

Saint Joseph High School



Program of Studies 2022-23

Accredited by the State of Indiana
AdvancEd

Revision: 02.01.2022

Program of Studies 2022-23

Table of Contents

Admissions Policy	3
Registration – Incoming Freshmen	5
Registration – Returning Students	5
Miscellaneous Information	6
Graduation Requirements	9
Four-Year Plan	12
Course Designations	13
Theology Department	15
English Department	19
Mathematics Department	24
Science Department	29
Social Studies Department	35
Fine Arts Department	41
Business and Technology Department	48
Physical Education Department	50
World Languages Department	52
Special Offerings	56

Admissions Policy

The admissions process of Saint Joseph High School is guided by the school's mission statement: "*Saint Joseph High School is a Catholic secondary school dedicated to transforming students in heart and mind, preparing them to serve God, the Church, and the world.*"

Saint Joseph High School, a four-year/eight-semester college prep school, is open to all qualified high school students, regardless of sex, race, religion, creed, color, or national origin.

Prospective ninth grade students must complete all admissions steps (found on the SJHS website under the Admissions link) and requirements for eighth grade before being admitted to SJHS. Prospective ninth graders who register before the completion of their eighth grade will be admitted conditionally, pending receipt of the final transcript. No registration can be considered complete until confirmation is received from the Catholic elementary school that financial obligations are current (Diocesan Policy #5240).

Admissions determination will commence by the end of January during the current academic year. Applications received after this date will be accepted provided that open spaces in the class remain. Completed submission of application requirements is no guarantee for admission into Saint Joseph High School. Please review the priority enrollment considerations carefully.

Enrollment Priority

The Admission Committee gives consideration to applications from students meeting the school's academic, attendance, and disciplinary standards. Active registered parishioners from Catholic feeder schools will be given priority consideration throughout the admission process. Final admission determinations are vested in the judgment of the Admission Committee.

Presuming academic requirements for admission have been met, enrollment priority will be given to siblings of current students and alumni, children of employees of the Diocese of Fort Wayne-South Bend, students of Saint Joseph High School feeder schools, students of active supporters of Saint Joseph High School, and other students who demonstrate the potential to succeed in the academic and religious program offered at Saint Joseph High School.

Transfer Students

Saint Joseph High School considers accepting transfer students from other high schools. Students transferring to Saint Joseph High School must meet the same graduation requirements as any other student.

- Students wishing to transfer to Saint Joseph High School from other high schools will be considered based on their transcripts, the space available in the needed classes for the student, the disciplinary and attendance record of the student at the other school, and the reason(s) for transfer.
- Students wishing to transfer to Saint Joseph High School will take a placement exam.
- Students moving into the area are generally considered for all grade levels based on the above criteria.
- Students enrolled in local schools are generally not considered for transfer during their senior year. They can rarely meet Saint Joseph High School graduation requirements in one year.
- Students transferring from non-Christian schools will have the Theology requirement waived for the years of attendance at another school; however, the requirement of 48 credits is not changed.
- Students transferring from non-Catholic schools will begin their Theology requirements with Theology 3 and Theology 4.
- Credits for home study are not generally accepted at Saint Joseph High School, unless approved in advance.
- Students interested in interscholastic athletics must adhere to all IHSAA eligibility rules and regulations.
- Students wishing to transfer to Saint Joseph High School are considered through the end of the 1st quarter and 3rd quarter for immediate transfer. During the 2nd and 4th quarters, students will generally be asked to wait until the start of the next semester. Students moving into the area will be considered for immediate transfer at any time.

- When necessary, the same criteria listed for accepting new students will apply to the acceptance of transfer students.
- The Director of Counseling will make a final decision relative to credits acceptable for transfer.
- Transfer students are not considered for salutatorian or valedictorian unless they transferred before their junior year.

International Students

Saint Joseph High School welcomes students from other countries for study at our school depending on space available. In general, the following requirements apply:

- Saint Joseph High School considers international students who would qualify for grades 10 through 12 and are age appropriate.
- Students must be part of a formal exchange program recognized by NASSP and the state of Indiana or living with a relative.
- The guardianship form must be completed through the Office of the Director of Admissions.
- Students must connect with host families prior to the first day of school.
- Saint Joseph High School does not have an English as a Second Language Program, therefore students must have a command of the English language.
- Students will be given a placement test in English and mathematics to facilitate class placement.
- Full-time international students must pay full tuition and fees. They will receive normal grade reports, transcripts, etc. If eligibility requirements are met, they may participate in IHSAA athletics. They may receive a diploma if appropriate previous credits are accepted.
- International students will begin their theology requirements with Theology 3.
- If needed, students must secure I-20 forms from the Counseling Department several months in advance of possible acceptance.
- Students must meet all immunization requirements.
- Students must meet all school attendance and disciplinary requirements and attend monthly meetings after school.
- Saint Joseph High School does not make housing arrangements for international students. However, the Director of Admissions must approve all living arrangements in advance of the student coming to the United States.

Registration – Incoming Freshmen

All incoming ninth graders are required to take a placement test. Placement tests are given in the fall semester of the prior academic year. Once all admission requirements are received and acceptance is formalized, families will receive a passcode to access registration forms. Course recommendations will consider the transcripts and teacher recommendations in addition to the placement test score and other criteria.

Special Placement Possibilities:

Mathematics, World Languages, Basic Skills, Language Arts Lab

A student may earn credit for Algebra 1 taken in middle school provided:

- The transcript received from middle school specifies algebra as the math course taken, not just math.
- A formal grade is given for the class (pass/fail grades cannot be accepted).
- The student successfully completes a geometry class in grade 9.
- The middle school teacher must be licensed to teach the high school course.

Upon request, the grade received in middle school will count toward the student's GPA in high school.

A student may earn credit for a world language taken in middle school provided:

- The transcript received from middle school specifies the world language course taken.
- A formal grade is given for the class (pass/fail grades cannot be accepted).
- The student successfully completes level 2 of that language in grade 9.
- The middle school teacher must be licensed to teach the high school course.

Upon request, the grade received in middle school will count toward the student's GPA in high school.

Students who were not recommended for, but wish to be considered for the Honors sequence in mathematics (or a higher placement within that sequence) may request to take a special placement test. To succeed, a student must have a strong background in mathematics, especially algebra. Results of the exam will determine final placement in mathematics courses for the following year.

The previous teacher(s) or parents may recommend students for placement in the Basic Skills program. Students with a current Catholic Alternative Learning Plan (CALP/504), Individualized Service Plan (ISP/IEP) for mild/moderate learning disability may be placed in the Basic Skills class for one period each day.

Students needing remedial work in English may be placed in Language Arts Lab concurrent with their English courses. This placement may be deemed mandatory.

Registration – Returning Students

Registration for students currently enrolled at Saint Joseph High School will take place during the second semester.

Course Placement

Course placement is determined by prerequisites, the demonstrated achievement of the student, and the recommendations of the student's current teachers and/or department chairs. Please see the note at the end of each department section. Placement is based on the following criteria:

HONORS

- demonstrated ability to handle quality and depth of material beyond what is normally expected
- grade (to be considered as determined by the department)
- recommendation from the present teacher(s) and department chair
- standardized testing score (percentile)

COLLEGE PREP

- demonstrated ability to handle quality and depth of material to meet the Indiana Standards
- grade (to be considered as determined by the department)
- recommendation from the present teacher(s) and department chair
- standardized testing score (percentile)

Miscellaneous Information

Academic Probation

Students are placed on Academic Probation if they fail two or more courses during any semester. The student's counselor will meet with the student and parent(s)/guardian(s) to formulate a plan of action. The administrative team will review students who have two or more failures for two consecutive semesters in any combination of classes to determine if they will be allowed to register for the next semester. This could result in students needing to withdraw during the middle of the school year. Re-enrollment may be considered if students successfully complete approved summer school and/or online courses. Students should attempt to make up any failed course by taking it again at Saint Joseph High School or through an approved summer school or online course. The Director of Counseling must approve all summer school and online courses.

Since Saint Joe is a four-year institution, students who are not eligible to earn a Saint Joseph High School diploma within the four years due to multiple failures or absences throughout their time at Saint Joseph High School will be asked to withdraw.

Athletic and Co-Curricular Eligibility

Saint Joseph High School adheres to all IHSA eligibility requirements. To be eligible for participation in athletics and co-curricular activities students must pass five one-credit courses in the previous quarter. Failure to do so makes the student ineligible to participate in competitions and performances for the following full quarter. Academically ineligible student-athletes are not allowed to compete, but may be allowed to practice with the coach's/moderator's permission. Semester grades determine eligibility at the end of the second and fourth quarters.

Auditing a Course

As a general policy, Saint Joseph High School does not permit students to audit classes. In special cases, after consulting their counselor and the teacher, students may request to audit a course. Final approval rests with the teacher. All work for an audit class is at the discretion of the teacher. These arrangements must be made at the time of registration. An audit student may not take the place of a student taking the course for credit.

It is the responsibility of the audit candidate to request permission of the teacher to audit a particular class. All requirements must be agreed upon in a meeting between the student and teacher. The teacher, student, parent, and counselor must sign the Audit Request Form available in the Counseling office. Failure to adhere to requirements will necessitate removal from the class.

Changing a Schedule

Students must have seven classes (or six classes with a study hall) each semester in order to be a full time student at Saint Joseph High School and retain athletic eligibility. If considering an Academic Honors Diploma, please check requirements.

Classes are scheduled and teachers are assigned on the basis of students' course selections at the time of registration each spring. Discussions with teachers, parents, and counselors should aim to ensure that the courses selected for the following academic year are the courses that are desired. Prior to May 1st, schedule changes may be made if the course is available. After May 1st, schedule changes for core classes (Theology, English, Math, Social Studies, Science, and World Languages) and first semester electives are not allowed. This is to ensure that a master schedule can be created.

During the creation of the master schedule, alternate course choices will be utilized for courses that are over-enrolled or courses that are cancelled for lack of enrollment. Once the schedule is created, courses will not be changed due to teacher preference or personality conflicts. A schedule can be changed if there is a justified need, such as a student not meeting a prerequisite requirement for a course, being placed in an inappropriate course, or failing the first semester of a yearlong course.

After the master schedule is created, a student can request a change in their course assignments only if the following guidelines have been applied. A schedule can be changed only if it falls under the following guidelines:

- The student should have collaborated with their parents, the teacher, and in some cases the department chair, prior to approaching the school counselor.
- The student must fill out a Course Change Request Form, located in Counseling. If the change is approved, a \$25 fee will be assessed.
- If an elective course change for the second semester has been initiated by the school, it must be completed by December 14th.
- All approved requests are final and cannot be changed.
- Study halls will not be added to a student schedule unless noted for a specific reason. There will be a \$25 fee assessed for dropping to a study hall, the same as changing courses.

When schedule adjustments are necessary due to a level change (from honors to college prep or vice versa), the following must be considered:

- Regardless of the timing, students must have the permission of the teacher, department chair, counselor, and parents in order for a change to be made.
- Level changes should be made as early in the semester as possible to maximize student success.
- Grades from the previous level will be carried over into the new level.

Schedule changes may be made until the fifth day of classes without any notation on the transcript. Any changes made after the first five days will result in a grade of Withdraw (“W”) on the transcript for the changed course. Any changes after the eleventh week of each semester will result in a Withdraw Fail (“WF”) on the transcript for the changed course. (Note that a “W” grade does not impact a student’s GPA., whereas a “WF” grade is equivalent to an “F” and is included in the calculation of the GPA. No credit can be earned for a WF.)

Electives

All students must take a minimum of six classes each semester. While a number of electives are listed for each grade level, students should select only as many elective courses as they can effectively handle. There is no one program that applies to all students. Therefore, each student should take elective courses based on personal goals and objectives.

Grading Scale

The Saint Joseph High School grading scale is as follows:

	A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
Percentage	97-100	93-96	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	63-66	60-62	0-59

Grade Point Average

Saint Joseph High School uses a weighted grading system. Courses are designated as College Prep, Honors, or AP, and the grades are weighted according to the level of difficulty of the course. This scale below is used to determine the value of each letter grade:

	A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
College Prep	4.00	4.00	3.67	3.33	3.00	2.67	2.33	2.00	1.67	1.33	1.00	0.67	0.00
Honors [add 0.50]	4.50	4.50	4.17	3.83	3.50	3.17	2.83	2.50	2.17	1.83	1.50	1.17	0.00
AP [add 1.00]	5.00	5.00	4.67	4.33	4.00	3.67	3.33	3.00	2.67	2.33	2.00	1.67	0.00

Transcript grades not included in the GPA are those that carry Pass/Fail and Withdrawn grades.

In order to determine the cumulative GPA of students who transfer to Saint Joseph High School, the Director of Counseling equates grades received at the previous school to SJHS point values. If it is impossible to make this determination, the transferring student is given credit for previous work with a passing grade.

Honor Roll

Honor Roll computation is based on a student's grades for each individual quarter. To qualify, a student must earn a specific GPA in that quarter. However, a grade of D or F in any solid course will automatically eliminate a student from the Honor Roll, and an incomplete grade in any solid will also temporarily exclude a student. If the student qualifies after making up the incomplete grade within the required maximum of five school days after the end of the quarter, the student will be added to the Honor Roll.

There are three distinctions for the Honor Roll:

- To achieve HIGH HONORS, a student must have a quarter GPA of 3.75 regardless of the number of solids.
- To achieve HONORS, the student must have a quarter GPA of 3.50 regardless of the number of solids.
- To achieve HONORABLE MENTION, a student must have a GPA of 3.25 regardless of the number of solids.

Additionally, a student who has achieved Honor Roll each of the first three quarters with a maximum of one honorable mention will earn a Scholastic Honors Certificate.

Prerequisites

Many courses have prerequisites (conditions that must be met before taking a course). Departmental approval and previous courses are examples. All prerequisites are listed in the course descriptions. Students may not register for courses for which they have not met the prerequisites.

Qualifying for Honors Level Courses

If the preceding class was at the honors level, a grade of B+ or higher is required for automatic placement; a grade of B or B- will require a department waiver; a grade of C+ or lower will require an appeal to the department chair. Please see information in departmental sections for requirements specific to that department.

If the preceding class was college preparatory level, requirements vary depending on departmental guidelines. Students should see their assigned counselor for further information and information for requesting a waiver.

Repeating a Course

Students who fail required courses are expected to repeat them prior to the next academic year. Upon repeating and passing a failed course, the failing grade will be excluded, and the higher grade will be included in computing the student's GPA. Grades of D- or higher cannot be replaced by retaking a class. The cost of credit recovery courses may be the responsibility of the individual student.

Study Halls

Students will be assigned to quiet study halls for any period they are not scheduled into a class.

Summer School/Online Classes

Students who wish to attend an accredited summer school or enroll in an online class must receive permission from the Director of Counseling prior to enrollment in the course. Except for credit recovery, courses offered at Saint Joseph High School are not approved for online enrollment.

Graduation Requirements

The completion of Core 40 is a graduation requirement. The burden of responsibility for meeting the requirements for graduation from Saint Joseph High School, as well as the Core 40 and Academic Honors Diploma, rests with the student.

College entrance requirements vary, so it is important that students check requirements for particular colleges. The responsibility of planning a high school program that meets these requirements rests with the student. Counselors can furnish information as needed. In general, colleges require a set number of College Preparatory Units (CPU's), which are met by courses in English, mathematics, social studies, science, and languages.

Salutatorian and Valedictorian are named following seventh semester grade reports. To be considered for this honor, students must attend Saint Joseph High School for the last four semesters of their high school career.

