

MEN FOR OTHERS

2026-2027

COURSE CATALOG

Revised: 6/15/2026

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GRADUATION REQUIREMENTS

To be awarded a college preparatory diploma, a student must have earned a **minimum of 24 units of credit.** A unit of credit is equivalent to a passing grade in a subject for two semesters; a half-credit is earned by completing a one-semester course; a quarter-credit is earned in Physical Education, Oral Communication, and Information Processing.

Specific credit requirements for graduation are listed below. **Each student is required to take at least SIX courses in each of his eight semesters.**

CREDIT REQUIREMENTS			
SUBJECT	**DESCRIPTION**		**TOTAL CREDITS**
ENGLISH	**Oral Communication** **English 1** **English 2** **English 3 OR AP English Lit** **AP English Lit or Lang OR 2 Electives (at least 1 reading-based)**	**.25** **1** **1** **1** **1**	**4.25**
MATHEMATICS	**Algebra I OR Algebra II** **Algebra II OR Geometry** **Geometry OR Precalculus** **Precalculus OR Calculus (AP or Non-AP) OR AP Statistics**	**1** **1** **1** **1**	**4**
COMPUTER SCIENCE	**Information Processing**	**.25**	**.25**
WORLD LANGUAGES	**Proficiency in level 3 of a World Language**	**3**	**3**
HEALTH	**Health CORE 1**	**.50**	**.50**
PHYSICAL EDUCATION	**PE CORE 1** **PE 2 Personal Fitness OR PE 2 Waiver (no credit)**	**.25** **.25**	**.50**
RELIGIOUS STUDIES	**Scriptures** **Faith and Church and Sacraments** **Morality and Social Justice** **Electives**	**1** **1** **1** **1**	**4**
SCIENCE	**Biology** **Chemistry** **Electives (Physics strongly suggested)**	**1** **1** **1**	**3**
SOCIAL STUDIES	**Modern World History** **Economics or AP Macroeconomics** **US History OR AP US History** **American Political System OR AP US Government**	**1** **.50** **1** **.50**	**3**
FINE ARTS	**Fine Arts 1 any discipline** **Fine Arts 2 same discipline OR Fine Arts 1 different discipline**	**.50** **.50**	**1**
FINANCIAL LITERACY	**Financial Education**	**.50**	**.50**

COLLEGE PREP CURRICULUM

	FRESHMEN	SOPHOMORES	JUNIORS	SENIORS
ENGLISH	English I Oral Communication	English II	English III or AP English Lit	English Electives *or* AP English
MATH	Algebra I	Algebra II	Geometry	Precalculus or CCP Precalculus
	Algebra II	Geometry or Honors Geometry	Precalculus or Honors Precalculus AB	Honors Calculus (non-AP) or AP Calculus AB or AP Stats
	Honors Algebra II	Honors Prob Stats/Geometry	Honors Precalculus BC	AP Calculus BC
WORLD LANGUAGES	Language I	Language II	Language III	Language IV/AP
	Language II	Language III	Language IV/AP	Language IV/AP
SCIENCE	Biology *or* Honors Biology	Required: Chemistry *or* Honors Chemistry Electives: Anatomy, Environmental Science, or Physiology	Physics, Honors Physics, AP Physics I *or* AP Lab Science Electives (AP Chemistry, AP Biology, or electives)	AP Physics I *or* Physics *or* AP Lab Science Electives: (AP Chemistry, AP Biology, AP Physics C, *or* electives)
SOCIAL STUDIES	Modern World History *or* AP Modern World	Economics *or* AP Macroeconomics	US History *or* AP US History	The American Political System or AP US Government and Politics
FINANCIAL LITERACY **(Required beginning with the Class of 2026)**			Financial Education	
There are numerous electives in math, world languages, science, and social studies that are offered to juniors and seniors.				

STANDARD CURRICULUM FLOWCHART FOR OTHER COURSES

COMPUTER SCIENCES	Information Processing	**Students can start taking Computer Science Electives starting their Sophomore Year:** **Digital Design & Creativity:** **3D Modeling, Multi-Media & Film, Game Design, Advanced Game or Multi-Media, IT Capstone, Broadcast Journalism I & II, Yearbook I & II** **Technical Courses:** **CCP IT Fundamentals, CCP Web Design, Honors Cybersecurity, CCP Networking, CCP Programming I, Statistics and Data Analytics**		
HEALTH / PHYSICAL EDUCATION ***(**Prerequisite required)***		Health / PE (CORE) PE 2 (Summer) *(Students may register to take Summer PE 2 during any summer after freshman year)*	PE 2 Personal Fitness **PE 2 Waiver *(If eligible)*	**Health 2 Intro to Sports Medicine *(**PE 2 or PE 2 Waiver)* **PE 3 Adv Personal Fitness *(**PE 2 or PE 2 Waiver)*
RELIGIOUS STUDIES	Scriptures	Faith, Church, and Sacraments	Morality and Social Justice	Religion Electives*
	*** All Seniors are required to take a religious studies elective each semester. All first semester religious studies electives are for seniors only and will cover a unit on Vocations.**			
FINE ARTS	**2 semesters of Fine Arts are required for graduation (1 Freshman year, 1 Sophomore year). Freshmen choose a Level 1 course in any genre (No Prerequisites). Freshmen with advanced skills can be placed into a higher-level course, pending teacher approval. Beyond graduation requirements, students can take <u>ANY</u> Fine Arts courses as electives, if prerequisites are met, or with teacher approval.**			
	<u>No Prerequisites Needed</u> Any Level 1 Fine Arts class (except Stagecraft 1, Jazz Band 1, and Percussion Ensemble 1)	**<u>Level 1 Prereq or Teacher Approval</u>** Any Level 2 Fine Arts class, as well as Stagecraft 1, Jazz Band 1, Percussion Ensemble 1, Introduction to Graphic Design , Sculpture, Music Production Technology, Musical Theater History, Honors Art & Design 1, Painting	**<u>No Prerequisites Needed</u>** Any Level 1 Fine Arts class (except Stagecraft 1, Jazz Band 1, and Percussion Ensemble 1)	

LETTER TO JUNIORS

To: Students and Parents

From: Ms. Jennifer Ziebol, Assistant Principal for Academics, the St. Xavier School Counselors and College Advisors

Re: Selection of Courses

You have important choices to make about your courses. We have prepared some guidelines to help you to make thoughtful and wise choices. Please read this sheet carefully.

APPROPRIATENESS AND BALANCE

In general, students are encouraged to take on as much rigor in their course load as they can reasonably handle and still maintain balance among their academic, extracurricular, and personal lives. Colleges are looking for students who have challenged themselves in a broad range of courses, with emphasis on your core subjects. The transcript is considered the most important document to college admissions. The importance of performing well academically cannot be stressed enough. You are encouraged to consider your academic interests, if it's not at the expense of your overall rigor or your preparation for college.

FACTS ABOUT COLLEGE ADMISSION AND CONSIDERATIONS FOR COURSES

- Colleges typically recommend these minimum requirements for admission consideration. Additional course work in core areas such as math, natural science and world language is a strong indicator of one's potential to succeed in college. Therefore, students exceeding these recommendations are typically given additional consideration.
    - English: four years
    - Math: four years (including Calculus for students interested in engineering)
    - Natural Sciences: three years of lab sciences (Physics is strongly recommended as the third science course)
    - Social Studies: three years
    - World Language: three years of one world language
    - Visual or Performing Arts: one year

HIGHLY SELECTIVE UNIVERSITIES

- If you are considering application to a selective college, you should bear in mind that many selective colleges have minimum course requirements for entering students. It is best to research each school individually.
- The most selective universities will expect students to maximize the coursework offered at their high school. The number of Advanced Placement (AP) courses *and your achievement* ("A" or "B") in them is highly regarded in the admission process. Choosing to take an AP class should be considered carefully with attention to your desired colleges and your skill level and motivation. It's wise to discuss this with your teacher, parent and counselor/college advisor to gain the fullest perspective.
- Many selective universities prefer students to enroll in four years of Natural Sciences and World Language. Additionally, students should seek ways to enrich their learning beyond the curriculum.

**This is a critical step in preparing for a successful academic future, while discerning your strengths, interests and goals. **

2026-27 COURSE CODES

CODE	DESCRIPTION	DEPT	9	10	11	12	CREDIT
ENGLISH							
1000	Oral Communication	EN	9				0.25
1102	Honors English 1	EN	9				1.00
1101	English 1	EN	9				1.00
1202	Honors English 2	EN		10			1.00
1201	English 2	EN		10			1.00
1200	English 2	EN		10			1.00
1498	AP English Literature	EN			11		1.00
1302	Honors English 3	EN			11		1.00
1301	English 3	EN			11		1.00
ENGLISH ELECTIVES							
1210	Global Perspectives	EN		10	11		0.50
1310	Innovation and Venture Creation	EN			11	12	0.50
SENIOR READING BASED CLASSES							
1440	American Authors	EN				12	0.50
1465	American Gothic Literature *(not offered 2026-27)*	EN				12	0.50
1499	AP English Language	EN				12	1.00
1498	AP English Literature	EN				12	1.00
1449	Contemporary Short Story	EN				12	0.50
1455	Contemporary World Literature	EN				12	0.50
1463	English 4 Science Fiction	EN				12	0.50
1460	English 4 Woods and Waters	EN				12	0.50
1443	Studies in Shakespeare	EN				12	0.50
SENIOR NON-READING BASED CLASSES							
1412	Creative Writing (Non-Reading Based)	EN				12	0.50
1411	English 4 American Film (Non-Reading Based)	EN				12	0.50
MATHEMATICS							
2110	Honors Algebra II	MT	9				1.00
2121	Advanced Algebra II	MT	9				1.00
2130	Advanced Algebra I	MT	9				1.00
2140	Algebra I (Regular)	MT	9				1.00
2210	Honors Prob/Stats/Geometry	MT		10			1.00
2212	Honors Geometry (S2)	MT		10			0.50
2223	Honors Analysis/Geometry	MT		10			1.00
2226	Advanced Geometry	MT		10	11		1.00
2222	Geometry (Summer)	MT		10	11		0.50
2230	Advanced Algebra II	MT		10			1.00
2240	Algebra II (Regular)	MT		10			1.00

CODE	DESCRIPTION	DEPT	9	10	11	12	CREDIT
2310	Honors Precalculus BC	MT			11		1.00
2320	Honors Precalculus AB	MT			11		1.00
2325	Advanced Precalculus	MT			11	12	1.00
2330	Geometry (S1)	MT		10	11		0.50
2336	Geometry (Regular)	MT			11		1.00
2710	AP Calculus BC	MT				12	1.00
2720	AP Calculus AB	MT				12	1.00
2730	AP Statistics	MT	9	10	11	12	1.00
2731	AP Statistics (S2)	MT	9	10	11	12	0.50
2430	Honors Calculus	MT				12	1.00
2440	Introduction to Calculus	MT				12	1.00
2450	Introduction to Calculus (S1)	MT				12	0.50
2442	CCP Precalculus	MT				12	1.00
2455	Precalculus (Regular)	MT				12	1.00
2504	Statistics and Data Analytics	MT		10	11	12	0.50
MATHEMATICS ELECTIVES							
2502	Finance	MT				12	0.50
2504	Statistics and Data Analytics	MT		10	11	12	0.50
2711	Linear Algebra (S1)	MT				12	0.50
2712	Multivariable Calculus (S2)	MT				12	0.50
2730	AP Statistics	MT			11	12	1.00
2731	AP Statistics (S2)	MT			11	12	0.50
MATHEMATICS COLLEGE CREDIT PLUS							
2442	CCP Precalculus	MT				12	1.00
COMPUTER SCIENCE							
3101	Information Processing	CS	9				0.25
COMPUTER SCIENCE ELECTIVES							
3202	3D Modeling	CS		10	11	12	0.50
3501	Advance Game or Multi-Media	CS			11	12	0.50
3321	AP Computer Science A *(not offered 2026-27)*	CS			11	12	0.50
3401	Broadcast Journalism I *(not offered 2026-27)*	CS			11	12	0.50
3402	Broadcast Journalism II *(not offered 2026-27)*	CS			11	12	0.50
3302	IT Capstone	CS			11	12	0.50
3204	Game Design	CS		10	11	12	0.50
3208	Honors Cybersecurity	CS		10	11	12	0.50
3201	Multi-Media and Film	CS		10	11	12	0.50
3207	Statistics and Data Analytics	CS		10	11	12	0.50
3403	Yearbook I	CS			11	12	0.50
3404	Yearbook II	CS			11	12	0.50
COMPUTER SCIENCE COLLEGE CREDIT PLUS							
3611	CCP IT Fundamentals	CS		10	11	12	0.50
3631	CCP Computer Networking *(not offered 2026-27)*	CS		10	11	12	0.50

CODE	DESCRIPTION	DEPT	9	10	11	12	CREDIT
3612	CCP Web Design	CS		10	11	12	0.50
3621	CCP Programming I	CS		10	11	12	0.50
3601	CCP Accounting	CS				12	0.50
WORLD LANGUAGES							
4140	Chinese 1	WL	9			12	1.00
4240	Chinese 2	WL		10			1.00
4340	Chinese 3	WL			11		1.00
4100	French 1	WL	9			12	1.00
4200	French 2	WL		10			1.00
4300	French 3	WL			11		1.00
4305	Honors French 3	WL			11		1.00
4110	German 1	WL	9			12	1.00
4210	German 2	WL		10			1.00
4310	German 3	WL			11		1.00
4315	Honors German 3	WL			11		1.00
4120	Latin 1	WL	9			12	1.00
4220	Latin 2	WL		10			1.00
4320	Latin 3	WL			11		1.00
4325	Honors Latin 3	WL			11		1.00
4130	Spanish 1	WL	9			12	1.00
4230	Spanish 2	WL		10			1.00
4330	Spanish 3	WL			11		1.00
4335	Honors Spanish 3	WL			11		1.00
WORLD LANGUAGES ELECTIVES							
4440	AP Chinese Language	WL			11	12	1.00
4405	AP French Language	WL			11	12	1.00
4410	AP German Language	WL			11	12	1.00
4535	AP Spanish Language	WL			11	12	1.00
4871	Chinese Calligraphy *(not offered 2026-27)*	WL		10	11	12	0.50
4400	French Composition *(not offered 2026-27)*	WL			11	12	0.50
4840	Greek Mythology	WL			11	12	0.50
4820	Portuguese 1	WL			11	12	1.00
4430	Spanish Composition and Conversation	WL			11	12	1.00
WORLD LANGUAGES COLLEGE CREDIT PLUS							
4620	CCP Greek 1	WL			11	12	1.00
4625	CCP Latin 4	WL			11	12	1.00
HEALTH/PHYSICAL EDUCATION							
5239	Health CORE	PE		10			0.50
5235	PE CORE 1	PE		10			0.25
5336	PE 2 Personal Fitness	PE			11	12	0.25
5338	PE 2 Personal Fitness (Summer)	PE		10	11	12	0.25
5999	PE 2 Waiver	PE			11		0

CODE	DESCRIPTION	DEPT	9	10	11	12	CREDIT
HEALTH/PHYSICAL EDUCATION ELECTIVES							
5435	PE 3 Adv Personal Fitness	PE			11	12	0.25
5439	Health 2 Intro to Sports Medicine	PE				12	0.50
RELIGIOUS STUDIES							
6102	Honors Scriptures	RL	9				1.00
6101	Scriptures	RL	9				1.00
6201	Faith and Church and Sacraments	RL		10			1.00
6301	Morality and Social Justice	RL			11		1.00
6311	Morality and Social Justice with Service	RL			11		1.00
6455	Bioethics	RL				12	0.50
6458	Evil, Genocide, and the Holocaust	RL				12	0.50
6457	Faith in the Wild	RL				12	0.50
6401	Gospel According to Popular Culture	RL				12	0.50
6453	Ignatian Themes in Film	RL				12	0.50
6402	Meditation	RL				12	0.50
6451	Question of God	RL				12	0.50
6452	Relationships	RL				12	0.50
6403	Responding to Violence	RL				12	0.50
6456	Walking the Way: The Camino de Santiago	RL			11	12	0.50
6454	World Religions	RL				12	0.50
SCIENCE							
SCIENCE COURSES							
7102	Honors Biology	SC	9				1.00
7101	Biology	SC	9				1.00
7100	Biology	SC	9				1.00
7202	Honors Chemistry	SC		10			1.00
7201	Chemistry	SC		10			1.00
7200	Chemistry	SC		10			1.00
7302	AP Physics I	SC			11	12	1.00
7301	Honors Physics	SC			11	12	1.00
7300	Physics	SC			11	12	1.00
SCIENCE LAB ELECTIVES							
7103	AP Biology	SC			11	12	1.00
7203	AP Chemistry	SC			11	12	1.00
SCIENCE ELECTIVES							
7401	Anatomy	SC		10	11	12	0.50
7402	Physiology	SC		10	11	12	0.50
7408	AP Environmental Science	SC			11	12	1.00
7303	AP Physics C	SC				12	1.00
7455	Bioethics	SC				12	0.50
7404	Engineering Foundations	SC			11	12	1.00
7407	Environmental Science	SC		10	11	12	0.50

CODE	DESCRIPTION	DEPT	9	10	11	12	CREDIT
7413	Forensic Science	SC			11	12	0.50
7412	Honors Anatomy Cadaver Dissection	SC			11	12	0.50
7411	Marine Science (Summer 2028)	SC	9	10	11		0.50
SCIENCE COLLEGE CREDIT PLUS							
7604	CCP Engineering Foundations	SC				12	1.00
SOCIAL STUDIES							
8102	AP World History	SS	9				1.00
8101	Modern World History	SS	9				1.00
8202	AP Macroeconomics	SS		10			0.50
8201	Economics	SS		10			0.50
8302	AP United States History	SS			11		1.00
8301	United States History	SS			11		1.00
8300	United States History	SS			11		1.00
8402	AP US Government and Politics	SS				12	0.50
8401	The American Political System	SS				12	0.50
SOCIAL STUDIES ELECTIVES							
8412	AP European History	SS				12	1.00
8414	AP Human Geography *(not offered 2026-27)*	SS			11	12	1.00
8202	AP Macroeconomics	SS			11	12	0.50
8415	AP Microeconomics	SS			11	12	0.50
8462	AP Psychology	SS			11	12	1.00
8458	20th Century World Wars	SS			11	12	0.50
8455	American Capitalism and Entrepreneurship	SS			11	12	0.50
8457	American Hot Wax	SS			11	12	0.50
8456	Entrepreneurship in Action	SS				12	0.50
8461	Introduction to Psychology	SS			11	12	0.50
8459	Modern History of the Middle East	SS			11	12	0.50
8448	Negro Leagues: Baseball and Civil Rights	SS			11	12	0.50
8445	The American Legal System	SS			11	12	0.50
FINE ARTS							
9000	Creative Thinking	FA			11	12	0.50
MUSICAL ARTS							
9005	AP Music Theory	FA			11	12	1.00
9011	Band 1	FA	9	10	11	12	0.50
9012	Band 2	FA		10	11	12	0.50
9014	Band 3	FA		10	11	12	0.50
9009	Band 4	FA			11	12	0.50
9015	Choir 1	FA	9	10	11	12	0.50
9016	Choir 2	FA		10	11	12	0.50
9017	Choir 3	FA		10	11	12	0.50
9018	Choir 4	FA			11	12	0.50
9021	Guitar 1	FA	9	10	11	12	0.50

