



# **MATER DEI CATHOLIC HIGH SCHOOL**

## **2024 - 2025 CURRICULUM GUIDE**

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## **MATER DEI CATHOLIC HIGH SCHOOL MISSION STATEMENT**

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Mater Dei, a Catholic diocesan regional high school,  
nurtures the spiritual, moral, intellectual, emotional,  
and social growth of young men and women.

In a caring environment,  
respectful of individual differences,  
her comprehensive program educates,  
fosters faith, and develops gospel values.

## **PHILOSOPHY**

Mater Dei Catholic High School is a regional Catholic school affiliated with the Roman Catholic Diocese of Belleville. Mater Dei is located in the midst of a cluster of small towns in an agriculturally-oriented part of southern Illinois on the outer edge of metro-St. Louis. The community is predominantly German Catholic and generally supportive of Mater Dei.

Rooted in Catholic belief and tradition, Mater Dei believes that every person is a unique manifestation of God's creative love. Through Baptism, we have a unique Christian identity, and through identification with Jesus, we can realize our potential. Mater Dei accepts the responsibility, complementing that of parents and parishes, to foster faith and to develop values based on Gospel truths.

Mater Dei recognizes the basic goodness and dignity of each person and respects the uniqueness, including gifts and limitations, of each individual. Since we believe in each person's potential and responsibility for growth, the school provides a variety of opportunities to integrate the spiritual, intellectual, social, aesthetic, and physical aspects of the student through curricular and extracurricular programs.

Mater Dei is a caring community of students and parents, faculty and staff. Because we believe that people develop best in relationship with others, we continue to place a high priority on respect, cooperation, and friendliness. Most essential is a climate in which faith and values are freely communicated and lived.

In our attempt to help prepare students for their future as mature and responsible Christian adults, Mater Dei strives to provide quality academic and vocational programs suited to the talents and needs of each. These programs are designed in relation to the background and future plans of the student.

Mater Dei encourages a conscious and active faith that leads the student to ongoing personal growth and involvement within the life of the Church. Recognizing the Christian community's apostolic role in the world, we educate the student to a reverence for all life, to an awareness of the needs of the global community, and to a commitment to the values of peace and justice expressed in understanding, compassion, and service.

# **OBJECTIVES**

## **Faith Objectives**

1. To instill in each student a sense that he/she is a unique manifestation of God's love.
2. To provide students with a knowledge of the beliefs and morals of the Catholic Church.
3. To help students experience the value of personal prayer as an integral part of Christian life.
4. To prepare students to take an active part in parish worship.
5. To develop a working relationship with parishes in the area.

## **Personal Objectives**

1. To acknowledge the limitations and to identify, articulate, affirm, and nurture the gifts of each student.
2. To develop well-integrated young adults.
3. To encourage self-discipline.
4. To foster a desire for continual renewal of the spiritual, social, intellectual, and physical dimensions of each student.

## **Community Objectives**

1. To encourage mutual respect among faculty members, among students, and among faculty and students.
2. To encourage mutual support and cooperation in all areas.
3. To celebrate diversity which enriches and enlivens the community.
4. To develop a spirit of graciousness.
5. To foster Christian leadership and witness to faith and values.

## **Academic Objectives**

1. To nurture intellectual development according to individual talents, needs, and abilities.
2. To develop the ability to think critically and creatively.
3. To enable students to communicate effectively.
4. To prepare students with the academic background necessary for post-secondary education or immediate entry into the workplace.
5. To instill an appreciation for mental discipline and lifelong learning.

## **Service Objectives**

1. To instill a sense of Christian discipleship through service to others.
2. To infuse a respect for all life as a gift from a generous God.
3. To heighten awareness of the global community and foster respect for all cultures.
4. To help students appreciate their own cultural environment within the context of a broader world perspective.
5. To inculcate the values of peace and justice.
6. To foster compassion through understanding.
7. To raise awareness of the uncomfortable tension that should exist in the life of a comfortable Christian.

# **GUIDANCE SERVICES**

## **Guidance and Counseling Services**

The purpose of the guidance and counseling program is to assist each student in making realistic and satisfying decisions about his/her present and future life, academically, personally, spiritually, and vocationally. The guidance program is uniquely structured to meet these diverse needs. There are three distinct groups that make up the Guidance and Counseling Services department. The academic advisor is a teacher assigned to each class who will assist students in their course selections and scheduling as well as monitor their academic progress. The Campus Ministry personnel comprise the second part of the guidance and counseling services. The Campus Ministry program seeks to foster spiritual growth of the faculty and students by sponsoring various opportunities and activities throughout the school year. The third member of the Guidance and Counseling program is the college placement counselor. The college placement program attempts to enable students to make satisfying vocational choices through a variety of individual and group activities. Awareness of the occupational world is fostered through career seminars and an array of reference books and current periodic literature. Information, guidance, and assistance are available for students preparing for entrance tests and applying for college, financial aid, and scholarships. The Guidance office is responsible for the administration of all standardized testing, including the PSAT 8/9 high school placement test, PRE-ACT, PSAT and ACT college entrance tests.

## **Campus Ministry**

Campus Ministry seeks to coordinate a total youth ministry reflecting the Vision Statement on Youth Ministry developed by the United States Catholic Conference. This ministry fosters personal and spiritual growth and seeks to draw young people to responsible participation in the life, mission, and work of the faith community.

The first concern of Campus Ministry is the individual student. One-on-one interaction with students and networking with a variety of helping agencies provide students with assistance when needed. In crisis situations, referrals are made through the Student Assistance Program.

Since Church is a community of individuals with different gifts, Campus Ministry programs challenge students to develop their unique talents. Campus Ministry especially strives to involve those students who are not active in any other co-curricular or extracurricular program. Leadership training and retreat facilitating are primary avenues for this type of growth.

The spiritual life of the students is enhanced by prayer and worship experiences. All-school Masses, sacramental celebrations, and prayer services are coordinated by Campus Ministry. Students have the opportunity to be involved in the planning, singing, and ministering at these services. Training is provided for Eucharistic Ministers, Lectors, and Ministers of Hospitality. Students who take part in Liturgy planning learn the basics of good liturgy.

In addition to prayer and worship, all students are provided with a day of retreat each year. These retreats are facilitated by young adults who have been specially trained and travel throughout the United States sharing their ministry.

Advocacy - Campus Ministry provides a comfortable atmosphere for students to air feelings and frustrations. The Campus Ministers, as much as possible, listen and seek to bring issues and concerns of young people to the appropriate office or agency.

Enablement of Youth - Campus Ministry seeks to provide opportunities for personal growth and leadership. Its Peer Ministry program enables young people to reach out and be present to their classmates in crisis situations. Liturgical trainings enable young people to take a more active role in the parish. Other programs develop skills and talents beneficial to youth.

## **ACADEMIC INFORMATION**

Mater Dei Catholic High School is fully accredited by the Diocese of Belleville, State Board of Education, and by the Cognia. Credits earned at the school are accepted at any college or university in the United States. Mater Dei Catholic High School is an institutional member of the National Catholic Educational Association and a member of the Illinois High School Association.

### **Graduation and Course Requirements**

Students are required to have 24 units of credit including theology for graduation. These include 4 credits in theology (4 years), 4 credits in English (4 years), 3 credits in math, 2 credits in science, 2 credits in social studies including American history, ½ credit in consumer education, ½ credit in public speaking, ½ credit in fine arts and three weeks of a Senior Service Project in January of the senior year. For the P.E. requirement students must engage in physical education daily. Participation in marching band waives the P.E. requirement. Students may waive P.E. in grades 11 and 12 for the following reasons: 1) to participate in an interscholastic athletic program, 2) to enroll in an academic class required for admission to an institution of higher learning, or 3) to enroll in an academic class required for graduation from high school. Physical education in grades 9 or 10 will include one semester of health. Students must also pass a test on the U.S. Constitution, Illinois Constitution, flag, voting procedures, and Declaration of Independence to graduate.

To receive credit from Mater Dei Catholic High School for a class taken at another institution while enrolled at Mater Dei, the student must first seek approval from the principal.

Curriculum requirements for college admission may exceed high school graduation requirements. It is the responsibility of the student to select coursework to meet his/her specific goals.

### **Grading System**

A student will receive a letter grade for each academic course. The standard scale is as follows: A = 100 - 93, B = 92 - 85, C = 84 - 77, D = 76 - 70, F = 69 - 0. The honors scale, utilized for courses the Faculty Council has deemed accelerated, is as follows: A = 100 - 91, B = 90 - 83, C = 82 - 75, D = 74 - 68, F = 67 - 0.

For the purpose of determining a grade point average, the following quality points are assigned: A=4, B=3, C=2, D=1, and F=0. A semester grade is calculated by counting each quarter grade as 2/5 of the final grade and the semester exam as 1/5 of the final grade.

Incompletes may be given at the end of the first and third quarters. The time limit given for make-up work is at the discretion of the teacher. Driver's Education class is not awarded credit. A P (pass) or NP (not passed) is indicated on the report card to show completion of the class.

### **Grade Point Average and Rank in Class**

Grade point average and rank in class are based on the semester grades. The total quality points are divided by the number of credits taken. This accumulative grade point average determines class rank with the averages arranged in descending order. The student with the highest grade point average (G.P.A.) ranks first, etc. All course offerings are counted in the grade point average except driver education. Rank in class is one criteria used by most colleges and some employers in judging the eligibility of a student or an employee.



### **Registration Procedures and Schedule Changes**

Freshman registration takes place in February and upperclass students register in March. Prior to that time, students should review the *Curriculum Guide* and discuss possible course selections with their teachers, class advisor, and parents. Recommendations are made for all students in English, math, science, and foreign language. For upperclass students, the registration form is marked accordingly and a parent signature is required. It should be noted that some courses may be dropped due to enrollment or availability of appropriate personnel. Any changes in course selections requested after July 1 are not guaranteed. A \$5 fee is charged for changes made after August 15.

### **Honors Classes - Requirements and Procedures**

Honors classes are offered at Mater Dei Catholic High School to provide additional challenge to the academically talented. Students are recommended for honors classes. For incoming freshmen, recommendations are made by each department chairperson using primarily the placement test scores and grade school teachers' recommendations. Upperclassmen are recommended by teachers based on their academic performance, motivation, self-discipline and sense of responsibility. The specific criteria will vary from department to department. The number of honors classes is dependent on student needs.

Students wishing to enroll in honors classes who were overlooked or not selected can speak with their class advisor. The class advisor will discuss the change with the teacher of their current class in that curricular department and then discuss the matter further with the student. In general, the honors class will move at a considerably faster pace, will study material in more depth than regular classes, and will require advanced critical thinking and problem solving. Other specific differences can be found in the course descriptions given in each department.

### **Report Cards and Deficiency Notices**

The school year is divided into four grading periods and a report card is issued at the end of each quarter. Midway through each quarter midterm reports will be sent through the Parent PlusPortal for all students in all classes. Students and parents are encouraged to discuss the report card and midterm notices. If there are questions, parents are urged to contact the teacher. Conferences and/or staffings are arranged as needed.

### **Parent-Teacher Conferences**

Parent-teacher conferences are scheduled at the end of the first and third quarters. Parents are requested to pick up their son or daughter's report card in the office during the conference hours for the first quarter. The third quarter report card can be printed from the portal prior to attending conferences. Teachers are available for a brief discussion of student progress. If a lengthy meeting is needed, arrangements can be made for another convenient date.