Diploma Requirements for Class of 2022- 2023

Theology	8 credits (not including Christian Service)
English	8 credits Including a balance of literature, composition and speech
Mathematics	6 credits 2 credits each in Algebra I, Geometry, and Algebra II <i>All students must take a quantitative reasoning course each year (Economics, Math, Physics).</i>
Science	6 credits 2 credits: Biology I 2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics 2 credits: any Core 40 science course
Social Studies	6 credits 2 credits World History/Civilization or Geography/History of the World 2 credits: U.S. History 1 credit: U.S. Government 1 credit: Economics
Directed Electives	5 credits World Languages Fine Arts – <i>1 credit required</i> Career – Technical (Business courses)
Physical Education	2 credits
Health and Wellness	1 credit
Electives	6 credits
Total Credits	48 credits

To qualify for the Core 40 with **Academic Honors** diploma (**55 credits**), students must:

- Complete all requirements for Core 40, as in the above table, plus:
 - Earn 2 additional Core 40 math credits
 - Earn 6-8 Core 40 world language credits (6 credits in one language or 4 credits each in two languages)
 - Earn 2 Core 40 credits in fine arts
 - Earn a grade of a “C” or better in courses that will count toward the diploma
 - Have a grade point average of “B” or better
- Complete one of the following:
 - Earn 4 credits in 2 or more AP courses and take the corresponding AP exams

- Earn 6 verifiable transcribed college credits in dual credit courses from the approved dual credit list.
- Earn 2 of the following:
 - A minimum of 3 verifiable transcribed college credits from the approved dual credit list.
 - 2 credits in AP courses and take the corresponding AP exams
 - Earn a composite score of 1250 or higher on the SAT and a minimum of 560 on math and 590 on the evidence based reading and writing section.
 - Earn an ACT composite score of 26 or higher and complete the writing section

CORE40 with Technical Honors <i>(minimum 47 credits)</i>
--

For the **Core 40 with Technical Honors** designation, students must:

- Complete all requirements for Core 40.
- Earn 6 credits in the college and career preparation courses in a state-approved College & Career Pathway and one of the following:
 1. Pathway designated industry-based certification or credential, or
 2. Pathway dual credits from the approved dual credit list resulting in 6 transcribed college credits
- Earn a grade of "C" or better in courses that will count toward the diploma.
- Have a grade point average of a "B" or better.
- Complete one of the following,
 - A. Any one of the options (A - F) of the Core 40 with Academic Honors
 - B. Earn the following minimum scores on WorkKeys: Workplace Documents, Level 6; Applied Math, Level 6; and Graphic Literacy, Level 5.***
 - C. Earn the following minimum score(s) on Accuplacer: Writing 80, Reading 90, Math 75.
 - D. Earn the following minimum score(s) on Compass: Algebra 66 , Writing 70, Reading 80.

Diploma Requirements for the Class of 2023 and Beyond

Beginning with the graduating class of 2023, students must satisfy all three of the following Graduation Pathway Requirements by completing one of the associated Pathway Options:

Graduation Requirements	Graduation Pathway Options
1. High School Diploma	Meet the statutorily defined diploma credit and curricular requirements.
2. Learn and Demonstrate Employability Skills (Students must complete <u>at least one</u> of the items listed.)	Learn employability skills standards through locally developed programs. Employability skills are demonstrated by <u>one</u> of the following: <ul style="list-style-type: none"> ● Project-Based Learning Experience; OR ● Service-Based Learning Experience; OR ● Work-Based Learning Experience
3. Postsecondary-Ready Competencies (Students must complete <u>at least one</u> of the items listed.)	<ul style="list-style-type: none"> ● Honors Diploma: Fulfill all requirements of either the Academic or Technical Honors diploma; OR ● ACT: College-ready benchmarks; OR ● SAT: College-ready benchmarks; OR ● ASVAB: Earn at least a minimum AFQT score to qualify for placement into one of the branches of the US military; OR ● State- and Industry-recognized Credential or Certification; OR ● State-, Federal-, or Industry-recognized Apprenticeship; OR ● Career-Technical Education Concentrator: Must earn a C <u>average</u> or higher in at least six high school credits in a career sequence; OR ● AP/IB/Dual Credit/Cambridge International courses or CLEP Exams: Must earn a C <u>average</u> or higher in at least three courses; OR ● Locally created pathway that meets the framework from and earns the approval of the State Board of Education

Four-Year Plan

Freshman Year	1st Semester	2nd Semester	Credits
Theology 1/Theology 2			
English 9			
Physical Education			
(Math)			
(Science)			
(Social Studies)			
(Elective)			
Total Credits			
Sophomore Year	1st Semester	2nd Semester	Credits
Theology 3/Theology 4			
English 10			
Health			
(Math)			
(Science)			
(Social Studies)			
(Elective)			
Total Credits			
Junior Year	1st Semester	2nd Semester	Credits
Theology 5/Theology 6			
English 11 (American Lit.)			
(Math)			
(Science)			
(Social Studies)			
(Elective)			
Total Credits			
Senior Year	1st Semester	2nd Semester	Credits
Senior Electives (see Theology)			
English 12			
(Math)			
(Science)			
(Social Studies)			
(Elective)			
Total Credits			

Course Designations

Designation	Description	Courses
Core 40	<p>Indicates a course that satisfies Core 40 requirements in that subject area as defined by the state:</p> <p>Students wishing to attend an Indiana public college and be eligible for possible financial aid from that college must earn 48 credits (8 Theology and 40 credits of courses in specific areas) and maintain a GPA of 2.0.</p> <p>Students are required to complete this curriculum to meet requirements for graduation from Saint Joseph High School.</p>	<ul style="list-style-type: none"> ● English courses ● Mathematics courses ● Science courses ● Social Studies courses ● Business courses ● Fine Arts courses ● Health & Physical Education courses ● World Language courses
Advanced Placement (AP)	<p>Indicates an Advanced Placement course:</p> <p>The Advanced Placement Program® is a cooperative educational endeavor between secondary schools and colleges and universities. Students gain college-level skills and may earn college credit while they are still in high school. AP teachers follow course guidelines developed and published by the College Board.</p> <p>Students are expected to take the AP exam if they enroll in these courses.</p>	<ul style="list-style-type: none"> ● AP English Language & Composition ● AP English Literature & Composition ● AP Calculus AB ● AP Calculus BC ● AP Computer Science A ● AP Computer Science Principles ● AP Spanish Language & Culture ● AP Biology ● AP Chemistry ● AP Physics C ● AP Environmental Science ● AP Human Geography ● AP US History ● AP US Government ● AP Macroeconomics ● AP Microeconomics ● AP Statistics ● AP 2-D Art & Design ● AP 3-D Art & Design ● AP Drawing
Dual Credit	<p>Indicates a course that earns credit at both Saint Joseph and at an accredited post-secondary institution:</p> <p>These courses are designed by and/or endorsed by certain colleges or college-ready programs. Teachers of these courses are certified by the college or the program and match the syllabus of these courses.</p> <p>Saint Joseph has partnerships with multiple dual credit programs: the Advance College Project (ACP) through Indiana University; Project Lead the Way (PLTW) through the PLTW network and Ivy Tech; and a few other miscellaneous courses through Ivy Tech.</p>	<p>Advance College Project (ACP):</p> <ul style="list-style-type: none"> ● ACP Reading, Writing, & Inquiry (IU W131) ● ACP Literary Interpretation (IU L202) ● ACP Finite Mathematics (IU M118) <p>Project Lead the Way (PLTW):</p> <ul style="list-style-type: none"> ● Intro to Engineering Design ● Principles of Engineering <p>Miscellaneous Ivy Tech courses:</p> <ul style="list-style-type: none"> ● Entrepreneurship

<p>Honors (H)</p>	<p>Indicates an Honors course as defined by Saint Joseph:</p> <p>These courses are designed for students who wish to pursue a more challenging academic program than the college preparatory courses. It is expected that students enrolled in these courses will be willing to work hard and do intensive study in the subject.</p> <p>Students who wish to be admitted into honors courses must meet the following criteria:</p> <ul style="list-style-type: none"> ● the student must wish to take the course ● the student must meet the prerequisites for the course ● the student's past academic record must indicate a high probability of success ● the student's parents must consent to placement in honors course ● the student must accept responsibility for the level of work required in honors courses and must expect no concessions for involvement in either co-curricular activities or work 	<p>Honors courses are available in the following departments:</p> <ul style="list-style-type: none"> ● Theology ● English ● Mathematics ● Science ● Social Studies ● World Languages <p>See course descriptions in each department.</p>
<p>Laboratory (L)</p>	<p>Indicates a laboratory course as defined by the state:</p> <p>"A minimum of 25% of the total instructional time is devoted to laboratory activities. Laboratory activities are those activities in which the pupil personally uses appropriate procedures and equipment in accomplishing that learning task."</p>	<ul style="list-style-type: none"> ● Science courses ● Fine Arts courses ● Physical Education courses (except Health)

Theology Department

Theology Department courses provide a solid understanding of the basic teachings of the Catholic Church, a familiarity with Sacred Scripture and Sacred Tradition, and an awareness of our historical past. Students learn the meaning of Catholic Sacraments, Liturgy, and ritual. Students discover that Morality, Justice, and the Truth of Revelation are objective because they are God-given.

Students are challenged to emulate Christ by following the example of countless saints who have each chiseled a unique facet of discipleship. They learn that this path of discipleship is “faith seeking understanding” — the time-honored motto of the Church. With Scripture and Tradition serving as sign-posts on that path, students are led to Truth — the Truth which sets us free to love and serve the Lord and each other.

The goal of the Theology Department is to help guide each student towards realizing and formulating their own conscious and active faith life. Christian faith challenges us to a personal commitment to the risen Jesus who now lives and reigns with the Father and the Holy Spirit, who is still present to us in spirit and power. Faith calls us to demonstrate the life that God gives us through our service to others, communion with God in prayer, and our personal integrity. The Theology Department provides opportunities to grow in service and prayer. All are called to conversion to holiness through participation in the Sacraments of Reconciliation and Eucharist.

#	Course Title	Grading Scale	Sems	Credits	Grades
SJ1101	THEOLOGY 1: THE WORD OF GOD	College Prep	1	1	9th
SJ1102	THEOLOGY 2: CHRISTOLOGY	College Prep	1	1	9th
SJ1201	THEOLOGY 3: THE PASCHAL MYSTERY	College Prep	1	1	10th
SJ1202	THEOLOGY 4: ECCLESIOLOGY	College Prep	1	1	10th
SJ1301	THEOLOGY 5: SACRAMENTS	College Prep	1	1	11th
SJ1302	THEOLOGY 6: MORALITY [Current Problems, Issues and Events]	College Prep	1	1	11th
SJ1410	APOLOGETICS [Humanities II]	College Prep	1	1	12th
SJ1420	CATHOLIC SOCIAL TEACHING [Topics in Social Science, Social Justice]	College Prep	1	1	12th
SJ1430M/F	DIGNITY OF MEN / DIGNITY OF WOMEN	College Prep	1	1	12th
SJ1450	GREAT CATHOLIC THINKERS [Humanities III]	Honors	1	1	12th
SJ1460	SACRED SCRIPTURE	College Prep	1	1	12th
SJ1470	FAITH AND SCIENCE	College Prep	1	1	12th

Typical Course Sequence

Courses 1-6 are core courses taken in sequence from freshman through junior years. All transfer students who are sophomores, juniors, or seniors begin with THEOLOGY 3 and THEOLOGY 4 and continue in the sequence in subsequent years. Transfer students who have taken the same courses at other Catholic schools may continue the curriculum in sequence.

Seniors who have taken the previous core courses qualify for the Theology offerings for seniors. Qualified seniors pick two of the six courses numbered SJ1400 and above. More than two courses may be selected as electives. All senior classes may be subject to departmental approval to enroll.



SJ1101	THEOLOGY 1: THE WORD OF GOD	College Prep	1 sem.	1 cred.	9th grade
--------	-----------------------------	--------------	--------	---------	-----------

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. If they have not been taught this earlier, they will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally.

- Not an approved core course by the NCAA Clearinghouse

SJ1102	THEOLOGY 2: CHRISTOLOGY	College Prep	1 sem.	1 cred.	9th grade
--------	-------------------------	--------------	--------	---------	-----------

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who he is, the students will also learn who he calls them to be.

- Not an approved core course by the NCAA Clearinghouse

SJ1201	THEOLOGY 3: THE PASCHAL MYSTERY	College Prep	1 sem.	1 cred.	10th grade
--------	---------------------------------	--------------	--------	---------	------------

The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Through the course of study, 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.

- Not an approved core course by the NCAA Clearinghouse

SJ1202	THEOLOGY 4: ECCLESIOLOGY	College Prep	1 sem.	1 cred.	10th grade
--------	--------------------------	--------------	--------	---------	------------

The purpose of this course is to help students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

- Not an approved core course by the NCAA Clearinghouse

SJ1301	THEOLOGY 5: SACRAMENTS	College Prep	1 sem.	1 cred.	11th grade
--------	------------------------	--------------	--------	---------	------------

The purpose of this course is to help students 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 so as to learn how they may encounter Christ throughout life.

- Not an approved core course by the NCAA Clearinghouse

SJ1302	THEOLOGY 6: MORALITY [Current Problems, Issues and Events]	College Prep	1 sem.	1 cred.	11th grade
--------	---	--------------	--------	---------	------------

The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples.

- Counts as an elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ1410	APOLOGETICS [Humanities II]	College Prep	1 sem.	1 cred.	12th grade
--------	-----------------------------	--------------	--------	---------	------------

The purpose of this course is to help the students understand the manner in which the Catholic Church relates to non-Catholic Christians as well as other religions of the world. Building on the foundational truth that Jesus Christ established the Catholic Church and entrusted to her the fullness of God's Revelation, the course is intended to help students recognize the ways in which important spiritual truths can also be found in non-Catholic Christian churches

and ecclesial communities as well as in non-Christian religions. It is also intended to help them to recognize the ways in which other systems of belief and practice differ from the Catholic faith.

- Counts as an elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ1420	CATHOLIC SOCIAL TEACHING [Topics in Social Science, Social Justice]	College Prep	1 sem.	1 cred.	12th grade
--------	--	--------------	--------	---------	------------

The purpose of this course is to introduce students to the Church’s social teaching. In this course, students are to learn how Christ’s concern for others, especially the poor and needy, is present today in the Church’s social teaching and mission. This class will require a semester capstone project and presentation incorporating the principles of CST within the Circle of Social Action: awareness, analysis, and action.

- Counts as an elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ1430M/F	DIGNITY OF MEN / DIGNITY OF WOMEN	College Prep	1 sem.	1 cred.	12th grade
-----------	-----------------------------------	--------------	--------	---------	------------

The purpose of this course is to help students to understand the vocations of life: how Christ calls us to live. In this course, students should learn how all vocations are similar and how they differ. The course should be structured around married life, single life, priestly life, and consecrated life. Students should learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community. This course will challenge you to grow in the prayer life of the Church and learn the Liturgy of the Hours. It leads students in serious reflection on how God is working in each of our daily lives and ways He may be calling us.

- This course, previously named VOCATIONS, is separated by gender.
- Not an approved core course by the NCAA Clearinghouse

SJ1450	GREAT CATHOLIC THINKERS [Humanities III]	Honors	1 sem.	1 cred.	12th grade
--------	--	--------	--------	---------	------------

This course will introduce the writings and ideas of important Catholic writers such as Joseph Ratzinger, St. Thomas Aquinas, Blaise Pascal, GK Chesterton, Fulton J. Sheen, Francis Thompson, St. Augustine, St. Catherine of Siena, St. Ignatius of Loyola, St. Gregory of Nyssa, St. Francis de Sales, Thomas A Kempis, St. Therese of Lisieux, St. John Cassian, Thomas Merton, St. Teresa of Avila, St. John of the Cross, St. Benedict, St. Ignatius of Antioch, St. Cyprian, St. Cyril of Jerusalem, St. John Chrysostom, Hilaire Belloc, St. Francis of Assisi, St. Louis de Montfort, St. Bonaventure, and others. The course will involve extensive reading and discussion and explore the Theology of the Catholic Church through some of Her great teachers and saints.

- Prerequisite: Minimum “B+” grades in SACRAMENTS and MORALITY
- Counts as a directed elective or elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ1460	SACRED SCRIPTURE	College Prep	1 sem.	1 cred.	12th grade
--------	------------------	--------------	--------	---------	------------

The purpose of this course is to give an overview of Sacred Scripture with an introduction to the basic principles for understanding and interpreting the Bible. Because of the extent of the scriptural material, this outline will not try to cover the vast content but rather offer comments about Scripture’s purpose and religious significance. Given the limits of a semester of study, it will not be possible to introduce all the books of the Bible here. But every effort is made to project a sense of the unity of the narrative for the divine plan of salvation, the presence of God’s action in this record of his Revelation, and his desire to share his merciful love with us. The New American Bible with its notes is the translation that is used as well as a guide for interpretation. This class will study Sacred Scripture as the divinely inspired Word of God, and one has the opportunity to learn more about the unity between all parts of the Bible and Catholic Tradition.