CODE	DESCRIPTION	DEPT	9	10	11	12	CREDIT
9022	Guitar 2	FA		10	11	12	0.50
9023	Guitar 3 *(not offered 2026-27)*	FA		10	11	12	0.50
9010	Jazz Band 1	FA		10	11	12	0.50
9007	Jazz Band 2	FA		10	11	12	0.50
9008	Jazz Band 3	FA			11	12	0.50
9006	Jazz Band 4	FA			11	12	0.50
9001	Music 1	FA	9	10	11	12	0.50
9002	Music Production Technology	FA		10	11	12	0.50
9027	Musical Theater History *(not offered 2026-27)*	FA		10	11	12	0.50
9013	Percussion Ensemble 1 *(not offered 2026-27)*	FA		10	11	12	0.50
9035	Percussion Ensemble 2 *(not offered 2026-27)*	FA		10	11	12	0.50
9036	Percussion Ensemble 3 *(not offered 2026-27)*	FA			11	12	0.50
9037	Percussion Ensemble 4 *(not offered 2026-27)*	FA			11	12	0.50
9024	Strings 1	FA	9	10	11	12	0.50
9025	Strings 2	FA		10	11	12	0.50
9026	Strings 3	FA		10	11	12	0.50
9028	Strings 4	FA			11	12	0.50
THEATER ARTS							
9031	Acting 1	FA	9	10	11	12	0.50
9032	Acting 2	FA		10	11	12	0.50
9033	Acting 3	FA		10	11	12	0.50
9034	Acting 4	FA			11	12	0.50
9041	Stagecraft 1	FA		10	11	12	0.50
9042	Stagecraft 2	FA		10	11	12	0.50
VISUAL ARTS							
9067	AP 2D Design Studio	FA			11	12	1.00
9064	AP Drawing Studio	FA			11	12	1.00
9061	Drawing 1	FA	9	10	11	12	0.50
9062	Drawing 2	FA		10	11	12	0.50
9063	Drawing 3	FA		10	11	12	0.50
9066	Graphic Design *(not offered 2026-27)*	FA			11	12	0.50
9073	Honors Art & Design 1	FA		10	11	12	1.00
9074	Honors Art & Design 2	FA			11	12	1.00
9065	Introduction to Graphic Design	FA		10	11	12	0.50
9069	Painting	FA		10	11	12	0.50
9068	Film Photography	FA			11	12	0.50
9075	Digital Photography	FA			11	12	0.50
9070	Sculpture	FA		10	11	12	0.50
9101	Multi-Media and Film	FA		10	11	12	0.50
9102	Advance Game or Multi-Media	FA			11	12	0.50
FINANCIAL EDUCATION							
2601	Financial Education	FL			11		0.50

ENGLISH COURSE DESCRIPTIONS

ENGLISH

Students are automatically placed into their required English 1, 2, and 3 classes by the English Department. AP classes can be selected if the prerequisites are met.

1000
ORAL COMMUNICATION

Grade 9 / 1 Semester / .25 Credit

Note: ***Freshmen are automatically enrolled into 1000 Oral Communication and 3101 Information Processing. These two classes earn .25 credit each (for a total of .50 credit in one semester).***

Goals and Objectives: To introduce freshmen to the skills needed for effective interpersonal communication, public and persuasive speech, and the fundamentals of debate. The course focuses on building students' self-confidence in presenting and using logic and information persuasively.

Content and Methods: Students learn primarily through creating and presenting individual and group speeches (autobiographical, informative, persuasive, and debate). Additional methods include lectures, class discussions, small-group work, and reflections. Students learn how to access and use the St. Xavier Library databases and the research tool Noodle Tools as well as create a Works Cited page, an effective PowerPoint, and a formal outline.

Evaluation and Grading: Grading is based on students' individual skills on elements of presentation and research, self-reflections on their progress, and occasional in-class assignments.

1102
HONORS ENGLISH 1

Grade 9 / 2 Semesters / 1 Credit

Note: ***Qualified freshmen will be invited to participate in this class.***

Goals and Objectives: To foster proficiency in the basic skills of written communication by means of a working understanding of grammar and principles of composition; to concentrate upon the teaching of the expository paragraph; to enable the student to communicate through the written word effectively and intelligently; to convince the student that his grounding in the expository paragraph, and later in the expository essay, is the basis for continued refinement and improvement during the remainder of his association with the English curriculum.

Content and Methods: *Materials:* the freshman anthology, Ray Bradbury's *Fahrenheit 451*, *The Book Thief*, other various novels (totaling two novels per quarter), and a vocabulary program. *Methods:* includes lecture and discussion, occasional small-group work, individualized work in class, particularly in grammar.

Evaluation and Grading: Tests, quizzes, quarter exams, and multiple writing assignments of paragraph or essay length per quarter.

1101
ENGLISH 1

Grade 9 / 2 Semesters / 1 Credit

Goals and Objectives: To foster proficiency in the basic skills of written communication by means of a working understanding of grammar and principles of composition; to concentrate upon the teaching of the expository paragraph; to enable the student to communicate through the written word effectively and intelligently; to convince the student that his grounding in the expository paragraph, and later in the expository essay, is the basis for continued refinement and improvement during the remainder of his association with the English curriculum.

Content and Methods: *Materials:* the freshman anthology, Ray Bradbury's *Fahrenheit 451*, various novels and a vocabulary program. *Methods:* includes lecture and discussion, occasional small-group work, individualized work in class, particularly in grammar.

Evaluation and Grading: Tests, quizzes, quarter exams, and multiple writing assignments of paragraph or essay length per quarter.

1202
HONORS ENGLISH 2

Grade 10 / 2 Semesters / 1 Credit

Goals and Objectives: To further develop the student's ability to write effective paragraphs and expository essays both formal and informal in style; to review standard grammatical usage; to acquaint the student with American literary movements as well as the various genres of literature, particularly poetry, drama, and fiction; to deepen his appreciation and sharpen his critical awareness through study of these movements and genres, respectively.

Content and Methods: The course will deal with an intensive review and development of the student's ability to write expository prose. An

introduction to the structures of narrative prose and fiction will be added to this emphasis on composition, as will introductions to the structure and development of drama, and an introduction to the form and content of poetry. Combinations of lecture, class discussion, small-group work, essays, in-class revision, and audio-visual presentations make up the methods used. Vocabulary and usage study continue throughout the school year.

Evaluation and Grading: Multiple compositions per quarter; quizzes on reading assignments, usage, and vocabulary; and quarter exams.

1201 or 1200
ENGLISH 2

Grade 10 / 2 Semesters / 1 Credit

Goals and Objectives: To develop further the student's ability to write effective paragraphs and expository essays both formal and informal in style; to review standard grammatical usage; to acquaint the student with the various genres of literature, particularly poetry, drama, and fiction; to deepen his appreciation and sharpen his critical awareness through study of these genres.

Content and Methods: The course will deal with an intensive review and development of the student's ability to write expository prose. An introduction to the structures of narrative prose and fiction will be added to this emphasis on composition, as will introductions to the structure and development of drama, and an introduction to the form and content of poetry. Combinations of lecture, class discussion, small-group work, essays, in-class revision, and audio-visual presentations make up the methods used. Vocabulary and usage study continue throughout the school year.

Evaluation and Grading: Multiple compositions per quarter; quizzes on reading assignments, usage, and vocabulary; and quarter exams.

1498
AP ENGLISH LITERATURE

Grade 11 / 2 Semesters / 1 Credit

Note: ***This class is offered both junior and senior years but can only be taken once.***

Prerequisites: Students are admitted based on performance in past English classes: an average of 90% or above for all previous semesters in regular level English courses OR an average of 88% or above in Honors English 2. If a student is interested in taking the class, but does not meet these requirements, he is encouraged to speak with his current teacher who, in consultation with the AP Literature teacher and the head of the English Department, can then help determine the best placement for the student.

Goals and Objectives: This course is designed to help talented, interested, and industrious students of English develop two skills: 1) sound critical thinking regarding literature (through a close reading of selected works and extended classroom discussion of them); 2) effective written expression of this criticism. An additional objective of the course is to prepare students for the Advanced Placement Literature and Composition Examination, administered in May.

Content and Methods: Although some lecture is occasionally necessary, emphasis is placed upon students' participation in class discussions of the assigned readings. Students can also expect to be called upon to make one or two brief presentations to other members of the class on topics related to the literature being studied. Emphasis, of course, is placed upon writing; some of these themes will be written in class and some will be out-of-class assignments. Approximately one quarter of the class will be devoted to a study of some Shakespearean drama: *Macbeth, Henry IV Part 1,* and one comedy. There will also be a brief review of lyric poetry (about two to three weeks) primarily as preparation for the AP examination. The remainder of the course will be devoted to a study of narrative fiction.

Evaluation and Grading: Quizzes, essays, presentations, exams, discussion, and small group work.

1302
HONORS ENGLISH 3

Grade 11 / 2 Semesters / 1 Credit

Goals and Objectives: The English 3 course is a historical survey to help students read with pleasure and understanding significant works by British writers from the Anglo-Saxon era to the twenty-first century, and to aid students in the development of written expression based chiefly upon the literature. Review and reinforcement of basic skills in grammatical usage and effective written expression are designed to serve as preparation for the SAT / ACT.

ENGLISH COURSE DESCRIPTIONS

Content and Methods: Honors will be chosen by recorded evidence of competence and by teacher recommendation. The group will have a heavy reading program centering on the major ideas manifested in British writing. Writing assignments will demand considerable depth, insight, and development.

Evaluation and Grading: For each level, grades will be based upon quizzes, major tests, essays, and quarter examinations.

1301
ENGLISH 3
Grade 11 / 2 Semesters / 1 Credit

Goals and Objectives: The English 3 course is a historical survey to help students read with pleasure and understanding significant works by British writers from the Anglo-Saxon era to the twenty-first century, and to aid students in the development of written expression based chiefly upon the literature. Review and reinforcement of basic skills in grammatical usage and effective written expression are designed to serve as preparation for the SAT / ACT.

Content and Methods: We will examine the contribution of significant British writers and will react to it with frequent written assignments. A vocabulary program designed for each level will also be studied and tested.

Evaluation and Grading: For each level, grades will be based upon quizzes, major tests, essays, and quarter examinations.

ENGLISH ELECTIVES

1210
GLOBAL PERSPECTIVES
Grades 10, 11 / 1 semester / .50

Goals and Objectives: To develop in students the skills, knowledge, and dispositions of global citizenship; to examine issues of global significance through literature and other means; to take local and global action on these issues through student-driven projects.

Content and Methods: The course seeks to create global citizens who take action toward creating a more just and sustainable future. The course will use contemporary world literature to examine issues of global significance such as education, poverty, peace and justice, migration, and climate change. In addition to reading novels, students will watch films, conduct research, and implement individual and group projects on global topics of choice. Through virtual exchanges and other activities, students will gain a deeper awareness of the international network of Jesuit schools and will consider their role in carrying out its global mission.

Evaluation and Grading: Individual and group projects (including project-based writing activities), quizzes, class participation, and exams.

1310
INNOVATION AND VENTURE CREATION
Grade 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: This course equips students with the skills needed to innovate and create viable business ventures by focusing on the entrepreneurial process, from inspiration to implementation. Students will develop critical skills in oral communication, persuasion, negotiations, and interpersonal communication while also learning how to use AI tools for tasks such as conducting interviews, designing logos, creating taglines, and sparking innovation. Through an entrepreneurial lens, students will tackle real-world problems and explore socially responsible business solutions, both for-profit and non-profit. The course emphasizes experiential learning and includes researching the viability and sustainability of business ideas, ensuring students work through the innovation process step by step.

Develop communication skills: Master rhetoric, persuasion, nonverbal communication, negotiation, and conflict resolution. Understand and apply the entrepreneurial mindset: Progress through the phases of inspiration, ideation, and implementation. AI for creativity and innovation: Use AI tools for interviews, logo design, taglines, and other innovative business solutions. Explore problem-solving and business and product development: Conduct problem storming, idea generation, and prototyping, culminating in a minimum viable product. Learn business fundamentals: Work with the Business Model Canvas, feasibility analysis, finance modeling, and leadership development. Craft compelling pitch decks: Build storytelling and pitch deck skills for investor presentations and business proposals.

ENGLISH COURSE DESCRIPTIONS

Course Content: The class follows a structured, step-by-step approach to venture creation. Topics covered include Entrepreneurial Mindset Development, Problem Storming and Idea Generation, Prototype Creation and Minimal Viable Products (MVPs), Business Model Canvas Iterations, Feasibility Analysis and Financial Modeling, Pitch Deck Development and Storytelling, AI for Innovation: Using AI to generate creative assets such as logos, taglines, and interview scripts to enhance the entrepreneurial process along with developing presentation and communication skills.

Evaluation and Grading: Grades will be based on the following: Experiential Exercises and Labs, Group and Individual Projects, Presentations and Pitch Decks.

SENIOR READING-BASED CLASSES

Seniors take 1 year-long class or 2 semester-long classes to meet graduation requirements.

At least one senior English class must be reading-based

****These classes can also be requested as electives. Electives will be filled pending availability.***

1440
AMERICAN AUTHORS
Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To read critically and thoughtfully; to write about literature with fluency, perception, and voice; to become familiar with representative American authors of the past 100 years; to consider secondary sources and criticism; to compare, contrast, analyze, criticize, and apply literature to one's life.

Content and Methods: This course will expose the student to representative works by major American authors of the last 100 years and consider the recurring themes – the search for an authentic self, Manifest Destiny, freedom, opportunity, self-reliance, the Melting Pot – that make up the American mythology and self-identity. The majority of the authors are Nobel or Pulitzer Prize winners, and most are listed in the top 100 from Reading Lists for College-Bound Students. Students will read short stories, novellas, novels, and autobiographies by such authors as Henry James, Willa Cather, Ernest Hemingway, William Faulkner, John Steinbeck, Kurt Vonnegut, and Toni Morrison, among others. Drama may include Arthur Miller's *Death of a Salesman*, Tennessee William's *A Streetcar Named Desire*, and Thornton Wilder's *Our Town.*

Evaluation and Grading: Quarter grades will be based on quizzes and short essays on the reading, class discussions, two or three literary analysis papers, and the quarter exam. In addition, there will be an independent project at some point in the semester.

1465
AMERICAN GOTHIC LITERATURE
Grade 12 / 1 Semester /.50 Credit

Not offered 2026-27 school year.

Goals and Objectives: To recognize and appreciate the American gothic genre as a unique and evolving genre of American literature. Students will read and discuss literature from various styles of the American gothic genre including the Romantics, Southern gothic, and contemporary American gothic. Students will continue to read critically and produce thoughtfully organized writing assignments with an eye towards analysis.

Content and Methods: The literature studied will cover a variety of genres: shorts stories, novels, poetry, and essays. Authors read will include Edgar Allan Poe, Nathaniel Hawthorne, Herman Melville, Ambrose Bierce, Sherwood Anderson, Henry James, Flannery O'Connor, H. P. Lovecraft, William Faulkner, Joyce Carol Oates, Peter Straub, and Stephen King among other authors.

Evaluation and Grading: Frequent quizzes, readings, class participation, essays, an independent reading project, and quarter exams.

1499
AP ENGLISH LANGUAGE
Grade 12 / 2 Semesters / 1 Credit

Prerequisites: Students are admitted based on performance in past English classes: an average of 90% or above for all previous semesters in regular level English courses OR an average of 88% or above in Honors English 3 OR if currently taking and passing AP English Literature. If a student is interested in taking the class, but does not meet these requirements, he is encouraged to speak with his current teacher who, in consultation with the AP Language teacher and the head of the English Department, can then help determine the best placement for the student.

ENGLISH COURSE DESCRIPTIONS

Goals and Objectives: This course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop analytic and argumentative essays. Students will also evaluate, synthesize and cite research to support their arguments. Reading is primarily non-fiction, both full-length works and essays that are argumentative/ philosophical in nature. Goals include learning to write effectively and confidently, developing critical and rhetorical literacy, facilitating informed citizenship though the studying of current issues, and preparing for the AP Language Exam. **Content and Methods:** Emphasis will be placed on learning effective rhetoric through the study of other authors, then applying that learning to the students' own writing. Full-length works and essays by both classic and contemporary authors will be studied, and students will explore a variety of current topics and issues, taking an informed position on those issues in writing, speech, and a variety of rhetorical situations.

Evaluation and Grading: Quizzes, essays, presentations, exams, discussion, and small group work.

1498
AP ENGLISH LITERATURE

Grade 12 / 2 Semesters / 1 Credit

Note: ***This class is offered both junior and senior years but can only be taken once.***

Prerequisites: Students are admitted based on performance in past English classes: an average of 90% or above for all previous semesters in regular level English courses OR an average of 88% or above in Honors English 3. If a student is interested in taking the class, but does not meet these requirements, he is encouraged to speak with his current teacher who, in consultation with the AP Literature teacher and the head of the English Department, can then help determine the best placement for the student.

Goals and Objectives: This course is designed to help talented, interested, and industrious students of English develop two skills: 1) sound critical thinking regarding literature (through a close reading of selected works and extended classroom discussion of them); 2) effective written expression of this criticism. An additional objective of the course is to prepare students for the Advanced Placement Literature and Composition Examination, administered in May.

Content and Methods: Although some lecture is occasionally necessary, emphasis is placed upon students' participation in class discussions of the assigned readings. Students can also expect to be called upon to make one or two brief presentations to other members of the class on topics related to the literature being studied. Emphasis, of course, is placed upon writing; some of these themes will be written in class and some will be out-of-class assignments. Approximately one quarter of the class will be devoted to a study of some Shakespearean drama: *Hamlet* and one comedy. There will also be a brief review of lyric poetry (about two to three weeks) primarily as preparation for the AP examination. The remainder of the course will be devoted to a study of narrative fiction.

Evaluation and Grading: Quizzes, essays, presentations, exams, discussion, and small group work.

1449
CONTEMPORARY SHORT STORY

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To read, discuss, write about, and think critically about contemporary short stories—those published in the last forty years.

Content and Methods: Students will read from an anthology of the best short stories of the last forty-five years and will read at least one collection by a single author. Students will use various analytical tools to help them think critically about the following questions, among others: What is the status of the short story in the hands of the best contemporary writers? What themes seem common in contemporary stories? In what ways do these stories reflect society? Finally, students will investigate a particular author's collection on their own and report to the class on their findings.