### **Failures**

If a student fails a semester of a course that is required for graduation, that semester must be repeated. If the failed course is not required for graduation, then it is not necessary for the student to retake the class. No credit is awarded for failed classes.

Due to the cumulative nature of skills needed in mathematics and foreign language courses, unique procedures apply to failures in these departments. Two situations are possible if a semester is failed.

**Situation 1:** If a student fails the first semester but passes the second semester, the student does not have to repeat the first semester. A full credit is received for the year course, but the F remains on the transcript for the first semester.

**Situation 2:** If a student passes the first semester but fails the second semester, 0.5 credit is given for the first semester only. The first semester may be audited before repeating the second semester.

## **Academic Assistance**

### **Peer Tutoring**

A student who needs additional academic assistance may request that his/her teacher or class advisor arrange peer tutoring, which is provided by members of National Honor Society during school-wide study halls.

### **RTI**

A student whose quarter average falls below 74% is placed in RTI (Response to Intervention). While in RTI, the student meets with the teacher to receive additional assistance.

### **Resource Teacher**

A resource teacher provides one-on-one assistance to students needing additional instruction.

## **Honor Roll**

An honor roll is published at the end of each quarter and semester based on a student's GPA for each specific grading period. To attain 'High Honors,' students must have an average of 3.8 on a 4.0 scale. To attain 'Honors,' students must have an average of 3.5 on a 4.0 scale. Only students taking at least five academic courses, including religion, are considered for the honor roll.

## **Summer School**

One or more classes may be offered during the summer at Mater Dei or another area high school. Specific courses will be determined by the needs of the students. A separate tuition fee will be charged and the amount of the fee will vary depending on the class. In order to be cost effective, it will be necessary to set minimum enrollments.

Before taking a class at another institution, a student must seek approval from the principal to receive Mater Dei credit for the course taken.

## **Student Records and Transcripts**

Official records are maintained at Mater Dei Catholic High School. In accordance with section 438 of the U.S. Public Law 93-380 known as the Family Education Rights and Privacy Act of 1974, and the Illinois School Student Record Act of 1975 (pursuant to Chapter 122, Article 50, Illinois Revised Statutes 1975), parents and students have the right to inspect and review all official school records directly related to their children and must, with certain exceptions, (Buckley Amendment, dated June 17, 1976), give written consent if any information is released by the school. The permanent records are kept for a period of 60 years, while the students' temporary records are destroyed one year after the student has transferred or graduated or otherwise permanently withdrawn from our school. This is our official public notice concerning records and their destruction.

## **Computer Literacy**

It is the goal of Mater Dei that all graduates will be computer literate, will know and respect software copyright legislation, and will appreciate computers as valuable tools. In order to achieve these goals, all Mater Dei students are given access to and are instructed in the use of a personal computer. As freshmen, students are assigned individual email and network accounts and are introduced to the school-wide network, research-oriented electronic databases, and additional technology platforms utilized at Mater Dei. Transfer students are accommodated on an individual basis. A number of electives dealing with more specific computer skills are available to non-freshmen. All faculty members have access to the computer labs and are encouraged to incorporate computer use in ways appropriate to their classes.

### **Nondiscriminatory Policy**

Mater Dei Catholic High School, Breese, Illinois, admits students of any race, color, national and ethnic origin to all the rights, privileges, programs and activities generally accorded or made available to students at the school. It does not discriminate on the basis of race, color, national and ethnic origin, in administration of its educational policies, admissions policies, scholarship and local programs, and athletic and other school-administered programs.

### **Kaskaskia College Dual Credit**

Kaskaskia College and Mater Dei Catholic High School have partnered to offer Mater Dei students an opportunity to experience the academic rigor of college course work and to earn college credit while still enrolled at Mater Dei. Specifically, for applicable courses offered through Mater Dei, students will earn credit at Mater Dei and at Kaskaskia College. Each dual credit course will have its own requirements for student enrollment. Mater Dei will have the final decision on a student's placement.

There are no additional fees associated with this program. Kaskaskia College will issue the transcript for all college credit earned through this program. It will be the responsibility of the student to request the Kaskaskia College transcript when entering other colleges or universities.

The following courses will be offered for dual credit for the 2024-2025 school year:

Accounting Principles	General Psychology
Advanced Computer Applications	Introduction to Music in America
CEO - Creating Entrepreneur Opportunities	Life Span Growth and Development
Chemistry II	Residential Electricity
CNA - Certified Nurse Assistant	Spanish 101
Early Child Development	Spanish 102
English Composition 101	Speech 103
English Composition 102	Weightlifting and Conditioning

### **Activities** (G – girls, B – boys)

ACES	Chess Club	Liturgical Music Group	Softball
Art & Photography Club	Chorus	Liturgical Planning	Spanish Club
Bands	Color Guard	National Honor Society	Spring Musical
Baseball	Cross Country G-B	Newspaper Staff	Student Ambassadors
Basketball G-B	Fall Play	Peer Tutors	Student Council
Bass Fishing	FBLA	Retreats	Teens for Life
Book Club	FFA	St. Vincent De Paul	Track G-B
Bowling G-B	Football	Scholar Bowl	Volleyball
Cheerleading	Golf G-B	Science Club	Yearbook Staff
	Homecoming	Soccer G-B	

## **TESTING PROGRAM**

PSAT 8/9 is utilized as the placement test for eighth-grade students who plan to attend Mater Dei Catholic High School. The test results are used by department chairpersons in the recommendation process and can assist students in making realistic course selections. The test covers English, math, reading, and science reasoning.

PRE-ACT is an assessment administered to all sophomores. PRE-ACT has a dual purpose. It provides students and their parents with detailed information needed to build solid educational and career goals. It includes a study skills assessment, interest inventory, and a section for student-reported needs, plans, and goals. PRE-ACT will also help students prepare for the ACT college entrance test by measuring skills in American College Testing, the same company that produces the ACT College Placement Test. Scholarship qualification as well as college entrance is partially determined by the ACT test results along with high school grade point average (GPA) and class standing.

PSAT/NMSQT is given to sophomores and juniors in October. It measures knowledge and skills in reading, writing, and math. A sufficiently high score on a test taken in junior year can qualify a student for a National Merit Scholarship.

ACT is a college entrance test. Mater Dei is a national testing site for the ACT, offering the test on a Saturday in December and April.

ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB) is available to juniors or seniors interested in military service. It is a useful vocational interest inventory for any student and is applicable to many civilian occupations and career fields.

## COURSE SUMMARY

<u>THEOLOGY</u>				<u>SCIENCE (CONT.)</u>						
141/142	Theology I	9		574/575	Intro to Engineering		11	12		
143/144	Theology II	10		580/581	Agricultural Science	9	10	11	12	
145/146	Theology III		11	582	Agricultural Business Mgt.		10	11	12	
147/148	Theology IV			583	Animal Science		10	11	12	
149/150	Theology FFP			584	Soil Science		10	11	12	
				585	Agronomy		10	11	12	
				586	Horticultural Prod. & Mgt.		10	11	12	
<u>ENGLISH</u>										
209/210	English I	9								
253/254	English IA	9								
225/226	English I H	9		650/651	Spanish I	9	10	11		
212/213	English II		10	652/653	Spanish II	9	10	11	12	
255/256	English IIA		10	640/641	Spanish 101		10	11	12	
227/228	English II H		10	642/643	Spanish 102			11	12	
229/230	English III		11							
257/258	English IIIA		11							
245/246	English III H		11							
203	Short Lit II		12	701	Intro to Networking			11	12	
239	English Lit		12	702	Intro to Coding			11	12	
241	Effective Writing		12	742	Consumer Economics			11	12	
242	Methods of Writing		12	746	Marketing			11	12	
248	Speech		11	747	Computer Applications		10	11	12	
251	English Comp 101		12	751	Advanced Computer Apps.		10	11	12	
252	English Comp 102		12	756	Business Law				12	
				758	Small Business Mgt.				12	
				760-761	CEO				12	
				767/768	Accounting Principles				11	12
				771	Web Page Design				11	12
				780	Office Assistant					12
<u>SOCIAL STUDIES</u>										
302/303	World History		10							
307	American Government	9								
310/311	American History		11							
312/313	AP American History		11							
321	Modern American History		12	801/802	Concert Band	9	10	11	12	
335	Rules for Life (Females)		12	876/877	Jazz Band – “9 <sup>th</sup> Period”	9	10	11	12	
336	Rules for Life (Males)		12	809	Video & Sound Production		10	11	12	
337	Early Child Development		12	813	Intro to Music in America			11	12	
339	Life Span Growth & Devel.		12	815/816	Noon Chorus	9	10	11	12	
340	General Psychology		12	878/879	Percussion Ensemble	9	10	11	12	
341	Current World Issues		12	861	Art Graphics	9	10	11	12	
342	Global Studies		11	862	Drawing & Design	9	10	11	12	
				863	Ceramics	9	10	11	12	
				865	Advanced Ceramics		10	11	12	
				866	Advanced Drawing & Design		10	11	12	
				867	Portfolio				12	
410/411	Algebra I	9		873	Printmaking	9	10	11	12	
415/416	Algebra I Honors	9		864	Painting	9	10	11	12	
425/426	Essentials of Algebra I	9								
440/441	Geometry	9	10							
442/443	Geometry Honors		10							
444/445	Essentials of Geometry		10							
462/463	Algebra II Honors		11	831/832	Basic Shop I			11	12	
464/465	Essentials of Algebra II		11	835/836	Basic Shop II				12	
466/467	Algebra II		11	828/829	Drafting			11	12	
468/469	Algebra II & Trig. Honors	10	11	850-853	Building Trades I			11		
491/492	Precalculus		11	854-857	Building Trades II			12		
479	Finite Math		12	880-883	Residential Electricity				12	
482	Trigonometry		11							
483	Statistics		11	868	Sewing I			11	12	
494/495	Calculus		12	869	Sewing II			11	12	
				872	Culinary Arts: Foods to Faith			11	12	
<u>SCIENCE</u>										
524/525	Physical Science A	9								
503/504	Physical Science	9		900	Driver Education	9	10			
505/506	Physical Science Honors	9		901	Summer Driver Education	9	10			
514/515	Earth Science		11							
520/521	Chemistry		11							
522/523	Chemistry Honors		11							
533	Chemistry II		12	911	Health	9				
526/527	Biology A	10		910/912	Physical Ed I M	9				
545/546	Biology	10		916/917	Physical Ed I F	9				
547/548	Biology Honors	10		920	Physical Ed II M		10			
555	Biology II		12	925	Physical Ed II F		10			
552/553	Physics		12	932	Physical Ed III			11		
558/559	Physics Honors		12	935/936	Weightlifting & Cond.		10	11	12	
557	Anatomy & Physiology		12	942	Physical Ed IV				12	
564/565	Medical Terminology		11							
566/567	Certified Nurse Assistant		11		Released-Time Program				12	

## COURSE DESCRIPTIONS

**NOTE: Courses marked with an \* are NCAA-approved courses.**

### THEOLOGY

#### **141 Theology I**

**Freshmen**

**1 semester**

**1/2 credit**

**Jesus Christ: The Living Word, The Revelation of God's Love:** This course provides students with a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible, they will encounter the living Word of God, Jesus Christ. They will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. 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.