- Not an approved core course by the NCAA Clearinghouse

SJ1470	FAITH AND SCIENCE	College Prep	1 sem.	1 cred.	12th grade
--------	-------------------	--------------	--------	---------	------------

The purpose of this course is to give an overview of the true nature of religion and science as twin corporate enterprises and how this understanding can help us become better practitioners of both. It will explore how religion

and science in their fullness can work together, and do work together in coherent, consistent, and mutually affirming paths that can lead us to increased knowledge and love of God and God's creation. This class will explore the interactions between the disciplines of theology and science.

- Not an approved core course by the NCAA Clearinghouse

English Department

English is designed to improve communication, which is seen as a two-way process of transmitting and receiving ideas. Through the study of literature, students achieve the awareness necessary to perceive the rich body of truth which literature offers to readers. Through writing, speech, and language instruction, students improve their ability to present their own ideas clearly and effectively. All English classes heighten the student's appreciation of language and its importance in our lives.

Qualifying for AP/Honors in English

Students interested in remaining on the honors track must meet the following criteria in their previous honors class:

- B+ grade in the previous class qualifies for placement in an honors level class.
- B/B- grade in the previous class requires teacher approval.
- C+ or lower in the previous class requires department chair approval.

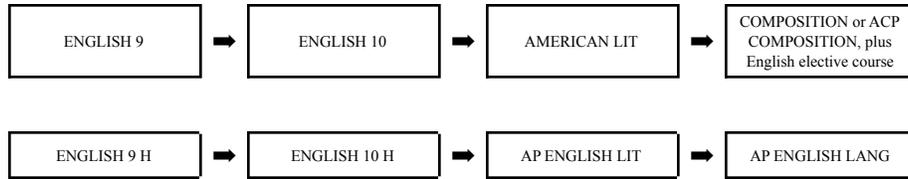
Students interested in moving up to the honors track must meet the following criteria:

- B+ or higher grade in the previous college prep class will require departmental approval.
- B or lower does not meet the criteria for enrollment in an AP/Honors course by the English Department.

#	Course Title	Grading Scale	Sems	Credits	Grades
SJ2000	LANGUAGE ARTS LAB	College Prep	1	1	9th-12th
SJ2111-12	ENGLISH 9	College Prep	2	2	9th
SJ2121-22	ENGLISH 9 HONORS	Honors	2	2	9th
SJ2211-12	ENGLISH 10	College Prep	2	2	10th
SJ2221-22	ENGLISH 10 HONORS	Honors	2	2	10th
SJ2250	CREATIVE WRITING	College Prep	1	1	10th-12th
SJ2290	STUDENT MEDIA	College Prep	1	1	10th-12th
SJ2311-12	AMERICAN LITERATURE	College Prep	2	2	11th
SJ2321-22	AP ENGLISH LITERATURE & COMPOSITION	AP	2	2	11th
SJ2350	THEMES IN LITERATURE: NARRATIVES OF REDEMPTION	College Prep	1	1	11th-12th
SJ2390	THEMES IN LITERATURE: SEARCH FOR IDENTITY	College Prep	1	1	11th-12th
SJ2410	COMPOSITION	College Prep	1	1	12th
SJ2421-22	AP ENGLISH LANGUAGE & COMPOSITION	AP	2	2	12th
SJ2430 [IU W131]	ADVANCED ENGLISH, COLLEGE CREDIT: ACP READING, WRITING, & INQUIRY	Honors [Dual credit]	1	1	12th
SJ2440 [IU L202]	ADVANCED ENGLISH, COLLEGE CREDIT: ACP LITERARY INTERPRETATION	Honors [Dual credit]	1	1	12th

Typical Course Sequences

Arrows indicate a normal sequence of classes. Other types of movement are possible, but must have approval of the current teacher, department chair, and school counselor. Elective courses can be taken concurrently with required courses at the indicated levels.



SJ2000	LANGUAGE ARTS LAB	College Prep	1 sem.	1 cred.	9th-12th
--------	-------------------	--------------	--------	---------	----------

LANGUAGE ARTS LAB is a supplemental course that provides students with individualized or small group instruction designed to support success in completing coursework aligned with the Indiana Academic Standards for English Language/Arts focusing on the writing standards. All students should be concurrently enrolled in an English course in which class work will address all of the Indiana Academic Standards.

- May be taken multiple times (up to 8 credits)
- Counts as an elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ2111-12	ENGLISH 9	College Prep	2 sem.	2 cred.	9th grade
SJ2121-22	ENGLISH 9 HONORS	Honors	2 sem.	2 cred.	9th grade

ENGLISH 9, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and oral communication, focusing on literature within an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative), narrative, and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information.

- Fulfills an English/Language Arts requirement for all diplomas

ENGLISH 9 HONORS is for the student who has a serious interest in English and who is ready to accept the challenge offered in exploration of the various aspects of communication: reading, writing, speaking, and listening. The course includes strengthening vocabulary, developing critical thinking skills, analyzing works from a variety of genres, writing assignments that are both imaginative and disciplined, and honing effective speaking tools.

SJ2211-12	ENGLISH 10	College Prep	2 sem.	2 cred.	10th grade
SJ2221-22	ENGLISH 10 HONORS	Honors	2 sem.	2 cred.	10th grade

ENGLISH 10, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and oral communication, focusing on literature within an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative), narrative, and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information.

- Fulfills an English/Language Arts requirement for all diplomas

ENGLISH 10 HONORS builds on the foundation of ENGLISH 9 HONORS. Emphasis is placed on reading literary classics and mythology, writing essays of increasing complexity, and presenting formal speeches. A student accepting the challenge of this course is expected to read regularly and carefully and to be able to master material without classroom drill. A research paper is required.

- **Course Reading:** Summer reading is required prior to this course.
- Please see the “Qualifying for AP/Honors” note at the top of the English section.

SJ2250	CREATIVE WRITING	College Prep	1 sem.	1 cred.	10th-12th
--------	------------------	--------------	--------	---------	-----------

CREATIVE WRITING, a course based on the Indiana Academic Standards for English/Language Arts, is a study and application of the rhetorical writing strategies for prose and poetry. Using the writing process, students demonstrate a command of vocabulary, the nuances of language and vocabulary, English language conventions, an awareness of the audience, the purposes for writing, and the style of their own writing.

- Prerequisite: ENGLISH 10
- Fulfills an English/Language Arts requirement for all diplomas
- **Course Project:** Students must complete a project, such as a short story, a narrative or epic poem, a persuasive speech or letter, a book review, a script or short play, or other creative compositions, which demonstrates knowledge, application, and writing progress in the course content.

SJ2290	STUDENT MEDIA	College Prep	1 sem.	1 cred.	10th-12th
--------	---------------	--------------	--------	---------	-----------

STUDENT MEDIA, a course based on the High School Journalism Standards and the Student Media Standards, is the continuation of the study of Journalism. Students demonstrate their ability to do journalistic writing and design for high school media, including school newspapers, yearbooks, and a variety of other media formats. Students follow the ethical principles and legal boundaries that guide scholastic journalism. Students express themselves publicly with meaning and clarity for the purpose of informing, entertaining, or persuading. Students work on high school media staffs so that they may prepare themselves for career paths in journalism, communications, writing, or related fields.

- Prerequisite: Departmental approval
- May be taken multiple times (up to 4 credits)
- Responsibilities of the course include contributing to Broadcasting, Newspaper, and Yearbook
- Does not count as an English elective
- Counts as a directed elective or elective for all diplomas
- Fulfills Fine Arts requirement for Core 40 with Academic Honors
- Not an approved core course by the NCAA Clearinghouse

SJ2311-12	AMERICAN LITERATURE	College Prep	2 sem.	2 cred.	11th grade
-----------	---------------------	--------------	--------	---------	------------

AMERICAN LITERATURE, a course based on the Indiana Academic Standards for English/Language Arts, is a study of representative works and authors of the United States. Students read, analyze, evaluate, critique, and actively respond to a wide variety of literary genres that reflect American culture, including quality works of various

ethnic and cultural minorities. Students compare readings and media from literature, history, and other subjects by demonstrating how the ideas and concepts presented in the works are interconnected, distinctly American, and important to an understanding of the development of the current culture.

- Fulfills an English/Language Arts requirement for all diplomas

SJ2321-12	AP ENGLISH LITERATURE & COMPOSITION	AP	2 sem.	2 cred.	11th grade
-----------	-------------------------------------	----	--------	---------	------------

AP ENGLISH LITERATURE & COMPOSITION is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work’s structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. A comprehensive description of this course can be found on the College Board AP Central course pages at

<https://apcentral.collegeboard.org/courses>.

- Fulfills an English/Language Arts requirement for all diplomas
- **Course Reading:** Summer reading is required prior to this course.
- Please see the “Qualifying for AP/Honors” note at the top of the English section.
- Students enrolled in this course are expected to take the corresponding AP exam.

SJ2350	THEMES IN LITERATURE: NARRATIVES OF REDEMPTION	College Prep	1 sem.	1 cred.	11th-12th
SJ2390	THEMES IN LITERATURE: SEARCH FOR IDENTITY	College Prep	1 sem.	1 cred.	11th-12th

THEMES IN LITERATURE, a course based on Indiana’s Academic Standards for English/Language Arts is a study of universal themes. Students examine representative works in various genres by authors of diverse eras and nationalities and the way themes may be treated differently in the works because of the cultural context. Students analyze how themes illuminate humanity’s struggle to understand the human condition.

- Fulfills an English/Language Arts requirement for all diplomas

SEARCH FOR IDENTITY will focus on the search for identity.

NARRATIVES OF REDEMPTION will focus on the theme of character redemption in narratives.

- **Course Project:** Students must complete a project, such as doing an historical timeline and bibliography on the development of film or the creation of a short-subject film, which demonstrates knowledge, application, and progress in the course content.

SJ2410	COMPOSITION	College Prep	1 sem.	1 cred.	12th grade
--------	-------------	--------------	--------	---------	------------

COMPOSITION, a course based on the Indiana Academic Standards for English/Language Arts, is a study and application of the rhetorical writing strategies of narration, description, exposition, and persuasion. Using the writing process, students demonstrate a command of vocabulary, English language conventions, research and organizational skills, an awareness of the audience, the purpose for writing, and style. Students read classic and contemporary literature or articles and use appropriate works as models for writing. Students write a variety of types of compositions with a focus on fictional narratives, reflective compositions, academic essays, and responses to literature.

- Fulfills an English/Language Arts requirement for all diplomas

SJ2421-22	AP ENGLISH LANGUAGE & COMPOSITION	AP	2 sem.	2 cred.	12th gr.
-----------	-----------------------------------	----	--------	---------	----------

AP ENGLISH LANGUAGE & COMPOSITION is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The course focuses on the development and revision of evidence-based analytic and argumentative writing and rhetorical analysis of

nonfiction texts. The course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. There is no prescribed sequence of study. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Fulfills an English/Language Arts requirement for all diplomas
- **Course Reading:** Summer reading is required prior to this course.
- Please see the “Qualifying for AP/Honors” note at the top of the English section.
- Students enrolled in this class are expected to take the corresponding AP exam.

SJ2430 [IU W131]	ADVANCED ENGLISH, COLLEGE CREDIT: ACP READING, WRITING, & INQUIRY	Honors [Dual Credit]	1 sem.	1 cred.	12th grade
SJ2440 [IU L202]	ADVANCED ENGLISH, COLLEGE CREDIT: ACP LITERARY INTERPRETATION	Honors [Dual Credit]	1 sem.	1 cred.	12th grade

ADVANCED ENGLISH, COLLEGE CREDIT is an advanced course based on the Indiana Academic Standards for English/Language Arts in grades 11 and 12. This course title covers any English language and composition advanced course offered for credit by an accredited postsecondary institution through an adjunct agreement with a secondary school.

- Fulfills an English/Language Arts requirement for all diplomas

READING, WRITING, & INQUIRY is dual credit through ACP, Indiana University. It includes instruction and practice in the reading, writing, and critical thinking skills required in college. Emphasis is on written assignments that require synthesis, analysis, and argument based on sources.

- Students earn 3 credits from Indiana University

LITERARY INTERPRETATION is dual credit through ACP, Indiana University. It develops critical skills essential to participation in the interpretive process. Through class discussion and focused writing assignments, it introduces the premises and motives of literary analysis and critical methods associated with historical generic and/or cultural concerns.

- Prerequisite: READING, WRITING, & INQUIRY
- Students earn 3 credits from Indiana University, assuming credit was earned from the prerequisite course

Mathematics Department

Mathematics is the key to unlocking the mysteries of science, business, psychology, and many other areas of life. As such, its study cannot be limited to rote memorization of rules and formulas but must encompass a much broader and richer understanding of the concepts.

Technology is integrated into the curriculum. The TI-83+ graphing calculator is required for all courses except Calculus (in which the TI-89 is preferred). Previous experience on the calculator is advantageous but not mandatory.

Qualifying for AP/Honors in Mathematics

Students interested in remaining on the honors track must meet the following criteria in their previous honors class:

- B+ grade in the previous class qualifies for placement in an honors level class.
- B/B- grade in the previous class requires teacher approval.
- C+ or lower in the previous class requires department chair approval.

Students interested in moving up to the honors track must meet the following criteria:

- B+ or higher grade in the previous college prep class will require departmental approval.
- B or lower does not meet the criteria for enrollment in an AP/Honors course by the Mathematics Department.

#	Course Title	Grading Scale	Sems	Credits	Grades
SJ3000	MATHEMATICS LAB	College Prep	1	1	9th-12th
SJ3010	ALGEBRA 1 LAB	College Prep	1	1	9th-12th
SJ3111-12	ALGEBRA 1	College Prep	2	2	9th
SJ3121-22	ALGEBRA 1 HONORS	Honors	2	2	9th
SJ3201-02	GEOMETRY	College Prep	2	2	9th-10th
SJ3211-12	GEOMETRY	College Prep	2	2	9th-10th
SJ3221-22	GEOMETRY HONORS	Honors	2	2	9th-10th
SJ3301-02	ALGEBRA 2	College Prep	2	2	10th-12th
SJ3311-12	ALGEBRA 2	College Prep	2	2	10th-11th
SJ3321-22	ALGEBRA 2 HONORS	Honors	2	2	9th-11th
SJ3350	FINITE MATHEMATICS	College Prep	1	1	11th-12th
SJ3360	PROBABILITY AND STATISTICS	College Prep	1	1	11th-12th
SJ3400	TRIGONOMETRY	College Prep	1	1	11th-12th
SJ3410	PRECALCULUS	College Prep	1	1	11th-12th
SJ3421-22	PRECALCULUS / TRIGONOMETRY HONORS	Honors	2	2	10th-12th
SJ3451-52 [IU M118]	ADVANCED MATHEMATICS, COLLEGE CREDIT: ACP FINITE MATHEMATICS	Honors [Dual Credit]	2	2	12th
SJ3521-22	AP CALCULUS AB	AP	2	2	11th-12th
SJ3541-42	AP STATISTICS	AP	2	2	11th-12th
SJ3621-22	AP CALCULUS BC	AP	2	2	11th-12th
SJ3720	ADVANCED MATHEMATICS, SPECIAL TOPICS: CALCULUS III	Honors	1	1	12th

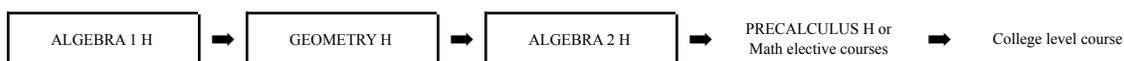
SJ3740	ADVANCED MATHEMATICS, SPECIAL TOPICS: NUMBER THEORY	Honors	1	1	12th
--------	---	--------	---	---	------

Typical Course Sequences

Arrows indicate a normal sequence of classes. Other types of movement are possible, but must have approval of the current teacher, department chair, and school counselor. In most cases, either a department recommendation or a special placement exam is required to start farther along a sequence.



Some students may need support to complete this core sequence. For them, *alternate* enrollment may be required in a scaffolded version of the course; these are indicated in this program by a different course number. For certain students who need extra support, *supplementary* enrollment may be required in a LAB course.



SJ3000	MATHEMATICS LAB	College Prep	1 sem.	1 cred.	9th-12th
--------	-----------------	--------------	--------	---------	----------

MATHEMATICS LAB provides students with individualized instruction designed to support success in completing mathematics coursework aligned with Indiana’s Academic Standards for Mathematics.