Evaluation and Grading: Frequent quizzes and in-class writing on readings; compositions, including one shorter comparative piece in the first quarter and one longer analytical piece in the second quarter, presentations, and exams.

1455
CONTEMPORARY WORLD LITERATURE

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To read and evaluate selected works of contemporary world literature from

diverse cultures; to consider texts from a variety of genres and traditions in terms of their social and historical context; to develop further the ability to write about literature effectively and thoughtfully.

Content and Methods: Students will read contemporary novels from around the globe, observing how essential questions about the human experience unite different literary traditions. Selections will include an account of two Chinese boys surviving reeducation during Mao's Cultural Revolution, a tale of two women living in Afghanistan during civil war and Taliban rule, and the true story of a young man growing up in post-apartheid South Africa, among others. The course includes occasional field trips and guest speakers in order to develop an appreciation of Cincinnati as a truly global community of diverse people with rich cultures and their own stories to share.

Evaluation and Grading: Group projects and other types of class activities, quizzes, compositions, and quarter exams.

1463
ENGLISH 4 SCIENCE FICTION

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To become familiar with the science fiction genre; to consider the impacts of colonial/imperial processes; to consider the ethics of encounters between alien cultures, to learn to see or understand from multiple perspectives; to see ourselves and our world in new ways by studying worlds/cultures different than ours; to increase multicultural literacy; to consider issues that we face in a globalized world; to consider the impact and role technology has in our lives; to develop critical reading and writing skills; to conduct inquiry into a science fiction sub-genre, author, theme, or topic.

Content and Methods: The class units include the following: introduction to science fiction as a genre, military science fiction, colonial and post-colonial science fiction, environmental science fiction, the ethics of encounters (contact science fiction), and dystopias. Students will choose 2 short stories, 1 book, and 1 film for an independent study as well. In a typical class, students will take a reading quiz, engage in close reading activities, conduct discussions in "pods" and full-class settings, journal, work on projects, and hear lectures. We will read two science fiction novels a quarter, supplemented with enrichment, non-fiction articles as well.

Novels include *Red Rising* (Pierce Brown), *Starship Troopers* (Robert A. Heinlein), *Childhood's End* (Arthur C. Clarke), and *The Hitchhiker's Guide to the Galaxy* (Douglas Adams). Common independent book choices include *Dune* (Frank Herbert), *The Sparrow* (Mary Doria Russell), *Old Man's War* (John Scalzi), *The Hitchhiker's Guide to the Galaxy* (Douglas Adams), *Cat's Cradle* (Kurt Vonnegut Jr.), *Speaker for the Dead* (Orson Scott Card), *Dawn* (Octavia E. Butler), *The Forever War* (Joe Haldeman) and more. We view 1-2 films a quarter, including *District 9, Avatar, Blade Runner, Star Trek II The Wrath of Khan,* and more.

Evaluation and Grading: Reading quizzes (Canvas), tests (multiple choice), exams (written--short answer/essay), journals (Canvas), a participation grade, and other homework, projects, or writing assignments. Writing assignments include reflection, literary analysis, a podcast, poetry, synthesis, and inquiry.

1460
ENGLISH 4 WOODS AND WATERS

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To foster a love and appreciation of nature through critical reading of fiction and non-fiction, writing, discussion, and a sharing of our passion for outdoor pursuits. To become proficient in descriptive writing through the use of a nature journal and in argumentative writing through position papers organized by rhetorical purpose rather than formulaic structure.

Content and Methods: The first quarter of this course will invite students to become *writers as naturalists*—to study and write about nature in nature, and then become *naturalists in action* by sharing their studies in a manner that, in accordance with Jesuit teaching, promotes the *care of our common home*. In the second quarter, our focus will shift to the study of nature writing that creates a sense of place, and students will produce an original, creative essay using the class readings as mentor texts. Both quarters will involve discussion, journaling, adventure presentations and trips to our on-campus nature preserve, and through these methods, students will learn the value of disconnecting from our busy world and finding God and peace in the solitude of nature.

ENGLISH COURSE DESCRIPTIONS

Representative authors include Henry David Thoreau, Norman Maclean, Annie Dillard, John Muir, and Wendell Berry. Though there will be some lecture, this course is primarily discussion driven; students will be expected to enter our conversations thoughtfully.

Evaluation and Grading: Grades will be comprised of essays, projects, reading quizzes, class participation, and exams.

1443
STUDIES IN SHAKESPEARE
Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: This course views every text of Shakespeare as "A Puzzle Worth Solving." Students will gain confidence in solving textual puzzles, thereby gaining appreciation for the plays, especially regarding insights into the human condition. The class will also leverage previous experience; viewing of various productions; discussion; and writing about selected comedies, histories, and tragedies to further student confidence and appreciation.

Content and Methods: Among the plays included in the course are the following: *Hamlet, Much Ado About Nothing, Henry IV (Part One), Henry V, Othello, and Twelfth Night.* In addition to the plays, a limited amount of critical material will be considered. Although some lecture will be required, emphasis will be placed on the student's participation in class discussion, especially of filmed and/or staged productions of the plays.

Evaluation and Grading: Quizzes and tests on the readings, class participation, essays (some in-class; some out-of-class), a final group project, and exams.

SENIOR NON-READING BASED CLASSES

Seniors take 1 year-long class or 2 semester-long classes to meet graduation requirements. Only one senior English class can be non-reading based.

****These classes can also be requested as electives. Electives will be filled pending availability.***

1412
CREATIVE WRITING
Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To give students the opportunity to write poetry, descriptive prose, and short stories.

Content and Methods: The students will discuss, and practice techniques used in imaginative writing. Students write two prose sketches, one short story, and a collection of poems. A textbook will be used and will be supplemented with other materials. The best material will be considered for various contests and for publication in school magazines. Aspects of punctuation, grammar, and usage will be reviewed.

Evaluation and Grading: Manuscripts will be graded for form and content; the "creative" nature of the work does not preclude this kind of grading. Quarter examinations and smaller tests will be given.

1411
ENGLISH 4 AMERICAN FILM
Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To view and discuss selected films of the American film industry; to sharpen the students' critical abilities through careful analysis of plot, character, cinematography, sound, costuming, and other aspects of film-making; to write about and critique film in a coherent and intelligent manner.

Content and Methods: This course examines films from several American genres and includes such films as *Psycho*, *Do the Right Thing*, *Unforgiven*, *The Maltese Falcon*, and *The Godfather*. In some cases, students will be required to watch all or part of the films outside class time. In addition to viewing these films, students will be required to read outside texts and critical material. Although some lecture will be given, most of the class will be dedicated to student discussion.

Evaluation and Grading: Quizzes, in-class writing, major projects and papers, and quarter exams.

MATHEMATICS COURSE DESCRIPTIONS

MATHEMATICS

Students are automatically placed into their required Math classes by the Math Department.

2110
HONORS ALGEBRA II
Grade 9 / 2 Semesters / 1 Credit

Prerequisites: Math Placement Test

2121
ADVANCED ALGEBRA II
Grade 9 / 2 Semesters / 1 Credit

Prerequisites: Math Placement Test

2130 (ADVANCED) or 2140 (REGULAR) ALGEBRA I
Grade 9 / 2 Semesters / 1 Credit

Prerequisites: Math Placement Test

Goals and Objectives: To learn algebraic terminology and how it is applied; to perform all basic operations of algebra; to graph relations; to find solutions to linear equations, quadratic equations, and systems of simultaneous first degree equations; to work with rational expressions and solve rational equations; to work with radical expressions and solve radical equations; to solve word problems with algebraic equations and inequalities.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods:* classroom discussion and notes, small group work, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2210
HONORS PROB/STATS/GEOMETRY
Grade 10 / 2 Semesters / 1 Credit

Prerequisites: Algebra II and teacher approval.

Goals and Objectives: To introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data; to acquaint the students with the theory of probability and to illustrate some applications of probability to statistical theory; to encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Materials*: TI-84 graphing calculator; teacher developed materials, *The Practice of Statistics for the AP® Course. 7th ed (Starnes and Tabor)* and *Geometry* (Jurgenson). *Methods:* classroom discussion, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Problem sets, quizzes, tests, projects, and quarter exams.

2212
HONORS GEOMETRY
Grade 10 / 1 Semester / .50 Credit

Prerequisites: Algebra II and teacher approval.

Corequisites: Concurrently enrolled in AP Statistics.

Goals and Objectives: To encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Materials*: TI-84 graphing calculator; teacher developed materials, and *Geometry* (Jurgenson). *Methods:* classroom discussion, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Problem sets, quizzes, tests, and quarter exams.

2223
HONORS ANALYSIS/ GEOMETRY
Grade 10 / 2 Semesters / 1 Credit

Prerequisites: Algebra II (2110, 2121) and teacher approval.

Goals and Objectives: To deepen understanding of algebraic relationships; to study functions and their transformations; to explore conic sections; to investigate sequences and series; to develop reasoning through

proof and problem solving; to encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Methods:* TI-84 graphing calculator; teacher developed materials, and *Geometry* (Jurgenson). *Methods:* classroom discussion, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, projects, and quarter exams.

2226
ADVANCED GEOMETRY
Grades 10, 11 / 2 Semesters / 1 Credit

Prerequisites: Algebra I, Algebra II, and teacher approval.

Goals and Objectives: To encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Methods:* TI-84 graphing calculator; teacher developed materials, and *Geometry* (Jurgenson). *Methods:* classroom discussion, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, projects, and quarter exams.

2222
GEOMETRY (SUMMER)
Grades 10, 11 / 5 weeks / .50 Credit

Note: *This course is for students who are approved to take Geometry during the summer after freshman or sophomore year in an effort to move up into the Honors Track or to accelerate forward in the Advanced Track. It may also be taken by students who completed Algebra II freshman year to free up room for an elective in their sophomore year.*

Prerequisites: Advanced Algebra I (2130) or Algebra II (2110), and teacher approval.

Cost: There will be an additional cost of $400 for this summer session

Goals and Objectives: To encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods:* classroom discussion and notes, group work, board work, and homework.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2230 (ADVANCED) or 2240 (REGULAR)
ALGEBRA II
Grade 10 / 2 Semesters / 1 Credit

Prerequisites: Algebra I and teacher approval.

Goals and Objectives: To review the concepts developed in Algebra I; to study quadratic equations and inequalities; to study different types of functions – linear, quadratic, exponential, and logarithmic through the observation of their graphs and defining equations; to introduce analytics; to study the complex number system.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods*: classroom discussion and notes, small group work, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2310
HONORS PRECALCULUS BC
Grade 11 / 2 Semesters / 1 Credit

Prerequisites: Algebra I, Algebra II, Geometry, and teacher approval.

Goals and Objectives: To provide a thorough preparation for the study of BC Calculus and Linear Algebra; to help develop mathematical maturity by emphasizing proof in an abstract mathematical setting; to illustrate significant applications of mathematics whenever appropriate; to stress the unity of mathematics by continually returning to such unifying themes as mappings, binary operations, and groups. Some major topics include: set theory and logic,

the algebra of vectors, functions, complex numbers, theory of polynomial equations, functions and inverse functions – exponential, logarithmic, circular, and trigonometric, and an in-depth study of trigonometry and complex numbers, the conic sections and three-dimensional analytic geometry.

Content and Methods: *Materials*: TI-84 graphing calculator and *Modern Introductory Analysis* (Dolciani). *Methods:* classroom discussion and notes, board work, daily homework - approximately 45 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2320
HONORS PRECALCULUS AB
Grade 11 / 2 Semesters / 1 Credit

Prerequisites: Algebra I, Algebra II, Geometry, and teacher approval.

Goals and Objectives: To provide a thorough preparation for the study of AB Calculus; to provide an in-depth study of functions specifically polynomial, power, rational, exponential, and logarithmic functions; to study all of the key elements of trigonometric functions in right triangle and coordinate situations as well as their graphs; to study the identities and algebraic properties of trigonometric functions; to introduce the fundamental ideas of calculus including limits.

Content and Methods: *Materials*: TI-84 graphing calculator. *Methods:* classroom discussion and notes, group work, board work, and homework - approximately 45 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2325
ADVANCED PRECALCULUS
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Algebra I, Algebra II, Geometry, and teacher approval.

Goals and Objectives: To provide a thorough preparation for the study of Honors Calculus; to provide an in-depth study of functions specifically polynomial, power, rational, exponential, and logarithmic functions; to study all of the key elements of trigonometric functions in right triangle and coordinate situations as well as their graphs; to study the identities and algebraic properties of trigonometric functions.

Content and Methods: *Materials*: TI-84 graphing calculator. *Methods:* classroom discussion and notes, group work, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2330
GEOMETRY
Grades 10, 11 / 1st Semester / .50 Credit

Note: *This course is for students who are approved to take Semester Geometry during sophomore or junior year in an effort to move up into the Honors Track or to accelerate forward in the Advanced Track.*

Prerequisites: Algebra I, Algebra II, and teacher approval.

Corequisites: Takes 2330 1st semester and 2110 or 2230 (SO) or 2320 or 2325 (JR) for the full year

Goals and Objectives: To encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods:* classroom discussion and notes, group work, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2336
GEOMETRY
Grade 11 / 2 Semesters / 1 Credit

Prerequisites: Algebra I, Algebra II, and teacher approval.

Goals and Objectives: To encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods:*

classroom discussion and notes, group work, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2710
AP CALCULUS BC
Grade 12 / 2 Semesters / 1 Credit

Prerequisites: Honors Precalculus BC (2310) and teacher approval.

Goals and Objectives: To help the student gain an appreciation for the rich history and the creative genius behind calculus, to provide a solid theoretical background in the study of Calculus. Significant topics: evaluation of limits, derivatives and their applications related rates, optimization, and the social and physical sciences, integrals and their applications to areas and volumes, calculus of polar and parametric curves, advanced techniques of integration, elementary study of differential equations including slope fields, Euler's method and separable differentiable equations, the tests for convergence of series and sequences and the study of Taylor Series. To provide a complete preparation for the BC Calculus AP Exam. This course is equivalent to the first two semesters of college Calculus.

Content and Methods: *Materials*: TI-84 graphing calculator. *Method*: Classroom discussion, notes, group work, and daily homework.

Evaluation and Grading: Tests, daily assignments, and quarter exams.

2720
AP CALCULUS AB
Grade 12 / 2 Semesters / 1 Credit

Prerequisites: Honors Precalculus AB (2320) and teacher approval.

Goals and Objectives: To prepare for the Advanced Placement AB Calculus Exam; to become competent in the basic mechanics of calculus – limits, derivatives, and integrals; to understand the concepts and theory of these basic mechanics; to become competent in the basic applications of calculus –optimizations, related rates, areas, volumes, and methods of integration; to provide a solid background for students who wish to study advanced work in mathematics, science, engineering, or computer science.

Content and Methods: *Materials*: TI-84 graphing calculator. *Method*: class discussion and notes, board work, group work, and homework.

Evaluation and Grading: Quizzes, tests, homework, and quarter exams.

2730
AP STATISTICS
Grades 9, 10, 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Algebra I, Algebra II (advanced level or above), and teacher approval.

Goals and Objectives: To prepare for the Advanced Placement Statistics Exam; to develop strategies for collecting, organizing, analyzing, and drawing conclusions from data; to design, administer, and tabulate results from surveys and experiments; to use probability and simulations to aid in constructing models for chance behavior; to study sampling distributions to provide the logical structure for confidence intervals and hypothesis tests; to develop effective statistical communication skills through frequent written and oral analyses of real data.

Content and Methods: *Materials*: TI-84 graphing calculator, *The Practice of Statistics for the AP® Course*. 7th ed (Starnes and Tabor). *Method*: Classroom discussion, reading assignments, notes, group work, daily homework.

Evaluation and Grading: Daily assignments, quizzes, projects, tests, and quarterly exams.

2731
AP STATISTICS
Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Honors Prob/Stats or Honors Prob/Stats/Geometry, and teacher approval.

Goals and Objectives: This is the second semester of AP Statistics. It is only for students who have taken the first half already and received an 87% or above in either Honors Prob/Stats or Honors Prob/Stat/Geometry. To prepare for the AP Statistics Exam; to develop strategies for collecting, organizing, analyzing, and drawing conclusions from data; to design, administer, and tabulate results from surveys and experiments; to use probability and simulations to aid in constructing models for chance behavior; to study sampling distributions to provide the logical structure for confidence intervals and hypothesis tests; to develop effective statistical communication skills through frequent written and oral analyses of real data.

MATHEMATICS COURSE DESCRIPTIONS

Content and Methods: *Materials*: TI-84 graphing calculator, *The Practice of Statistics for the AP® Course*. 7th ed (Starnes and Tabor). *Method*: Classroom discussion, reading assignments, notes, group work, daily homework.

Evaluation and Grading: Daily assignments, quizzes, projects, tests, and quarterly exams.

2430
HONORS CALCULUS
Grade 12 / 2 Semesters / 1 Credit

Prerequisites: Algebra II, Geometry, Precalculus, and teacher approval.

Goals and Objectives: To be introduced to the main concepts of calculus including limits, derivatives, and integrals with emphasis on application and theory. To provide a solid foundation for students to study college calculus. This course is not designed to prepare students for the Advanced Placement test and students will not complete the AP curriculum.

Content and Methods: *Materials:* TI-84 graphing calculator. *Method*: class discussion, notes, homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, homework, and quarter exams.

2440
INTRODUCTION TO CALCULUS
Grade 12 / 2 Semesters / 1 Credit

Prerequisites: Algebra I, Algebra II, Geometry, Precalculus, and teacher approval.

Goals and Objectives: To review and further develop topics which include basic algebraic operations, functions, graphing, systems of linear equations, logarithms and exponentials; to introduce the main topics in differential and integral calculus with an emphasis on applications rather than an in-depth study of theory.
Content and Methods: *Materials*: TI-84 graphing calculator. *Method*: classroom discussion and notes, group work, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2450
INTRODUCTION TO CALCULUS
Grade 12 / 1 Semester / .50 Credit

Prerequisites: Algebra I, Algebra II, Geometry, Precalculus, and teacher approval.

Goals and Objectives: To review and further develop topics which include basic algebraic operations, functions, graphing, systems of linear equations, logarithms, and exponentials.

Content and Methods: *Materials*: TI-84 graphing calculator. *Method*: classroom discussion and notes, group work, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2442
CCP PRECALCULUS
Grade 12 / 2 Semesters / 1 Credit / CCP (University of Cincinnati): 5 Credits

Prerequisites: Algebra I, Algebra II, Geometry, and teacher approval.

Students who desire to take the course must go through the CCP application process. Students who qualify for the CCP program and pass the course will receive CCP college credit awarded through the University of Cincinnati.
Goals and Objectives: To provide a thorough preparation for the study of Honors Calculus or college level Calculus I; to provide an in-depth study of functions specifically polynomial, power, rational, exponential, and logarithmic functions; to study all of the key elements of trigonometric functions in right triangle and coordinate situations as well as their graphs; to study the identities and algebraic properties of trigonometric functions; perform; to study systems of linear equations and solve and interpret application problems that involve systems of linear equations; to study basic vector operations both graphically and algebraically; to use vectors and trigonometry to solve application problems.