#### **142 Theology I**

**Freshmen**

**1 semester**

**1/2 credit**

**Theology of the Body:** This course allows students to develop a greater understanding of and respect for our human sexuality. Christian values and morality will serve as the foundation for this holistic growth and development.

#### **143 Theology II**

**Sophomores**

**1 semester**

**1/2 credit**

**Jesus Christ, God's Love Made Visible:** This course introduces students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. Through this course, students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who Jesus is, the students will also learn who he calls them to be.

#### **144 Theology II**

**Sophomores**

**1 semester**

**1/2 credit**

**The Paschal Mystery:** This course helps students understand all that God has done for us through his Son, Jesus Christ. Through this course, students will learn that 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 life as a disciple entails.

#### **145 Theology III**

**Juniors**

**1 semester**

**1/2 credit**

**The Church, Our Story:** This course helps students understand that in and through the Church, they encounter the living Jesus Christ. Students will come to understand what the Church is and what the Church's role is. As well as coming to understand the purpose of the Church's design, students will also learn what the Church has looked like and how it has operated through human history. This course will also delve into the Church's origin and how the Catholic Church traces its authority back to Christ himself. The students will come to know that the Church is the living Body of Christ today; a body that has both divine and human elements.

### **146 Theology III**

**Juniors**

**1 semester**

**1/2 credit**

**Meeting Jesus in the Sacraments:** The sacraments of the Church are “visible signs of invisible grace”. This course aims to show the purpose of the sacraments through the teaching of the Church. Students will come to understand that they can encounter Christ today, in a full and real way, in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail to develop an understanding of the specific grace God bestows to Christians and how that grace will fortify one to live a life of holiness.

### **147 Theology IV**

**Seniors**

**1 semester**

**1/2 credit**

**Your Moral Life in Christ:** In this course, students will come to encounter the divine purpose of structure and rules that lead to genuine freedom. Drawing on the virtues and the examples of Christ and the saints, students will learn the requisites for living a moral life from a Catholic and biblical perspective. Using contemporary, real-world examples, this class will explore ways to fully live out God’s plans for their lives. The writing of St. Thomas Aquinas will be drawn upon to understand the proper formation of conscience. Using moral dilemmas as practical exercises, students will then be equipped to analyze a situation from an objective standpoint that seeks truth. In order to become true disciples of Christ, students will learn the moral concepts and precepts of the Church that lead to genuine flourishing.

### **148 Theology IV**

**Seniors**

**1 semester**

**1/2 credit**

**Foundations of Catholic Social Doctrine:** This course introduces students to the Church’s social doctrine. In this course, students will learn how Christ’s concern for others, especially the poor, needy, and most vulnerable, is present today in the Church’s social teaching and mission. Focusing on the Cardinal Virtues of Justice and Fortitude, students will learn how disciples of Jesus Christ are called to seek justice for others and to uphold the dignity of the human person in the face of cultural opposition.

### **149/150 Faith Formation Program**

**Seniors**

**1 year**

**1 credit**

**Faith Formation Teacher:** Eligible Seniors will serve as Faith Formation teachers in an elementary classroom in a specifically chosen Faith Formation Program in the surrounding area. There will be an interview required of the student with a Mater Dei Faculty member and the Parish leader (DRE, CRE, Pastoral Associate, etc.). The student will be required to complete the Diocesan Child Protection Training and training to be an Extra Ordinary Minister of the Eucharist. The student will be required to teach religion in an elementary classroom on the days required by the Faith Formation program, preparing daily classroom lesson plans with their implementation. The student will also complete outside reading and reports; attend faculty meetings of the Faith Formation Program. This class is a requirement for graduation in place of or in addition to the senior theology courses.

### **Service**

An essential aspect of our Mission is to provide an opportunity for our students both to learn to serve and to serve to learn. Therefore, in addition to performing service as a school community, our students perform individual service. Through their service experiences, our students develop self-confidence, become aware of the needs of others, and recognize the many ways they can serve others with the talents God has graciously given them.

More specifically, each year, our freshman, sophomore, and junior students complete acts of service aligned with the Corporal Works of Mercy. Our senior students complete a three-week Senior Service Project in January, during which they respond to the needs of others at a variety of locations in Clinton County, the great metro-east area, and St. Louis, including day care centers, schools, hospitals, nursing homes, civil agencies, and social agencies. The Campus Minister assists with coordinating and raising awareness of service options. The Senior Service Project is required by our diocese for graduation.

## **BUSINESS EDUCATION**

### **\*742 Consumer Economics**

**Seniors, Juniors**

**1 semester**

**1/2 credit**

This course fulfills the Illinois requirement for consumer education. The purpose of this course is to develop understanding of consumer economics. Curriculum covered will include banking, housing, insurance, credit, taxes, budgeting, investing, and consumer rights. Economics will be covered including micro and macro economics. Other topics will include monetary and fiscal policies, different economic systems, and the role of global trading.

**This is a required course for graduation.**

### **746 Marketing**

**Seniors, Juniors**

**1 semester**

**1/2 credit**

This course offers a comprehensive overview of the field of marketing. Curriculum covered will include market research, marketing careers, and the marketing mix. Determination of various market segments, based on various types of psychological and social influences on consumer behavior, will be inclusive in this course. Students will be required to actively participate in a group business project. (This course may fulfill a Social Studies credit for some colleges).

### **756 Business Law**

**Seniors**

**1 semester**

**1/2 credit**

This course is designed to develop knowledge of the legal system. Topics include the court system, civil law, criminal law, contract law, torts, and copyright laws. Incorporated into the curriculum will be the various government agencies that regulate and set standards for business and how business ethics is applied to the different aspects of business operations.

### **767/768 Accounting Principles**

**Seniors, Juniors**

**1 year**

**1 credit**

**Dual Credit with KC (3 credit hours)**

This course will study the accounting cycle for the proprietorship and corporation types of businesses. Students will learn to journalize transactions in multicolumn journals and post the entries to ledgers. Students will also perform end-of-fiscal period activities such as preparing work sheets, financial statements, and adjusting and closing entries. Students will also perform accounting activities on the computer using the automated accounting software. This course will qualify for Dual Credit with Kaskaskia College.

### **758 Small Business Management**

**Seniors**

**1 semester**

**1/2 credit**

This course is designed to allow a student to successfully start a small business. Included in the curriculum are marketing and management skills used in the daily operations of the business. Office procedures including basic recordkeeping, pricing theory, promotion, and store layout will be a part of the curriculum. The student will be introduced to employment procedures, employee retention, labor laws and business communications.



## **582 Agricultural Business Management**

**Seniors, Juniors, Sophomores**

**1 semester**

**1/2 credit**

This course is designed to introduce students to main aspects of agricultural business management and how it relates to the United States and world marketplace. Major units of instruction include agribusiness careers, business structures, business plan preparation, agribusiness finances and accounting, basic economic principles, agricultural law, international trade, and commodities. Throughout the course, students will work independently and in small groups to complete assignments intended to create real-life scenarios relating to agriculture and the business practices required to ensure its success. These assignments will also enhance skills in math, reading comprehension, and writing. Improving computer and workplace skills will also be a focus. Finally, although not required, participation in FFA and Supervised Agricultural Experience (SAE) projects is strongly encouraged, as these activities augment the course by providing opportunities for leadership development, career exploration, and reinforcement of academic concepts.

## **760-763 CEO – Creating Entrepreneurial Opportunities**

**Seniors**

**1 year**

**2 credits**

**Dual Credit with KC (3 credit hours)**

“The local business community partners with area schools to create a project-based experience for students by providing funding, expertise, business tours, and one-on-one mentoring. Students visit area businesses, learn from guest speakers, participate in a class business, write business plans, and start & operator their own business. Business concepts learned through the experiential CEO class are critical; the 21<sup>st</sup> century skills of problem-solving, teamwork, self-motivation, responsibility, higher-order thinking, communication, and inquiry are at the heart of a student’s development throughout the course.” (Nick Smith)

## **780 Office Assistant**

**Seniors**

**1 semester**

**1/2 credit**

This course is designed for the student who wishes to pursue an office career after graduation. The student will assist office personnel in photocopying and assembling documents, filing, mailings, and other miscellaneous office jobs.

## **COMPUTER SCIENCE COURSES**

### **701 Introduction to Networking**

**Seniors, Juniors**

**1 semester**

**1/2 credit**

This course provides students a firm background in computer networking. The course covers networking topics including careers in networking, discussions of area networks, wide area networks, protocols, topologies, transmission media, and security.

### **702 Introduction to Coding**

**Seniors, Juniors**

**1 semester**

**1/2 credit**

Introduction to Coding covers a basic introduction to the principles of programming, including algorithms and logic. Students engage in hands-on programming tasks as they write and test their own code using the approaches used those in the field. This course provides a foundation for students wanting to take advanced courses in the field and it incorporates practical skills that can be used immediately.

**747 Computer Applications****Seniors, Juniors, Sophomores****1 semester****1/2 credit**

This course will familiarize students with features of Microsoft's Office suite—Word, Excel, PowerPoint, and Access. Students will follow project exercises from the text and apply their knowledge to lab exercises. A comprehensive lab exercise at the end of each quarter will test a student's knowledge of the programs. Students will also learn basic file maintenance, including creating folders and copying files.

**751 Advanced Computer Applications****Seniors, Juniors, Sophomores****1 semester****1/2 credit****Dual Credit with KC (4 credit hours)**

This course is a continuation of Computer Applications. Students will do text projects using some of the advanced features in Microsoft's Office 2016 which includes Word, Excel, Access, and Power Point. Comprehensive projects will be completed at the end of each quarter. This course will qualify for Dual Credit with Kaskaskia College.

**Prerequisite: Computer Applications****771 Web Page Design****Seniors, Juniors****1 semester****1/2 credit**

This course is designed to teach students proper web page design techniques. The course will also introduce students to the proper procedures to create web pages suitable for course work, professional purposes, and personal use. Students will work from an instructional book and will eventually be able to create web pages on their own. Students will use various web page applications to create different types of web pages.

**DRIVER EDUCATION****900 Driver Education****Sophomores, Freshmen****9 weeks****No credit**

This class is designed to provide the student with the basic knowledge of vehicle operation, traffic laws, and basic maintenance of the vehicle. Vehicle operation will include maneuvering skills as well as skills in cooperating with other drivers. Vehicle maintenance includes service checks normally performed during service station stops. Driving phase of the program will provide students a minimum of six hours of instruction to include highway, expressway, and city driving. The "rules of the road" and the "Illinois Vehicle Code Manual" are used as supplements to the traffic law curriculum.

**901 Driver Education (Summer)****Sophomores, Freshmen****No credit**

This class offers the classroom phase only. Behind-the-wheel driving will take place during the following school year.

## ENGLISH

### **253/254 English IA**

**Freshmen**

**1 year**

**1 credit**

This course is highly individualized in order for students to advance in reading, writing, and study skills according to their levels of performance. This course will cover units of study in fiction, nonfiction, grammar, composition, and vocabulary. Placement in this course is based on test scores and department recommendation.

### **\*209/210 English I**

**Freshmen**

**1 year**

**1 credit**

English I includes the practice and development of all language arts skills. Emphasis is on the integration of grammar and basic composition and reading skills. This course also introduces the student to the major literary genres in fiction and nonfiction. Placement in this class is based on test scores and department recommendation.