- Corequisite: GEOMETRY or ALGEBRA 2
- May be taken multiple times (up to 4 credits)
- Counts as an elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ3010	ALGEBRA 1 LAB	College Prep	1 sem.	1 cred.	9th-12th
--------	---------------	--------------	--------	---------	----------

ALGEBRA 1 LAB is a mathematics support course for ALGEBRA 1. It is taken while students are concurrently enrolled in ALGEBRA 1. It provides students with additional time to build the foundations necessary for high school math courses, while concurrently having access to rigorous, grade-level appropriate courses. The five critical areas of the course align with the critical areas of ALGEBRA 1: Relationships between Quantities and Reasoning with Equations; Linear and Exponential Relationships; Descriptive Statistics; Expressions and Equations; and Quadratic Functions and Modeling. However, whereas ALGEBRA 1 contains exclusively grade-level content, this course combines standards from high school courses with foundational standards from the middle grades.

- Corequisite: ALGEBRA 1
- May be taken multiple times (up to 2 credits)
- Counts as an elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ3111-12	ALGEBRA 1	College Prep	2 sem.	2 cred.	9th grade
SJ3121-22	ALGEBRA 1 HONORS	Honors	2 sem.	2 cred.	9th grade

ALGEBRA 1 formalizes and extends the mathematics students learned in the middle grades. The course is made up of six strands: Number Systems and Expressions; Functions; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics. These critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students will also engage in methods for analyzing, solving, and using quadratic functions.

- Fulfills the Algebra 1 requirement for all diplomas

In ALGEBRA 1 HONORS, the normal study of ALGEBRA 1 is completed at an accelerated pace and with increased depth. Students are expected to complete extra projects and to participate regularly in local and national contests. The course is intended for the highly interested and motivated as well as mathematically talented student.

SJ3201-02	GEOMETRY	College Prep	2 sem.	2 cred.	9th-10th
SJ3211-12	GEOMETRY	College Prep	2 sem.	2 cred.	9th-10th
SJ3221-22	GEOMETRY HONORS	Honors	2 sem.	2 cred.	9th-10th

GEOMETRY formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Seven critical areas comprise the course: Logic and Proofs; Points, Lines, Angles, and Planes; Triangles; Quadrilaterals and Other Polygons; Circles; Transformations; and Three-dimensional Solids.

- Prerequisite: ALGEBRA 1
- Fulfills the Geometry requirement for all diplomas

Students identified as needing extra support from ALGEBRA 1 may be enrolled in a special scaffolded section of SJ3201-02. The goal is to buttress their Algebra skills while simultaneously covering Geometry content.

In GEOMETRY HONORS, the normal study of Geometry is completed at an accelerated pace and with increased depth. Students are expected to complete extra projects and to participate regularly in local and national contests.

The course is intended for the highly interested and motivated as well as mathematically talented student.

- Prerequisite: "B+" in ALGEBRA 1 HONORS or departmental approval
- Please see the "Qualifying for AP/Honors" note at the top of the Mathematics section.

SJ3301-02	ALGEBRA 2	College Prep	2 sem.	2 cred.	10th-12th
SJ3311-12	ALGEBRA 2	College Prep	2 sem.	2 cred.	10th-11th
SJ3321-22	ALGEBRA 2 HONORS	Honors	2 sem.	2 cred.	9th-11th

This course builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Algebra II is made up of seven strands: Complex Numbers and Expressions; Functions; Systems of Equations; Quadratic Equations and Functions; Exponential & Logarithmic Equations and Functions; Polynomial, Rational, and Other Equations and Functions; and Data Analysis, Statistics, and Probability.

- Prerequisite: GEOMETRY
- Fulfills the Algebra 2 requirement for all diplomas

Students identified as needing extra support from GEOMETRY may be enrolled in a special scaffolded section of SJ3301-02. The goal is to buttress the previous skills while simultaneously covering Algebra 2 content.

In ALGEBRA 2 HONORS, the normal study of Algebra 2 is completed at an accelerated pace and with increased depth. Students are expected to complete extra projects and to participate regularly in local and national contests. The course is intended for the highly interested and motivated as well as mathematically talented student.

- Prerequisite: "B+" in GEOMETRY HONORS or departmental approval
- Please see the "Qualifying for AP/Honors" note at the top of the Mathematics section.

SJ3350	FINITE MATHEMATICS	College Prep	1 sem.	1 cred.	11th-12th
--------	--------------------	--------------	--------	---------	-----------

FINITE MATHEMATICS is a collection of mathematical topics, frequently used in business or public policy contexts. It is designed for students who will undertake higher-level mathematics in college that may not include calculus. Finite Math is made up of five strands: Sets; Matrices; Networks; Optimization; and Probability. The skills listed in these strands indicate what students should know and be able to do in Finite Math.

- Prerequisite: ALGEBRA 2

SJ3360	PROBABILITY AND STATISTICS	College Prep	1 sem.	1 cred.	11th-12th
--------	----------------------------	--------------	--------	---------	-----------

PROBABILITY AND STATISTICS includes the concepts and skills needed to apply statistical techniques in the decision-making process. It is made up of three strands: Data Analysis; Experimental Design; and Probability. Practical examples based on real experimental data are used throughout. Students plan and conduct experiments or surveys and analyze the resulting data. The use of graphing technology and computer programs is encouraged.

- Prerequisite: ALGEBRA 2

SJ3400	TRIGONOMETRY	College Prep	1 sem.	1 cred.	11th-12th
--------	--------------	--------------	--------	---------	-----------

TRIGONOMETRY provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. This course provides the foundation for common periodic functions that are encountered in many disciplines, including music, engineering, medicine, finance, and nearly all other STEM disciplines. It consists of six strands: Unit Circle; Triangles; Periodic Functions; Identities; Polar Coordinates and Complex Numbers; and Vectors. Students will advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates. A strong understanding of complex and imaginary numbers is a necessity for fields such as engineering and computer programming.

- Prerequisite: ALGEBRA 2

SJ3410	PRECALCULUS	College Prep	1 sem.	1 cred.	11th-12th
--------	-------------	--------------	--------	---------	-----------

PRECALCULUS extends the foundations of algebra and functions developed in previous courses to new functions, including exponential and logarithmic functions, and to sequences and series. The course provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. It is made up of five strands: Functions; Quadratic, Polynomial, and Rational Equations and Functions; Exponential and Logarithmic Functions; Sequences and Series; and Conics. The course is designed for students who expect math to be a major component of their future college and career experiences, and as such it is designed to provide students with strong foundations for calculus and other higher-level math courses.

- Prerequisite: “B+” in ALGEBRA 2 and TRIGONOMETRY

SJ3421-22	PRECALCULUS / TRIGONOMETRY HONORS	Honors	2 sem.	2 cred.	10th-12th
-----------	-----------------------------------	--------	--------	---------	-----------

The normal study of both the TRIGONOMETRY and PRECALCULUS courses are completed at an accelerated pace and with increased depth. Students are expected to complete extra projects and to participate regularly in local and national contests. The course is intended for the highly interested and motivated as well as mathematically talented student.

- Prerequisite: “B+” in ALGEBRA 2 HONORS and departmental approval
- Please see the “Qualifying for AP/Honors” note at the top of the Mathematics section.

SJ3451-52 [IU M118]	ADVANCED MATHEMATICS, COLLEGE CREDIT: ACP FINITE MATHEMATICS	Honors [Dual Credit]	2 sem.	2 cred.	12th grade
------------------------	---	-------------------------	--------	---------	------------

FINITE MATHEMATICS is dual credit through ACP, Indiana University. This course covers sets, counting, basic probability, including random variables and expected values, linear systems, matrices, linear programming, and applications.

- Prerequisites: PRECALCULUS and departmental approval

SJ3521-22	AP CALCULUS AB	AP	2 sem.	2 cred.	11th-12th
-----------	----------------	----	--------	---------	-----------

AP CALCULUS AB is a course based on content established by the College Board. This course is not intended to be used as a dual credit course. It is equivalent to a first-semester college calculus course devoted to topics in differential and integral calculus. This course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally and to make connections amongst these representations. Students learn how to use technology to help solve problems,

experiment, interpret results, and support conclusions. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisites: PRECALCULUS and departmental approval
- Please see the “Qualifying for AP/Honors” note at the top of the Mathematics section.
- Students enrolled in this class are expected to take the AP exam.

SJ3541-42	AP STATISTICS	AP	2 sem.	2 cred.	11th-12th
-----------	---------------	----	--------	---------	-----------

AP STATISTICS is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. It is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the *AP Statistics* course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisite: PRECALCULUS or PROBABILITY AND STATISTICS
- Please see the “Qualifying for AP/Honors” note at the top of the Mathematics section.
- Students enrolled in this class are expected to take the AP exam.

SJ3621-22	AP CALCULUS BC	AP	2 sem.	2 cred.	11th-12th
-----------	----------------	----	--------	---------	-----------

AP CALCULUS BC is a course based on content established by the College Board. This course is not intended to be used as a dual credit course. It is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AP Calculus AB to different types of equations and introduces the topic of sequences and series. This course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisites: PRECALCULUS/TRIGONOMETRY HONORS and departmental approval
- Please see the “Qualifying for AP/Honors” note at the top of the Mathematics section.
- Students enrolled in this class are expected to take the AP exam.

SJ3720	ADVANCED MATHEMATICS, SPECIAL TOPICS: CALCULUS III	Honors	1 sem.	1 cred.	12th grade
SJ3740	ADVANCED MATHEMATICS, SPECIAL TOPICS: NUMBER THEORY	Honors	1 sem.	1 cred.	12th grade

ADVANCED MATHEMATICS, SPECIAL TOPICS is the course title that is to be used for reporting by schools that offer mathematics courses beyond the scope of approved courses.

- Prerequisites: AP CALCULUS BC and departmental approval
- Please see the “Qualifying for AP/Honors” note at the top of the Mathematics section.
- These courses are independent study.

CALCULUS III is patterned after M311: CALCULUS III, taught at Indiana University South Bend. Topics include: solid analytic geometry, functions of several variables, partial differentiation, multiple integration, vector fields, line and surface integrals, and Stokes' and Green's Theorems.

NUMBER THEORY is patterned after M405: NUMBER THEORY, taught at Indiana University South Bend. Topics include: numbers and their representation, divisibility and factorization, primes and their distribution, number theoretic functions, congruences, primitive roots, diophantine equations, quadratic residues, sums of squares.

Science Department

Scientific literacy is no longer reserved for a small group of students with special interests in the sciences. Today it is necessary that everyone understand scientific information and the methods used to obtain it in making everyday choices, in engaging in public discourse about important societal issues, and in order to succeed in the workplace. In concert with the national Science Education Standards and the Indiana State Science Standards, it is the goal of our science curriculum to develop the knowledge and understanding, skills, and critical thinking which are the foundations of scientific literacy for all students.

Qualifying for AP/Honors in Science

Students interested in remaining on the honors track must meet the following criteria in their previous honors class:

- B+ grade in the previous class qualifies for placement in an honors level class.
- B/B- grade in the previous class requires teacher approval.
- C+ or lower in the previous class requires department chair approval.

Students interested in moving up to the honors track must meet the following criteria:

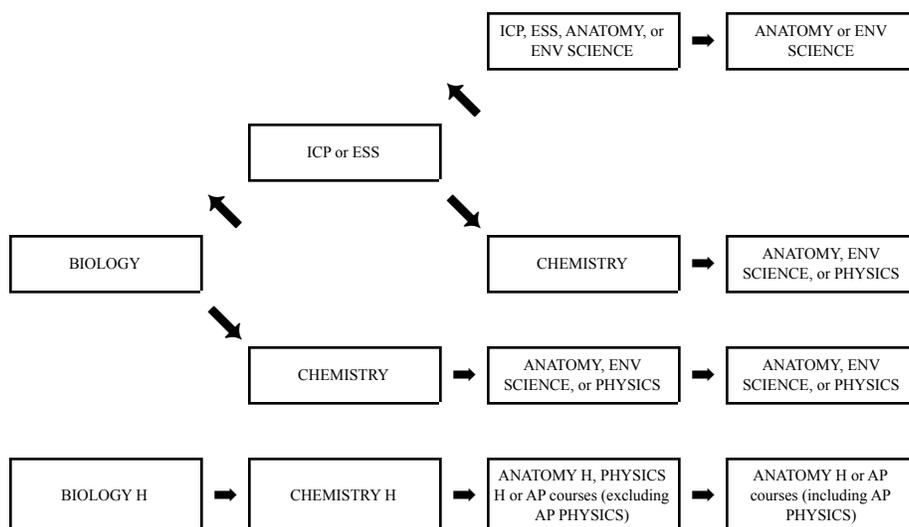
- B+ or higher grade in the previous college prep class will require departmental approval.
- B or lower does not meet the criteria for enrollment in an AP/Honors course by the Science Department.

To enroll in an AP course, students and parents must sign an AP Science contract committing to taking the corresponding exam. Students not meeting stated criteria in the first three weeks will be asked to drop the class.

#	Course Title	Grading Scale	Sems	Credits	Grades
SJ4111-12	BIOLOGY I (L)	College Prep	2	2	9th
SJ4121-22	BIOLOGY I HONORS (L)	Honors	2	2	9th
SJ4201-02	INTEGRATED CHEMISTRY-PHYSICS (L)	College Prep	2	2	10th-11th
SJ4211-12	CHEMISTRY I (L)	College Prep	2	2	10th-11th
SJ4221-22	CHEMISTRY I HONORS (L)	Honors	2	2	10th-11th
SJ4251-52	EARTH AND SPACE SCIENCE I (L)	College Prep	2	2	10th-11th
SJ4321-22	AP BIOLOGY (L)	AP	2	2	11th-12th
SJ4341-42	AP CHEMISTRY (L)	AP	2	2	11th-12th
SJ4351-52	PHYSICS I (L)	College Prep	2	2	11th-12th
SJ4361-62	PHYSICS I HONORS (L)	Honors	2	2	11th-12th
SJ4371-72	ANATOMY AND PHYSIOLOGY (L)	College Prep	2	2	11th-12th
SJ4381-82	ANATOMY AND PHYSIOLOGY HONORS (L)	Honors	2	2	11th-12th
SJ4391-92	ENVIRONMENTAL SCIENCE (L)	College Prep	2	2	11th-12th
SJ4461-62	AP PHYSICS C (L)	AP	2	2	12th
SJ4491-92	AP ENVIRONMENTAL SCIENCE (L)	AP	2	2	11th-12th

Typical Course Sequences

The following tracks are the typical sequence of coursework. Other types of movement are possible, but must have approval of the current teacher, department chair, and school counselor.



SJ4111-12	BIOLOGY I (L)	College Prep	2 sem.	2 cred.	9th grade
SJ4121-22	BIOLOGY I HONORS (L)	Honors	2 sem.	2 cred.	9th grade

BIOLOGY I is a course based on the following core topics: cellular structure and function, matter cycles and energy transfer; interdependence; inheritance and variation in traits; evolution. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by the Science and Engineering Practices (SEPS) and cross-cutting concepts.

- Fulfills the Biology requirement for all diplomas

The objectives of BIOLOGY I HONORS are comparable to those of BIOLOGY I, but the material is covered in a different sequence and greater depth with emphasis on independent study and student initiative. Students are expected to have a high interest in science (especially biology), to read well with high comprehension, and to be self-motivated and capable of pursuing independent learning. *Mature study skills are necessary.*

- Prerequisite: Departmental approval

SJ4201-02	INTEGRATED CHEMISTRY-PHYSICS (L)	College Prep	2 sem.	2 cred.	10th-11th
-----------	----------------------------------	--------------	--------	---------	-----------

INTEGRATED CHEMISTRY-PHYSICS is a course focused on the following core topics: constant velocity; uniform acceleration; Newton's Laws of motion (one dimension); energy; particle theory of matter; describing substances; representing chemical change; electricity and magnetism; waves; nuclear energy. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation using the Science and Engineering Practices (SEPS) and cross-cutting concepts.

- Prerequisites: ALGEBRA 1, BIOLOGY I
- Fulfills a Physical Science requirement for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Counts as an elective for all diplomas

SJ4211-12	CHEMISTRY I (L)	College Prep	2 sem.	2 cred.	10th-11th
SJ4221-22	CHEMISTRY I HONORS (L)	Honors	2 sem.	2 cred.	10th-11th

CHEMISTRY I is a course based on the following core topics: properties and states of matter; atomic structure and the Periodic Table; bonding and molecular structure; reactions and stoichiometry; behavior of gases; thermochemistry; solutions; acids and bases. Students enrolled in Chemistry I compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of its interactions. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, the Science and Engineering Practices (SEPS) and cross-cutting concepts.