Content and Methods: *Materials*: TI-84 graphing calculator. *Methods:* classroom discussion and notes, group work, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

MATHEMATICS COURSE DESCRIPTIONS

2455
PRECALCULUS
Grade 12 / 2 Semesters / 1 Credit

Prerequisites: Algebra I, Algebra II, Geometry, and teacher approval.

Goals and Objectives: To provide a thorough preparation for the study of Honors Calculus; to provide an in-depth study of functions specifically polynomial, power, rational, exponential, and logarithmic functions; to study all of the key elements of trigonometric functions in right triangle and coordinate situations as well as their graphs; to study the identities and algebraic properties of trigonometric functions.

Content and Methods: *Materials*: TI-84 graphing calculator. *Methods:* classroom discussion and notes, group work, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests, and quarter exams.

2504
STATISTICS AND DATA ANALYTICS
Grades 10, 11, 12 / 1 Semester / .50 Math or Computer Science Credit

Prerequisites: Advanced Algebra I (2130), Algebra II (2110, 2121, 2230) or instructor approval. If you have taken AP Statistics (2730), Statistics and Data Analytics must be taken for Computer Science credit.

Goals and Objectives: To develop strategies for collecting, cleaning, and analyzing data; to study sampling distributions, confidence intervals and hypothesis tests; to learn statistical software such as Microsoft Excel & Programming in R. Concepts will be applied to data sets which include NFL (nflfastR) Fantasy Football, ACT, and other real life data sets to show the practical application of data science skills.

Content and Methods: TI-84 graphing calculator, Microsoft Excel, Google Sheets, R and R Studio. *Method*: Classroom discussion, notes, group work, homework. Microsoft Excel is used extensively. No coding experience is required.

Evaluation and Grading: Assignments, quizzes, projects, tests, and quarterly exams.

MATHEMATICS ELECTIVES

2502
FINANCE
Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To provide the students with a practical understanding of time value of money problems. The student will be able to solve all types of interest rate problems including simple interest, compound interest and continuous interest and be able to solve for every variable (rate, time, payment, present value, future value).

Content and Methods: *Materials: Schaum's: Mathematics of Finance* and the TI-84 graphing calculator. *Method:* Lecture, class discussion, board work, daily homework, and projects.

Evaluation and Grading: Homework, quizzes, tests, and projects.

2504
STATISTICS AND DATA ANALYTICS
Grades 10, 11, 12 / 1 Semester / .50 Math or Computer Science Credit

Prerequisites: Advanced Algebra I (2130), Algebra II (2110, 2121, 2230) or instructor approval. If you have taken AP Statistics (2730), Statistics and Data Analytics must be taken for Computer Science credit.

Goals and Objectives: To develop strategies for collecting, cleaning, and analyzing data; to study sampling distributions, confidence intervals and hypothesis tests; to learn statistical software such as Microsoft Excel & Programming in R. Concepts will be applied to data sets which include NFL (nflfastR) Fantasy Football, ACT, and other real life data sets to show the practical application of data science skills.

Content and Methods: TI-84 graphing calculator, Microsoft Excel, Google Sheets, R and R Studio. *Method*: Classroom discussion, notes, group work, homework. Microsoft Excel is used extensively. No coding experience is required.

Evaluation and Grading: Assignments, quizzes, projects, tests, and quarterly exams.

2711
LINEAR ALGEBRA
Grade 12 / 1st Semester / .50 Credit

Corequisites: AP Calculus BC or AP Calculus AB, AND teacher approval. Please see Mrs. Wade for approval.

Goals and Objectives: To introduce the algebra and geometry of two- and three-dimensional space using

vectors, matrices, determinants, linear transformations, and eigenvectors; to serve as a transition from computational to more theoretical mathematics; to help develop "mathematical maturity" by emphasizing proof in an abstract mathematical setting. Topics include: matrix operations, determinants, rigorous study of vectors, vector spaces, spanning sets, linear independence, basis, inner product spaces, linear transformations, eigenvalues, eigenspaces, and diagonalization. (Recommended for advanced students who plan to major in mathematics, engineering, the physical sciences, or computer science). This course is equivalent to a 200-level college Linear Algebra course. A 1 point bump is added to the GPA quality points for this class.
Content and Methods: *Materials*: TI-84 graphing calculator, *Elementary Linear Algebra* (Anton). *Method*: class discussion, notes, group work, and daily homework.

Evaluation and Grading: Tests, daily homework, and quarter exams.

2712
MULTIVARIABLE CALCULUS
Grade 12 / 2nd Semester / .50 Credit

Prerequisites: Teacher approval AND Linear Algebra. Please see Mrs. Wade for approval.

Corequisites: AP Calculus BC

Goals and Objectives: To continue the techniques of BC Calculus and Linear Algebra and to apply those techniques to the calculus of three-dimensional space. Some major topics include: calculus of vector-valued functions, limits and partial and directional derivatives of functions of two and three variables, using Lagrange's Multipliers to find extreme values, evaluating double integrals and triple integrals using rectangular, cylindrical, and spherical coordinates, graphing and finding divergence and curl of vector fields, evaluating line integrals, and the proof and application of Green's Theorem, Stoke's Theorem, and the Divergence Theorems. This course is equivalent to a third semester college Calculus course. A 1 point bump is added to the GPA quality points for this class.

Content and Methods: *Materials*: TI-84 graphing calculator, *Multivariable Calculus* (James Stewart 6th edition). *Method*: Use of a graphing applet, class discussion and notes, daily homework.

Evaluation and Grading: Tests, daily homework, and quarter exams.

2730
AP STATISTICS
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Algebra I, Algebra II (advanced level or above), and teacher approval.

Goals and Objectives: To prepare for the Advanced Placement Statistics Exam; to develop strategies for collecting, organizing, analyzing, and drawing conclusions from data; to design, administer, and tabulate results from surveys and experiments; to use probability and simulations to aid in constructing models for chance behavior; to study sampling distributions to provide the logical structure for confidence intervals and hypothesis tests; to develop effective statistical communication skills through frequent written and oral analyses of real data.

Content and Methods: *Materials*: TI-84 graphing calculator, *The Practice of Statistics for the AP® Course*. 7th ed (Starnes and Tabor). *Method*: Classroom discussion, reading assignments, notes, group work, daily homework.

Evaluation and Grading: Daily assignments, quizzes, projects, tests, and quarterly exams.

2731
AP STATISTICS
Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: Honors Prob/Stats or Honors Prob/Stats/Geometry, and teacher approval.

Goals and Objectives: This is the second semester of AP Statistics. It is only for students who have taken the first half already and received an 87% or above in either Honors Prob/Stats or Honors Prob/Stat/Geometry. To prepare for the AP Statistics Exam; to develop strategies for collecting, organizing, analyzing, and drawing conclusions from data; to design, administer, and tabulate results from surveys and experiments; to use probability and simulations to aid in constructing models for chance behavior; to study sampling distributions to provide the logical structure for confidence intervals and hypothesis tests; to develop effective statistical communication skills through frequent written and oral analyses of real data.

Content and Methods: *Materials*: TI-84 graphing calculator, *The Practice of Statistics for the AP® Course*. 7th ed (Starnes and Tabor). *Method*:

Classroom discussion, reading assignments, notes, group work, daily homework.

Evaluation and Grading: Daily assignments, quizzes, projects, tests, and quarterly exams.

COMPUTER SCIENCE COURSE DESCRIPTIONS

COMPUTER SCIENCE

3101
INFORMATION PROCESSING

Grade 9 / 1 Semester / .25 Credit

Note: ***Information Processing earns .25 credit. Freshmen are also automatically enrolled into Oral Communications for the other .25 credit; both of these classes together earn .50 credit in one semester.***

Goals and Objectives: Students will learn what it means to be a Citizen in a Digital Society. Information Processing will go beyond Acceptable Use Policies, where the students will learn how to use technology more appropriately in the educational realm, as well as, outside the classroom. The key is that they learn to use technology safely, responsibly, and ethically. Students will develop awareness and knowledge of what is appropriate and inappropriate uses of technology. Students will learn and, as a result, teach what it means to be a Good Digital Citizen.

Content and Methods: Classes meet alternately with *Oral Communication* and are primarily done in lab sessions. Emphasis is placed on a combination of skills and resourcefulness. Experimentation and development of creative ideas is encouraged.

Evaluation and Grading: Lab assignments, presentations, quizzes, and group debates.

COMPUTER SCIENCE ELECTIVES

3202
3D MODELING

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Information Processing

Goals and Objectives: The student will be introduced to the fundamentals of using computers to create three-dimensional models. He will develop an appreciation for applying the principles of engineering, architecture, and interior design into digital designs and models.

Content and Methods: Students will learn to communicate graphical and design concepts with emphasis on visualization, modeling techniques, and tools. Students will implement computer graphic techniques using SketchUp and Autodesk Fusion 360 3D Modeling Software. Concepts will be discovered and developed primarily through lab work, as well as lectures and online resources. Some models will be brought into the physical world with 3D printing.

Evaluation and Grading: Exercises and projects.

3501
ADVANCE GAME OR MULTI-MEDIA

Grades 11, 12 / 1 Semester / .50 Computer Science or Fine Arts elective credit

Prerequisites: Information Processing and at least one additional Computer Science elective.

Goals and Objectives: This course is designed as an independent study, project-based, semester elective that allows students to further develop their interest in the area of technology they are called to pursue. Students would present ideas for projects to develop throughout the semester and collaborate with the instructor on extent and expectations. Length and scope would vary.

Content and Methods: Project will be customized based on the student's interest and teacher input. Students will build upon the skills they have learned and engage in the creation of robust projects that connect to the world outside of the classroom. Students should be self-motivated and have the ability to problem solve.

Evaluation and Grading: Grades will be based on a variety of project-based assessments.

3321
AP COMPUTER SCIENCE A

Grades 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Prerequisites: Introduction to Java Programming with a grade of 85 or better; OR permission from instructor.

Goals and Objectives: The course provides preparation for the Advanced Placement Computer Science A Examination. In particular, the course introduces college level programming concepts such as object-oriented programming, development and evaluation of sorting algorithms, and the standard Java API.

Content and Methods: For students interested in further study of

computer science, this rigorous and in-depth one-semester course covers program design, implementation and analysis. Students will write programs that utilize the object-oriented principles of design: inheritance, polymorphism, data abstraction, information hiding, and encapsulation. In addition, students work with programming structures such as Strings and Array Lists built into the Java API. The course features class lectures, lab work, selected readings, case studies, and homework.

Evaluation and Grading: Programming assignments, homework, quizzes, paper, and quarter exams.

3401
BROADCAST JOURNALISM I
Grades 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Note: ***All interested students MUST meet with Mrs. Schulte prior to registering to discuss the expectations of the class and receive a signature if approved. Students are required to complete additional activities outside of the traditional school day (most will be associated with school related activities) as assigned by the Course Instructor.***

Prerequisites: Information Processing AND permission of the instructor (Mrs. Schulte).

Goals and Objectives: This course will focus on the fundamentals and purpose, context, voice, techniques, and structure for effective broadcast communication. The class will take students on an exploration of the ever-growing and ever-changing world of media. Students will be actively engaged with various forms of media in order to understand the processes and theories associated with media.

Content and Methods: This course introduces the student to the media industry, including but not limited to: Broadcast Journalism, Public Relations, News Reporting and Writing, and Television Production.

Evaluation and Grading: Grades will be based on a variety of project-based assessments. **Students are required to complete additional activities outside of the traditional school day (most will be associated with school related activities) as assigned by the Course Instructor.**

3402
BROADCAST JOURNALISM II
Grades 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Note: ***All interested students MUST meet with Mrs. Schulte prior to registering to discuss the expectations of the class and receive a signature if approved. Students are required to complete additional activities outside of the traditional school day (most will be associated with school related activities) as assigned by the Course Instructor.***

Prerequisites: Broadcast Journalism I AND permission of the instructor (Mrs. Schulte).

Goals and Objectives: This course will build upon the fundamentals of Broadcast Journalism I with a deeper focus on production in broadcast communication. The class will take students on an exploration of the ever-growing and ever-changing world of media. Students will be actively engaged with various forms of media in order to understand the processes and theories associated with media.

Content and Methods: This course expands the student knowledge in the media industry, including but not limited to: Broadcast Journalism, Public Relations, News Reporting and Writing, and Television Production.

Evaluation and Grading: Grades will be based on a variety of project-based assessments. **Students are required to complete additional activities outside of the traditional school day (most will be associated with school related activities) as assigned by the Course Instructor.**

3302
IT CAPSTONE
Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: One or more STEM classes, such as, 3D Modeling, Engineering Foundations, CCP Web Design, etc. The student must get approval from CS Teacher.

Goals and Objectives: This course provides hands-on experiences that are similar to those found in an internship or college co-op position. The course builds upon the skills students have learned in other Computer Science classes by applying their knowledge in real-world projects while learning and applying product development practices. Corporate partners and St. X's Career Connections will work with all students in this course in a Product Development project that simulates a project for a real-life client or product

concept. The projects will involve the definition of the problem statement, consumer research, solution design, and 3D printing. Additional tasks may include focus groups or gathering user feedback through surveys, analyzing data, and making new iterations of the design.

Content and Methods: This is primarily a hands-on, real-world project-based class. Students will use knowledge and skills from previous classes to fulfill requirements.

Evaluation and Grading: Students will be evaluated on initiative, teamwork, problem-solving, and customer service.

3204
GAME DESIGN
Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Information Processing

Goals and Objectives: This course is designed to allow students to express their desire to create video games. Students choose from a variety of projects, which will allow them to create 2D games, 3D games, or Virtual Reality games depending on their interest. This is a project-based class. There are no written tests. Programing is not required for 2D games but is needed for 3D and VR games. Software used includes GameMaker, Unity, Steam. and other applications. Students will also have an option to learn how to program a robot.

Content and Methods: Students will be introduced to design elements as it relates to the aspects of game development. Concepts include story line, scoring and rewards for progression, use of sound effects, creativity (power ups, etc.), and game flow (how the game increases in difficulty).

Evaluation and Grading: Assessment comes from the projects and games students create. There are no written tests.

3208
HONORS CYBERSECURITY
Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: None. No previous experience is needed.

Goals and Objectives: Students learn about types of cyber-attacks, encryption, cybersecurity threats, risk analysis, cryptography, and how to protect computers and networks from bad actors. This course aligns with the CompTIA Security+ certification.

Content and Methods: Students will engage in a variety of learning methods, including simulations, authentic cybersecurity applications, hands-on Labs and opportunities to participate in competitions such as Capture the Flag. WireShark and various other software are used.

Evaluation and Grading: This course will include hands-on activities, use of various software, group projects as well as traditional tests and note-taking.

3201
MULTI-MEDIA AND FILM
Grades 10, 11, 12 / 1 Semester / .50 Computer Science or Fine Arts elective credit

Prerequisites: Information Processing

Goals and Objectives: Visual literacy is growing in importance as technology is incorporated into our daily lives. This course offers students the opportunity to learn the skills needed to express ideas in various multi-media formats. This project-based class allows for student creativity while meeting the course objective. Projects will include: Sound editing; graphic design; 360-degree pictures; creating animations and filming & editing video. Students will create their own movies.

Content and Methods: This course is for students interested in hands-on use of the computer as a tool for expressing ideas and/or creating messages. Students will be introduced to the concept and use of Adobe Creative Suites: Flash/Animate, Premiere (video editing), Illustrator & Photoshop as well as Audacity (audio editing) software.

Evaluation and Grading: Lab assignments, presentations, group projects, and portfolio.

3207
STATISTICS AND DATA ANALYTICS
Grades 10, 11, 12 / 1 Semester / .50 Math or Computer Science Credit

Prerequisites: Advanced Algebra I (2130), Algebra II (2121, 2110) or instructor approval. If you have taken AP Statistics (2730), Statistics and Data Analytics must be taken for Computer Science credit.

Goals and Objectives: To develop strategies for collecting, cleaning, and analyzing data; to study sampling distributions, confidence intervals and hypothesis tests; to learn statistical

software such as Microsoft Excel & Programming in R. Concepts will be applied to data sets which include NFL (nflfastR) Fantasy Football, ACT, and other real life data sets to show the practical application of data science skills.

Content and Methods: TI-84 graphing calculator, Microsoft Excel, Google Sheets, R and R Studio. *Method*: Classroom discussion, notes, group work, homework. Microsoft Excel is used extensively. No coding experience is required.

Evaluation and Grading: Assignments, quizzes, projects, tests, and quarterly exams.

3403
YEARBOOK I
Grades 11, 12 / 1 Semester / .50 Credit

Note: *All interested students MUST meet with Mrs. Schulte or Mr. Vargas prior to registering to discuss the expectations of the class and receive a signature if approved. Students are required to complete additional activities outside of the traditional school day (most will be associated with school-related activities) as assigned by the Course Instructor.*

Prerequisites: Permission from the instructor (Mrs. Schulte or Mr. Vargas).

Goals and Objectives: Students will develop essential journalistic writing skills, including crafting compelling feature articles, writing effective captions, and creating attention-grabbing headlines. The course also introduces digital photography and photo editing techniques to help students capture meaningful moments throughout the school year. Students will learn design principles and layout techniques used in professional print media, gaining experience in creating visually appealing pages. Through collaborative projects, students will build teamwork and project management skills. By the end of the course, students will contribute to producing a high-quality yearbook that reflects the spirit, achievements, and events of the school community.

Content and Methods: Representative examples of amateur and professional journalism are studied. This course includes instruction in computer software programs, primarily Adobe Lightroom, which aids photography and editing for the semester. The bulk of this course centers on the production of the school yearbook, XRay.

Evaluation and Grading: Grades will be based on a variety of project-based assessments. Students are required to complete additional activities outside of the traditional school day (most will be associated with school-related events and coverage) as assigned by the Course Instructor. Students will receive a grade weight that reflects the additional workload, task difficulty, and knowledge needed to successfully complete the responsibilities of a student publication.

- **Photography** – Capture high-quality images that reflect the activities and spirit of the school community. All photos must be properly tagged and organized.
- **Editing** – Proofread all written content for grammar, spelling, and journalistic style. Ensure captions, headlines, and articles are accurate and polished. Edit photos as needed to meet publication standards.
- **Layout Design** – Use the Lifetouch Yearbook site to design visually appealing, readable, and cohesive pages. Incorporate articles, photos, and graphics that support the overall theme of the book.
- **Writing** – Develop strong writing skills by creating engaging captions, headlines, and feature stories that bring student life to the page.
- **Final Semester Project** – Submit 10–20 final spreads by the last class of the semester, showcasing your best work in photography, writing, design, and editing.