### **\*225/226 English I Honors**

**Freshmen**

**1 year**

**1 credit**

This course is designed for the self-motivated student who is advanced in reading and verbal skills. Students will study composition, vocabulary, and major literary genres in fiction and nonfiction. The student is responsible for independent reading throughout the year. The review of grammar and usage is minimal based on the student's proficiency. Since this is an honors class, the pace is accelerated. Placement in this class is based on test scores and department recommendation.

### **255/256 English IIA**

**Sophomores**

**1 year**

**1 credit**

English IIA builds upon the instruction of English IA. It further develops a reading and writing program. This course will continue the study of topics introduced in English IA in an individualized manner. Placement in this class is based on department recommendation.

### **\*212/213 English II**

**Sophomores**

**1 year**

**1 credit**

English II includes a review of grammar skills with further development of composition skills and reading skills. The major literary genres introduced in English I are further developed. Placement in this class is based on department recommendation.

### **\*227/228 English II Honors**

**Sophomores**

**1 year**

**1 credit**

This course is intended for the advanced student. The review of grammar and usage is minimal and is largely the student's responsibility. In-depth analysis of literature and comprehensive composition assignments are required of the honor student. Students are expected and encouraged to work on an independent level. Since this is an honors class, the pace is accelerated. Placement in this class is based on department recommendation.

## PROGRAM SEQUENCE FOR JUNIORS AND SENIORS

NOTE: All students must complete Speech 103. Students in Program II or III may complete Speech 103 junior year or senior year.

### Program I - Developing Ability Level

junior year: English IIIA

senior year: Effective Writing, Short Literature II, Speech 103

### Program II - Proficient Ability Level

junior year: English III

senior year: Methods of Writing, English Literature, Speech 103

### Program III - Skilled Ability Level

junior year: English III Honors

senior year: English Composition 101, English Composition 102, Speech 103

### **257/258 English IIIA**

#### **Juniors (Program I)**

**1 year**

**1 credit**

English IIIA builds upon the instruction of English IA and English IIA. It is highly individualized in order for students to advance their reading and writing skills. The course examines American literature including short stories, poetry, plays, novels, and nonfiction to aid in the study of comprehension and vocabulary. This course strives to develop writing skills for both practical and creative application. Students learn to apply the writing process to varied writing assignments. Placement in this class is based on department recommendation.

### **229/230 English III**

#### **Juniors (Program II)**

**1 year**

**1 credit**

English III builds upon the instruction of English I and English II. The course examines American literature including short stories, poetry, plays, novels, and nonfiction to aid in the study of comprehension and vocabulary. This course strives to develop writing skills for both academic, practical and creative application. Students learn to apply the writing process to varied writing assignments with emphasis on the principles of English grammar, punctuation, and style. Additionally, students will prepare for the ACT. Placement in this class is based on department recommendation.

### **245/246 English III Honors**

#### **Juniors (Program III)**

**1 year**

**1 credit**

English III Honors builds upon the instruction of English I Honors and English II Honors. This course is designed for the self-motivated student who has demonstrated advanced reading and verbal skills, as well as a solid grasp of the mechanics of rhetoric. The course examines American writers of literary eras from Native Americans to the Twenty-First Century. Works studied include poetry, short stories, drama, novels, and nonfiction. Students will analyze the works through class discussion and written literary analysis. Students will also employ the use of logic and argumentation skills through research-based persuasive writing. In addition, students will develop college admissions, descriptive, narrative, and expository essays. Students will also learn to publish their works using multimodal practices such as blogs and websites. Throughout the course, students will refine their grammar and mechanics skills as well as practice for standardized testing. Honors students will be expected to work independently and at an accelerated pace. Placement in this course is based on department recommendation.

**\*233 Short Literature II****Seniors (Program I)****1 semester****1/2 credit**

This course examines English literature in an individualized manner. Students will cover a variety of genres of literature, which includes short stories, poetry, plays, novels, biographies, and autobiographies. Varied writing assignments are included. Placement in this class is based on department recommendation.

**241 Effective Writing****Seniors (Program I)****1 semester****1/2 credit**

This course is designed to develop effective writing and reading skills in an individualized manner. Writing skills will center on summary, description, and life skills (resumes, job applications, and interviews). Placement in this class is based on department recommendation.

**\*239 English Literature****Seniors (Program II)****1 semester****1/2 credit**

This course offers a survey of the history and literature of England from 450 A.D. to the Romantics. It acquaints the student with writers and works of the Western literary tradition. The primary aim of the class is to analyze literature and gain an understanding of the authors in historical context. Requirements include creative, expository, and research writing related to the selections studied in class. Placement in this class is based on department recommendation.

**\*242 Methods of Writing****Seniors (Program II)****1 semester****1/2 credit**

This course is designed to prepare students for college-level writing. Students develop library skills, including the use of online databases for the purpose of research. Essay writing focuses on expository writing, critical analysis of literature, and an argumentative research-based paper with an emphasis on MLA citation practices. An oral presentation is also required. Placement in this class is based on department recommendation.

**\*251 English Composition 101****Seniors (Program III)****1 semester****1/2 credit****Dual Credit with KC (3 credit hours)**

English Composition 101 is an expository essay writing course. This course (1) develops awareness of the writing process; (2) provides inventive, organizational and editorial strategies; (3) stresses the variety of uses for writing; and (4) emphasizes critical skills in reading, thinking, and writing. Students will compose a minimum of 5,000 words, including a literary analysis.

**Prerequisite:** ACT English subscore of 18 or passing score on KC placement test (prior to the start of school) and department recommendation.

**\*252 English Composition 102****Seniors (Program III)****1 semester****1/2 credit****Dual Credit with KC(3 credit hours)**

English Composition 102 focuses on research, argumentative prose and critical analysis. Students develop library skills, including the use of online databases for the purpose of research; master outlining, summarizing, and paraphrasing; and learn to avoid plagiarism through correct documentation. A major component of the course is writing a documented, multi-sourced argumentative essay. Students will compose a minimum of 5,000 words, including a literary essay.

**Prerequisite:** An A, B, or C in English Composition 101.

**\*248 Speech 103****Juniors, Seniors****1 semester****1/2 credit****Dual Credit with KC (3 credit hours)**

This course develops the students' basic speaking skills and emphasizes personal adjustment to the speaking situation. Research and discussion skills will be incorporated. This course fulfills the Mater Dei graduation requirement and provides Kaskaskia College credit.

**FINE ARTS****801/802 Concert Band****Senior, Junior, Sophomore, Freshman Instrumentalists 1 year****1 credit**

This course develops fundamental musical skills through the study and performance of a wide variety of wind band repertoire. Students perform literature from various historical contexts and styles in both large and small ensemble settings. The Concert Band performs in a concert each quarter, in addition to the graduation ceremony. All Concert Band students are required to participate in Marching Band and Pep Band unless granted prior permission from the course instructor.

**876/877 Jazz Band – “9<sup>th</sup> Period”****Senior, Junior, Sophomore, Freshman Instrumentalists 1 semester****1/4 credit**

This instrumental course develops musicianship through the study of improvisation, music theory and various styles of jazz music. This course will meet once a week after school for an hour. Students will perform at a concert every quarter and the occasional community outreach event. Students need to be granted permission from the instructor to take this course due to specific instrument needs.

**809 Video and Sound Production****Seniors, Juniors, Sophomores****1 semester****1/2 credit**

This course will introduce students to the technology used in music business. Over the semester students will learn how to use free software that can be used for podcasts, video making, graphic design, and sound production. The goal of the class is to encourage the use of software that can be utilized in a wide array of career fields in their future.

**813 Introduction to Music in America****Seniors, Juniors****1 semester****1/2 credit****Dual Credit with KC (3 credit hours)**

This course is a dual credit class in conjunction with Kaskaskia College. The course is designed to give a historical survey of the development and major cultural contributions of American music and composers, including classical, jazz and popular forms, within the context of the American culture of the time. There is a research component to the course and includes a 2,500 word research paper. There are no prerequisites for this class.

**815/816 Noon Chorus****Seniors, Juniors, Sophomores, Freshmen****1 semester****1/4 credit**

Noon Chorus meets during all period 4/5 study halls. Goals of this course include music literacy achieved through a systematic approach to reading the rhythmic and melodic vocabulary of printed music and the experience and performance of many styles of choral ensemble literature. Noon Chorus performs at a concert each quarter. All choral performances are mandatory. This course may be taken for a full year.

### **878/879 Percussion Ensemble**

**Seniors, Juniors, Sophomores, Freshmen**

**1 year**

**1 credit**

This course is required for all percussionists who wish to be a part of marching band or concert band. However, the course is open to students who may be interested in learning more about percussion. Throughout the year, percussion ensemble will develop the skills necessary to be a percussionist. Students will learn how to play a wide array of percussion instruments and musical genres. This music will be performed at a concert each quarter. Percussionists who take this course do not need to enroll in concert band. If the student is unable to enroll in this course, they should enroll in concert band after seeking prior approval from the Band Director.

### **861 Art Graphics**

**Seniors, Juniors, Sophomores, Freshmen**

**1 semester**

**1/2 credit**

This first-level course will focus on the creative aspects of using a computer to produce various types of commercial art and graphics. Areas to be coordinated in a layout are the use of lettering, creation of images, and use of digital imaging.

### **862 Drawing and Design**

**Seniors, Juniors, Sophomores, Freshmen**

**1 semester**

**1/2 credit**

This first-level course will introduce the students to the basic elements of drawing from reality. Students will learn to design a composition, illustrate in line, shape and shadow. The students will be introduced to a variety of media to complete a drawing.

### **863 Ceramics**

**Seniors, Juniors, Sophomores, Freshmen**

**1 semester**

**1/2 credit**

This first-level course will introduce the student to basic hand building and glazing techniques. Functional and non-functional design will be explored. Instruction on the potter's wheel will depend on the availability and time allows.

### **865 Advanced Ceramics**

**Seniors, Juniors, Sophomores**

**1 semester**

**1/2 credit**

This second-level course will introduce the student to the pottery wheel and glazing methods. Functional and nonfunctional design will be explored. All pieces will be wheel thrown.

**Prerequisite: 863 Ceramics**

### **866 Advanced Drawing and Design**

**Seniors, Juniors, Sophomores**

**1 semester**

**1/2 credit**

This second-level course will give the student the opportunity to explore further how to draw from reality. The students will also have the opportunity to use computer software as an additional tool to completion of an artwork. This course provides the opportunity to develop a portfolio for college admission or scholarships.

**Prerequisite: 862 Drawing and Design**

### **867 Portfolio of Advanced Art Projects**

**Seniors**

**1 semester**

**1/2 credit**

This second-level course is available for students pursuing a career in art. The student will develop a portfolio of artworks to be presented to colleges for contest, scholarship and admission to college. The students will display portfolios at school activities.

**Prerequisite: 862 Drawing and Design**

### **873 Printmaking**

**Seniors, Juniors, Sophomores, Freshmen**

**1 semester**

**1/2 credit**

This beginner's course introduces students to the production of multiple images from a single design. Emphasis is on design and creative use of the materials and techniques of the relief, monoprint, and silkscreen printing processes. This course covers the distinctive nature of printmaking including tools, inks, paper, plate preparation, registration, printing processes and qualities of prints. The goal is for students to gain the skills and confidence to produce multiple images by hand printing and on a press while exploring personal visual expression. Hand printmaking techniques will engage the student with problem solving in drawing, design, and color.