- Corequisite: ALGEBRA 2
- Fulfills the Physical Science requirement for all diplomas
- Counts as a quantitative reasoning course for all diplomas

CHEMISTRY I HONORS presents a comprehensive introduction to chemistry with emphasis on periodic relationships and stoichiometry. Laboratory experiments provide a means for developing techniques of problem solving and scientific analysis. Quarter projects of an independent nature involving both written and experimental research are required.

- Prerequisite: GEOMETRY HONORS
- Please see the “Qualifying for AP/Honors” note at the top of the Science section.

SJ4251-52	EARTH AND SPACE SCIENCE I (L)	College Prep	2 sem.	2 cred.	10th-11th
-----------	-------------------------------	--------------	--------	---------	-----------

EARTH AND SPACE SCIENCE I is a course focused on the following core topics: universe; solar system; Earth cycles and systems; atmosphere and hydrosphere; solid Earth; Earth processes. Students analyze and describe earth’s interconnected systems and examine how earth’s materials, landforms, and continents are modified across geological time. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by the Science and Engineering Practices (SEPS) and cross-cutting concepts.

- Prerequisite: BIOLOGY I
- Fulfills a Science requirement for all diplomas
- Counts as an elective for all diplomas

SJ4321-22	AP BIOLOGY (L)	AP	2 sem.	2 cred.	11th-12th
-----------	----------------	----	--------	---------	-----------

AP BIOLOGY is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The major themes of the course include: The process of evolution drives the diversity and unity of life, Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis; Living systems store, retrieve, transmit and respond to information essential to life processes; Biological systems interact, and these systems and their interactions possess complex properties. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisites: CHEMISTRY I and departmental approval
- Counts as a quantitative reasoning course for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the Science section.
- Requires significant additional time outside of class
- Students enrolled in this class are contracted to take the AP exam.

SJ4341-42	AP CHEMISTRY (L)	AP	2 sem.	2 cred.	11th-12th
-----------	------------------	----	--------	---------	-----------

AP CHEMISTRY is a course based on the content established by the College Board. This course is not intended to be used as a dual credit course. The content includes: (1) structure of matter: atomic theory and structure, chemical bonding, molecular models, nuclear chemistry; (2) states of matter: gases, liquids and solids, and solutions; and (3) reactions: reaction types, stoichiometry, equilibrium, kinetics, and thermodynamics. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisites: CHEMISTRY I and departmental approval
- Counts as a quantitative reasoning course for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the Science section.
- Students enrolled in this class are contracted to take the AP exam.

SJ4351-52	PHYSICS I (L)	College Prep	2 sem.	2 cred.	11th-12th
SJ4361-62	PHYSICS I HONORS (L)	Honors	2 sem.	2 cred.	11th-12th

PHYSICS I is a course focused on the following core topics: constant velocity; constant acceleration; forces; energy; linear momentum in one dimension; simple harmonic oscillating systems; mechanical waves and sound; simple circuit analysis. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation using the Science and Engineering Practices (SEPS) and cross-cutting concepts.

- Prerequisite: CHEMISTRY I
- Corequisite: TRIGONOMETRY or departmental approval
- Fulfills the Physical Science requirement for all diplomas
- Counts as a quantitative reasoning course for all diplomas
- Counts as an elective for all diplomas

PHYSICS I HONORS is comparable to PHYSICS I, but the material is covered in greater depth with emphasis on independent study and student initiative. Students are expected to have a high interest in science (especially physics), to have high mathematics skills, to read well with high comprehension, and to be self-motivated and capable of pursuing independent learning. *Mature study skills are necessary.*

- Corequisites: PRECALCULUS and departmental approval
- Please see the “Qualifying for AP/Honors” note at the top of the Science section.

SJ4371-72	ANATOMY AND PHYSIOLOGY (L)	College Prep	2 sem.	2 cred.	11th-12th
SJ4381-82	ANATOMY AND PHYSIOLOGY HONORS (L)	Honors	2 sem.	2 cred.	11th-12th

ANATOMY AND PHYSIOLOGY is a course in which students investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. It introduces students to the cell, which is the basic structural and functional unit of all organisms, and covers tissues, integumentary, skeletal, muscular, and nervous systems as an integrated unit. Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy & Physiology. Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields.

- Prerequisite: CHEMISTRY I
- Counts as an elective for all diplomas

ANATOMY AND PHYSIOLOGY HONORS is an advanced course in which students investigate and apply concepts associated with human anatomy and physiology. Concepts include the processes of homeostasis and hemostasis, human genetics, and the structural and functional breakdown of the human body’s systems at the cellular levels. In this course, students will learn through a variety of sources, fetal pig dissection, research papers, and research presentations. Peripheral contacts are expected, and students will be expected to establish a regular working routine with health care workers in the community. Considerable time will be devoted to the discussion of ethical, legal, and social implications of advancement in medical technology and disease research. Students must have an understanding of the human body’s systems, be highly motivated and interested in all components of the human body and be devoted to time outside of class for preparation and advanced learning. This course is designed for students interested in pursuing medical and health care degrees in college.

- Prerequisite: CHEMISTRY I HONORS or departmental approval
- Please see the “Qualifying for AP/Honors” note at the top of the Science section.

SJ4391-92	ENVIRONMENTAL SCIENCE (L)	College Prep	2 sem.	2 cred.	11th-12th
-----------	---------------------------	--------------	--------	---------	-----------

ENVIRONMENTAL SCIENCE is an interdisciplinary course that integrates biology, earth science, chemistry, and other disciplines. Students completing this course acquire the essential tools for understanding the complexities of national and global environmental systems. Students enrolled in this course conduct in-depth scientific studies of environmental systems, flow of matter and energy, natural disasters, environmental policies, biodiversity, population, pollution, and natural and anthropogenic resource cycles. Cross-cutting concepts are an integral part of this course. Students formulate, design, and carry out laboratory and field investigations as an essential course component using the Science and Engineering Practices.

- Prerequisite: CHEMISTRY I
- Counts as an elective for all diplomas

SJ4461-62	AP PHYSICS C (L)	AP	2 sem.	2 cred.	12th gr.
-----------	------------------	----	--------	---------	----------

AP PHYSICS C is a course based on the content established by the College Board. The course is not intended to be used as a dual credit course. There are two AP Physics C courses: Mechanics and Electricity and Magnetism.

Mechanics provides instruction in each of the following six content areas: kinematics; Newton’s laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Electricity and Magnetism provides instruction in the following five content areas: electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. A comprehensive description of this course can be found on the College Board AP Central course pages at

<https://apcentral.collegeboard.org/courses>.

- Prerequisites: PHYSICS I and departmental approval
- Corequisite: AP CALCULUS AB
- Counts as a quantitative reasoning course for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the Science section.
- Students enrolled in this class are contracted to take the AP exam.

SJ4491-92	AP ENVIRONMENTAL SCIENCE (L)	AP	2 sem.	2 cred.	11th-12th
-----------	------------------------------	----	--------	---------	-----------

AP ENVIRONMENTAL SCIENCE is a course based on content established by the College Board. This course is not intended to be used as a dual credit course. Students enrolled in this course investigate the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisite: CHEMISTRY I
- Counts as a quantitative reasoning course for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the Science section.
- Students enrolled in this class are contracted to take the AP exam.

Social Studies Department

The goal of Social Studies education is the development of informed, responsible citizens who participate effectively in our democracy. Social Studies courses teach critical thinking about social issues, promote Christian values, model respect for others, and promote responsible and informed citizenship. The courses continue to build upon skills and knowledge acquired at earlier stages of the education process, especially developing skills in listening, reading, speaking, researching, analyzing, and writing. Additionally the Saint Joseph Social Studies department encourages students to engage in active learning through constant promotion of lectures, seminars, film, and cultural events in the South Bend community.

Qualifying for AP/Honors in Social Studies

Students interested in remaining on the honors track must meet the following criteria in their previous honors class:

- B+ grade in the previous class qualifies for placement in an honors level class.
- B/B- grade in the previous class requires teacher approval.
- C+ or lower in the previous class requires department chair approval.

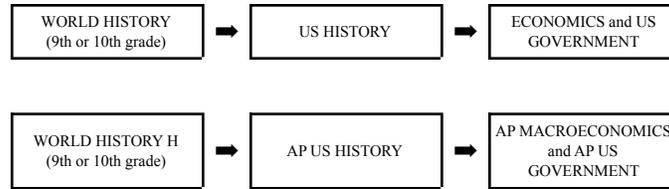
Students interested in moving up to the honors track must meet the following criteria:

- B+ or higher grade in the previous college prep class will require departmental approval.
- B or lower does not meet the criteria for enrollment in an AP/Honors course by the Social Studies Department.
- Students wishing to qualify for AP US History should take the AP US History skills assessment test in the spring of their sophomore year.

#	Course Title	Grading Scale	Sems	Credits	Grades
SJ5111-12	WORLD HISTORY AND CIVILIZATION	College Prep	2	2	9th-10th
SJ5121-22	WORLD HISTORY AND CIVILIZATION HONORS	Honors	2	2	9th-10th
SJ5211-12	GEOGRAPHY AND HISTORY OF THE WORLD	College Prep	2	2	10th-12th
SJ5250	SOCIOLOGY	College Prep	1	1	10th-12th
SJ5260	ETHNIC STUDIES	College Prep	1	1	10th-12th
SJ5270	INDIANA STUDIES	College Prep	1	1	10th-12th
SJ5311-12	US HISTORY	College Prep	2	2	11th
SJ5321-22	AP US HISTORY	AP	2	2	11th
SJ5350	ECONOMICS	College Prep	1	1	12th
SJ5360	AP MACROECONOMICS	AP	1	1	11th-12th
SJ5370	AP MICROECONOMICS	AP	1	1	11th-12th
SJ5380	PSYCHOLOGY	College Prep	1	1	11th-12th
SJ5410	US GOVERNMENT	College Prep	1	1	12th
SJ5420	AP US GOVERNMENT AND POLITICS	AP	1	1	12th
SJ5430	AP HUMAN GEOGRAPHY	AP	1	1	12th

Typical Course Sequences

Arrows indicate a normal sequence of classes. Other types of movement are possible, but must have approval of the current teacher, department chair, and school counselor. Elective courses are taken concurrently with required courses at the indicated levels.



SJ5111-12	WORLD HISTORY AND CIVILIZATION	College Prep	2 sem.	2 cred.	9th-10th
SJ5121-22	WORLD HISTORY AND CIVILIZATION HONORS	Honors	2 sem.	2 cred.	9th-10th

WORLD HISTORY AND CIVILIZATION emphasizes events and developments in the past that greatly affected large numbers of people across broad areas and that significantly influenced peoples and places in subsequent eras. Key events related to people and places as well as transcultural interaction and exchanges are examined in this course. Students are expected to compare and contrast events and developments involving diverse peoples and civilizations in different regions of the world. They will examine examples of continuity and change, universality and particularity, and unity and diversity among various peoples and cultures from the past to the present. Students are also expected to practice and process skills of historical thinking and research and apply content knowledge to the practice of thinking and inquiry skills and processes. There will be continuous and pervasive interactions of processes and content, skills and substance, in the teaching and learning of history.

- Fulfills the World History requirement for all diplomas
- Counts as an elective for all diplomas

WORLD HISTORY AND CIVILIZATION HONORS is a survey of the history of mankind. Emphasis is placed on the development of reading and research skills necessary for the study of history and on developing an understanding of historical concepts. There is much reading, writing and discussion of historical interpretation. Students will examine early civilizations such as Egypt, Mesopotamia, the Indus Valley and China. They will study the contributions of ancient Greece and Rome; examine the regional civilizations of medieval Europe, the culture of the Byzantine Empire and the development of the Islamic world. The Renaissance, the scientific and industrial revolutions and global imperialism will be analyzed. Students enrolling in this course should have good study and communication skills.

SJ5211-12	GEOGRAPHY AND HISTORY OF THE WORLD	College Prep	2 sem.	2 cred.	10th-12th
-----------	------------------------------------	--------------	--------	---------	-----------

GEOGRAPHY AND HISTORY OF THE WORLD is designed to enable students to use geographical tools, skills and historical concepts to deepen their understanding of major global themes including the origin and spread of world religions; exploration; conquest, and imperialism; urbanization; and innovations and revolutions. Geographical and historical skills include forming research questions, acquiring information by investigating a variety of primary and secondary sources, organizing information by creating graphic representations, analyzing information to determine and explain patterns and trends, planning for the future, and documenting and presenting findings orally or in writing. The historical geography concepts used to explore global themes include change over time, origin, diffusion, physical systems, cultural landscapes, and spatial distribution/patterns and interaction/relationships. Students use the knowledge, tools, and skills obtained from this course in order to analyze, evaluate, and make predictions about major global developments. This course is designed to nurture perceptive and responsible citizenship, to encourage and support the development of critical thinking skills and lifelong learning, and to help prepare Indiana students for the 21st Century.

- Fulfills the World History requirement for all diplomas

- Counts as an elective for all diplomas

SJ5250	SOCIOLOGY	College Prep	1 sem.	1 cred.	10th-12th
--------	-----------	--------------	--------	---------	-----------

SOCIOLOGY allows students to study human social behavior from a group perspective. The sociological perspective is a method of studying recurring patterns in people’s attitudes and actions and how these patterns vary across time, cultures, and in social settings and groups. Students describe the development of sociology as a social science and identify methods of research. Through research methods such as scientific inquiry students examine society, group behavior, and social structures. The influence of culture on group behavior is addressed through institutions such as the family, religion, education, economics, community organizations, government, and political and social groups. The impact of social groups and institutions on group and individual behavior and the changing nature of society will be examined. Influences on group behavior and social problems are included in the course. Students also analyze the role of individuals in the community and social problems in today’s world.

- Counts as an elective for all diplomas

SJ5260	ETHNIC STUDIES	College Prep	1 sem.	1 cred.	10th-12th
--------	----------------	--------------	--------	---------	-----------

Ethnic Studies provides opportunities to broaden students’ perspectives concerning lifestyles and cultural patterns of ethnic groups in the United States. This course will either focus on a particular ethnic group or groups, or use a comparative approach to the study of patterns of cultural development, immigration, and assimilation, as well as the contributions of specific ethnic or cultural groups. The course may also include analysis of the political impact of ethnic diversity in the United States.

- Counts as an elective for all diplomas

SJ5270	INDIANA STUDIES	College Prep	1 sem.	1 cred.	10th-12th
--------	-----------------	--------------	--------	---------	-----------

INDIANA STUDIES is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes the study of state and national constitutions from a historical perspective and as a current foundation of government. Examination of individual leaders and their roles in a democratic society will be included, and students will examine the participation of citizens in the political process. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions.

- Counts as an elective for all diplomas

SJ5311-12	US HISTORY	College Prep	2 sem.	2 cred.	11th grade
-----------	------------	--------------	--------	---------	------------

US HISTORY builds upon concepts developed in previous studies of US History and emphasizes national development from the late nineteenth century into the twenty-first century. After reviewing fundamental themes in the early development of the nation, students are expected to identify and review significant events, persons, and movements in the early development of the nation. The course then gives major emphasis to the interaction of key events, people, and political, economic, social, and cultural influences in national developments from the late nineteenth century through the present as they relate to life in Indiana and the United States. Students are expected to trace and analyze chronological periods and examine the significant themes and concepts in US History. Students develop historical thinking and research skills and use primary and secondary sources to explore topical issues and to understand the cause for changes in the nation over time.

- Fulfills the US History requirement for all diplomas

SJ5321-22	AP US HISTORY	AP	2 sem.	2 cred.	11th grade
-----------	---------------	----	--------	---------	------------

AP US HISTORY is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The course focuses on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance – identity; people; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture – provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisite: Departmental approval
- Fulfills the US History requirement for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the Social Studies section.
- Students enrolled in this class are expected to take the AP exam.

SJ5350	ECONOMICS	College Prep	1 sem.	1 cred.	12th grade
--------	-----------	--------------	--------	---------	------------

ECONOMICS examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes economic reasoning and behaviors of consumers, producers, savers, investors, workers, voters, institutions, governments, and societies in making decisions. Students explain that because resources are limited, people must make choices and understand the role that supply, demand, prices, and profits play in a market economy. Key elements of the course include the study of scarcity and economic reasoning; supply and demand; market structures; the role of government; national economic performance; the role of financial institutions; economic stabilization; and trade.