3404
YEARBOOK II
Grades 11, 12 / 1 Semester / .50 Credit

Note: *All interested students MUST meet with Mrs. Schulte or Mr. Vargas prior to registering to discuss the expectations of the class and receive a signature if approved. Students are required to complete additional activities outside of the traditional school day (most will be associated with school related activities) as assigned by the Course Instructor.*

Prerequisites: Yearbook I and permission from the instructor (Mrs. Schulte or Mr. Vargas).

Goals and Objectives: This course is designed for students who have taken Yearbook I in a prior semester and are interested in an editorial role on staff. Time spent editing, designing, writing and/or photographing outside of class that goes above and beyond the expectations of a staff member is an

expectation for students taking this course.

Content and Methods: Representative examples of amateur and professional journalism are studied. This course includes instruction in computer software programs, primarily Adobe Lightroom, which aids photography and editing for the semester. The bulk of this course centers on the production of the school yearbook, XRay.

Evaluation and Grading: Grades will be based on a variety of project-based assessments. Students are required to complete additional activities outside of the traditional school day (most will be associated with school-related events and coverage) as assigned by the Course Instructor. Students will receive a grade weight that reflects the additional workload, task difficulty, and knowledge needed to successfully complete the responsibilities of a student publication.

- **Photography** – Capture high-quality images that reflect the activities and spirit of the school community. All photos must be properly tagged and organized.
- **Editing** – Proofread all written content for grammar, spelling, and journalistic style. Ensure captions, headlines, and articles are accurate and polished. Edit photos as needed to meet publication standards.
- **Layout Design** – Use the Lifetouch Yearbook site to design visually appealing, readable, and cohesive pages. Incorporate articles, photos, and graphics that support the overall theme of the book.
- **Writing** – Develop strong writing skills by creating engaging captions, headlines, and feature stories that bring student life to the page.
- **Final Semester Project** – Submit 10–20 final spreads by the last class of the semester, showcasing your best work in photography, writing, design, and editing.

3611
CCP IT FUNDAMENTALS

Grades 10, 11, 12 / 1 Semester / .50 Credit / CCP (University of Cincinnati): 3 Credits

Prerequisites: Information Processing

Goals and Objectives: This course is an introduction to the field of Information Technology including technology concepts, terminology, hardware components and software applications. Students will be introduced to and asked to apply basic skills in the core areas of information technology such as programming, database management, networking, systems administration, and web development. As well as learning the basic research, problem solving and decision-making skills required to be successful in this field. The course emphasizes the role of technical communication, project management, languages, tools, models, and application architectures within the IT development process.

Students who desire to take the course must go through the CCP application process. Students who qualify for the CCP program and pass the course will receive CCP college credit awarded through the University of Cincinnati.

This course is equivalent to an AP level course in terms of St. Xavier high school credit.

Content and Methods: This is a survey course that will include a variety of methods including hands-on activities, use of various software, group projects as well as traditional texts and note taking. It is for students interested in exploring the various aspects of Information Technology (IT) and computer fields.

Evaluation and Grading: Lab assignments, presentations, group projects, traditional tests and a capstone project.

3631
CCP COMPUTER NETWORKING

Grades 10, 11, 12 / 1 Semester / .50 Credit / CCP (University of Cincinnati): 3 Credits

Not offered 2026-27 school year.

Prerequisites: Information Processing

Goals and Objectives: The CCP Computer Networking course explains, in a theoretical and practical framework, how communication occurs across a network. Students study such topics as computer/ network hardware, network media, topologies, protocols, security, network architectures, IP addressing, and the Transmission Control Protocol/Internet Protocol (TCP/IP) model. Hands-on, active learning is required.

Students who desire to take the course must go through the CCP application process. Students who qualify for the CCP program and pass the course will receive CCP college credit awarded through the University of Cincinnati.

COMPUTER SCIENCE COURSE DESCRIPTIONS

This course is equivalent to an AP level course in terms of St. Xavier high school credit.

Content and Methods: This course will include a variety of methods including hands-on activities, use of various software, group projects as well as traditional texts and note taking. It is for students interested in understanding how the internet works and what composes a home network.

Evaluation and Grading: Lab assignments, presentations, group projects, traditional tests, and a capstone project.

3621
CCP PROGRAMMING I

Grades 10, 11, 12 / 1 Semester / .50 Credit
CCP (University of Cincinnati): 3 Credits

Prerequisites: Information Processing

Goals and Objectives: The student will be introduced to computer programming and problem-solving methods using the Java programming language. He will be introduced to computer architecture, data representation, and programming process and structure.

Students who desire to take the course must go through the CCP application process. Students who qualify for the CCP program and pass the course will receive CCP college credit awarded through the University of Cincinnati.

This course is equivalent to an AP level course in terms of St. Xavier high school credit.

Content and Methods: Introduction to Java syntax, program development, and problem-solving techniques. This is an excellent first course for the student interested in learning more about computer languages and how computers function. Problem-solving and documentation skills are emphasized in classroom lectures and programming projects. Lab exercises, research, and homework cover practical and theoretical applications.

Evaluation and Grading: Programming assignments, homework, quizzes, and quarter exams**.**

3612
CCP WEB DESIGN

Grades 10, 11, 12 / 1 Semester / .50 Credit / CCP (University of Cincinnati): 3 Credits

Prerequisites: None. No previous experience is needed.

Goals and Objectives: This hands-on course provides students with introductory skills that will enable them to become proficient in web page construction. Students work with industry-standard software for website creation with HTML and other web-based coding applications. Topics covered include design, function, incorporating different types of media, website security, and user input. The final project will be a fully functional website for a client.

Students who desire to take the course must go through the CCP application process. Students who qualify for the CCP program and pass the course will receive CCP college credit awarded through the University of Cincinnati.

This course is equivalent to an AP level course in terms of St. Xavier high school credit.

Content and Methods: This project-based class will allow students to use their creativity when creating various webpages and websites.

Evaluation and Grading: This course will include hands-on activities, use of various software, group projects as well as traditional tests and note-taking.

3601
CCP ACCOUNTING

Grade 12 / 1 Semester / .50 Credit / CCP (University of Cincinnati): 3 Credits

Prerequisites: None.

Goals and Objectives: To give an introduction to the principles and methods of accounting; to emphasize an understanding of the underlying basic procedures to set up and operate a small business accounting system, to learn the skills necessary for the handling of the financial records of a small business; to introduce the student to automated data processing and its applications to accounting; to learn the necessary skills for the preparation of a federal tax return for a small business.

Students who desire to take the course must go through the CCP application process. Students who qualify for the CCP program and pass the course will receive CCP college credit awarded through the University of Cincinnati.

This course is equivalent to an AP level course in terms of St. Xavier high school credit.

Content and Methods: *Materials*: *Century 21 Accounting*, TI-84 graphing calculator, online workbook, and online business simulation packet. *Method*: Lecture, discussion, notes, group work, and homework. One or two class periods a week will be used as laboratory periods where students will work on assignments from the workbook, business simulation packet, and have the opportunity to consult with the teacher.

Evaluation and Grading: Chapter tests, homework assignments, business simulation packet, and quarter exams.

WORLD LANGUAGES COURSE DESCRIPTIONS

WORLD LANGUAGES

Students are automatically placed into their required level 3 classes by the World Language Department.

CHINESE

4140
CHINESE 1
Grades 9, 12 / 2 Semesters / 1 Credit

Goals and Objectives: To develop skills in the fundamentals of the Chinese Language; to develop an understanding of the basic grammar and syntax of the Chinese Language. To develop listening, speaking, reading and writing skills in Chinese; to promote the use of Chinese in free communication; to promote creativity with the language; to introduce the students to written and oral expression; to promote cultural appreciation and enjoyment of Chinese; to use Chinese beyond the school setting.

Content and Methods: *Materials*: textbook, workbook, laboratory manual, satellite TV and radio broadcasts, other audio and video selections, selected readings, dictations, internet resources. *Methods*: question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, and homework.

4240
CHINESE 2
Grade 10 / 2 Semesters / 1 Credit

Prerequisites: Chinese 1 or passing a qualifying test during admissions

Goals and Objectives: To continue and reinforce the skills learned in Chinese l; to introduce complex sentences; to give considerable attention to pronunciation, fluency, and intonation; to emphasize the written aspects of the language; to build vocabulary and develop good reading habits; to encourage the students to speak Chinese among themselves and with other speakers of Chinese; to use Chinese beyond the school setting.

Content and Methods: *Materials*: textbook, workbook, laboratory manual, satellite TV and radio broadcasts, other audio and video selections, selected readings, dictations, internet resources. *Methods*: question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, and homework.

4340
CHINESE 3
Grade 11 / 2 Semesters / 1 Credit

Prerequisites: Chinese 2 or passing a qualifying test during admissions

Goals and Objectives: To continue and reinforce the skills learned in Chinese 2; to introduce complex sentences; to give considerable attention to pronunciation, fluency, and intonation; to emphasize the written aspects of the language; to build vocabulary and develop good reading habits; to encourage the students to speak Chinese among themselves and with other speakers of Chinese; to use Chinese beyond the school setting.

Content and Methods: *Materials*: textbook, workbook, laboratory manual, satellite TV and radio broadcasts, other audio and video selections, selected readings, dictations, internet resources. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, and homework.

FRENCH

4100
FRENCH 1
Grades 9, 12 / 2 Semesters / 1 Credit

Goals and Objectives: To develop skills in the fundamentals of the French language; to develop an understanding of the basic grammar and syntax of the French language. To develop listening, speaking, reading, and writing skills in French; to promote the use of French in free communication; to promote creativity with the language; to introduce the students to written and oral expression; to promote cultural appreciation and enjoyment of French;

to use French beyond the school setting.

Content and Methods: *Materials*: textbook, online workbook, audio and video selections, selected readings, dictations, internet resources. *Methods*: question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, and homework.

4200
FRENCH 2
Grade 10 / 2 Semesters / 1 Credit

Prerequisites: French 1 or passing a qualifying test during admissions

Goals and Objectives: To continue and reinforce the skills learned in French l; to introduce complex sentences; to give considerable attention to pronunciation, fluency, and intonation; to emphasize the written aspects of the language; to build vocabulary and develop good reading habits; to encourage the students to speak French among themselves and with other speakers of French; to use French beyond the school setting.

Content and Methods: *Materials*: textbook, online workbook, audio and video selections, selected readings, dictations, internet resources. *Methods*: question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, and homework.

4300
FRENCH 3
Grade 11 / 2 Semesters / 1 Credit

Students are automatically placed into their required level 3 classes by the World Language Department after completing level 2 or by passing a qualifying test during admissions.

Goals and Objectives: To continue the reinforcement of the four skills: reading, writing, listening, and speaking; to strengthen reading skills using selections from French literature and contemporary reading materials; to continue to develop writing skills and oral fluency for communication and personal expression; to promote a better knowledge of the culture of France and the Francophone world; to use French beyond the school setting.

Content and Methods: *Materials*: textbook, online workbook, audio and video selections, selected readings, dictations, internet resources. *Methods*: question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, and homework.

4305
HONORS FRENCH 3
Grade 11 / 2 Semesters / 1 Credit

Students are automatically placed into their required level 3 classes by the World Language Department after completing level 2 or by passing a qualifying test during admissions.

Goals and Objectives: To highly develop conversational French skills, writing skills, and expand Francophone cultural knowledge. Students will explore Francophone countries and culture through readings, documentaries, music, films, and cuisine; developing an expanded vocabulary through regular reading, writing, and conversation-oriented assignments.

Content and Methods: Materials include textbook, online workbook, selected literary works, news articles, and internet resources. The class will be conducted in French and will include guided conversations and dictations, oral presentations, lectures, including regular reviews of grammar as needed, with intensive practice in listening and reading comprehension.

Evaluation and Grading: Classroom practice, homework assignments, emails, telephone conversations, cultural comparisons, persuasive essays, quizzes, tests, and quarter exams.

GERMAN

4110
GERMAN 1
Grades 9, 12 / 2 Semesters / 1 Credit

Goals and Objectives: To develop skills in the fundamentals of the

German language; to develop an understanding of the basic grammar and syntax of the German language; to acquire a workable foundation of vocabulary; to develop listening, speaking, reading, and writing skills in German; to promote the use of German in free communication both within the school setting and beyond the classroom; to promote creativity with the language; to introduce the students to written and oral expression; to introduce the geography of German-speaking countries; to promote and emphasize German culture and enjoyment of German.

Content and Methods: *Materials:* electronic textbook, online dictionary (English – German; German – English), audio and video selections, selected readings, dictations, internet resources. Other books that the teacher requests. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities, and individual/group presentations.

4210
GERMAN 2
Grade 10 / 2 Semesters / 1 Credit

Prerequisites: German 1 or passing a qualifying test during admissions

Goals and Objectives: To continue to reinforce the skills learned in German 1; to introduce complex sentence structures and a wider range of verb tenses; to give considerable attention to pronunciation, fluency and intonation; to emphasize the written and spoken aspects of the language; to continue to build vocabulary and develop good reading and listening habits; to promote the use of German in free communication both within the school setting and beyond the classroom; to promote creativity with the language; to review and advance the study of the geography of German-speaking countries; to promote and emphasize German culture and enjoyment of German.

Content and Methods: *Materials:* electronic textbook, online dictionary (English – German; German – English), audio and video selections, selected readings, dictations, internet resources, and other books that teacher requests. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities, and individual/group presentations.

4310
GERMAN 3
Grade 11 / 2 Semesters / 1 Credit

Students are automatically placed into their required level 3 classes by the World Language Department after completing level 2 or by passing a qualifying test during admissions.

Goals and Objectives: To continue the reinforcement, strengthening, and enhancement of the four major skill areas: reading, writing, listening, and speaking by using selections from contemporary authentic German literary sources; using writing skills and oral fluency for communication and personal expression; to promote an enhanced knowledge of the culture of Germany and German-speaking countries; to reinforce and enhance the knowledge of geography of German-speaking countries; to promote and emphasize the use of language outside of the classroom setting including with native speakers.

Content and Methods: *Materials:* electronic textbook, online dictionary (English – German; German – English), audio and video selections, selected readings, dictations, internet resources, and other books that the teacher requests. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities, individual/group presentations, and one-on-one teacher-student interviews.

4315
HONORS GERMAN 3
Grade 11 / 2 Semesters / 1 Credit

Students are automatically placed into their required level 3 classes by the World Language Department after completing level 2 or by passing a qualifying test during admissions.

Goals and Objectives: To highly develop conversational German skills, writing skills, and expand German cultural knowledge. Students will explore German-speaking countries and culture through readings,

documentaries, music, films, and cuisine, developing an expanded vocabulary through regular reading, writing, and conversation-oriented assignments.

Content and Methods: Materials include textbook (print copy & online), workbook, selected literary works, news articles, and internet resources. The class will be conducted in German and will include guided conversations and dictations; oral presentations; lectures, including regular review of grammar as needed, with intensive practice in listening and reading comprehension.

Evaluation and Grading: Classroom practice, homework assignments, emails, telephone conversations, cultural comparisons, persuasive essays, quizzes, tests, and quarter exams.

LATIN

4120
LATIN 1
Grades 9, 12 / 2 Semesters / 1 Credit

Goals and Objectives: To learn the fundamentals of the Latin language through translation of sentences from Latin to English and vice versa; to read and comprehend simple Latin stories that describe Roman civilization, history and mythology; to participate in simple conversation, questions, and answers in Latin; to master the five declensions and the four conjugations necessary for reading and understanding the language; to develop a Latin vocabulary from which many English words are derived.

Content and Methods: *Materials: Lingua Latina Per Se Illustrata: Familia Romana* and accompanying workbook. Emphasis will be on oral drills, written exercises, translation of stories, grammar explanations, conversation, and bringing students quickly to the point where they can read Latin with confidence and become familiar with life in the early Roman Empire.

Evaluation and Grading: Quizzes on forms, grammar and/or vocabulary; tests, and homework.

4220
LATIN 2
Grade 10 / 2 Semesters / 1 Credit

Prerequisites: Latin 1 or passing a qualifying test during admissions

Goals and Objectives: To review first-year Latin concepts and to continue developing skills of reading and writing the language, constructing original thoughts of their own in Latin, and translating from Latin to English as well as from English to Latin; to introduce additional grammatical topics necessary for reading original Latin authors.

Content and Methods: *Materials: Lingua Latina Per Se Illustrata: Familia Romana* and accompanying workbook. Emphasis is on oral drills, written exercises, building vocabulary, and beginning to sample authentic original Latin authors.

Evaluation and Grading: Unit tests on translation, morphology, and syntax; quizzes on vocabulary and forms; tests on the recognition of Latin forms.

4320
LATIN 3
Grade 11 / 2 Semesters / 1 Credit

Students are automatically placed into their required level 3 classes by the World Language Department after completing level 2 or by passing a qualifying test during admissions.

Goals and Objectives: To finish *Lingua Latina Per Se Illustrata: Familia Romana* and transition into authentic Latin. We will encounter the literary conventions of prose and poetry by reading and discussing the works of various Roman authors. We will extensively study passages from Julius Caesar's *Gallic Wars*, accounts of his military campaigns throughout modern-day Europe. We will also read generous selections about the legendary Trojan War, beginning with the English translation of Homer's *Iliad*—the first work of Western literature and an encapsulation of ancient Greek cultural identity—as a backdrop for our study of Virgil's *Aeneid*, a defining work of Latin literature which continues the tale of the fall of Troy.

Content and Methods: *Materials: Lingua Latina Per Se Illustrata: Familia Romana* and accompanying workbook; *The Essential Homer*, Stanley Lombardo; passages from Caesar's *De Bello Gallico* and Virgil's *Aeneid* (handouts supplied by teacher). Emphasis is on the art of translation, rhetoric, explication of the text, and the usage of Latin idioms and figures of speech.

Evaluation and Grading: Tests and quizzes on vocabulary, recognition of Latin forms, usage of Latin idioms

and figures of speech, and comprehension of the authors read.

4325
HONORS LATIN 3
Grade 11 / 2 Semesters / 1 Credit

Students are automatically placed into their required level 3 classes by the World Language Department after completing level 2 or by passing a qualifying test during admissions.

Goals and Objectives: To finish *Lingua Latina Per Se Illustrata: Familia Romana* and transition into authentic Latin. We will encounter the literary conventions of prose and poetry by reading and discussing the works of various Roman authors. We will extensively study passages from Julius Caesar's *Gallic Wars,* accounts of his military campaigns throughout modern-day Europe. We will also read generous selections about the legendary Trojan War, beginning with the English translation of Homer's *Iliad*—the first work of Western literature and an encapsulation of ancient Greek cultural identity—as a backdrop for our study of Virgil's *Aeneid*, a defining work of Latin literature which continues the tale of the fall of Troy. Honors Latin 3 covers the same authors as regular Latin 3, but at a faster pace that will take in even more text.

Content and Methods: Emphasis is on the art of translation, rhetoric, explication of the text, and the usage of Latin idioms and figures of speech.