### **864 Painting**

**Seniors, Juniors, Sophomores, Freshmen**

**1 semester**

**1/2 credit**

This beginner's course introduces the basic elements of painting. Painting offers the student a basic knowledge based upon application of the elements and principles of design completed in the prerequisite course Drawing and Design. In Painting the student will develop skills and techniques in watercolor and acrylic. Projects will focus on two- and three-dimensional painting skills and techniques, color theory, composition, and art styles. Students learn to paint portraits, landscapes, and still-life, and to use texture, pattern, light, and color to create expressive paintings.

**Prerequisite: 862 Drawing and Design**

## **FOREIGN LANGUAGE**

Foreign language courses offer a student the opportunity not only to develop proficiency in a second language, but also to develop an understanding of and appreciation for a second culture. These two components are essential both for living and for working in a multilingual, multicultural world, as they increase one's ability to communicate with a more diverse group of individuals, to travel with greater ease, and to obtain unique opportunities in future employment.

Additionally, most colleges and universities have a foreign language admission requirement of a minimum of two consecutive years of the same foreign language. Some colleges and universities also have a foreign language graduation requirement.

Mater Dei offers four year-long Spanish courses. Because the study of a foreign language requires a level of proficiency in English (comprehension and grammar), initial enrollment in Spanish I requires a department recommendation. Enrollment in each of the subsequent Spanish courses requires a teacher recommendation. (A student who is not recommended for enrollment in a Spanish course may request permission from the Foreign Language Department chair.)

An incoming freshman who has completed the equivalent of a first-year high school Spanish I course may choose to complete the Foreign Language Placement Test, the results of which will determine his/her placement in Spanish I or Spanish II. (Note that students do not receive credit for courses completed in elementary and/or junior high school.) Information regarding the test will be provided at registration.

**Failure Policy:** If a student fails the first semester and passes the second semester, then he/she is not required to repeat the first semester. The F for first semester and the applicable grade for second semester are recorded on the transcript, and one full credit is earned for the year-long course. If a student passes the first semester and fails the second semester, then, the following year, he/she must audit the first semester before repeating the second semester. The applicable grade for first semester and the F for second semester are recorded on the transcript, and 0.5 credit is awarded for the year-long



course (an F earns no credit).

**\*650/651 Spanish I**

**Freshmen, Sophomores, Juniors**

**1 year**

**1 credit**

This course is part one of the two-year basic foreign language program. During the first year the student is introduced to the four basic language skills: speaking, listening, reading, and writing. The student will acquire a practical vocabulary usable in everyday situations and will learn the basic grammatical structures of the language. Internet activities, situational videos, computer software, and a variety of instructional activities will enhance these language skills. Students will work in pairs to develop oral proficiency of the material in each chapter. Thus, a strong commitment is needed by the student to use the language during class. The culture and civilizations of the various peoples will be studied through special presentations, films, and projects. Upon completion, the successful student will be able to express himself or herself on an elementary level in the four language skills, will be able to ask and answer simple questions, and will have an introductory knowledge of culture.

**Prerequisite: Department recommendation**

**\*652/653 Spanish II**

**Freshmen, Sophomores, Juniors, Seniors**

**1 year**

**1 credit**

During the second year course, the student will review the basics of level one and will continue to study and learn the various verb tenses and grammatical structures with much emphasis placed on the acquisition and enrichment of vocabulary. Upon successful completion of the second year of study, the student will be able to converse in limited everyday situations. The course requires students to work in pairs to promote acquisition of the material in each chapter. A strong commitment by the student is needed for success in the course and to gain oral proficiency of the course material. Situational videos, dialogues, Internet activities, and language activities will all develop the acquisition of the language. The study of culture will continue to provide the student with a greater appreciation for the language and its people.

**Prerequisites: Spanish I and teacher recommendation**

**\*640/641 Spanish 101**

**Sophomores, Juniors, Seniors**

**1 year**

**1 credit**

**Dual Credit with KC (4 credit hours)**

This course is designed to continue development of basic communication skills in listening, speaking, reading, and writing Spanish. Students will become acquainted with the people and cultures of the Spanish-speaking areas of the world.

**Prerequisites: Spanish II and teacher recommendation**

**\*642/643 Spanish 102**

**Juniors, Seniors**

**1 year**

**1 credit**

**Dual Credit with KC (4 credit hours)**

This course is a continuation of Spanish 101. This course develops a higher level of listening, speaking, reading, and writing Spanish skills. The course continues to explore the cultures and people of Spanish speaking countries.

**Prerequisites: Spanish 101 and teacher recommendation**

# INDUSTRIAL EDUCATION

## **831/832 Basic Shop I**

**Seniors, Juniors**

**1 year**

**1 credit**

The Basic Shop I class is designed to educate the students on safe and proper usage of woodworking tools while constructing a planned and organized project.

## **835/836 Basic Shop II**

**Seniors**

**1 year**

**1 credit**

The Basic Shop II class includes continued usage of woodworking tools while planning, organizing, and constructing a project at an advanced level.

**Prerequisite: Shop I**

## **828/829 Drafting**

**Seniors**

**1 year**

**1 credit**

This course investigates graphic language. Material covered will include freehand sketching, machine drawings, projections, three dimensional pictorial drawings, and scaled architectural drawings. Also covered in drafting is computer aided drawing (CAD). This would appeal to persons hoping to become drafters, engineers, artists, and architects.

**Prerequisite: A geometry course**

## **850/851/852/853 Building Trades I**

**Juniors**

**1 year**

**2 credits (two periods)**

This vocational course is designed to expose the student to all the fundamental aspects of residential construction. The student will initially be introduced to and required to follow all safety procedures in compliance with OSHA. This course allows the student to participate in many of the following: blueprint reading, foundation and concrete work, rough framing, roofing techniques, painting and drywall work, insulation methods, residential wiring, interior trimwork, and exterior work with brick, siding and soffit. It is planned that each year one new house will be constructed, allowing the student to be part of all phases of on-site construction. This course will also explore a variety of building materials used in home construction as well as different construction methods. Students who are enrolled in this course are not eligible for the Released Time Program in their senior year. Students must meet all graduation requirements, as well as maintaining passing grades in all their academic courses. Class size will be limited to 16 for safety requirements and to allow an adequate learning environment. Every student applying for this program will be evaluated by a class advisor, the instructor, and administration. Because of the format of this program, difficulties in conduct will not be tolerated. Grading will be determined through quizzes, completed projects and tasks, and final exam.

## **854/855/856/857 Building Trades II**

**Seniors**

**1 year**

**2 credits (two periods)**

This course is a continuation of Building Trades I, with emphasis on training the student for entry as an apprentice in one of the trades, or to continue their education in a specific trade. During this second year, tool and on-site safety is once again emphasized while also focusing on helping the student develop a work ethic, both on individual projects as well as working with others. Students in this class will also have the opportunity to interact with local building contractors, union representatives, OSHA compliance officers and safety coordinators. Grading will be the same as in Building Trades I.

**Prerequisite: Building Trades I**

## **880-883 Residential Electricity**

**Seniors, Juniors**

**1 year**

**2 credits (two periods)**

**Dual Credit with KC**

Residential Electricity is a two-period class offered through Kaskaskia College. It is part of the Residential/Commercial Electrical Tech Program. The class is offered at the Trenton KC Center from 1:00 p.m. to 3:00 p.m. each day. Semester 1 includes the courses DC Fundamentals, Residential Wiring, and Technical Mathematics. Semester 2 includes Electrical Raceways & Installations, Core Values, and Ethical Decision Making. There are additional costs associated with this course.

## **HOME ECONOMICS**

### **868 Sewing I**

**Seniors, Juniors**

**1 semester**

**1/2 credit**

This course is an introduction to basic sewing. Its goal is to help students not only learn to operate a sewing machine, but also create projects they can use at home, school – or even on the go! Students will begin with the fundamentals of sewing and, as the semester unfolds, develop expertise and confidence to complete increasingly difficult projects. Students will be expected to apply math creativity, persistence, perceptual reasoning and problem-solving skills on a daily basis. Students will experience sewing as an enjoyable hobby and marketable life skill.

Potential sewing projects: sunglass case, face mask, monogram pillow case, tote bag, wallet, laptop protector sleeve, cord keeper, shirt cuff wallet, personalized throw blanket, party banner, zippered pencil case, skirt, necktie, pajama pants, apron, closet storage bin, mini quilt, upscaled items from unused clothing, etc.

### **869 Sewing II**

**Seniors, Juniors**

**1 semester**

**1/2 credit**

This course is a continuation of Sewing I. Throughout the semester, students will design and complete several challenging sewing projects of their choice, under the approval and supervision of the instructor. Projects may include keepsake items, gifts for special occasions, costumes for the school play, or items which can be raffled or donated to BirthRite, family crisis centers, nursing homes, hospitals, and homeless shelters.

Potential sewing projects: gift for a baby or wedding shower, bedding for a dorm room, overnight duffle bag, upscaled sweater or sweatshirt, fabric phone charging station, weighted blanket for someone who struggles with sensory issues, costumes for the school play, special items to auction for charity or school fundraiser, blankets for hospital patients, newborn gifts for BirthRite, items for nursing homes or homeless shelters.

**Prerequisite: Sewing I**

### **872 Culinary Arts: Foods to Faith - A Spiritual Journey Through Culinary Arts**

**Seniors, Juniors**

**1 semester**

**1/2 credit**

In this course, students will view cooking/culinary arts through the lens of history, art, science, math, psychology, and faith. This course is designed to emphasize the understanding that cooking and eating are at the core of maintaining good health. Students will gain an understanding of meal planning, food prep, and cooking techniques. Students will have the chance to get their hands dirty in the kitchen and sample their culinary masterpieces. By the end of the course, students will feel at home in the kitchen, see the profound role food plays in the Bible and our faith, and will have gained a necessary life skill.

## MATHEMATICS

Students enter the math curriculum at one of three levels. A flow chart for the three levels in the math curriculum is provided on a following page.

Several guidelines have been established to help teachers make recommendations to students as they move through the math curriculum.

1. Incoming freshmen are recommended for a specific program based on their scores on the placement test, as well as any available information from grade schools.
2. Incoming freshmen who have studied Algebra I in elementary/junior high school are required to take the Algebra I Proficiency Exam. Those who score 83% or higher qualify to enroll in Geometry as a freshman and to receive one credit in Algebra I.
3. A current freshman who wants to enroll in Geometry and Algebra II & Trigonometry Honors his/her sophomore year must meet two of the three requirements:
  - a. An "A" for each quarter in Algebra I
  - b. Algebra I teacher's recommendation with advisor input
  - c. Score 83% or higher on Algebra I Proficiency Exam.

Failure Policy: If a student fails the first semester and passes the second semester, then he/she is not required to repeat the first semester. The F for first semester and the applicable grade for second semester are recorded on the transcript, and one full credit is earned for the year-long course. If a student passes the first semester and fails the second semester, then, the following year, he/she must audit the first semester before repeating the second semester. The applicable grade for first semester and the F for second semester are recorded on the transcript, and 0.5 credit is awarded for the year-long course (an F earns no credit).