- Fulfills the Economics requirement for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas

SJ5360	AP MACROECONOMICS	AP	1 sem.	1 cred.	11th-12th
--------	-------------------	----	--------	---------	-----------

AP MACROECONOMICS is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. It is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. Topics include: Basic Economic Concepts; Measurement of Economic Performance; National Income and Price Determination; Financial Sector; Stabilization Policies; and Economic Growth. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisite: Departmental approval for 10th graders
- Corequisites: PRECALCULUS or PRECALCULUS HONORS
- Fulfills the Economics requirement for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Counts as an elective for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the Social Studies section.
- Students enrolled in this class are expected to take the AP exam.

SJ5370	AP MICROECONOMICS	AP	1 sem.	1 cred.	11th-12th
--------	-------------------	----	--------	---------	-----------

AP MICROECONOMICS is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. It is an introductory college-level course that focuses on the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. Topics include: Basic Economic Concepts; Nature and Functions of Product Markets; Factor Markets; and Market Failure and the Role of Government. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisites: AP MACROECONOMICS, "B+" or higher in AP US HISTORY
- Fulfills the Economics requirement for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Counts as an elective for all diplomas
- Please see the "Qualifying for AP/Honors" note at the top of the Social Studies section.
- Students enrolled in this class are expected to take the AP exam.

SJ5380	PSYCHOLOGY	College Prep	1 sem.	1 cred.	11th-12th
--------	------------	--------------	--------	---------	-----------

PSYCHOLOGY is the scientific study of mental processes and behavior. The course is divided into eight content areas. History and Scientific Method explores the history of psychology, the research methods used, and the ethical considerations that must be utilized. Biological Basis for Behavior focuses on the way the brain and nervous system function, including sensation, perception, motivation and emotion. Development analyzes the changes through one's life including the physical, cognitive, emotional, social and moral development. Cognition focuses on learning, memory, information processing, and language development. Personality and Assessment explains the approaches used to explain one's personality and the assessment tools used. Abnormal Psychology explores psychological disorders and the various treatments used for them. Socio-Cultural Dimensions of Behavior covers topics such as conformity, obedience, perceptions, attitudes and influence of the group on the individual. Psychological Thinking explores how to think like a psychologist and expand critical thinking skills needed in the day-to-day life of a psychologist.

- Counts as an elective for all diplomas

SJ5410	US GOVERNMENT	College Prep	1 sem.	1 cred.	12th grade
--------	---------------	--------------	--------	---------	------------

US GOVERNMENT provides a framework for understanding the purposes, principles, and practices of constitutional representative democracy in the United States. Responsible and effective participation of citizens is stressed. Students understand the nature of citizenship, politics, and governments and understand the rights and responsibilities of citizens and how these are part of local, state, and national government. Students examine how the United States Constitution protects rights and provides the structure and functions of various levels of government. Analysis of how the United States interacts with other nations and the government's role in world affairs is included in this course. Using primary and secondary resources, students will articulate, evaluate, and defend positions on political issues. As a result, they will be able to explain the role of individuals and groups in government, politics, and civic activities and the need for civic and political engagement of citizens in the United States.

- Fulfills the Government requirement for all diplomas

SJ5420	AP US GOVERNMENT AND POLITICS	AP	1 sem.	1 cred.	12th grade
--------	-------------------------------	----	--------	---------	------------

AP US GOVERNMENT AND POLITICS is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. It provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they complete a political science research or applied civics project. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisite: “B+” or higher in AP US History
- Fulfills the US Government requirement for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the Social Studies section.
- Students enrolled in this class are expected to take the AP exam.

SJ5430	AP HUMAN GEOGRAPHY	AP	1 sem.	1 cred.	12th grade
--------	--------------------	----	--------	---------	------------

AP HUMAN GEOGRAPHY is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface. Students employ spatial concepts and landscape analysis to examine socio-economic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The curriculum reflects the goals of the National Geography Standards (2012). Topics include: Geography-Nature and Perspectives, Population and Migration, Cultural Patterns and Processes, Political Organization of Space, Agriculture, Food Production, and Rural Land Use, Industrialization and Economic Development, and Cities and Urban Land Use. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisite: “B” or higher in US HISTORY
- Counts as an elective for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the Social Studies section.
- Students enrolled in this class are expected to take the AP exam.

Fine Arts Department

Offerings in art and music serve as an introduction to students for creativity through self-expression. The offerings in music are designed to develop the student's awareness of the aesthetics of music as the artistic expression of thoughts, feelings, and ideas. The primary focus of the visual arts classes is studio production in order to develop student creativity through self-expression. In addition, students are expected to identify connections between major world events and issues and the ways artists have responded to these through their work. Students are also expected to make informed judgments about and gain a logical understanding of the function and nature of artistic expression.

#	Course Title	Grading Scale	Sems	Credits	Grades
SJ6110	INTRODUCTION TO 2-D ART (L)	College Prep	1	1	9th-12th
SJ6120	INTRODUCTION TO 3-D ART (L)	College Prep	1	1	9th-12th
SJ6150	ADVANCED 2-D ART (L)	College Prep	1	1	9th-12th
SJ6160	ADVANCED 3-D ART (L)	College Prep	1	1	9th-12th
SJ6210	CERAMICS I (L)	College Prep	1	1	10th-12th
SJ6220	DIGITAL DESIGN I (L)	College Prep	1	1	9th-12th
SJ6230	DRAWING I (L)	College Prep	1	1	9th-12th
SJ6240	PAINTING I (L)	College Prep	1	1	9th-12th
SJ6250	PHOTOGRAPHY I (L)	College Prep	1	1	9th-12th
SJ6210	CERAMICS II (L)	College Prep	1	1	11th-12th
SJ6220	DIGITAL DESIGN II (L)	College Prep	1	1	9th-12th
SJ6230	DRAWING II (L)	College Prep	1	1	10th-12th
SJ6240	PAINTING II (L)	College Prep	1	1	10th-12th
SJ6250	PHOTOGRAPHY II (L)	College Prep	1	1	9th-12th
SJ6310	CERAMICS III (L)	College Prep	1	1	11th-12th
SJ6320	DIGITAL DESIGN III (L)	College Prep	1	1	10th-12th
SJ6330	DRAWING III (L)	College Prep	1	1	11th-12th
SJ6340	PAINTING III (L)	College Prep	1	1	11th-12th
SJ6350	PHOTOGRAPHY III (L)	College Prep	1	1	11th-12th
SJ6410	CERAMICS IV (L)	College Prep	1	1	11th-12th
SJ6420	DIGITAL DESIGN IV (L)	College Prep	1	1	11th-12th
SJ6430	DRAWING IV (L)	College Prep	1	1	11th-12th
SJ6440	PAINTING IV (L)	College Prep	1	1	11th-12th
SJ6450	PHOTOGRAPHY IV (L)	College Prep	1	1	11th-12th
SJ6571-72	AP 2-D ART AND DESIGN (L)	AP	2	2	11th-12th
SJ6581-82	AP 3-D ART AND DESIGN (L)	AP	2	2	11th-12th
SJ6591-92	AP DRAWING (L)	AP	2	2	11th-12th
SJ6610	PIANO AND ELECTRONIC KEYBOARD (L)	College Prep	1	1	9th-12th
SJ6620	CHORUS (L)	College Prep	1	1	9th-12th
SJ6630	CONCERT BAND (L)	College Prep	1	1	9th-12th

SJ6640	ORCHESTRA (L)	College Prep	1	1	9th-12th
SJ6650	INSTRUMENTAL ENSEMBLE (L)	College Prep	1	1	10th-12th
SJ6660	MUSICAL THEATRE (L)	College Prep	1	1	9th-12th

SJ6110	INTRODUCTION TO 2-D ART (L)	College Prep	1 sem.	1 cred.	9th-12th
--------	-----------------------------	--------------	--------	---------	----------

INTRODUCTION TO 2-D ART is based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not an approved core course by the NCAA Clearinghouse

SJ6120	INTRODUCTION TO 3-D ART (L)	College Prep	1 sem.	1 cred.	9th-12th
--------	-----------------------------	--------------	--------	---------	----------

INTRODUCTION TO 3-D ART is based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not an approved core course by the NCAA Clearinghouse

SJ6150	ADVANCED 2-D ART (L)	College Prep	1 sem.	1 cred.	9th-12th
SJ6160	ADVANCED 3-D ART (L)	College Prep	1 sem.	1 cred.	9th-12th

ADVANCED 2-D ART and ADVANCED 3-D ART are based on the Indiana Academic Standards for Visual Art. Students in this course build on the sequential learning experiences of INTRODUCTION TO 2-D/3-D ART that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two/three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- These courses are available only when a student drops the corresponding AP ART course.
- Prerequisite: "B+" or higher in INTRODUCTION course
- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not an approved core course by the NCAA Clearinghouse

SJ6210	CERAMICS I (L)	College Prep	1 sem.	1 cred.	10th-12th
SJ6310	CERAMICS II (L)	College Prep	1 sem.	1 cred.	11th-12th
SJ6410	CERAMICS III (L)	College Prep	1 sem.	1 cred.	11th-12th

SJ6510	CERAMICS IV (L)	College Prep	1 sem.	1 cred.	11th-12th
--------	-----------------	--------------	--------	---------	-----------

CERAMICS is based on the Indiana Academic Standards for Visual Art. Students engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of art in clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques, and the firing processes. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- Prerequisites: INTRO TO 3-D ART, “B” or higher in previous CERAMICS course
- Level IV may be taken multiple times. It is independent study. Students may be enrolled in a lower level course taught simultaneously, but they work in consultation with the instructor.
- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not approved core courses by the NCAA Clearinghouse

SJ6220	DIGITAL DESIGN I (L)	College Prep	1 sem.	1 cred.	9th-12th
SJ6320	DIGITAL DESIGN II (L)	College Prep	1 sem.	1 cred.	9th-12th
SJ6420	DIGITAL DESIGN III (L)	College Prep	1 sem.	1 cred.	11th-12th
SJ6520	DIGITAL DESIGN IV (L)	College Prep	1 sem.	1 cred.	11th-12th

DIGITAL DESIGN is based on the Indiana Academic Standards for Visual Art. Students engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. They incorporate desktop publishing, multimedia, digitized imagery, computer animation, and web design. Students reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- Prerequisite: “B” or higher in previous DIGITAL DESIGN course
- Level IV may be taken multiple times. It is independent study. Students may be enrolled in a lower level course taught simultaneously, but they work in consultation with the instructor.
- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not approved core courses by the NCAA Clearinghouse

SJ6230	DRAWING I (L)	College Prep	1 sem.	1 cred.	9th-12th
SJ6330	DRAWING II (L)	College Prep	1 sem.	1 cred.	10th-12th
SJ6430	DRAWING III (L)	College Prep	1 sem.	1 cred.	11th-12th
SJ6530	DRAWING IV (L)	College Prep	1 sem.	1 cred.	11th-12th

DRAWING is based on the Indiana Academic Standards for Visual Art. Students engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create drawings utilizing processes such as sketching, rendering, contour, gesture, and perspective drawing and use a variety of media such as pencil, chalk, pastels, charcoal, and pen and ink. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- Prerequisites: INTRO TO 2-D ART, “B” or higher in previous DRAWING course
- Level IV may be taken multiple times. It is independent study. Students may be enrolled in a lower level course taught simultaneously, but they work in consultation with the instructor.

- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not approved core courses by the NCAA Clearinghouse

SJ6230	PAINTING I (L)	College Prep	1 sem.	1 cred.	9th-12th
SJ6330	PAINTING II (L)	College Prep	1 sem.	1 cred.	10th-12th
SJ6430	PAINTING III (L)	College Prep	1 sem.	1 cred.	11th-12th
SJ6530	PAINTING IV (L)	College Prep	1 sem.	1 cred.	11th-12th

PAINTING is based on the Indiana Academic Standards for Visual Art. Students engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production that lead to the creation of portfolio quality works. Students create abstract and realistic paintings, using a variety of materials such as mixed media, watercolor, oil, and acrylics as well as techniques such as stippling, gouache, wash, and impasto. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- Prerequisites: INTRO TO 2-D ART, “B” or higher in previous PAINTING course
- Level IV may be taken multiple times. It is independent study. Students may be enrolled in a lower level course taught simultaneously, but they work in consultation with the instructor.
- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not approved core courses by the NCAA Clearinghouse

SJ6250	PHOTOGRAPHY I (L)	College Prep	1 sem.	1 cred.	9th-12th
SJ6350	PHOTOGRAPHY II (L)	College Prep	1 sem.	1 cred.	9th-12th
SJ6450	PHOTOGRAPHY III (L)	College Prep	1 sem.	1 cred.	11th-12th
SJ6550	PHOTOGRAPHY IV (L)	College Prep	1 sem.	1 cred.	11th-12th

PHOTOGRAPHY is based on the Indiana Academic Standards for Visual Art. Students engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works, creating photographs, films, and videos utilizing a variety of digital tools and darkroom processes. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- Prerequisites: “B” or higher in previous PHOTOGRAPHY course
- Level IV may be taken multiple times. It is independent study. Students may be enrolled in a lower level course taught simultaneously, but they work in consultation with the instructor.
- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not approved core courses by the NCAA Clearinghouse

SJ6571-72	AP 2-D ART AND DESIGN (L)	AP	2 sem.	2 cred.	11th-12th
SJ6581-82	AP 3-D ART AND DESIGN (L)	AP	2 sem.	2 cred.	11th-12th
SJ6591-92	AP DRAWING (L)	AP	2 sem.	2 cred.	11th-12th

AP 2-D ART AND DESIGN, AP 3-D ART AND DESIGN, and AP DRAWING are courses established and copyrighted by the College Board. The courses are not intended to be used as a dual credit course. The AP Studio Art Program consists of three portfolio exams – 2-D Design, 3-D Design, and Drawing – corresponding to the college foundation courses. Portfolios allow flexibility of coursework while guiding students to produce college-level quality, artistic investigation, and breadth of work. Students' portfolios demonstrate skills and ideas

developed, refined, and applied throughout the course to produce visual compositions. Students may choose to submit any or all of the portfolios. Portfolios are evaluated based on standardized scoring descriptors aligned with skills and understanding developed in college foundation courses. The portfolio will have two sections: Sustained Investigation and Selected works. A comprehensive description of these courses can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisites: “A-” or higher in previous courses, departmental approval (through presentation of best works/sketchbook in interview), spring meeting (held with teacher)
- **Summer Work:** completion of two projects and ten sketchbook assignments
- Fulfills the Fine Arts requirement for the Core 40 Academic Honors Diploma
- Counts as a directed elective or elective for all diplomas
- Students and parents will sign an AP Art contract. Students not meeting stated criteria in the first three weeks will be asked to drop the class. Students are expected to work 1-2 hours outside of class for every hour in class. Students who are not able to complete the portfolio portion of the class will be moved to ADVANCED 2-D/3-D, where the grade will be computed on the College Prep scale.
- Not approved core courses by the NCAA Clearinghouse

The AP 2-D ART portfolio of work should demonstrate the artistic skills and ideas they have developed, refined, and applied over the course of the year to produce visual compositions.

The AP 3-D ART portfolio involves decision making about how to use the elements and principles of art as they relate to the integration of depth, space, volume, and surface, either actual or virtual. Students' portfolios demonstrate skills and ideas developed, refined, and applied throughout the course to produce visual compositions.

The AP DRAWING portfolio addresses issues such as line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth, and mark-making.

SJ6610	PIANO AND ELECTRONIC KEYBOARD (L)	College Prep	1 sem.	1 cred.	9th-12th
--------	-----------------------------------	--------------	--------	---------	----------

PIANO AND ELECTRONIC KEYBOARD is based on the Indiana Academic Standards for High School Music Technology and Instrumental Music. Students taking this course are offered keyboard classes in order to develop music proficiency and musicianship. Students perform with proper posture, hand position, fingering, rhythm, and articulation; compose and improvise melodic and harmonic material; create and perform simple accompaniments; listen to, analyze, sight-read, and study a variety of keyboard literature; study the elements of music as exemplified in a variety of styles; and make interpretive decisions.