Evaluation and Grading: Tests and quizzes on vocabulary, recognition of Latin forms, usage of Latin idioms and figures of speech, and comprehension of the authors read.

SPANISH

4130
SPANISH 1
Grades 9, 12 / 2 Semesters / 1 Credit

Goals and Objectives: To develop skills in the fundamentals of the Spanish language; to develop an understanding of the basic grammar and syntax of the Spanish language; to acquire a workable foundation of vocabulary; to develop listening, speaking, reading, and writing skills in Spanish; to promote the use of Spanish in free communication both within the school setting and beyond the classroom; to promote creativity with the language; to introduce the students to written and oral expression; to introduce the geography of Spanish-speaking countries; to promote and emphasize Hispanic culture and enjoyment of Spanish.

Content and Methods: *Materials:* textbook (print copy and online), online workbook, audio and video selections, selected readings, dictations, internet resources. Other books that the teacher requests. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities, and individual/group presentations.

4230
SPANISH 2
Grade 10 / 2 Semesters / 1 Credit

Prerequisites: Spanish 1 or passing a qualifying test during admissions

Goals and Objectives: To continue to reinforce the skills learned in Spanish 1; to introduce complex sentence structures and a wider range of verb tenses; to give considerable attention to pronunciation, fluency and intonation; to emphasize the written and spoken aspects of the language; to continue to build vocabulary and develop good reading and listening habits; to promote the use of Spanish in free communication both within the school setting and beyond the classroom; to promote creativity with the language; to review and advance the study of the geography of Spanish-speaking countries; to promote and emphasize Hispanic culture and enjoyment of Spanish.

Content and Methods: *Materials:* textbook (print copy and online), online workbook, audio and video selections, selected readings, dictations, internet resources. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities, and individual/group presentations.

WORLD LANGUAGES COURSE DESCRIPTIONS

4330
SPANISH 3
Grade 11 / 2 Semesters / 1 Credit

Students are automatically placed into their required level 3 classes by the World Language Department after completing level 2 or by passing a qualifying test during admissions.

Goals and Objectives: To continue the reinforcement, strengthening, and enhancement of the four major skill areas: reading, writing, listening, and speaking; using writing skills and oral fluency for communication and personal expression; to promote an enhanced knowledge of the culture of Spain and Latin America; to reinforce and enhance the geography of Spanish-speaking countries; to promote and emphasize the use of language outside of the classroom setting, including with native speakers.

Content and Methods: *Materials:* online textbook/workbook, audio and video selections, selected readings, dictations, internet resources. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities and individual/group presentations, and one-on-one teacher-student interviews.

4335
HONORS SPANISH 3
Grade 11 / 2 Semesters / 1 Credit

Students are automatically placed into their required level 3 classes by the World Language Department after completing level 2 or by passing a qualifying test during admissions.

Goals and Objectives: To highly develop conversational Spanish skills, writing skills and expand Hispanic cultural knowledge. Students will explore Hispanic countries and culture through readings, music, and news reports, developing an expanded vocabulary through regular reading, writing, and conversation-oriented assignments.

Content and Methods: *Materials*: online textbook/workbook, news articles, authentic videos, and internet resources. *Method*s: The class will be conducted in Spanish and will include guided conversations; lectures, including regular reviews of grammar as needed, with intensive practice in listening and reading comprehension.

Evaluation and Grading: Classroom practice, homework assignments, emails, telephone conversations, cultural comparisons, persuasive essays, quizzes, tests, and quarter exams.

WORLD LANGUAGES ELECTIVES

4440
AP CHINESE LANGUAGE
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: An average of 90% or above in Chinese 3 AND teacher approval.

Goals and Objectives: To develop the ability to understand spoken Chinese in various contexts; to develop a Chinese vocabulary sufficient for reading newspaper and magazine articles, literary texts, and other non-technical writings without heavy dependence on a dictionary; and to develop the ability to express oneself in Chinese, both orally and in writing, coherently, resourcefully, and with reasonable fluency and accuracy. There will be strong emphasis on preparing for the AP exam.

Content and Methods: *Materials:* Advanced level textbook; workbook, audio CD; videos; and selected works of Chinese literature. Guided conversations, group discussion and dictations; oral presentations; lectures in Chinese based on readings and Chinese linguistic expression; regular review of grammar and intensive practice in writing and listening comprehension.

Evaluation and Grading: Classroom performance and preparation; composition and other assignments; oral presentation; quizzes, tests, and exams. Students should expect an average of 30 minutes of homework per night. ***Students will be required to complete summer course work before beginning this class.**

4405
AP FRENCH LANGUAGE
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: An average of 90% or above in Honors French 3 or French Composition OR French 3 with teacher approval.

Goals and Objectives: To provide students with authentic resources and opportunities to build their language in a variety of contexts. To adequately

prepare students for the varied tasks required on the AP Exam, involving: interpersonal, interpretive and presentational communication, with continuous emphasis on speaking, reading, writing, and listening. To explore and build cultural comprehension of the six primary themes: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. To express oneself fluidly in the target language in extensive and intensive spoken and written capacities and to make cultural comparisons to Francophone cultures via a variety of exposure and exploration. Lectures and discussions are held exclusively in French.

Content and Methods: *Materials:* Advanced level textbook; dictionary; selected works of French literature, and authentic resources. *Method:* The class will be conducted in French and will include guided conversations; group discussions; oral presentations; lectures; review of grammar as needed, with intensive practice in writing and listening and reading comprehension.

Evaluation and Grading: Classroom practice, homework assignments, emails, telephone conversations, cultural comparisons, persuasive essays, quizzes, and exams. Students should expect an average of 30 minutes of homework per night. ***Students will be required to complete summer course work before beginning this class.**

4410
AP GERMAN LANGUAGE
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: An average of 90% or above in Honors German 3 OR German 3 with teacher approval.

Goals and Objectives: To provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills. To develop the ability to understand spoken German in various contexts; to develop German vocabulary for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary; and to develop the ability to express oneself in German, both orally and in written form, coherently, resourcefully, and with reasonable fluency and accuracy. There will be strong emphasis on culture, the six global themes, and preparing for the AP exam.

Content and Methods: Materials include textbook (print copy & online), workbook, selected literary works, news articles, and internet resources. The class will be conducted in German and will include guided conversations, oral presentations; lectures, including regular review of grammar as needed, with intensive practice in listening and reading comprehension.
Evaluation and Grading: Classroom practice, homework assignments, emails, conversations, cultural comparisons, persuasive essays, quizzes, tests, and quarter exams. Students should expect an average of 30 minutes of homework per night. ***Students will be required to complete summer course work before beginning this class.**

4535
AP SPANISH LANGUAGE
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: An average of 90% or above in Honors Spanish 3 or Spanish Composition and Conversation OR Spanish 3 with teacher approval.

Goals and Objectives: To provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills. To develop the ability to understand spoken Spanish in various contexts; to develop a Spanish vocabulary sufficient for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary; and to develop the ability to express oneself in Spanish, both orally and in written form, coherently, resourcefully, and with reasonable fluency and accuracy. There will be strong emphasis on culture, the six global themes, and preparing for the AP exam.

Content and Methods: *Materials*: textbook (print copy and online), selected literary works, and news articles; internet resources. *Methods:* Guided conversations and dictations; oral presentations; lectures in Spanish based on readings, and Spanish linguistic expression; regular review of grammar and intensive practice in writing and listening comprehension. The class will be conducted almost entirely in Spanish.

Evaluation and Grading: In-class assessments, essays, homework, and quarter exams. Students should

expect an average of 30 minutes of homework per night. ***Students will be required to complete summer course work before beginning this class.**

4620
CCP GREEK 1
Grades 11, 12 / 2 Semesters / 1 Credit
CCP (University of Cincinnati): 3 Credits

Goals and Objectives: This course is aimed at a reading knowledge of ancient Greek to enable the student to read generous portions of Homer's *Odyssey* and some excerpts from Homer's *Iliad* in the original Greek. Students develop the ability to read excerpts from various historians, philosophers, tragedians, comedians, and poets written in Greek. Students make a survey of the many English words which are derived from the Greek language. Students read some portions of the Bible in Greek.

Students who desire to take the course must go through the CCP application process. Students who qualify for the CCP program and pass the course will receive CCP college credit awarded through the University of Cincinnati.

This course is equivalent to an AP level course in terms of St. Xavier high school credit.

Content and Methods: *A Reading Course in Homeric Greek* by Schoder and Horrigan is the text. The first 60 lessons concentrate on declensions, conjugations, vocabulary, and syntax necessary to be able to read the Greek. The second 60 lessons concentrate on the actual reading of the Greek and the explication of the text. Students read the text's presentation of the material and write the required exercises. Class time is spent going over these exercises and clarifying any points that remain vague after the student has thoroughly read the text.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, and homework.

4625
CCP LATIN 4
Grades 11, 12 / 2 Semesters / 1 Credit /
CCP (University of Cincinnati): 3 Credits

Prerequisites: An average of 90% or above in Honors Latin 3 OR Latin 3 with teacher approval.

Goals and Objectives: We'll spend the year with the greatest work of Latin literature, Virgil's *Aeneid*, reading selections from each of its 12 books in Latin and all of it in English. Our discussions will consider the *Aeneid*'s place in the genre of epic poetry (particularly as compared to Homer's *Iliad* and *Odyssey*) as well as its function as a state-sponsored glorification of Rome.

Students who desire to take the course must go through the CCP application process. Students who qualify for the CCP program and pass the course will receive CCP college credit awarded through the University of Cincinnati.

This course is equivalent to an AP level course in terms of St. Xavier high school credit.

Content and Methods: Various levels of translation; analysis of grammar, style, rhythm, and structure; occasional presentation, collaboration, and creative expression.

Evaluation and Grading: Regular translation, quizzes and tests; in-class writings about Virgil's work; presentations; and class leadership/participation. Students should expect an average of 20 minutes of homework per night.

***Students will be required to complete summer course work before beginning this class.**

4871
CHINESE CALLIGRAPHY
Grades 10, 11, 12 / 1 Semester /.50 Credit

Not offered 2026-27 school year.

Prerequisites: There are no prerequisites for this class.

Curriculum: This class will introduce students to Chinese calligraphy, exploring its cultural significance and practical writing techniques. Chinese characters are widely used in East Asian languages, such as Japanese and Korean, making this course relevant for students interested in culture, language, and art.

Skills students will gain: Insight into the historical and modern significance of Chinese characters in East Asian writing systems. Students will also gain an understanding of culture and art while fostering mindfulness.

Goals and Objectives: To understand the origins and evolution of Chinese characters. Students will also learn basic stroke rules and pen/ brush techniques while exploring the history of calligraphic styles. Students will have opportunities for hands-on writing practice.

Content and Methods: *Materials*: Multiple textbooks will be referred to, other visual selections, selected examples, and internet resources. *Methods*: Visual introductions and practice of painting and writing the characters. Cultural and historical presentations.

Evaluation and Grading: Written quizzes, exams at the middle & end of the semester, homework, projects throughout the semester, and some presentations.

4400
FRENCH COMPOSITION
Grades 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Prerequisites: French 3, Honors French 3, or AP French.

Goals and Objectives: To develop insight and appreciation of French film, literature, history, art, social and current events, politics, and geography. To provide students with opportunities to further enhance their proficiencies, cultural perspective, and lingual fluency via an in-depth study of the four primary skills: reading, writing, speaking, and listening. This course may precede the AP course with an emphasis on applicable AP content. Lectures and discussions are held primarily in French.

Content and Methods: *Materials:* Selected works of French literature, culture, and assorted authentic resources. *Methods: g*uided conversation, group discussions, listening activities, oral presentations by the students, lectures in French on readings and culture, appropriate internet materials, and practice in writing varied compositions.

Evaluation and Grading: Classroom performance and preparation; compositions and other assignments; readings; oral presentations; quizzes and exams.

4840
GREEK MYTHOLOGY
Grades 11, 12 / 1 Semester /.50 Credit

Goals and Objectives: To gain a rich appreciation of the breadth and depth of Greek mythology as captured by several masterpieces of ancient literature (read, of course, in English translation). To explore multiple versions and variations of the same myth. To learn about what these works reveal about the (ancient Greek) culture that produced them.

Content and Methods: We'll read our chosen texts (in modern English translations) in approximate chronological order, beginning around the 7th century B.C., with the foundational works of Hesiod and Homer, then moving into the 5th century B.C., for the complex world of Greek tragedy as represented by three giants, Aeschylus, Sophocles, and Euripides. The class will be conducted largely through discussion. Active participation will be as gratifying as it is crucial.

Evaluation and Grading: Regular reading quizzes; **t**ests after each major work; quarter exams. Project (with presentation) focused on a post-classical adaptation of one of the myths discussed.

4820
PORTUGUESE 1
Grades 11, 12 / 2 Semesters / 1 Credit

Goals and Objectives: To develop listening, speaking, reading, and writing skills in Portuguese; to develop an understanding of the basic grammar and syntax of the Portuguese Language; to promote the use of Portuguese in free communication; to promote creativity and fluency in the language; to introduce the students to written and oral expression; to promote cultural appreciation and enjoyment of Portuguese; to use Portuguese beyond the school setting. To have fun!

Content and Methods: *Materials*: selected Brazilian texts, audio and video selections, music, movies, dictations, internet resources. *Methods*: question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises, and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, homework.

4430
SPANISH COMPOSITION AND CONVERSATION
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Spanish 3, Honors Spanish 3, or AP Spanish Language.

Goals and Objectives: To provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills. To develop insight and appreciation of Spanish film,

literature, history, art, social and current events, politics, and geography. To continue to develop the ability to express oneself in Spanish, both orally and in writing, coherently, resourcefully, and with reasonable fluency and accuracy.
Content and Methods: All lectures and discussions are in Spanish. *Materials:* Textbook; selected works of Spanish literature and culture; notebook; dictionary. *Methods:* Guided conversations; group discussions; oral presentations by the students; lectures in Spanish on readings; films; internet resources; regular review of grammar and intensive practice in writing.

Evaluation and Grading: Classroom discussions; papers and other assignments; readings; presentations; tests, quizzes, and exams. Students should expect an average of 20-30 minutes of homework per night.

HEALTH / PHYSICAL EDUCATION COURSE DESCRIPTIONS

HEALTH / PHYSICAL EDUCATION

HEALTH

5239
HEALTH CORE
Grade 10 / 1 Semester /.50 Credit

Note: ***This course is required for all sophomores.***

Goals and Objectives: This course is designed to offer a variety of activities to explore and discuss current health material and concepts. These activities assist the course objective; to develop the students' ability to make healthy life choices utilizing a variety of decision-making techniques and a broad knowledge of personal and general health. An emphasis will be placed on avoiding the formation of addictive and harmful habits while promoting positive and healthy behaviors. The objective of the course is to empower students with information, choice skills and self-confidence in the mode of, but not limited to, the Jesuit discernment model of Experience, Reflection, and Action. Students will apply the course objective to a wide range of social, physical, and emotional health challenges. The student will develop a deeper, personal understanding of health choices and the ramifications those choices have on wellness. Upon completion of the CORE health course the student will:

- Make informed addictive behavior decisions.
- Demonstrate basic knowledge of body systems, anatomy, physiology, and kinesiology.
- Comprehend the adverse effects of drugs, alcohol, and tobacco on society and self.
- Understand the adverse life effects of poor choices.
- Discover practical stress management techniques.

Content and Methods: The following topics may be discussed during the course: Review of general health, sexuality, stress management, addictive behaviors, pornography, gaming, drugs, alcohol, tobacco, wellness, nutrition, mental health, fitness, disease, grief, injury, eating disorders, environmental health, etiquette, STD's, social health, heredity and family health issues, life skills, dating, character building, and self-esteem.

Evaluation and Grading: Students will receive a numerical grade. Grades will be determined using a variety of measures. Including, but not limited to, homework assignments, presentations to the class, quizzes, projects, exams, and online course work.

PHYSICAL EDUCATION

5235
PE CORE 1
Grade 10 / 1 Semester / .25 Credit

Note: ***This course is required for all sophomores.***

Goals and Objectives: This course offers a variety of physical activities which fulfill the course objective; to develop the students' psychological, sociological, and physiological growth. Both individual and team concepts are incorporated daily. An emphasis is placed on cooperation and leadership beyond the individual student and his comfort level. Students will be encouraged to discover expanded levels of physical development, growth, and fitness. The objective of the physical education course is to provide basic skills, knowledge, and activities through a variety of sports. An emphasis is placed on the development and maintenance of physical fitness. Opportunities exist to meet and participate with classmates in a relaxed, structured, social atmosphere. Upon completion of the physical education course the student will be able to:

- Perform correct technique through a variety of athletic activities with an emphasis on safety.
- Demonstrate skills specific to the various units such as: strength, flexibility, balance, accuracy in throwing, speed, hand-eye coordination, general coordination, strokes (swimming), endurance (cardiovascular and muscular), lateral movement, catching, team play, and kicking.
- Demonstrate greater self-confidence while performing different physical activities.
- Complete a routine which contains basic tumbling movements.
- Accept personal physical and athletic strengths, and limitations, in a positive manner as well as those of his classmates.

Content and Methods: The following units may be offered during the CORE course: physical fitness, touch football, speedball, track, volleyball, swimming, team handball, hockey,

water polo, soccer, kickball, wiffleball, basketball, yoga, rowing, tennis, weight training, and tumbling. The CORE class time is divided between explanation, demonstration, and participation.

Evaluation and Grading: Students in the course will receive a pass/fail grade.

5336
PE 2 PERSONAL FITNESS
Grades 11, 12 / 1 Semester / .25 Credit

Note: ***This course is required if the student is not using a sport/marching band/Credit flexibility to meet the PE graduation requirement.***

Prerequisites: Completion of PE CORE 1.

This course is designed to offer a variety of physical activities. These activities assist the course objective; to develop the students' psychological, sociological, and physiological growth. Both individual and team concepts are incorporated daily. An emphasis is placed on cooperation and leadership beyond the individual student and his comfort level. Students will be encouraged to discover expanded levels of physical development and growth.

Goals and Objectives: The objective of the physical education course is to provide advanced skills, knowledge, and activities through a variety of activities. An emphasis is placed on developing and maintaining lifetime personal fitness. Opportunities exist to meet and participate with classmates in a relaxed, structured, social atmosphere. Upon completion of this physical education course the student will be able to:

- Perform safely and with correct technique on all equipment in the fitness center.
- Complete pre and post fitness testing including a one mile (6-15 minute) run.
- Demonstrate skills specific to the various units such as: strength, flexibility, balance, accuracy in throwing, speed, hand-eye coordination, general coordination, strokes and rotary breathing (swimming), endurance (cardiovascular and muscular), lateral movement, catching, and team play.
- Demonstrate self-confidence while performing different physical activities.
- Accept personal physical and athletic strengths, and limitations, in a positive manner as well as those of his classmates.

