the study of various functions, trigonometry and its applications, analytic geometry, mathematical induction, vectors, polynomial and transcendental functions, along with other mathematical topics. Upon successful completion of this course, a student should be adequately prepared to continue any required college math course. A graphing calculator is required for the course. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

PRE-CALCULUS - U**Credit: 1.00 (Dual Credit)****Elective: Seniors****Prerequisite: Algebra II - U, grade of "C" or above and instructor approval**

This is a one year, senior level math course. The topics studied are basic functions, as well as rational, exponential, logarithmic, trigonometric and circular. Applications of trigonometry and some analytic geometry are also included. Upon successful completion of this course, a student should be well prepared to continue with any required math course in college. A graphing calculator is required for the course. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

A.P. STATISTICS - H**Credit: 1.00 (Dual Credit)****Elective: Seniors****Prerequisite: Pre-Calculus - H, grade of "B" or above, or Pre-Calculus - A, grade of "B+" or above, or Algebra II/Trig. - H, grade of "A" all with instructor approval**

This is a one year, senior level course for the mathematically talented student. Topics studied include exploratory analysis, planning a study, probability, and statistical inference. Technology and application are emphasized. The course covers all necessary topics for the A.P. Statistics test. All students enrolled in this course will be required to take the A.P. exam. A graphing calculator is required for the course. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

STATISTICS - H**Credit: 1.00 (Dual Credit)****Elective: Seniors****Prerequisite: Algebra II/Trigonometry -H or Algebra II-H, Grade of "C" or above and instructor approval**

This course offers a solid background in mathematical reasoning to the academically talented student. Emphasis is placed on the interpretation and practical analysis of real life problems. Topics include both descriptive and inferential statistics. A background of mathematics through Algebra II/Trigonometry-H or Algebra II-H is essential for the course. A graphing calculator is required. (TI-83 - PLUS or TI-84 PLUS is strongly recommended).

JEWELRY/WEAVING I - U**Credit: 0.50****Elective: Sophomores (fulfills visual arts graduation requirement)****Prerequisite: None**

This beginning level course applies design elements and principles to create both metal and fiber artwork. Projects will involve designing, execution and finishing techniques unique to the media used. Finished work could be functional or decorative.

JEWELRY/WEAVING II - U**Credit: 0.50****Elective: Juniors, Seniors****Prerequisite: "B" average in Jewelry/Weaving I and instructor approval**

These courses are a continuation for those who have taken Jewelry/Weaving I. **Students must be capable of independent work.** These courses require a basic understanding of the techniques used in metal and fiber work. The students will continue working on the looms, using more advanced processes. The metal work could include riveting, soldering and centrifugal casting.

JEWELRY/WEAVING III- U**Credit: 0.50****Elective: Juniors, Seniors****Prerequisite: "B" average in Jewelry/Weaving I and instructor approval**

These courses are a continuation for those who have taken Jewelry/Weaving I. **Students must be capable of independent work.** These courses require a basic understanding of the techniques used in metal and fiber work. The students will continue working on the looms, using more advanced processes. The metal work could include riveting, soldering and centrifugal casting.

POTTERY DESIGN I - U**Credit: 0.50****Elective: Juniors, Seniors****Prerequisite: "B" average in 3-D Design and instructor approval**

This second-level course may be taken after 3-D Design. The course deals with the handbuilding methods of pinch, coil, soft slab, hard slab and carving. Students work directly with the clay and are introduced to the potter's wheel. They are also taught the correct methods for glaze application.

POTTERY DESIGN II - U**Credit: 0.50****Elective: Juniors, Seniors****Prerequisite: "B" average in Pottery Design I and instructor approval based on work from Pottery I**

This is a second semester of pottery for those who have taken the first. This course requires basic mastery of the potter's wheel while throwing bowls and closed forms or pitchers and mugs. Students will continue to refine hand-building techniques by creating functional and decorative pieces.

POTTERY DESIGN III - U**Credit: 0.50****Elective: Juniors, Seniors****Prerequisite: "B" in Pottery Design II and instructor approval based on work from Pottery II**

Third semester pottery for those who have completed Pottery II. Students will do advanced work on potters wheel and explore sculptural methods with hand building techniques. Students must be capable of working independently.

STUDIO ART - H**Credit: 1.00****Elective: Juniors, Seniors****Prerequisite: "B" average in Drawing II and instructor approval**

This is a full year of art for those who have taken Drawing II. Students will experience working with sculpture and will improve their skills with dry and water-based media. Students will be assisted in developing a portfolio. There will be an "A" set of projects and a "B" set of projects, which will alternate each year. The course may be repeated for credit.

MATHEMATICS

The Mathematics Department's description of Honors level math courses at JCA: Honors courses progress at a very fast pace covering the greatest breadth and depth of topics. Students are expected to have mastered the skills and thoroughly understood the concepts covered in prior courses. They are expected to have retained this past knowledge, which will generally not be reviewed in the course. Mathematical concepts are often introduced at an abstract and theoretical level. New ideas are sometimes developed through student investigation with minimal guidance from the teacher. Students will be expected to apply their knowledge to open-ended and non-routine problems. Students will sometimes be expected to learn material by reading the textbook and/or solving problems on their own. Typical classes include minimal review of homework and previously covered material. Students are expected to be highly self-motivated, taking the fullest responsibility for their own learning and seeking help when needed. The course is designed to meet the needs of a student who thrives in a more independent learning environment.

ALGEBRA I - A

Credit: 1.00
Required: Freshmen
Prerequisite: Administrative Placement

This course includes the study of real numbers, both rational and irrational. Operations of polynomials are presented along with careful study of graphing solution sets of open sentences in two variables. Functions and quadratic equations are also studied. The "why and the how" of Algebra are surveyed in this course.