- Prerequisites: Access to piano or keyboard, two hours of practice per week
- May be taken multiple times
- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not an approved core course by the NCAA Clearinghouse

SJ6620	CHORUS (L)	College Prep	1 sem.	1 cred.	9th-12th
--------	------------	--------------	--------	---------	----------

CHORUS is based on the Indiana Academic Standards for High School Choral Music. Students taking this course develop musicianship and specific performance skills through ensemble and solo singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Chorus classes provide opportunities for performing, creating, and responding to music. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- May be taken multiple times
- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma.
- Not an approved core course by the NCAA Clearinghouse

SJ6630	CONCERT BAND (L)	College Prep	1 sem.	1 cred.	9th-12th
--------	------------------	--------------	--------	---------	----------

CONCERT BAND is based on the Indiana Academic Standards for High School Instrumental Music. Students taking this course are provided with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- Significant extracurricular component, as students must attend all practices and performances, including selected football and basketball games, and possibly parades, concerts/competitions, and community events.
- Prerequisites: Previous instruction on a band instrument. Student must provide primary instrument.
- May be taken multiple times
- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not an approved core course by the NCAA Clearinghouse

SJ6640	ORCHESTRA (L)	College Prep	1 sem.	1 cred.	9th-12th
--------	---------------	--------------	--------	---------	----------

ORCHESTRA is based on the Indiana Academic Standards for High School Instrumental Music. Students in this ensemble are provided with a balanced comprehensive study of music through the orchestra, string and/or full orchestra, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop and refine elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of orchestral literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- Prerequisites: Previous instruction on an instrument. Student must provide primary instrument.
- May be taken multiple times
- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not an approved core course by the NCAA Clearinghouse

SJ6650	INSTRUMENTAL ENSEMBLE (L)	College Prep	1 sem.	1 cred.	10th-12th
--------	---------------------------	--------------	--------	---------	-----------

INSTRUMENTAL ENSEMBLE is based on the Indiana Academic Standards for High School Instrumental Music. Students taking this course are provided with a balanced comprehensive study of chamber ensemble and solo literature, which develops skills in the psychomotor, cognitive and affective domains. Students develop and refine elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature as pertaining to chamber ensemble and solo literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- May be taken multiple times
- This course is for guitar, bass, keyboard, and drum set.
- Counts as a directed elective or elective for all diplomas

- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not an approved core course by the NCAA Clearinghouse

SJ6660	MUSICAL THEATRE (L)	College Prep	1 sem.	1 cred.	9th-12th
--------	---------------------	--------------	--------	---------	----------

MUSICAL THEATRE is based on the Indiana Academic Standards for Theatre. Students in this course study the history of musical theatre and its place in today’s society. They participate in staging, choreographing, rehearsing, and performing an original or existing musical work. This class may be taught collaboratively among music, theatre, dance, and visual arts faculty. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community.

- Singing is a required element of this course.
- Counts as a directed elective or elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Not an approved core course by the NCAA Clearinghouse

Business and Technology Department

This program of study provides business and technology education for the college-bound student. *CTE-related courses can also be found in the PLTW Section.

#	Course Title	Grading Scale	Sems	Credits	Grades
SJ7100	PERSONAL FINANCIAL RESPONSIBILITY	College Prep	1	1	9th-12th
SJ7251-52	ACCOUNTING FUNDAMENTALS	College Prep	2	2	10th-12th
SJ0351-52 [Holy Cross]	EDUCATION PROFESSIONS I	College Prep [Dual Credit]	2	4	11th-12th
SJ7360	BUSINESS LAW AND ETHICS	College Prep	1	1	11th-12th
SJ7371-72	RADIO AND TV BROADCASTING CAPSTONE: INTERNSHIP WITH REDEEMER RADIO	College Prep	2	2	11th-12th
SJ7451-52 [Ivy Tech]	ENTREPRENEURSHIP AND NEW VENTURES CAPSTONE	Honors [Dual Credit]	2	4	12th

SJ7100	PERSONAL FINANCIAL RESPONSIBILITY	College Prep	1 sem.	1 cred.	9th-12th
--------	-----------------------------------	--------------	--------	---------	----------

PERSONAL FINANCIAL RESPONSIBILITY addresses the identification and management of personal financial resources to meet the financial needs and wants of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. This course helps students build skills in financial responsibility and decision making; analyze personal standards, needs, wants, and goals; identify sources of income, savings, and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit card debt. A project based approach and applications through authentic settings such as work based observations and service learning experiences are appropriate. Direct, concrete applications of mathematics proficiencies in projects are encouraged.

- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course
- Not an approved core course by the NCAA Clearinghouse

SJ7251-52	ACCOUNTING FUNDAMENTALS	College Prep	2 sem.	2 cred.	10th-12th
-----------	-------------------------	--------------	--------	---------	-----------

ACCOUNTING FUNDAMENTALS introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision-making. Students will work in Excel, Automated Accounting, and digital coursework. This course is a must for students pursuing an interest in business.

- Counts as a directed elective or elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ0351-52 [Holy Cross]	EDUCATION PROFESSIONS I	College Prep [Dual Credit]	2 sem.	4 cred.	11th-12th
---------------------------	-------------------------	-------------------------------	--------	---------	-----------

EDUCATION PROFESSIONS I provides the foundation for employment in education and related careers and prepares students for study in higher education. An active learning approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate suggested topics into the study of education and related careers. The course of study includes, but is not limited to: the teaching profession, the learner and the learning process, planning instruction, learning environment, and instructional and assessment strategies. Exploratory field experiences in classroom settings and career portfolios are required

components. A standards-based plan guides the students' field experiences. Students are monitored in their field experiences by the Education Professionals I teacher. Articulation with post-secondary programs is encouraged.

- Prerequisite: Application to program through school counselor
- Counts as a directed elective or elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ7360	BUSINESS LAW AND ETHICS	College Prep	1 sem.	1 cred.	11th-12th
--------	-------------------------	--------------	--------	---------	-----------

BUSINESS LAW AND ETHICS provides an overview of the legal system in the business setting. Topics covered include: basics of the judicial system, contract, personal, employment and property law. Application of legal principles and ethical decision-making techniques are presented through problem-solving methods, case review, and situational analyses.

- Counts as a directed elective or elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ7371-72	RADIO AND TV BROADCASTING CAPSTONE: INTERNSHIP WITH REDEEMER RADIO	College Prep	2 sem.	2 cred.	11th-12th
-----------	--	--------------	--------	---------	-----------

RADIO AND TV BROADCASTING CAPSTONE will cover a variety of domains further building on skills in video production, and broadcast industry practices specific to radio, television, and digital media. Attention will be given to cross-industry synergies, emerging technologies, and the global market for media. Students are highly encouraged to do a video newscast or radio practicum to gain real world experience. In most cases this practicum may be completed through a school-based enterprise.

- Counts as a directed elective or elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

This course is in the form of an internship with Redeemer Radio 95.7FM Sports. It centers on broadcasts of Saint Joseph and Marian High School football and basketball games. Students will develop various media skills by rotating through different hands-on roles including: running social media accounts during games, developing promotion strategies, reporting on-air during weekly game preview interviews and from the sideline during games, and developing performance and oral communication skills. Interns will learn production techniques on video, editing, and posting to social media. Students will also develop an understanding of what it takes to work as a team to put together a professional broadcast and will study the history and ethics of radio and television.

- Takes place outside the school day and requires significant extracurricular commitment
- Prerequisite: Application to program through school counselor
- Students must sign a contract regarding expectations and behavior.

SJ7451-52 [Ivy Tech]	ENTREPRENEURSHIP AND NEW VENTURES CAPSTONE: STARTUP MOXIE	Honors [Dual Credit]	2 sem.	4 cred.	12th grade
-------------------------	---	-------------------------	--------	---------	------------

ENTREPRENEURSHIP AND NEW VENTURES CAPSTONE introduces entrepreneurship and develops skills and tools critical for starting and succeeding in a new venture. The entrepreneurial process of opportunity recognition, innovation, value proposition, competitive advantage, venture concept, feasibility analysis, and "go to" market strategies will be explored through mini-case studies of successful and unsuccessful entrepreneurial start-ups. Additionally, topics of government and legal restrictions, intellectual property, franchising location, basic business accounting, raising startup funding, sales and revenue forecasting, and business plan development will be presented through extensive use of word processing, spreadsheet and presentation software.

- Students earn 18 dual credits through Ivy Tech (9 each semester), and earn a Certificate of Entrepreneurship.
- Prerequisite: Application to program through school counselor
- Counts as a directed elective or elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

Physical Education Department

#	Course Title	Grading Scale	Sems	Credits	Grades
SJ8101M/F	PHYSICAL EDUCATION I (FITNESS) (L)	College Prep	1	1	9th
SJ8102M/F	PHYSICAL EDUCATION II (FITNESS) (L)	College Prep	1	1	9th
SJ8151M/F	PHYSICAL EDUCATION I (ATHLETIC) (L)	College Prep	1	1	9th
SJ8152M/F	PHYSICAL EDUCATION II (ATHLETIC) (L)	College Prep	1	1	9th
SJ8200M/F	HEALTH AND WELLNESS EDUCATION	College Prep	1	1	10th
SJ8250M/F	ELECTIVE PHYSICAL EDUCATION: PERSONAL FITNESS DEVELOPMENT (L)	College Prep	1	1	10th-12th

SJ8101M/F	PHYSICAL EDUCATION I (FITNESS) (L)	College Prep	1 sem.	1 cred.	9th grade
SJ8151M/F	PHYSICAL EDUCATION I (ATHLETIC) (L)	College Prep	1 sem.	1 cred.	9th grade

PHYSICAL EDUCATION I focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provides students with opportunities to actively participate in at least four of the following: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all of which are within the framework of the skills, knowledge and confidence needed by the student for a lifetime of healthful physical activity and fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEPs, ISPs, and CALPs (e.g., chronic illnesses, temporary injuries, obesity, etc.).

- Fulfills part of the Physical Education requirement for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ8102M/F	PHYSICAL EDUCATION II (FITNESS) (L)	College Prep	1 sem.	1 cred.	9th grade
SJ8152M/F	PHYSICAL EDUCATION II (ATHLETIC) (L)	College Prep	1 sem.	1 cred.	9th grade

PHYSICAL EDUCATION II focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provides students with opportunities to actively participate in four of the following areas that were not included in PHYSICAL EDUCATION I: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all of which are within the framework of the skills, knowledge and confidence needed by the student for a lifetime of healthful physical activity and fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEPs, ISPs, and CALPs (e.g., chronic illnesses, temporary injuries, obesity, etc.).

- Fulfills part of the Physical Education requirement for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ8200M/F	HEALTH AND WELLNESS EDUCATION	College Prep	1 sem.	1 cred.	10th grade
-----------	-------------------------------	--------------	--------	---------	------------

HEALTH AND WELLNESS EDUCATION, a course based on Indiana's Academic Standards for Health and Wellness and provides the basis to help students adopt and maintain healthy behaviors. Health education should contribute directly to a student's ability to successfully practice behaviors that protect and promote health and avoid or reduce health risks. Through a variety of instructional strategies, students practice the development of functional health information (essential concepts); determine personal values that support health behaviors; develop group norms that value a healthy lifestyle; develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors. This course includes the application of priority areas in a planned, sequential, comprehensive health education curriculum. Priority areas include: promoting personal health and wellness, physical activity, and healthy eating; promoting safety and preventing unintentional injury and violence; promoting

mental and emotional health, a tobacco- free lifestyle and an alcohol- and other drug-free lifestyle; and promoting human development and family health. This course provides students with the knowledge and skills of health and wellness core concepts, analyzing influences, accessing information, interpersonal communication, decision-making and goal-setting skills, health-enhancing behaviors, and health and wellness advocacy skills.

- Fulfills the Health requirement for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ8250M/F	ELECTIVE PHYSICAL EDUCATION: PERSONAL FITNESS DEVELOPMENT (L)	College Prep	1 sem.	1 cred.	10th-12th
-----------	--	--------------	--------	---------	-----------

ELECTIVE PHYSICAL EDUCATION, a course based on selected standards from Indiana’s Academic Standards for Physical Education, identifies what a student should know and be able to do as a result of a quality physical education program. The goal of a physically educated student is to maintain appropriate levels of cardio-respiratory endurance, muscular strength and endurance, flexibility, and body composition necessary for a healthy and productive life. This course includes the study of physical development concepts and principles of sport and exercise as well as opportunities to develop or refine skills and attitudes that promote lifelong fitness. Students have the opportunity to design and develop an appropriate personal fitness program that enables them to achieve a desired level of fitness. This course is designed for students interested in participating in personal fitness development. Students will explore the lifelong benefits of working out, whether it be body weight exercises, weight training, or a combination of the two. Flexibility, agility, and core development will also be used to create a total body experience.

- May be taken multiple times
- Not an approved core course by the NCAA Clearinghouse

World Languages Department

The major objectives of learning a world language are to communicate one's ideas in another language and to appreciate and gain insight into the culture of heritage speakers. Therefore, the classroom must become a "cultural island" with the target language being used from the first level as soon as possible. The student, too, is expected to use the target language, and this includes ordinary conversation from the moment the student enters the classroom. A student is encouraged to study the language selected for four years. In order to progress to the next level of a language, the student must have at least a "C" average in the prior level or have the recommendation of the language teacher and department. A student transferring into the school must have a "C" average or its equivalent.

Accelerated Courses in World Languages

These courses are designed for students already familiar with a foreign language, either through previous study at the middle and/or high school level or as heritage speakers. It is an intensive study of the language and culture that draws heavily on skills already established from studying or speaking a language other than English. Students are capable of moving at a faster pace and doing more advanced activities than those who have never studied another language.

Qualifying for AP/Honors in World Languages

Students interested in remaining on the honors track must meet the following criteria in their previous honors class:

- B+ grade in the previous class qualifies for placement in an honors level class.
- B/B- grade in the previous class requires teacher approval.
- C+ or lower in the previous class requires department chair approval.

Students interested in moving up to the honors track must meet the following criteria:

- B+ or higher grade in the previous college prep class will require departmental approval.
- B or lower does not meet the criteria for enrollment in an AP/Honors course by the World Languages Department.

#	Course Title	Grading Scale	Sems	Credits	Grades
SJ9111-12	FRENCH I	College Prep	2	2	9th-11th
SJ9131-32	GERMAN I	College Prep	2	2	9th-11th
SJ9171-72	SPANISH I	College Prep	2	2	9th-11th
SJ9181-82	SPANISH I (ACCELERATED)	College Prep	2	2	9th-11th
SJ9211-12	FRENCH II	College Prep	2	2	10th-12th
SJ9231-32	GERMAN II	College Prep	2	2	10th-12th
SJ9271-72	SPANISH II	College Prep	2	2	10th-12th
SJ9281-82	SPANISH II (ACCELERATED)	College Prep	2	2	10th-12th
SJ9291-92	SPANISH II (HERITAGE)	College Prep	2	2	9th-12th
SJ9311-12	FRENCH III	College Prep	2	2	11th-12th
SJ9331-32	GERMAN III	College Prep	2	2	11th-12th
SJ9371-72	SPANISH III	College Prep	2	2	11th-12th
SJ9381-82	SPANISH III HONORS	Honors	2	2	11th-12th
SJ9411-12	FRENCH IV HONORS	Honors	2	2	12th
SJ9431-32	GERMAN IV HONORS	Honors	2	2	12th
SJ9471-72	SPANISH IV	College Prep	2	2	11th-12th
SJ9481-82	SPANISH IV HONORS	Honors	2	2	12th
SJ9511-12	FRENCH V HONORS	Honors	2	2	12th

SJ9531-32	GERMAN V HONORS	Honors	2	2	12th
SJ9671-72	AP SPANISH LANGUAGE AND CULTURE	AP	2	2	12th

SJ9111-12	FRENCH I	College Prep	2 sem.	2 cred.	9th-11th
SJ9131-32	GERMAN I	College Prep	2 sem.	2 cred.	9th-11th
SJ9171-72	SPANISH I	College Prep	2 sem.	2 cred.	9th-11th
SJ9181-82	SPANISH I (ACCELERATED)	College Prep	2 sem.	2 cred.	9th-11th

Level I courses, based on Indiana’s Academic Standards for World Languages, introduce students to effective strategies for beginning language learning, and to various aspects of the culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of the culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding the language and culture outside of the classroom.

- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma
- Counts as a directed elective or an elective for all diplomas

SPANISH I (ACCELERATED) is designed for students already familiar with Spanish.

- Please see the “Accelerated Courses in World Languages” note at the top of the World Languages section.