Content and Methods: The following units may be offered during the course: physical fitness, touch football, speedball, track, volleyball, swimming, team handball, soccer, water polo, rug-ball, kickball, wiffle ball, basketball, yoga, rowing, bowling, tennis, weight training, golf, and tumbling. Some class time may be dedicated to completing a fitness portfolio.

Evaluation and Grading: Students in the course will receive a pass/fail grade.

5338
PE 2 PERSONAL FITNESS (SUMMER)
Grades 10, 11, 12 / 3 weeks / .25 Credit

Note: ***This summer course is an alternative to taking PE 2 Personal Fitness (5336) to meet the PE graduation requirement.***

Prerequisites: Completion of PE CORE 1.

Cost: There will be an additional cost of $400 for this summer session.

The program will follow, as closely as possible, the established Physical Education II curriculum as stated in the current course description. We will explore supplementing the curriculum with activities that may include rock climbing, laser tag, trampoline, swimming, bowling, golf, fishing and other activities off campus.

Goals and Objectives: The objective of the physical education course is to provide advanced skills, knowledge, and activities through a variety of activities. An emphasis is placed on developing and maintaining lifetime personal fitness. Opportunities exist to meet and participate with classmates in a relaxed, structured, social atmosphere. Upon completion of this physical education course the student will be able to:

- Perform safely and with correct technique on all equipment in the fitness center.
- Complete pre and post fitness testing including a one mile (6-15 minute) run.
- Demonstrate skills specific to the various units such as: strength, flexibility, balance, accuracy in throwing, speed, hand-eye coordination, general coordination, strokes and rotary breathing (swimming), endurance (cardiovascular and muscular),

lateral movement, catching, and team play.
- Demonstrate self-confidence while performing different physical activities.
- Accept personal physical and athletic strengths, and limitations, in a positive manner as well as those of his classmates.

Content and Methods: The following units may be offered during the course: physical fitness, touch football, speedball, track, volleyball, swimming, team handball, soccer, water polo, rug-ball, kickball, wiffle ball, basketball, yoga, rowing, bowling, tennis, weight training, golf, and tumbling. Some class time may be dedicated to completing a fitness portfolio.

Evaluation and Grading: Students in the course will receive a pass/fail grade.

5999

PE 2 WAIVER

Grades 10, 11 / Waiver (0 Credit)

Note*: If a student does not complete the PE 2 waiver requirements during their sophomore or junior year, they will be required to take PE 2 Personal Fitness senior year to fulfill graduation requirements.*

Prerequisites (Juniors): Completion of PE CORE 1
Corequisites (Sophomores): Concurrently enrolled in PE CORE 1.

The PE 2 Wavier is offered to Sophomores and Juniors who participate in school-sponsored interscholastic athletics or marching band for at least two seasons during their freshman through junior years. One season must be in the student's sophomore or junior year. The student does not have to participate in the same sport.

Students MUST attend in-season and pre-season practice/workout sessions following the same attendance guidelines as traditional courses.

Goals and Objectives: The objective of the PE 2 waiver is to provide specific skills, knowledge, and activities in a single sport/marching band. An emphasis will be placed on the development and maintenance of physical fitness as a building block for improved performance. Opportunities exist to meet and participate with classmates in a structured, team atmosphere.

Content and Methods: Content of the course is at the sole discretion of the Head Coach/Marching Band Director (in conjunction with the Strength/ Conditioning staff) of the chosen sport/marching band.

Evaluation and Grading: Upon completion, students will receive a waiver for their PE 2 graduation requirement on their transcript and report card. Students must:
- Attend 75% of all-pre-season strength and conditioning activities.
- Attendance in 100% of all in-season practices and contests.

HEALTH / PHYSICAL EDUCATION ELECTIVES

5435

PE 3 ADVANCED PERSONAL FITNESS

Grades 11, 12 / 1 Semester / .25 Credit

Note: ***This elective course is offered to Senior students who wish to participate in traditional physical activities and personal fitness/ lifetime activities.***

Prerequisites: Completion of PE graduation requirements.

Goals and Objectives: The objective of the elective course is to provide/reinforce specific skills, knowledge and activities learned in PE CORE and PE 2. An emphasis will be placed on the development and maintenance of personal physical fitness as a building block for improved performance. Opportunities exist to participate in lifetime fitness activities with classmates and in structured teams.

Content and Methods: Content of the course will mirror the PE CORE and/or the PE 2 curriculum. Content may be modified to include weight training and other sport specific activities. Content is at the sole discretion of the PE instructor, Strength/Conditioning staff, and the Athletic Trainer.

Evaluation and Grading: Students in the course will receive a pass/fail grade. Students are required to attend all class sessions and may be required to complete additional activities as assigned by the PE/Health Department Chair.

5439
HEALTH 2 INTRO TO SPORTS MEDICINE
Grade 12 / 1 Semester / .50 Credit

Note: ***This elective course is offered to senior students who wish to participate in a course which combines elements of personal fitness/ lifetime activities, an introduction to sports medicine professions, basic athletic training methodology and application, and basic human anatomy, kinesiology, and physiology.***

Prerequisites: Completion of PE and Health graduation requirements.

Goals and Objectives:
- Understand the role of the athletic trainer and the entire sports medicine team.
- Basic knowledge of human anatomy.
- Basic understanding of injuries to include tendonitis, muscle strains, ligamentous sprains, contusions, fractures, spine injuries, and the acute care of these injuries.
- Understand the principles of rehabilitation of athletic injuries.
- Recognize sports emergencies such as heat/cold disorders, diabetic conditions, skin disease, nutritional deviations, and contagious pathogens.
- Enhancement of evaluation skills related to sports injury, treatment, and prevention.
- Basic understanding of strength and conditioning principles.
- The student will learn fundamentals of Sports Medicine and Athletic Training and be exposed to a variety of medical professions.
- Students will receive CPR training and the opportunity to receive certification.

Content and Methods: This course introduces the student to the Sports Medicine industry, including but not limited to: Athletic Training, Physical Therapy, Occupational Therapy, Physician's Assistant, and Strength and Conditioning. 3-4 days a week will be spent in the classroom, 1-2 days a week spent in the Athletic Training room/lab/on the field.

Evaluation and Grading: Grades will be based on a variety of assessments. Students are required to attend all class sessions and may be required to complete additional activities outside of the traditional school day (most will be associated with Home sporting activities) as assigned by the Athletic Training Staff, PE/Health Department Staff, and/or Strength Training Staff. Students will receive a numerical grade. Grades will be determined using a variety of measures including, but not limited to, homework assignments, presentations to the class, practical assessments, quizzes, projects, and exams.

RELIGIOUS STUDIES COURSE DESCRIPTIONS

RELIGIOUS STUDIES

6102
HONORS SCRIPTURES
Grade 9 / 2 Semesters /1 Credit

Note: ***Qualified freshmen will be invited to participate in this class.***

Goals and Objectives: The student will study and learn the story of God acting in the lives of the early Judaic and Christian communities through careful reading and interpretation of the Bible following the approach of the Catholic Church. Understanding of the Bible will be aided by modern scholarship to contribute to the student's knowledge of the historical background and literary background of biblical texts. The student will come to understand the Bible as God's self-revelation to us and be invited to integrate Scriptural values into his own life. He will study salvation history from *Genesis* to *Revelation* as a means of encountering the God of history and salvation. Special attention will be given the Gospels witness to Jesus Christ, the Word Made Flesh. The course also includes an introduction to the Jesuits through a close study of the life and ideals of its founder, Ignatius of Loyola.

Content and Methods: The student will read selections from the Bible aided by resources that present the tools for understanding the Sacred Writings. With an appreciation of salvation history and its God, the student will then be invited to integrate the Scriptures at this critical stage of his life. He will be exposed to the Ignatian tradition as an encouragement and challenge to live out the prophetic call to justice of both Testaments. The methodology used in this course is Bible reading and note-taking, lecture, small group work, discussion, prayer, use of media, and field trips.

Evaluation and Grading: Grades will be determined by homework, quizzes, tests, journal/reflective papers, exam, and participation.

6101
SCRIPTURES
Grade 9 / 2 Semesters /1 Credit

Goals and Objectives: The student will study and learn the story of God acting in the lives of the early Judaic and Christian communities through careful reading and interpretation of the Bible following the approach of the Catholic Church. Understanding of the Bible will be aided by modern scholarship to contribute to the student's knowledge of the historical background and literary background of biblical texts. The student will come to understand the Bible as God's self-revelation to us and be invited to integrate Scriptural values into his own life. He will study salvation history from *Genesis* to *Revelation* as a means of encountering the God of history and salvation. Special attention will be given to the Gospel witness to Jesus Christ; the Word Made Flesh. The course also includes an introduction to the Jesuits through a close study of the life and ideals of its founder, Ignatius of Loyola.

Content and Methods: The student will read selections from the Bible, aided by resources that present the tools for understanding the Sacred Writings. With an appreciation of salvation history and its God, the student will then be invited to integrate the Scriptures at this critical stage of his life. He will be exposed to the Ignatian tradition as an encouragement and challenge to live out the prophetic call to justice of both Testaments. The methodology used in this course is Bible reading and note-taking, lecture, small group work, discussion, prayer, use of media, and field trips.

Evaluation and Grading: Grades will be determined by homework, quizzes, tests, journal/reflective papers, exam, and participation.

6201
FAITH AND CHURCH AND SACRAMENTS
Grade 10 / 2 Semesters /1 Credit

Goals and Objectives: The student will reflect on his own life and the life of the Church to better understand God's presence and action. He will be asked to understand the process of growth in faith as necessary for his development toward manhood. At the heart of this study is a deepening understanding of the Paschal Mystery of Jesus Christ. The student will study and be invited to embrace the importance of Christian community (Church), the history of the Catholic Church, Sacraments as graced encounters with God, and his own active discipleship. The student will also have the opportunity to experience prayer in the context of the Ignatian *Spiritual Exercises* as adapted for high school students.

Content and Methods: This course will explore the meaning of faith and the nature of religion at the center of which lies an encounter with the

living God. The student will be encouraged to own his faith, that is, embrace it of his own volition. The student will study the Church and the Sacraments through various readings and activities. The methodology used in this course involves discussion, use of films and follow up analysis, small group work, journaling, and reflective writing. The fourth quarter is given to the experiences of prayer, reflection, and small group discussion.

Evaluation and Grading: The grade for this course will be based upon periodic tests, quizzes, homework, journal writing, exams, and reflective writing. The student's involvement in class will also be considered.

6301
MORALITY AND SOCIAL JUSTICE
Grade 11 / 2 Semesters /1 Credit

Goals and Objectives: This course will attempt to equip students with a systematic approach to solving moral problems and forming conscience. Students will learn to apply this moral analysis to various ethical issues, cases, and problems. They will also learn to recognize various stages of moral growth and development. Finally, they will be introduced to the Christian vision and Church teaching on morality and on specific moral issues.

Content and Methods: Issues examined include lying, stealing, cheating, business ethics, sexual morality, chemical abuse, respect life issues such as abortion, bioethics, capital punishment, poverty, hunger, discrimination (race, age, gender, sexual orientation), war, peace, and ecology. Methods employed include case studies, discussion, lecture, guest speakers, films, role playing, research, and oral presentations.

Evaluation and Grading: Students are evaluated not on the specific conclusion of their moral decision but rather on the process and their demonstrated knowledge in making that decision. Methods of evaluation include tests, quizzes, exams, reflection essays, research papers, oral presentations, and class participation.

6311
MORALITY AND SOCIAL JUSTICE WITH SERVICE
Grade 11 / 2 Semesters /1 Credit

Goals and Objectives: This course will attempt to equip students with a systematic approach to solving moral problems and forming conscience, while being involved in an on-site community service program. Students will learn to apply this moral analysis to various ethical issues, cases, and problems, including aspects of their service assignment. They will also learn to recognize various stages of moral growth and development. Finally, they will be introduced to the Christian vision and Church teaching on morality and on specific moral issues.

Content and Methods: Issues examined include lying, stealing, cheating, business ethics, sexual morality, chemical abuse, respect life issues such as abortion, bio-ethics, capital punishment, poverty, hunger, discrimination (race, age, gender, sexual orientation), war, peace, and ecology. Methods employed include case studies, discussion, lecture, guest speakers, films, role playing, research and oral presentations, and the context of their service placements.

Evaluation and Grading: Grades will be based on quizzes, tests, reflection essays, position papers, projects, exams, and classroom performance.

SENIOR RELIGION CLASSES

Seniors take 2 semester-long classes to meet graduation requirements. Juniors can request selected courses to be taken in Semester 2. *These can also be requested as electives. Electives and Junior requests will be filled pending availability.

6455
BIOETHICS
Grade 12 / 1 Semester /.50 Credit

Goals and Objectives: To examine complex moral and ethical issues that are influenced by developments in biotechnology and science.

Content and Methods: Taught by science and religion instructors; topics selected by mutual agreement of students and instructors will be studied in the light of biological, moral, and social principles. Prioritized topics include: euthanasia, genetic engineering, recombinant DNA technology, imperiled newborns, evolution, medical care, and many others.

Evaluation and Grading: Grading will be based on a combination of position essays, written tests, and student presentations.

RELIGIOUS STUDIES COURSE DESCRIPTIONS

6457
FAITH IN THE WILD
Grade 12 / 1 Semesters /.50 Credit

Goals and Objectives: Students will be invited to name their relationship with nature and explore ways in which their lifestyles, health, faith and action intersect within this relationship. Students will be challenged to foster a deeper relationship with the whole of creation. Students will examine their call to be stewards of creation and explore ways in which their unique gifts and talents may be utilized in caring for our common home. Students will learn different spiritual practices that will help foster a deeper sense of connection to nature and engender a love that compels them to use their voice, hands, and hearts to call others to a greater awareness of the cry of the earth.

Contents and Methods: This course will regularly utilize the outdoor classroom and other natural settings (weather permitting). Students will engage in regular journaling, sketching, prayer and meditation in outdoor spaces. We will also venture forth to various outdoor locations such as Spring Grove Cemetery, Imago, Tikkun Farm, Caldwell Preserve, the Cincinnati Zoo and Botanical Garden, and several others. Students will engage in a study of Pope Francis' 2016 encyclical *Laudato Si: On Care for Our Common Home*, as well as multiple other sources (including written and film) that will invite them into a deeper understanding of environmental spirituality and the role of "the wild" in both our own faith tradition and countless others.

Evaluation and Grading: Students will be evaluated based on reflective writing (in the form of a course-long journal), short quizzes, homework assignments, as well as brief research projects. Participation in class discussion will also be considered.

6458
EVIL, GENOCIDE, AND THE HOLOCAUST
Grade 12 / 1 Semester /.50 Credit

Goals and Objectives: This course explores the concept of evil in the Christian tradition utilizing genocide and the Holocaust as examples of evil. Students will gain a greater appreciation for Jewish-Christian relations and the Jewish culture and religion. The course will empower students to stand up against hatred and bigotry of all people and help students explore ways to be a voice of hope in society.

Content and Methods: Students begin by reviewing the Hebrew Scriptures, New Testament, and early church teachings on evil. Then, students learn the genocide model, which is applied to a close study of antisemitism and the rise of Nazism. The remainder of the course is dedicated to the horrors of the face-to-face murder in the countryside to the mechanized slaughter of the death camps. The course content will include historical images and recordings from the World War II era, as well as insight from contemporary German and Polish society.

<u>Disclaimer:</u> Students will need to be prepared to discuss violent and unsettling content as part of the course curriculum.

Evaluation and Grading: Grading will be based on a combination of quizzes, tests, reflections, and participation.

6401
GOSPEL ACCORDING TO POP CULTURE
Grade 12 / 1 Semester /.50 Credit

Goals and Objectives: What do Peanuts, Dr. Seuss, Walt Disney, Lord of the Rings, and the Simpsons have to do with the Gospel – the Good News of Jesus Christ? The person and presence of Jesus are not found only in "holy" things, but in things "profane" as well. In fact, in the Catholic Christian tradition there is no real divide between the sacred and the secular. Why? Because we can (and do) discover God in all things (a classic theme of Jesuit spirituality!). We will search for this understanding through a "critical engagement" with respect of our culture. We will attempt to discern where culture is expressive of Gospel values and where it is not. We will enhance our ability to evaluate and be critical of our culture by becoming more media literate. Finally, we will seriously ask ourselves just what changes our learning should demand on our own lives and our use of and involvement in our culture.

Content and Methods: The class will have a diversified format: a combination of lecture, class discussion, small group discussion, student presentations, guest speakers, and films. The student will be called upon for critical summaries of "texts" read, watched, and observed. A high

level of reflection and discussion is expected, along with careful class preparation.

Evaluation and Grading: Grades will be assigned according to a numerical combination of tests, quizzes, essays, presentations, and class participation.

6453
IGNATIAN THEMES IN FILM

Grade 12 / 1 Semester /.50 Credit

Goals and Objectives: Pursuing the Jesuit insight that God can be found in all things, this course will reflect upon the themes found in modern film to learn more about God, others, and self. Students will navigate and critically analyze the ongoing dialogue between faith and culture as expressed through the medium of film. Using the framework of the Spiritual Exercises of St. Ignatius, students will apply its 4 "weeks" or "themes" in film and in their own lives.

Content and Methods: Students will view a plethora of films selected for their connection to the themes of the Spiritual Exercises of Ignatius and accessibility to students' lives. Students will also be invited to connect the insights gained from these films, and themes to their lives and relationships, through creative and written assignments, class discussions, group projects, and prayer experiences.

Evaluation and Grading: Types of assignments include reflection questions and papers, prayer experiences, community building exercises, group projects, film research, preparation, and analysis**.** Exams are non-traditional in format and can be reflection papers, group projects, or summative papers.

6402
MEDITATION

Grade 12 / 1 Semester /.50 Credit

Goals and Objectives: Too often we skim over the surface of our lives, and we do not explore the depths. This course seeks to balance an understanding of meditative practices with an exploration of personal daily experience. Each person experiences a longing that draws us forward in life, calling us to reach beyond ourselves and realize the depth of experience encountered in our daily lives. The course will help students to find deeper meaning in their lives, as opposed to chasing temporary, mediocre satisfaction. A key aspect of the course involves helping students to learn and discover the various paths to meaning. We will use a variety of prayer practices, including those drawn from the Spiritual Exercises of Ignatius Loyola.

Content and Methods: The course will include group meditation and reflection and opportunities for exploring and discussing the various forms of meditation. The course seeks a balance between the practice of mediation and meaningful classroom discussion. We will give special attention to the concepts of being present to the moment, mindfulness, ego, breathing, and developing a deep awareness of one's own inner consciousness.

Evaluation and Grading: Grades will be based on reflection papers, class participation, and reading quizzes.

6451
QUESTION OF GOD

Grade 12 / 1 Semester /.50 Credit

Goals and Objectives: The goal of this class is to invite students to reflect upon, articulate, and discuss their essential questions about God, human beings, and the world. By the end of the course students are asked to articulate their current theological perspective.