ALGEBRA I - U

Credit: 1.00
Required: Freshmen
Prerequisite: Administrative Placement

This course is intended as a traditional Algebra I course and serves as a basis for all further high school math studies. This course includes the study of real numbers, both rational and irrational. Operations of polynomials are presented along with careful study of graphing solution sets of open sentences in two variables.

ALGEBRA I - C

Credit: 1.00
Required: Freshmen
Prerequisite: Administrative Placement

This course includes all the essential topics studied in Algebra I, including operations, the real number system, equations and inequalities with application and factoring trinomials. The study of rational expressions, graphing, and systems of equations are also included. Numerous examples and exercises are employed to ensure each student with the opportunity for success. Upon completion of the course, students are prepared for further advanced math courses.

ALGEBRA I, PART A - C

Credit: 1.00
Required: Freshmen
Prerequisite: Administrative Placement

This course is the first year of a two-year Algebra I course. It will provide students with the first half of the fundamentals of a standard one-year course. Since this course extends over a two-year period, it allows for a more intense emphasis on fundamental Algebra I topics. Taking both parts, A and B, this course will satisfy two of the three required math credits needed for graduation, however, it fulfills only one college admission credit.

GEOMETRY - H

Credit: 1.00
Required: Freshmen, Sophomores
Prerequisite: Sophomores: Algebra I - A, grade of "C" or above and instructor approval
Freshmen: Successful completion of Advanced Math Placement Exam and associated prerequisites, or for eighth graders who were enrolled in JCA's Algebra I - A class, with a grade of "C" or above and instructor's approval

This course begins with an introduction to the basic concepts and encompasses all the conventional topics included in an Euclidean geometry course. It provides a rigorous and in-depth approach to covering geometric ideas and formal proofs as well as enhancing logical thinking and creativity.

GEOMETRY - U

Credit: 1.00
Required: Sophomores
Prerequisite: Algebra I - U, grade of "C" or above and instructor approval

This course is intended as the second required course in math for the majority of students. It is the traditional treatment of Euclidean Geometry and is designed to develop clear thinking, as well as understanding of basic Geometry concepts.

GEOMETRY - C

Credit: 1.00
Required: Sophomores, Juniors
Prerequisite: Algebra I - C or Algebra I (Part A and B) - C and instructor approval

This course provides students with the basic concepts of Geometry in a step-by-step approach and meets the standards set by the National Council of Teachers of Mathematics. The course is designed for students who need extra assistance grasping new concepts, and provides an instructional approach that places an increased emphasis on various learning styles. Algebra review sections are used to reinforce skills needed for this course and future courses.

ALGEBRA I, PART B - C

Credit: 1.00
Required: Sophomores
Prerequisite: Algebra I (Part A) - C and instructor approval

This course is the second year of a two-year Algebra I course. It provides students with the second half of the fundamentals of a standard one-year course. Since this course extends over a two-year period, it allows for a more intense emphasis on fundamental Algebra I topics. Taking both parts, A and B, this course satisfies two of the three required math credits needed for graduation; however, it fulfills only one college admission credit.

ALGEBRA II/TRIGONOMETRY - H

Credit: 1.00
Required: Sophomores, Juniors
Prerequisite: Geometry - H and Department invitation

This course solidifies Algebra I concepts and introduces new ones: including complex numbers, series and sequences, exponential and logarithmic functions, trigonometric and circular functions, matrices and determinants, some concepts in analytic geometry, and an introduction to probability and statistics. The concept of function plays an extremely prominent role. The course offers a solid foundation for advanced high school and college math courses. A graphing calculator is required for the course. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

ALGEBRA II - H

Credit: 1.00
Required: Sophomores, Juniors
Prerequisite: Geometry - H, grade of "C" or above, and instructor approval

This course expands concepts covered in Algebra I and develops a deeper understanding, while introducing more advanced algebra topics including complex numbers, series and sequences, exponential and logarithmic functions, matrices and determinants, some analytic geometry concepts, and an introduction to probability and statistics. This course lays a solid foundation for more advanced high school and college math courses. A graphing calculator is required. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

ALGEBRA II - U

Credit: 1.00
Required: Juniors
Prerequisite: Algebra I - U and Geometry - U, grade of "C" or above in both courses and instructor's approval

This course, designed as a requirement for the majority of students, contains a review of Algebra I concepts and introduces more advanced ideas including complex numbers, exponential and logarithmic functions, and some Analytic Geometry. Providing drill in mathematical concepts through problem solving, it offers a solid foundation for advanced high school and college math courses. A calculator is required. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

ALGEBRA II - C

Credit: 1.00
Required: Juniors
Elective: Seniors
Prerequisite: Geometry - C and instructor approval

This course reviews and broadens Algebra I. It introduces more advanced topics through abundant examples and exercises, including complex numbers, exponential and logarithmic functions and some analytic geometry. Real life applications stress the value of algebra through problem solving. Upon completion of this course, students will be prepared to progress to courses involving concepts in higher mathematics. A calculator is required. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).

ALGEBRA III - C

Credit: 1.00
Elective: Seniors
Prerequisite: Algebra II - C and instructor approval

This course is intended for those students who began high school math on the college level and desire to take a fourth year in math. It strives to increase math skills in problem solving involving linear, quadratic, and exponential functions, and provides a review of the fundamental properties and operations utilizing numerical investigations as a base. A graphing calculator is required for this course. (The TI-83 PLUS or TI-84 PLUS is strongly recommended).