# SEQUENCE OF COURSES IN MATHEMATICS DEPARTMENT

	<u>FRESHMEN</u>	<u>SOPHOMORES</u>	<u>JUNIORS</u>	<u>SENIORS</u>
Sequence I	Essentials of Algebra I	Essentials of Geometry ---- Geometry -----	Ess. of Alg. II Algebra II	Algebra II
		Algebra I -----	Ess. of Geom. --- Geometry -----	Ess. Of Alg. II
Sequence II	Algebra I or Algebra I Honors	Ess. Of Geom. -----	Ess. Of Alg. II ----- Algebra II -----	Finite Math Trigonometry Finite Math Statistics
		Geometry-----	Ess. Of Alg. II ----- Algebra II ----- Algebra II H	Finite Math Statistics Trigonometry
		or Geometry Honors -----	Alg. II & Trig. H -----	Precalculus Finite Math Statistics
		Geom. <u>and</u> Alg. II & Trig. H - Precalculus ----- (see note below re: "doubling up")		Calculus Finite Math Statistics
Sequence III	Geometry -----	Algebra II ----- Algebra II H	Statistics -----	Finite Math Trigonometry
		Alg. II & Trigonometry H ---	Precalculus -----	Calculus Finite Math Statistics

**NOTE: Students who qualify to "double up" sophomore year may choose to enroll in Geometry or Geometry Honors with Algebra II & Trigonometry Honors.**

**NOTE: While the sequences above are strongly recommended, students may, with department approval, alter their sequences.**

**\*410/411 Algebra I****Juniors, Sophomores, Freshmen****1 year****1 credit**

This course is intended for the student who grasps the concepts of mathematics at an average or above average pace. The concepts included in the course are variables and open sentences and operations with real numbers, polynomials, and rational expressions. Students will solve and graph linear equations, solve inequalities in one and two variables, factor polynomials, solve quadratic equations by factoring, and solve systems of equations and inequalities. Working with radicals, word problems, functions, the coordinate plane, slopes, exponents, and intercepts is also included.

**Prerequisite: Department recommendation****\*415/416 Algebra I Honors****Freshmen****1 year****1 credit**

This course is intended for the accelerated freshman mathematics student. It develops the topics in Algebra I in more depth and at a faster pace. In addition, the Algebra I Honors curriculum includes factoring sums and differences of cubes; simplifying, multiplying, and dividing rational expressions and mixed expressions, performing polynomial long division, using the Pythagorean Theorem; and simplifying radicals.

**Prerequisite: Department recommendation****425/426 Essentials of Algebra I****Freshmen****1 year****1 credit**

The topics addressed in this course include variables and open sentences, operations with real numbers, adding and subtracting polynomials, multiplying polynomials by monomials and polynomials by polynomials, dividing monomials, powers of monomials, solving equations in one variable, solving and graphing linear equations and linear systems, factoring polynomials, writing equations in slope-intercept form, and solving word problems.

**\*440/441 Geometry****Seniors, Juniors, Sophomores, Freshmen****1 year****1 credit**

Designed to meet the needs of the average math student, this traditional geometry course includes study of the following topics: points, lines, planes, and angles; inductive and deductive reasoning; proofs; perpendicular and parallel lines and planes; congruent and similar figures; parallelograms; the Pythagorean Theorem; right triangle trigonometry; relationships among tangents, arcs, chords, and angles in a circle; and areas of circles and polygons. Other topics that may be addressed as time permits are geometric constructions, coordinate geometry, and/or surface area and volume of solids.

**Prerequisites: Algebra I or Algebra I Honors and teacher recommendation****\*442/443 Geometry Honors****Sophomores, Freshmen****1 year****1 credit**

Designed to meet the needs of the accelerated mathematics student, this course develops the same concepts as the regular geometry course with the addition of coordinate geometry and volume and surface area of solids and geometric probability. More rigorous than the regular geometry course, the treatment of topics is in greater depth and at a faster pace. Placement in an honors class is based on department recommendation.

**Prerequisites: Algebra I or Algebra I Honors and teacher recommendation**

**444/445 Essentials of Geometry****Seniors, Juniors, Sophomores****1 year****1 credit**

This course is designed for students from Algebra I or Essentials of Algebra. This particular geometry course studies the following topics: basic geometry figures and their properties, parallel and perpendicular lines and planes, angles, congruence, similarity, triangles, quadrilaterals, other polygons and circles. Additional topics include right triangle trigonometry, the Pythagorean Theorem, distance and midpoint formulas, area of polygons, surface area and volume of solids, and transformations on the coordinate plane.

**Prerequisite:** Algebra I or Essentials of Algebra I and teacher recommendation

**464/465 Essentials of Algebra II****Seniors, Juniors****1 year****1 credit**

The topics addressed in this course include properties of real numbers, sums and differences of polynomials, transforming equations, graphing linear equations and inequalities, slopes, equations of lines in standard point slope, and slope-intercept form, solving and graphing systems of equations and inequalities, laws of exponents, multiplying and dividing polynomials, solving quadratic equations through factoring, operations and equations with radical and complex numbers, quadratic functions, and their graphs, word problems and adding/subtracting matrices.

**Prerequisites:** Geometry or Essentials of Geometry and teacher recommendation

**\*466/467 Algebra II****Seniors, Juniors****1 year****1 credit**

Designed to prepare a student for college algebra, this course is open to the average math student who has earned a B or C in Algebra I. The concepts developed include properties of real numbers, sums and differences of polynomials, transforming equations and formulas, relations and functions, graphing absolute value and linear equations and inequalities, slopes and equations of lines, solving systems of equations and inequalities in two variables, laws of exponents, multiplying and dividing polynomials, solving equations and inequalities through factoring, basic operations with rational expressions, operations and equations with radicals and complex numbers, quadratic functions and graphs, and word problems involving these concepts. This course may be followed by Finite Mathematics, Statistics, Trigonometry.

**Prerequisites:** An A, B, or C in Algebra I or Algebra I Honors, Geometry or Essentials of Geometry, and teacher recommendation

**\*462/463 Algebra II Honors****Seniors, Juniors****1 year****1 credit**

This course is designed to prepare a student for College Algebra and to meet the needs of the math student whose career and college plans necessitate the eventual study of calculus. It guides the student through the following concepts and skills: properties of real and complex numbers; operations with real numbers, irrational numbers, complex numbers, algebraic expressions, polynomial expressions, and rational expressions; methods for solving linear equations, compound equations, absolute value equations, absolute value inequalities, quadratic equations, and first degree systems with two or three variables; graphing linear equations and inequalities; properties of linear and absolute value functions; factoring linear, quadratic, and cubic expressions; laws of exponents; simplifying radical expressions and solving equations involving radicals; equations and graphs of parabolic functions; matrices.

**Prerequisites:** An A or B in Algebra I or Algebra I Honors, Geometry or Geometry Honors, and teacher recommendation

**\*468/469 Algebra II & Trigonometry Honors****Seniors, Juniors, Sophomores****1 year****1 credit**

This course is designed to meet the needs of the math student whose career and college plans necessitate the eventual study of calculus either at Mater Dei or in college. It challenges the student through a rigorous development of the following concepts and skills: properties of real and complex numbers; operations with real numbers, irrational numbers, complex numbers, algebraic expressions, polynomial expressions, and rational expressions; methods for solving linear equations, compound equations, absolute value equations, absolute value inequalities, quadratic equations, and first degree systems with two or three variables; graphing linear equations and inequalities; properties of linear and absolute value functions; factoring linear, quadratic, and cubic expressions; laws of exponents; simplifying radical expressions and solving equations involving radicals; equations and graphs of parabolic functions; circular and trigonometric functions and equations; and methods for solving triangles. Optional topics include matrices and graphing sine and cosine functions. This course covers ten or eleven chapters in the Algebra II textbook, uses the honors grading scale, and may be followed by Precalculus and/or Finite Mathematics.

**Prerequisites:** An A or B in Algebra I or Algebra I Honors (both semesters), Geometry or Geometry Honors or concurrent enrollment, and teacher recommendation

**\*479 Finite Mathematics****Seniors****1 semester****1/2 credit**

This course is designed for students who wish to maintain their math skills and concepts in preparation for college, but who do not wish to take precalculus or do not intend to pursue a math/science career. This course covers stocks, simple and compound interest, annuities, sinking funds, monthly payments, sets, Venn Diagrams, basic probability concepts, conditional probability, Bayes' Theorem, Permutations, Combinations, Bernoulli Trials and Expected Values. Optional areas include statistics.

**Prerequisites:** A minimum of Algebra II and teacher recommendation

**\*482 Trigonometry****Seniors, Juniors****1 semester****1/2 credit**

This course begins with a thorough review of right triangle trigonometry from geometry and then introduces unit circle trigonometry, law of sines, law of cosines, and radians. This course is not open to students who have completed Algebra II Trig.

**Prerequisites:** A minimum of Algebra II and teacher recommendation

**\*483 Statistics****Seniors, Juniors****1 semester****1/2 credit**

This introductory course is designed to present the core ideas of statistics: data analysis, some probability, and standard statistical methods. Upon successful completion of this course, students should be able to use statistical information to evaluate news reports of a statistical nature and have a basic understanding of statistics for college courses. Topics include types of variables and measurement scales, sampling methods and misuses of statistics, frequency distributions, various graphs (histogram, frequency polygon, ogive, relative and cumulative frequency, bar, Pareto Chart, time series, pie), stem and leaf plots, measures of central tendency (mean, median, mode, midrange, variance, standard deviation) of ungrouped and grouped data, coefficient of variation, Chebyshev's Theorem, measures of position, outliers, boxplots, probability of events, conditional probability, probability involving permutations and combinations, binomial experiments, probability distributions and their measures of central tendency, expected value, and area and probability under the standard normal distribution curve. Extra topics include the Central Limit Theorem.

**Prerequisites:** A minimum of Algebra II and teacher recommendation



**\*491/492 Precalculus****Seniors, Juniors****1 year****1 credit**

Intended for the accelerated math student interested in pursuing the study of math and science in college, this course includes study of the following topics: advanced algebra concepts introduced in courses #472 and #473; properties and graphs of conic sections; circular, trigonometric, polynomial, exponential, and logarithmic functions; mathematical induction; and sequences and series. Optional topics that may be addressed as time permits are matrices and the use of graphing calculators. This course uses the honors' grading scale. It is strongly recommended that, to be successful in precalculus, students should have earned an A or B in Algebra II Trig.

**Prerequisites: Algebra II & Trigonometry Honors and teacher recommendation**

**\*494/495 Calculus and Analytic Geometry****Seniors****1 year****1 credit**

This course is designed for the very advanced student and is aimed at preparing the student to pass advanced placement tests when he or she enters college. This course covers behavior and graphs of functions, properties of limits, continuity, derivatives and integrals of polynomials, exponential and logarithmic functions, and other functions, applications of differentiation and integration to trigonometric functions, related rates, optimization and minimization, area, volume, and graphing, Mean Value and Rolle's Theorems, curve length, surface area, l'Hopital's Rule for integration, Inverse Trigonometric Functions, and special integration techniques. Optional areas include plane analytic geometry and polar coordinates. This course uses the honors grading scale.