SJ9211-12	FRENCH II	College Prep	2 sem.	2 cred.	10th-12th
SJ9231-32	GERMAN II	College Prep	2 sem.	2 cred.	10th-12th
SJ9271-72	SPANISH II	College Prep	2 sem.	2 cred.	10th-12th
SJ9281-82	SPANISH II (ACCELERATED)	College Prep	2 sem.	2 cred.	10th-12th
SJ9291-92	SPANISH II (HERITAGE)	College Prep	2	2	9th-11th

Level II courses, based on Indiana’s Academic Standards for World Languages, build upon effective strategies for language learning by encouraging the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to requests and questions in expanded contexts, participate independently in brief conversations on familiar topics, and write cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and comprehending longer written or oral directions. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will describe the practices, products and perspectives of the culture; report on basic family and social practices of the target culture; and describe contributions from the target culture. This course further emphasizes making connections across content areas and the application of understanding the language and culture outside of the classroom.

- Prerequisite: Level I language
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma
- Counts as a directed elective or an elective for all diplomas

SPANISH II (ACCELERATED) is designed for students already familiar with Spanish.

- Prerequisite: “B” or higher in SPANISH I (ACCELERATED), “A” or higher in SPANISH I
- Please see the “Accelerated Courses in World Languages” note at the top of the World Languages section.

SPANISH II (HERITAGE) is designed for heritage speakers of Spanish who have demonstrated some degree of oral proficiency. The purpose of this course is to enable them to increase proficiency and bi-literacy in their native language by providing opportunities to improve reading and listening comprehension, as well as writing and grammar skills. Special attention will be given to grammar and vocabulary of the standard language, as well as to the importance of biculturalism and bilingualism in the United States today.

- Prerequisite: Departmental approval

SJ9311-12	FRENCH III	College Prep	2 sem.	2 cred.	11th-12th
SJ9331-32	GERMAN III	College Prep	2 sem.	2 cred.	11th-12th
SJ9371-72	SPANISH III	College Prep	2 sem.	2 cred.	11th-12th
SJ9381-82	SPANISH III HONORS	Honors	2 sem.	2 cred.	11th-12th

Level III courses, based on Indiana’s Academic Standards for World Languages, build upon effective strategies for language learning by facilitating the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to initiate, sustain and close conversations; exchange detailed information in oral and written form; and write cohesive information with greater detail. This course also emphasizes the continued development of reading and listening comprehension skills, such as using cognates, synonyms and antonyms to derive meaning from written and oral information, as well as comprehending detailed written or oral directions. Students will address the presentational mode by presenting student-created material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will continue to develop understanding of the culture through recognition of the interrelations among the practices, products and perspectives of the target culture; discussion of significant events in the target culture; and investigation of elements that shape cultural identity in the target culture. This course further emphasizes making connections across content areas as well the application of understanding the language and culture outside of the classroom.

- Prerequisite: Level II language
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma
- Counts as a directed elective or an elective for all diplomas

SPANISH III HONORS is designed for students ready to work at an Honors level.

- Prerequisite: “B+” or higher in SPANISH II (ACCELERATED), “A” or higher in SPANISH II or SPANISH II (HERITAGE)
- Please see the “Qualifying for AP/Honors” note at the top of the World Languages section.

SJ9411-12	FRENCH IV HONORS	Honors	2 sem.	2 cred.	11th-12th
SJ9431-32	GERMAN IV HONORS	Honors	2 sem.	2 cred.	11th-12th
SJ9471-72	SPANISH IV	College Prep	2	2	11th-12th
SJ9481-82	SPANISH IV HONORS	Honors	2 sem.	2 cred.	11th-12th

Level IV courses, based on Indiana’s Academic Standards for World Languages, provide a context for integration of the continued development of language skills and cultural understanding with other content areas and the community beyond the classroom. The skill sets that apply to the exchange of written and oral information are expanded through emphasis on practicing speaking and listening strategies that facilitate communication, such as the use of circumlocution, guessing meaning in familiar and unfamiliar contexts, and using elements of word formation to expand vocabulary and derive meaning. Additionally, students will continue to develop understanding of the culture through explaining factors that influence the practices, products, and perspectives of the target culture; reflecting on cultural practices of the target culture; and comparing systems of the target culture and the student’s own culture. This course further emphasizes making connections across content areas through the design of activities and materials that integrate the target language and culture with concepts and skills from other content areas. The use and influence of the language and culture in the community beyond the classroom is explored through the identification and evaluation of resources intended for native speakers.

- Prerequisite: Level III language

- Prerequisite for Honors: “B” or higher in Level III
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma
- Counts as a directed elective or an elective for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the World Languages section.

SJ9511-12	FRENCH V HONORS	Honors	2 sem.	2 cred.	12th grade
SJ9531-32	GERMAN V HONORS	Honors	2 sem.	2 cred.	12th grade

Level V courses, based on Indiana’s Academic Standards for World Languages, provide opportunities for students to interact and exchange information in culturally and socially authentic and/or simulated situations to demonstrate integration of language skills with understanding of the culture. This course emphasizes the use of appropriate formats, varied vocabulary and complex language structures within student communication, both oral and written, as well as the opportunity to produce and present creative material using the language. Additionally, students will continue to develop understanding of the culture through investigating the origin and impact of significant events and contributions unique to the target culture, comparing and contrasting elements that shape cultural identity in the target culture and the student’s own culture, and explaining how the target language and culture have impacted other communities. This course further emphasizes the integration of concepts and skills from other content areas with the target language and cultural understanding, as well as the exploration of community resources intended for native speakers.

- Prerequisites: “B” or higher in Level IV and departmental approval
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma
- Counts as a directed elective or an elective for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the World Languages section.

SJ9671-72	AP SPANISH LANGUAGE AND CULTURE	AP	2 sem.	2 cred.	12th grade
-----------	---------------------------------	----	--------	---------	------------

AP SPANISH LANGUAGE AND CULTURE is a course established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students’ awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisites: “B” or higher in SPANISH IV HONORS and departmental approval
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma
- Counts as a directed elective or an elective for all diplomas
- Please see the “Qualifying for AP/Honors” note at the top of the World Languages section.
- Students enrolled in this course are expected to take the AP exam.

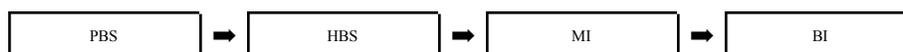
Special Offerings

SJ0100	BASIC SKILLS DEVELOPMENT	College Prep	1 sem.	1 cred.	9th-12th
--------	--------------------------	--------------	--------	---------	----------

BASIC SKILLS DEVELOPMENT is a multidisciplinary course that provides students continuing opportunities to develop basic skills including: (1) reading, (2) writing, (3) listening, (4) speaking, (5) mathematical computation, (6) note taking, (7) study and organizational skills, and (8) problem-solving skills, which are essential for high school course work achievement. Determination of the skills to be emphasized in this course is based on Indiana’s standards, individual school corporation general curriculum plans, and the student’s Individualized Education Programs (IEP) or other individualized plans. Skills selected for developmental work provide students with the ability to continue to learn in a range of different life situations.

- May be taken multiple times
- Not an approved core course by the NCAA Clearinghouse

Project Lead the Way – Biomedical Sequence



SJ0511-12	PLTW PRINCIPLES OF BIOMEDICAL SCIENCE	College Prep	2 sem.	2 cred.	9th grade
-----------	---------------------------------------	--------------	--------	---------	-----------

PRINCIPLES OF BIOMEDICAL SCIENCE provides an introduction to this field through “hands-on” projects and problems. Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person’s life. Key biological concepts included in the curriculum are: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Engineering principles such as the design process, feedback loops, fluid dynamics, and the relationship of structure to function will be included where appropriate. The course is designed to provide an overview of all courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

- Corequisite: BIOLOGY I
- Fulfills a Science requirement for all diplomas
- Counts as a directed elective or elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ0521-22	PLTW HUMAN BODY SYSTEMS	Honors	2 sem.	2 cred.	10th grade
-----------	-------------------------	--------	--------	---------	------------

HUMAN BODY SYSTEMS is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems. Using a focus on human health, students will employ a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students will use appropriate software to design and build systems to monitor body functions.

- Prerequisite: “C-” or higher in PRINCIPLES OF BIOMEDICAL SCIENCE or departmental approval
- Fulfills a Science requirement for all diplomas
- Counts as a directed elective or elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ0531-32	PLTW MEDICAL INTERVENTIONS	Honors	2 sem.	2 cred.	11th grade
-----------	----------------------------	--------	--------	---------	------------

MEDICAL INTERVENTIONS is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning approach, students will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will also study the design and development of various interventions. Lessons will cover the history of organ transplants and gene therapy with additional readings from current scientific literature addressing cutting edge developments.

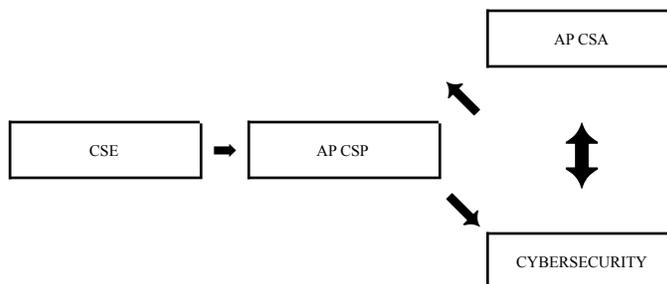
- Prerequisite: “C-” or higher in HUMAN BODY SYSTEMS or departmental approval
- Fulfills a Science requirement for all diplomas
- Counts as a directed elective or elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ0541-42	PLTW BIOMEDICAL INNOVATION	Honors	2 sem.	2 cred.	12th grade
-----------	----------------------------	--------	--------	---------	------------

BIOMEDICAL INNOVATION is a capstone course designed to give students the opportunity to design innovative solutions for the health challenges of the 21st Century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. Students have the opportunity to work on an independent project and may work with a mentor or advisor from a healthcare or post- secondary industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.

- Prerequisite: “C-” or higher in MEDICAL INTERVENTIONS or departmental approval
- Fulfills a Science requirement for all diplomas
- Counts as a directed elective or elective for all diplomas
- Not an approved core course by the NCAA Clearinghouse

Project Lead the Way – Computer Science Sequence



SJ0611-12	PLTW COMPUTER SCIENCE ESSENTIALS [Intro to Computer Science]	College Prep	2 sem.	2 cred.	9th grade
-----------	---	--------------	--------	---------	-----------

COMPUTER SCIENCE ESSENTIALS will expose students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. In this course, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They’ll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them. This course helps students create a strong foundation to advance.

- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ0621-22	AP-PLTW COMPUTER SCIENCE PRINCIPLES	AP	2 sem.	2 cred.	10th grade
-----------	-------------------------------------	----	--------	---------	------------

COMPUTER SCIENCE PRINCIPLES is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems and will discuss and write about the impacts these solutions could have on their community, society, and the world. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

- Prerequisites: “C-” or higher in COMPUTER SCIENCE ESSENTIALS or PRINCIPLES OF ENGINEERING and departmental approval
- Fulfills a Science requirement for all diplomas
- Counts as an elective for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ0631-32	AP-PLTW COMPUTER SCIENCE A	AP	2 sem.	2 cred.	11th-12th
-----------	----------------------------	----	--------	---------	-----------

COMPUTER SCIENCE A introduces students to computer science through programming. Fundamental topics include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. AP Computer Science A is equivalent to a first-semester, college-level course in computer science. A comprehensive description of this course can be found on the College Board AP Central course pages at <https://apcentral.collegeboard.org/courses>.

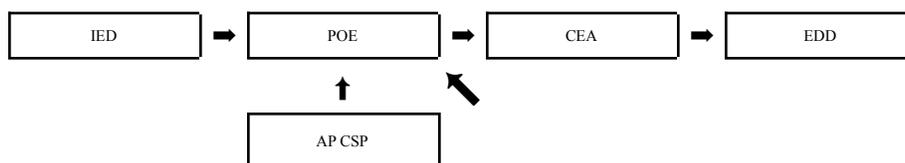
- Offered alternate years from CYBERSECURITY
- Prerequisites: “C-” or higher in COMPUTER SCIENCE PRINCIPLES or CYBERSECURITY and departmental approval
- Fulfills a Science requirement for all diplomas
- Counts as an elective for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ0641-42	PLTW CYBERSECURITY [Computer Science III: Cybersecurity]	College Prep	2 sem.	2 cred.	11th-12th
-----------	---	--------------	--------	---------	-----------

CYBERSECURITY introduces the secure software development process including designing secure applications, writing secure code designed to withstand various types of attacks, and security testing and auditing. It focuses on the security issues a developer faces, common security vulnerabilities and flaws, and security threats. The course explains security principles, strategies, coding techniques, and tools that can help make software fault tolerant and resistant to attacks. Students will write and analyze code that demonstrates specific security development techniques. Students will also learn about cryptography as an indispensable resource for implementing security in real-world applications. Students will learn foundations of cryptography using simple mathematical probability. Information theory, computational complexity, number theory, and algebraic approaches will be covered.

- Offered alternate years from COMPUTER SCIENCE A
- Prerequisite: “C-” or higher in COMPUTER SCIENCE PRINCIPLES or COMPUTER SCIENCE A or departmental approval
- Counts as an elective for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Not an approved core course by the NCAA Clearinghouse

Project Lead the Way – Engineering Sequence



SJ0711-12 [Ivy Tech]	PLTW INTRODUCTION TO ENGINEERING DESIGN	Honors [Dual Credit]	2 sem.	2 cred.	9th grade
-------------------------	---	-------------------------	--------	---------	-----------

INTRODUCTION TO ENGINEERING DESIGN is a fundamental pre-engineering course where students become familiar with the engineering design process. Students work both individually and in teams to design solutions to a variety of problems using industry standard sketches and current 3D design and modeling software to represent and communicate solutions. Students apply their knowledge through hands-on projects and document their work with the use of an engineering notebook. Students begin with completing structured activities and move to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Ethical issues related to professional practice and product development are also presented.

- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ0721-22 [Ivy Tech]	PLTW PRINCIPLES OF ENGINEERING	Honors [Dual Credit]	2 sem.	2 cred.	10th grade
-------------------------	--------------------------------	-------------------------	--------	---------	------------

Qualifies as a quantitative reasoning course for all diplomas
Counts as a Science course for all diplomas
Counts as a Directed Elective or Elective for all diplomas
Prerequisite: C or higher in PLTW Intro to Engineering Design
Note: This course is not an approved core course by the NCAA Clearinghouse.

PRINCIPLES OF ENGINEERING is a course that focuses on the process of applying engineering, technological, scientific and mathematical principles in the design, production, and operation of products, structures, and systems. This is a hands-on course designed to provide students interested in engineering careers to explore experiences related to specialized fields such as civil, mechanical, and materials engineering. Students will engage in research, development, planning, design, production, and project management to simulate a career in engineering. The topics of ethics and the impacts of engineering decisions are also addressed. Classroom activities are organized to allow students to work in teams and use modern technological processes, computers, CAD software, and production systems in developing and presenting solutions to engineering problems.

- Prerequisite: “C-” or higher in INTRODUCTION TO ENGINEERING DESIGN or departmental approval
- Fulfills a Science requirement for all diplomas
- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ0731-32 [Ivy Tech]	PLTW CIVIL ENGINEERING AND ARCHITECTURE	Honors [Dual Credit]	2 sem.	2 cred.	11th-12th
-------------------------	---	-------------------------	--------	---------	-----------

CIVIL ENGINEERING AND ARCHITECTURE introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software programs should allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning

and design phases, instructional emphasis should be placed on related transportation, water resource, and environmental issues. Activities should include the preparation of cost estimates as well as a review of regulatory procedures that would affect the project design.

- Prerequisite: “C-” or higher in PRINCIPLES OF ENGINEERING or COMPUTER SCIENCE PRINCIPLES or departmental approval
- Fulfills a Science requirement for all diplomas
- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Not an approved core course by the NCAA Clearinghouse

SJ0741-42	PLTW ENGINEERING DESIGN AND DEVELOPMENT	Honors	2 sem.	2 cred.	11th-12th
-----------	---	--------	--------	---------	-----------

ENGINEERING DESIGN AND DEVELOPMENT is an engineering research course in which students work in teams to research, design, test, and construct a solution to an open-ended engineering problem. The product development life cycle and a design process are used to guide the team to reach a solution to the problem. The team and/or individual(s) communicates their solution to a panel of stakeholders at the conclusion of the course. As the capstone course in the Engineering Pathway, this course engages students in critical thinking, problem-solving, time management, and teamwork skills.

- Prerequisite: “C-” or higher in CIVIL ENGINEERING AND ARCHITECTURE or departmental approval
- Fulfills a Science requirement for all diplomas
- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course for all diplomas
- Not an approved core course by the NCAA Clearinghouse