**Prerequisites: Precalculus and teacher recommendation**

**PHYSICAL EDUCATION****911 Health****Freshmen****1 semester****1/2 credit**

This course will be taught to all freshmen. The course will stress the holistic approach to good health. The semester will be broken down into six major areas, The Human Body, Physical and Mental; Chemical Dependency; Nutrition; Sexually Transmitted Diseases; AIDS; and Standard First Aid. Teen suicide, problem solving methods, personal decisions with the emphasis in strong Catholic values and teachings will be highlighted. Through this course each student will develop an appreciation for a well-rounded, well-balanced lifestyle. This course is required by the State Board of Education.

**910/912 Physical Education I (Boys)****Freshmen****1 year****1 credit**

Emphasis will be placed on activities to include soccer, basketball, volleyball, softball and bowling. Various other physical activities also will be done throughout the semester. A weight training/conditioning program will be done two days a week. An agility day will also be included within the week.

### **916/917 Physical Education I (Girls)**

#### **Freshmen**

**1 year**

**1 credit**

This course is designed to allow the student to work on a variety of skills and team activities such as basketball, bowling, volleyball, speedball, soccer, softball, and track and field. Activities including fitness-wellness, physical fitness evaluations, fun runs, and exercises are included in this semester course. A weight training/conditioning program will be done two days a week. An agility day will also be included within the week.

### **920 Physical Education II (Boys)**

#### **Sophomores**

**1 semester**

**1/2 credit**

Emphasis will be placed on activities to include soccer, basketball, volleyball, softball and bowling. Various other physical activities also will be done throughout the year. A weight training/conditioning program will be done two days a week. An agility day will also be included within the week.

### **925 Physical Education II (Girls)**

#### **Sophomores**

**1 semester**

**1/2 credit**

This course is designed to allow the student to work on a variety of skills and team activities such as basketball, volleyball, bowling, archery, tennis, soccer, softball and track and field. Activities including fitness-wellness, physical fitness evaluation, fun runs, and exercises are included in this year-long course. A weight training/conditioning program will be done two days a week. An agility day will also be included within the week.

### **932 Physical Education III**

#### **Juniors**

**1 semester**

**1/2 credit**

This course is designed for students to continue interpersonal skill development through a variety of lifetime skills such as golf, tennis, bowling, archery, badminton, table tennis, and fitness-wellness activities. Learning at this level deals with the role of physical education, sport and wellness in society, and making value judgments about the students' own well being.

### **935/936 PE Weightlifting/Conditioning**

#### **Seniors, Juniors, Sophomores**

**1 semester**

**1/2 credit**

**2 semesters**

**1 credit**

**Dual Credit with KC (1 credit/semester)**

Students will have the opportunity to participate in general and sports-specific strength and conditioning. Strength, power, speed, acceleration, endurance, motor skills and agility drills are taught and practiced. The semester class will include general physical preparation, sport fitness and conditioning. Students will continue to learn about the principle of year-round conditioning.

**Prerequisite: Department recommendation**

### **942 Physical Education IV**

#### **Seniors**

**1 semester**

**1/2 credit**

This course is designed for students to maintain their positive attitude toward fitness-wellness activities and to stay physically active throughout their lives. Activities at this level will be lifetime skills in archery, badminton, bowling, golf, team handball, tennis, pickle ball, cycling, and fitness-wellness activities.

## **RELEASED-TIME PROGRAM**

### **006 Released Time Program**

**Seniors**

**semester 2**

**No Credit**

Through special arrangements, a junior student may request to register for the Released-Time Program for the second semester of the senior year. In order to qualify for the program, the student must be in good academic standing, with at least a 2.0 G.P.A. and must have completed all school graduation requirements with the exception of religion and English by the conclusion of the first semester of the senior year. While participating in the program, the student must carry an academic schedule of no less than four classes including English and Religion. There will be no academic credit awarded for Released Time and no grade for the program will be recorded.

Prior to registering for the program, the student must submit to the principal, a letter from the parents granting permission to participate in the program and assuming responsibility for the student. A letter from the employer indicating the days and times of work, plus a commitment from the employer to accept the responsibility for the student during those hours of the regular school day must be submitted prior to the beginning of the actual participation in the program. The student will sign an agreement.

It is the responsibility of the student to secure a place of employment, preferably in a skilled or semi-skilled occupation. The student may be paid for his/her work by the employer and will need to provide his/her own transportation. Each day when leaving school, the student must sign out at the main office desk and record the time of leaving school.

## **SCIENCE**

### **524/525 Physical Science A**

**Freshmen**

**1 year**

**1 credit**

This course is an introduction to the study of physical science. It is a fundamental course that helps to develop students' critical thinking and scientific reasoning skills. Students begin to reach an understanding of basic chemistry and physics principles through lab-based activities, some mathematical expressions and concept exploration. Students will also examine the relationships between science, technology, and society. Concepts covered in this course include structure of matter, chemical and physical changes, chemical bonding, energy, motion, gravitational force, waves, electromagnetic spectrum, electricity and magnetism.

### **\*503/504 Physical Science**

**Freshmen**

**1 year**

**1 credit**

This course is an introduction to the study of physical science that utilized students' scientific reasoning and critical thinking skills to achieve an understanding of basic chemistry and physics principles through lab-based activities, mathematical expressions and concept exploration. Students will also examine the relationships between science, technology, and society. Concepts covered in this course include structure of matter, chemical and physical changes, chemical bonding, energy, motion, gravitational force, waves, electromagnetic spectrum, electricity and magnetism. Placement in this class is based on department recommendations.

### **\*505/506 Physical Science Honors**

#### **Freshmen**

**1 year**

**1 credit**

This course is intended for accelerated students that provides more in-depth opportunities for students to use scientific investigation to develop and communicate an understanding of chemistry and physics through lab-based activities, mathematical expressions and concept exploration. Students will also examine the relationships between science, technology, and society. Concepts covered in this course include structure of matter, chemical and physical changes, chemical bonding, energy, motion, gravitational force, waves, electromagnetic spectrum, electricity and magnetism. Placement in an honors class is based on department recommendations.

### **\*514/515 Earth Science**

#### **Seniors, Juniors**

**1 year**

**1 credit**

This course can help the student understand the nature of the earth's environment and how man's activities are affecting it. It is a fundamental course that helps to develop students' critical thinking and scientific reasoning skills. The student will study the earth's position in our universe, its characteristics, including how the surface has changed over time, weather, climate, the oceans, and an introduction to geology. This is done through ordinary classroom procedure, and learning activities involving the use of the internet. There will be individual student presentations once per semester and a research paper the second semester.

### **\*520/521 Chemistry**

#### **Seniors, Juniors**

**1 year**

**1 credit**

Chemistry is a one-year college preparatory course that focuses on the structure of matter, its forms, and changes. The curriculum is structured to enhance student's scientific reasoning and critical thinking skills. Concepts covered in this course include properties of matter, measurement, atomic structure, equations, mass relationships, nomenclature, aqueous solutions and periodicity. The class relies heavily upon laboratory activities, research, the use of technology and effective communication of results.

**Prerequisites: A minimum of Algebra I, Geometry, and concurrent enrollment in Algebra II and department recommendation.**

### **\*522/523 Chemistry Honors**

#### **Seniors, Juniors**

**1 year**

**1 credit**

Honors Chemistry is designed for advanced science students who plan to major in the science, mathematics, medicine, and engineering fields in college. The following basic principles are developed: the nature of matter, atomic theory, the mole concept, equations, mass relationships, nomenclature, redox reactions, acid-base chemistry, equilibrium and kinetics. These concepts and principles are developed through laboratory exercise, class discussions, lectures, and science projects. Honors Chemistry involves the application of mathematical concepts and requires commitment to assignments and study. Placement in an honors class is based on department recommendation.

**Prerequisites: A minimum of Algebra I, Geometry, and concurrent enrollment in Algebra II Honors and department recommendation**

### **\*533 Chemistry II**

#### **Seniors**

**1 semester**

**1/2 credit**

**Dual Credit with KC(4 credit hours)**

Chemistry II is a second-year chemistry course designed to have students attain an in depth understanding of the fundamentals of chemical problems. This course will contribute to the development of the students' abilities to critically think and express ideas with clarity and logic. A college textbook is used, and emphasis is placed on chemical calculations, mathematical formulation, and laboratory experiments. This course is highly recommended for students aspiring to participate in STEM areas of study in college.

**Prerequisites: Chemistry or Chemistry Honors and department recommendation**

### **526/527 Biology A**

#### **Sophomores**

**1 year**

**1 credit**

This course is intended for the student who has successfully completed Physical Science A or Physical Science. This course will cover the structures and functions of living organisms. Some of the topics studied are plants, animals, genetics, cell structure, biochemistry, and human biology.

### **\*545/546 Biology**

#### **Sophomores**

**1 year**

**1 credit**

This course is designed to expose students to concepts concerning various forms of life. This includes the structure and function of cells of plants and animals, and an introduction to genetics, classification, invertebrates, vertebrates, and human biology. A careful observation of the environment will be investigated. Lectures and laboratory work are utilized. There will be individual student presentations once per semester and a research paper the second semester. There are dissections at the end of the year.

### **\*547/548 Biology Honors**

#### **Sophomores**

**1 year**

**1 credit**

This course is similar to Biology but is intended to provide the student with a broader knowledge and a deeper understanding of scientific concepts of biology. The students examine a broad spectrum of themes including biochemistry, cell structure, genetics, evolution, microorganisms, plants, invertebrates, vertebrates, and human biology. Lectures and laboratory work are utilized in this course. There will be individual student presentations once per semester and a research paper the second semester. There are dissections at the end of the year. Placement in an honors class is based on department recommendation.

### **\*552/553 Physics**

#### **Seniors**

**1 year**

**1 credit**

This course is designed for the student interested in science and math. Topics include classical mechanics, electricity, and magnetism, wave lengths, sound, light, and optics. Laboratory work is part of this course.

**Prerequisites:** Chemistry or Chemistry Honors, a minimum of Algebra II (Algebra II & Trigonometry Honors recommended), and department recommendation.

### **\*555 Biology II**

#### **Seniors**

**1 semester**

**1/2 credit**

Biology II will focus on some of the unifying concepts in biology, such as diversification and adaptation, classification, development, and ecology. Serious attention to our environment and the importance of plants to our environment will be part of this course. Each student will utilize the scientific method in his/her studies and lab work. There will be an individual student presentations during the semester.

**Prerequisite:** Biology or Biology Honors with a grade of B or higher.

### **\*557 Anatomy and Physiology**

#### **Seniors**

**1 semester**

**1/2 credit**

This course is offered especially for students going into medical fields, but it may be of interest to other students. The course is an introduction to human anatomy. Emphasis is on each body system of the human. Lab work is utilized and a thorough cat dissection is completed at the end of the semester.

**Prerequisites:** Biology or Biology Honors with a grade of B or higher.

### **\*558/559 Physics Honors**

**Seniors**

**1 year**

**1 credit**

This course is designed for the advanced science student who is interested in a more detailed and faster paced investigation of the basic concepts of Physics. Topics include classical mechanics, electricity and magnetism, wave mechanics, sound, light, and optics. Lab investigations, special projects, and research will also be included. Mastery of algebra, geometry, and trigonometry is essential.

**Prerequisites: Chemistry or Chemistry Honors, Precalculus or concurrent enrollment, department recommendation or approval of the instructor.**

### **574/575 Introduction to Engineering**

**Seniors, Juniors**

**1 year**

**1 credit**

This course is designed to introduce students to the field of engineering. The different disciplines of engineering are explored. STEM projects will be an integral part of this course.

### **580/581 Agricultural Science**

**Seniors, Juniors, Sophomores, Freshmen**

**1 year**

**1 credit**

This orientation course builds a foundational understanding of main aspects of the agricultural science field. Major units of instruction include agricultural research, soil science, advanced plant science, biotechnology, and advanced animal science. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will also be a focus. Finally, although not required, participation in FFA and Supervised Agricultural Experience (SAE) projects is strongly encouraged, as these activities augment the course by providing opportunities for leadership development, career exploration, and reinforcement of academic concepts.

### **582 Agricultural Business Management**

**Seniors, Juniors, Sophomores**

**1 semester**

**1/2 credit**

This course is designed to introduce students to main aspects of agricultural business management and how it relates to the United States and world marketplace. Major units of instruction include agribusiness careers, business structures, business plan preparation, agribusiness finances and accounting, basic economic principles, agricultural law, international trade, and commodities. Throughout the course, students will work independently and in small groups to complete assignments intended to create real-life scenarios relating to agriculture and the business practices required to ensure its success. These assignments will also enhance skills in math, reading comprehension, and writing. Improving computer and workplace skills will also be a focus. Finally, although not required, participation in FFA and Supervised Agricultural Experience (SAE) projects is strongly encouraged, as these activities augment the course by providing opportunities for leadership development, career exploration, and reinforcement of academic concepts.

### **583 Animal Science**

**Seniors, Juniors, Sophomores**

**1 semester**

**1/2 credit**

This course is designed to introduce students to main aspects of the animal industry and to provide them with basic animal science knowledge that can be further developed in advanced animal science courses. The specific animal industries include livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animals. Major units of instruction include animal science careers, animal anatomy and physiology, animal reproduction, animal nutrition, genetics, animal health, small and large animal care, and meat science. Improving computer and workplace skills will also be a focus. Finally, although not required, participation in FFA and Supervised Agricultural Experience (SAE) projects is strongly encouraged, as these activities augment the course by providing opportunities for leadership development, career exploration, and reinforcement of academic concepts.

**584 Soil Science****Seniors, Juniors, Sophomores****1 semester****1/2 credit**

This course is designed to introduce students to main aspects of soil science and to provide them with basic soil science knowledge that can be further developed in advanced soil science courses. Major units of instruction involve the study of soil properties, including soil chemistry, biology, fertility, mineralogy, and hydrology. Additional units of instruction may include soil conservation, irrigation, soil formation, soil surveys, and management. Finally, although not required, participation in FFA and Supervised Agricultural Experience (SAE) projects is strongly encouraged, as these activities augment the course by providing opportunities for leadership development, career exploration, and reinforcement of academic concepts.

**585 Agronomy****Seniors, Juniors, Sophomores****1 semester****1/2 credit**

This course is designed to provide students with the knowledge and skills necessary used in the agronomy or related industries. Major units of instruction include genetics, biotechnology, soil erosion and management, soil fertility, plant classification, plant anatomy and physiology, plant propagation, integrated pest management, grain, oil, forage, sugar, and fiber crop production methods, grain quality, grain storage, and grain transportation. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are encouraged as a component for leadership development, career exploration and reinforcement of academic concepts.

**586 Horticultural Production and Management****Seniors, Juniors, Sophomores****1 semester****1/2 credit**

This advanced course offers instruction in both the greenhouse production and landscape areas of horticulture. Units of study include plant identification, greenhouse management, growing greenhouse crops, landscape design and maintenance, nursery management, fruits and vegetables production, floriculture, and turfgrasses. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are encouraged as a component for leadership development, career exploration and reinforcement of academic concepts.

**566/567 Certified Nurse Assistant****Seniors, Juniors****1 year****1 credit****Dual Credit with KC (7 credit hours)**

Includes classroom and laboratory experiences. Units of instruction include: Introduction to the health care system and the health care team, basic anatomy and physiology, abbreviations and common medical terminology, legal/ethical and spiritual aspects of care, growth and development, the patient and his/her environment, vital signs, aseptic techniques, bathing, feeding, nutrition, body mechanics, moving and transporting residents/patients. It will also include habilitation and rehabilitation, admission and discharge, collecting specimens, special procedures, observation, reporting and recording, death and dying, home care needs, and cardiopulmonary resuscitation. To be taken in conjunction with Medical Terminology class.

**564/565 Medical Terminology****Seniors, Juniors****1 year****1 credit****Dual Credit with KC (1 credit hour)**

This course is designed to introduce students to the language of medical terminology, beginning with such basic concepts as prefixes, suffices, and root words, a progressing to the more complicated medical and surgical terms associated with body systems. In addition, medical terms related to laboratory, radiological and nuclear procedures have been included. To be taken in conjunction with Certified Nursing Assistant.

## SOCIAL STUDIES

### **\*302/303 World History**

**Seniors, Sophomores**

**1 year**

**1 credit**

The essence of the course is to acquaint the student with a compact survey of the development of civilization from ancient to modern times. It is a record of human progress and the influence it has on the world today.

### **\*307 American Government**

**Freshmen**

**1 semester**

**1/2 credit**

This is a required course devoted to the origins and the principles of the government and Constitution of the United States. Much emphasis is placed on the United States and Illinois Constitutions, the Declaration of Independence, the flexibility and success of the United States Constitution, and the structure and functions of the legislative, executive, and judicial branches of government. Students will also gain an understanding of the importance of good citizenship and how essential individual participation is in a republic. Students will be required to pass both the Illinois and United States Constitution Tests.

### **\*310/311 American History**

**Juniors**

**1 year**

**1 credit**

This course covers American history from colonial days to WWII. It gives the student an overall view of the major events in American history along with some idea of how they are related to each other. Included in the presentation are cultural diversity, democratic values, economic factors, global relations, and technology in shaping America then and now. "Who we are is based on what we were". This is a required course for junior year.

### **\*312/313 A.P. American History**

**Juniors**

**1 year**

**1 credit**

This is an Advanced Placement course, designed to prepare students for the advanced placement examination to be written in the spring. (There is an \$80 fee for each student to take the AP exam). The program covers the colonial period to the present. Designed to provide students with analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History, it also helps students develop skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

**Prerequisite: Departmental approval**

### **\*321 Modern American History**

**Seniors**

**1 semester**

**1/2 credit**

This class covers World War II to the present day, focusing on the post-war period; special emphasis is given to the Cold War, the civil rights' struggle, changing American life styles and economics, the New Frontier and the Great Society, the Vietnam War, the Gulf War and new challenges for the U.S., from 1980 to the present. The focus is on foreign policy, domestic issues, and societal changes.

**Prerequisite: American History**

### **335(F) / 336(M) Rules For Life**

**Seniors**

**1 semester**

**1/2 credit**

This course aims to equip students with foundational rules for life. These rules will enable students to govern themselves and aspects of their lives that are within their control. The content covered in this course has the potential to form competent adults out of our malleable youth. The author of the textbook, Dr. Jordan Peterson, uses science, religion, philosophy, and anthropology to lay out how to become a fulfilled, successful, and overall better human being.



**\*337 Early Child Development****Seniors****1 semester****1/2 credit****Dual Credit with KC (3 credit hours)**

This course is intended to present an overview of the theories and principles related to the physical, intellectual, emotional, and social areas of a child's development. Students will learn to identify cultural influences, family experiences, and basic psychological need satisfaction which shape a child's total development. This course includes twice-weekly field interactions and observations of young children in local early childhood settings.

**\*339 Life Span Growth & Development****Seniors****1 semester****1/2 credit****Dual Credit with KC (3 credit hours)**

A course that studies the development of the individual from conception through adulthood, or "from womb to tomb". The course includes the study of physical, intellectual, social and emotional growth and how we change over time. Students will closely examine how biological and environmental factors can significantly influence our ability to think, remember, learn and grow. Students will also analyze how our personal and social relationships evolve throughout our lives. Although this course is offered under the umbrella of psychology, it is considered an interdisciplinary course, and is often REQUIRED in the fields of nursing, healthcare, rehabilitation, education, sports, nutrition, psychology, sociology and anthropology.

**Recommendation: G.P.A. of 3.0 or higher****\*340 General Psychology****Seniors****1 semester****1/2 credit****Dual Credit with KC (3 credit hours)**

A course that seeks to help students answer the question: Why do we behave and think the way we do? Students will closely examine the history theories, research, definitions and significance of many psychological concepts including: perception, learning, memory, thinking, conditioning, emotions, personality, motivation, intelligence and defense mechanisms. Students will also study psychopathology, or the origin, development and manifestations of mental and behavior disorders and their treatments. Although this is an introductory course, it provides an essential foundation for helping students of all disciplines understand the human mind and how it works.

**Recommendation: G.P.A. of 3.0 or higher****\*341 Current World Issues****Seniors****1 semester****1/2 credit**

A study of current world issues, including ecological, economic, political, military, and social issues. The focus is on individual research, team projects, and facilitation of group discussion. Current events are emphasized, with background and historical research to further a deeper understanding of the subject, underlying causes, and possible resolutions. Emphasis will also be placed on understanding how other nationalities, ethnic groups, and geographic areas perceive these issues.

**\*342 Global Studies****Seniors, Juniors****1 semester****1/2 credit**

This course provides students with the opportunity to explore what is happening in various regions and civilizations at a given time. Additionally, it enables students to investigate issues, themes, and global connections and linkages. Topics covered include the geography, history, economy, government, and relevant current events applicable to the regions studied. A comprehensive understanding of globalization, what it is and what its effects are, both politically and economically, on both the developed world and the developing world, will be emphasized. Environmental issues, including population growth and migration, climate change, industrial and agricultural impacts on soil and water resources, including the world's oceans, will receive special attention.

**746 Marketing**  
**Seniors, Juniors**

**1 semester**

**1/2 credit**

This course offers a comprehensive overview of the field of marketing. Curriculum covered will include market research, marketing careers, and the marketing mix. Determination of various market segments, based on various types of psychological and social influences on consumer behavior, will be inclusive in this course. Students will be required to actively participate in a group business project. (This course may fulfill a Social Studies credit for some colleges).

<b>Freshman Program</b>	<b>Sophomore Program</b>	<b>Junior Program</b>
Theology	Theology	Theology
English	English	English
Math	Math	American History
Science	Science	Math
Foreign Language <u>or</u> Elective	Foreign Language <u>or</u> Elective	Elective
Health / American Government	P.E. / Elective <u>or</u> Band	Elective
P.E. <u>or</u> Band	Elective	Elective

<b>Senior Program</b>	<b><u>Graduation Requirements</u></b>	<b><u>Recommended College Program</u></b>
Theology	Theology 4 credits	English 4 credits
English	English 4 credits	Math 3 credits
Elective	Science 2 credits	Science 3 credits
Elective	Math 3 credits	Social Studies 3 credits
Elective	Social Studies 2 credits	Fine Arts 1 credit
Elective	Speech 1/2 credit	Foreign Language 2 credits
Elective	Consumer Economics 1/2 credit	
	Physical Education 1 1/2 credits	
	Health 1/2 credit	
	Fine Arts 1/2 credit	
	US Constitution Test (pass)	
	Senior Service Project (completion)	