Content and Methods: This is a seminar style class, in which class discussions are primarily based upon student questions. Commonly discussed topics include: images of God, experiences of suffering, faith development, perspective, the search for truth, religious traditions, the role of religion, eschatology, Christology, prayer, and the human condition. In order to deepen our investigation of these topics the class will utilize a number of different sources, including the following: readings from notable philosophers such as Plato and Descartes, the writings of influential theologians like Aquinas and Rahner, Scripture passages, and appropriate films and documentaries.

Evaluation and Grading: Grades will be based on essays, presentations, and tests.

6452
RELATIONSHIPS

Grade 12 / 1 Semester /.50 Credit

Goal and Objectives: A healthy experience of self, meaningful relationships with others, and a strong connection with God are all at the heart of the Relationships class. We will examine what distinguishes healthy experiences from unhealthy

ones. Through compelling stories and thought-provoking discussions, we'll explore these topics in ways that resonate with students' lives and today's culture.

Content and Methods: Through the use of lecture, peer presentations, discussions, journals, speakers, prayer, and group activities, the students will be challenged to examine their relationships with themselves, God, their families, and friends. They will consider the implications that their responses will have on their future lifestyles.

Evaluation and Grading: The student will be evaluated on classroom participation, journal use, text reading, projects, and reflective tests.

6403
RESPONDING TO VIOLENCE

Grade 12 / 1 Semester /.50 Credit

Goals and Objectives: How do we fight the monster without becoming the monster? How do we combat evil without becoming evil? How do we fight inhumanity without losing our own humanity? Is violence ever the answer? These are the questions at the heart of the Responding to Violence class. The key question in play for Responding to Violence class is: What defines you? This applies on an individual level, as well as on small and large group levels. We will discuss the drives that motivate us and the external influences that impact us. Responding to Violence class acknowledges that conflict, internal and external, is a reality of our journey. So... How do we respond?

Content and Methods: The course will be a rich combination of experiential and interactive activities along with lecture, discussion, reflection, film, individual and group projects. A wide variety of resources will be used. Responding to Violence class will apply course concepts in theory, in story/film, in historical and current events, and then ultimately in our own lives.

Evaluation and Grading: Grades will be drawn from assessments geared towards student's ability to convey an understanding of our study and discussion on the topic.

6456
WALKING THE WAY: THE CAMINO DE SANTIAGO

Grades 11, 12 / 1 Semester / .50 Credit

Note*: This course can be taken for Religion credit OR for PE 2 credit. If you would like to use this course for PE 2 credit, please let Fr. Millbourn know when you meet with him and he will provide you with the Credit Flexibility information.*

This course is offered for juniors and seniors. The primary date for pilgrimage is 10 days over Easter break (March 25 – April 3 2027); with sufficient interest, a fall semester course will be offered with pilgrimage following quarter exams (October 9-18 2026).

Prior to registering, all interested students MUST meet with Fr. Millbourn to discuss the expectations of the class and to **receive a signature**. After the signature is received, the student may register for the class with his counselor and then enter his request into PowerSchool.

Prerequisites: The travel component of this class necessitates a fee of approximately $3500. The initial $500 deposit will be collected when the student's schedule request is finalized. Families that qualify for financial aid may request assistance with the pilgrimage fee.

Goals and Objectives: This course seeks to facilitate an experience of faith and God during pilgrimage on the Camino and an intellectual exploration of it. Students will explore the development and expression of faith in the art, history, and culture of the Camino. Each student will have the opportunity to reflect upon his own personal and spiritual journey as well as research particular aspects of the Camino.

Content and Methods: The principal activity of this course is the walking-pilgrimage of the final 115 kilometers of the Camino de Santiago in Spain. Utilizing a seminar style approach of instruction, the course will consist of three phases: preparation, pilgrimage, and reflection.

Evaluation and Grading: Each student must complete the actual pilgrimage with the class to receive credit in this class. The student will be evaluated on a class presentation, a journal, participation in discussion, and a final presentation.

6454
WORLD RELIGIONS

Grade 12 / 1 Semester /.50 Credit

Goals and Objectives: This course is designed to familiarize students with the non-Christian religions of the world. One of the hallmarks of Jesuit

education is "to be open to growth". This course will strive to ensure that the students become more knowledgeable about the nature of religion and the answers offered by the world's major traditions. Throughout the course, there will be an emphasis on encounter and dialogue with various faith communities here in Cincinnati, including field trips and immersion experiences. The course will also look at the influences of religion in political and cultural concerns and vice versa. Finally, it will enable the students to see the essential similarities and differences between all religious traditions.

Content and Methods: The course will start with a comparative study of religion. Then we will examine the principles, practices, and teachings of the major traditions including indigenous traditions. The material will be presented through lecture, videos, guest speakers, field trips and student led discussions and presentations. Course culminates in a final project involving immersion into different worship services of non-Christian communities in Cincinnati.

Evaluation and Grading: Grades will be based on seminar discussions, homework assignments, research work, quizzes, tests, classroom performance and final paper.

SCIENCE COURSE DESCRIPTIONS

SCIENCE

7102
HONORS BIOLOGY
Grade 9 / 2 Semesters /1 Credit

Note: ***The Honors Biology course will cover topics in more depth with greater concentration on the molecular aspects of biology as the students proceed through the course material described below. Placement into Honors Biology is based on HSPT scores.***

Goals and Objectives: Students will begin to develop the skills of scientific inquiry and problem solving. They will develop general biological laboratory skills including application of the scientific method and the use of basic biological laboratory equipment. Students will also develop basic science skills to analyze text, data, and graphs. At the conclusion of the year the student should be able to explain life processes on a molecular, cellular, and systematic level as well as recognize the unity and diversity of living organisms.

Content and Methods: The course will cover a range of topics including scientific method, ecology, basic chemistry and biochemistry, structures and functions of cells, cellular reproduction, heredity, natural selection, and evolution. There are many laboratory activities, demonstrations, small group and class discussions, use of charts, models, videos, and laboratory specimens.

Evaluation and Grading: Grading is based on class preparation, homework, laboratory reports, unit tests, projects, and quarter exams. Students should expect, on average, 30 minutes of homework per weekday night.

7101 or 7100*
BIOLOGY
Grade 9 / 2 Semesters / 1 Credit

Note: ***Students will be registered for Biology (7100) by the Science department in consultation with the AP for Academics, school counselors, and intervention specialists. This course will cover the same material as Biology (7101). However, the pace and depth of coverage will be adjusted to allow more time to explore scientific concepts and to develop strong study skills.***

Goals and Objectives: Students will begin to develop the skills of scientific inquiry and problem solving. They will develop general biological laboratory skills including application of the scientific method and the use of basic biological laboratory equipment. Students will also develop basic science skills to analyze text, data, and graphs. At the conclusion of the year the student should be able to explain life processes on a molecular, cellular, and systematic level as well as recognize the unity and diversity of living organisms.

Content and Methods: The course will cover a range of topics including scientific method, ecology, basic chemistry and biochemistry, structures and functions of cells, cellular reproduction, heredity, natural selection, and evolution. There are many laboratory activities, demonstrations, small group and class discussions, use of charts, models, videos, and laboratory specimens.

Evaluation and Grading: Grading is based on class preparation, homework, laboratory reports, unit tests, projects, and quarter exams. Students should expect, on average, 30 minutes of homework per weekday night.

7202
HONORS CHEMISTRY
Grade 10 / 2 Semesters / 1 Credit

Note: ***In general, placement in Honors Chemistry is based on the Biology and Math prerequisites listed below. Students with grades below the normal standards and prerequisites will require the permission of the instructor.***

Prerequisites: 85% or higher in Biology and
1. Any student who took Honors Alg. II (2110) freshman year.
2. Any student who took Advanced Alg. II (2121) freshman year and earned a 90% or above.
3. Any student who took Advanced Algebra I (2130) freshman year and has been identified to move up a level for sophomore year.

Goals and Objectives: To provide students with a study of matter and its physical, chemical, and energy changes and to enable students to conduct scientific investigations using various laboratory techniques. The study of chemistry is a vehicle to help the student develop higher order thinking and logical skills. Honors Chemistry demands greater math proficiency because less time is spent reviewing math related concepts than in the regular Chemistry course and

the course will delve more deeply into abstract mathematical constructs that normal chemistry passes over. This allows for a wider and richer range of topics to be covered during the year.

Content and Methods: Topics to be studied include measurement, atomic & molecular structure, nuclear structure & reactions, electronic structure & quantum mechanics, chemical bonding, chemical reactions & reaction quantities, states of matter & gas laws, thermochemistry, acids and bases, equilibrium systems, kinetics, and redox reactions. Chemistry course methods include scientific reading, small and large group discussions/work, problem solving, lecture, Socratic drill, and laboratory investigations. Typical homework assignments consist of about 30 minutes per night (based on five nights of homework per week even when the class meets fewer times.)

Evaluation and Grading: Evaluation is based on homework assignments, laboratory reports, tests, quizzes, and final quarter exams. Students should expect, on average, 30 minutes per weeknight of homework as noted above.

7201 or 7200*
CHEMISTRY

Grade 10 / 2 Semesters / 1 Credit

Note: ***Most students taking non honors Chemistry will be placed in the 7201 course. Placement in 7200 will be determined by the Assistant Principal for Academics in consultation with the student's counselor and the teachers of freshmen. The 7200 course will cover the same material as Chemistry 7201. However, the pace and depth of coverage will be adjusted to accommodate for differences in mathematical skill development.***

Goals and Objectives: To provide students with a study of matter and its physical, chemical, and energy changes and to enable students to conduct scientific investigations using various laboratory techniques.

Content and Methods: Topics to be studied include measurement, atomic & molecular structure, nuclear structure & reactions, electronic structure, chemical bonding, chemical reactions & reaction quantities, states of matter & gas laws, thermochemistry, acid/base chemistry, and equilibrium systems. Chemistry course methods include scientific reading, small and large group discussions, problem solving, lecture, and laboratory investigations. Students are expected to spend 30 minutes on homework for each regular class day and 60 minutes for each XY-day.

Evaluation and Grading: Evaluation is based on homework assignments, laboratory reports, tests, quizzes, and final quarter exams. Students should expect, on average, 30 minutes per weeknight of homework and 60 minutes for each X-Y Day.

7302
AP PHYSICS I

Grades 11, 12 / 2 Semesters / 1 Credit

Note: ***This course is a prerequisite for those wishing to take AP Physics C.***

Prerequisites: Algebra II (or equivalent) with an average of 90% or better. If these requirements are not met, the student will need the permission of the AP Physics I instructor.

Corequisites: Honors Precalculus AB (2320) or Honors Precalculus BC (2310). If a student is not enrolled in or has not previously completed one of these courses, he will need the permission of the AP Physics I instructor.

Goals and Objectives: To introduce the able and interested student to an in-depth study of a wide range of topics typically covered in the first semester of a year-long, algebra-based, college physics course. To familiarize students with principles of object motion and rotation, fluid dynamics, forces, momentum, and energy; to show the value of experimentation and mathematics in the development of laws and theories in physics; to teach the skill of scientific thinking in the area of physics; to present the historical development of physics. The **strong** mathematical emphasis of this course prepares students for careers in engineering, science, computer programming, or medicine.

Content and Methods: The topics in this course, listed above, will be covered in greater depth than in a typical high-school physics course. The mathematics used will be based on skills covered in the student's Algebra courses and the student is expected to be comfortable in performing mathematical manipulations. An algebra-trigonometry based, first-year college textbook will be used in the course and students will be expected to produce work of high quality. Laboratory reports, lectures and

discussions, in-class activities, quarter projects, problem-solving sessions, videos, web sites, and demonstrations will be used for instruction.

Evaluation and Grading: Grading is based on laboratory work and reports, tests and quizzes, independent project work, homework/problem-solving, and quarter examinations. Students should expect, on average, 30-40 minutes of homework per weekday night.

7301
HONORS PHYSICS
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Biology and Chemistry

Corequisites: Geometry (2226 or 2223), Precalculus (2325), Honors Precalculus AB (2320), Honors Precalculus BC (2310), Introduction to Calculus (2440), or Honors Calculus (2430). If a student is not enrolled in one of these courses, he will need the permission of the Honors Physics 7301 instructor.

Goals and Objectives: To introduce the interested student to the range of topics typically covered in a traditional first-year high school course. To familiarize students with principles of mechanics, thermodynamics, electricity and magnetism, waves and optics, and modern physics; to show the value of experimentation and mathematics in the development of laws and theories in physics; to teach the basic skills of problem-solving and scientific thinking in the area of physics; to present the historical development of physics. The conceptual and mathematical emphasis of this course will prepare students to be scientifically literate citizens able to pursue careers in the liberal arts and business.

Content and Methods: The areas above will be covered at a level that is appropriate for a high-school, college-preparatory physics course. Instruction will emphasize real-world applications of the material being learned. Laboratory reports, in-class activities, quarter projects, lectures and discussions, problem-solving sessions, videos, web sites, and demonstrations will be used for instruction.

Evaluation and Grading: Grading is based on problem-solving assignments (homework & class work), laboratory work and reports, tests and quizzes, independent project work, and quarter examinations. Students should expect, on average, 30 minutes of homework per weekday night.

7300
PHYSICS
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Biology and Chemistry

Goals and Objectives: To introduce the interested student to the range of topics typically covered in a traditional first-year high school course. To familiarize students with principles of science, mechanics, conservation laws, electricity and magnetism, and modern physics; to show the value of experimentation and mathematics in the development of laws and theories in physics; to teach the basic skills of problem-solving and scientific thinking in the area of physics; to present the historical development of physics. The conceptual emphasis of this course will prepare students to be scientifically literate citizens able to pursue careers in the liberal arts and business.

Content and Methods: The areas above will be covered at an introductory level that is appropriate for a high-school, college-preparatory physics course. Instruction will emphasize real-world applications of the material being learned. Laboratory reports, quarter projects, lectures and discussions, problem-solving sessions, videos, web sites, and demonstrations will be used for instruction.

Evaluation and Grading: Grading is based on problem-solving assignments (homework & class work), laboratory work and reports, tests and quizzes, independent project work, and quarter examinations. Students should expect up to 30 minutes of homework per night.

SCIENCE LAB ELECTIVES

Lab Electives take up two class bells in the schedule. However, the second bell only meets once every AGEC rotation with the student having that bell free the other two days it occurs in the cycle. Due to this, if a student receives a lab elective, he will not be able to take additional free bells as electives.

7103
AP BIOLOGY
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: 90% in Biology, 88% in Honors Biology, 90% in Chemistry, 88% in Honors Chemistry, 90% in English 2 or English 3 (whichever is

most recent), 88% in Honors English 2 or Honors English 3 (whichever is most recent).

Corequisites for Juniors: Honors Precalculus AB (2320), Honors Precalculus BC (2310), Advanced Precalculus (2325), CCP Precalculus (2442)

Co/Prerequisites for Seniors: AP Calculus BC (2710), AP Calculus AB (2720), Honors Calculus (2430)
**If these requirements are not met, the student will need to pass a placement test administered by the AP Biology teacher two weeks before schedules are due to gain permission to take the class.

Goals and Objectives: To study material appropriate for a first-year college biology course; to provide laboratory experiences that will broaden the understanding of basic biological concepts; to prepare students to take the Advanced Placement Biology Exam.

Content and Methods: The aim of the Advanced Placement Biology course is to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Primary emphasis is on understanding concepts rather than on simply memorizing terms and technical details. These concepts are developed through eight major themes which include: science as process, evolution, energy transfer, continuity and change, relationship of structure to function, regulation, interdependence in nature, science, technology, and society. Methods employed to relate concepts are primarily laboratory experiences and demonstrations, videos, lectures, discussions, analysis of graphs, and interpretation of models.

Evaluation and Grading: Evaluation will be based on nightly video lectures, laboratory quizzes, unit quizzes/tests, and quarter exams. Estimated homework time for the course ranges from 30-60 minutes per night. The College Board AP Biology Exam may be taken at the end of the course for possible college credit.

7203
AP CHEMISTRY
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: 90% average or above in Honors Chemistry (7202), or 93% average or above average in Chemistry (7201). If these requirements are not met, the student will need the permission of the AP Chemistry instructor.

Goals and Objectives: To study the material appropriate for a first-year college chemistry course; to provide laboratory experiences that will broaden the understanding of basic chemical concepts; to prepare students to take the Advanced Placement Chemistry Exam.

Content and Methods: The content of AP Chemistry is the normal subject matter for a first-year college chemistry course for science majors. The topics studied in the first-year Chemistry course are expanded and developed in depth. Additional topics such as kinetics, equilibrium chemistry, acid-base chemistry, and electrochemistry are included. The laboratories involve more developed skills and precision as well as a deeper understanding of the chemical principles involved. The equipment used includes analytical balances, spectrophotometers, and pH meters. The instructional methods include whole-class discussions, laboratories, problem-solving sessions, online-videos, and demonstrations.

Evaluation and Grading: Evaluation is based on homework assignments, laboratory reports, online written reflections, quizzes, as well as midterm and final quarter exams. Students should expect, on average, 45 minutes per weeknight of homework. A summer assignment will need to be completed prior to the start of the school year.

SCIENCE ELECTIVES

7401
ANATOMY
Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Biology and Chemistry. Chemistry may be a co-requisite.

Goals and Objectives: To supplement and enrich knowledge gained during first-year biology; to develop laboratory skills in the use of selected laboratory equipment and animal dissection; to acquaint students with cellular and gross human anatomy; to aid students who intend to pursue a biology or health-centered college program of study.

Content and Methods: A study of the structure of the human body; specific areas to be explored include the cellular and tissue levels, and gross structure of the muscular, skeletal, nervous, endocrine, digestive, and

circulatory systems. Extensive laboratory experiences will include the complete dissection of the cat and human tissue study.

Evaluation and Grading: Grading is based on written, oral and practical tests, and quarter exams. Students should expect 20-30 minutes of homework per night (on average).

7402
PHYSIOLOGY
Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Sophomores need to have earned a 90% or better in Honors Biology (7102); Juniors and Seniors need to have passed Chemistry. If these requirements are not met, the student will need the permission of the Physiology instructor.

Goals and Objectives: To supplement and enrich knowledge gained during first-year biology; to develop a conceptual and factual understanding of the interrelationship of the systems of the human body; to study selected diseases associated with human systems; to aid students who intend to pursue a biology or health centered college program.

Content and Methods: A study of the normal homeostatic function of selected body systems will be examined. Interactive lectures and class discussions will be used. Selected laboratory experiments/demonstrations will be used to demonstrate the normal function of body systems, and case studies will be used to examine the pathophysiology of those systems.

Evaluation and Grading: Grading will be based on completion of homework assignments, reading quizzes, objective and subjective tests, and quarter exams. In addition, students will work individually and in groups to solve case studies of various pathological conditions. Students should expect, on average, 30 minutes of homework per weeknight.

7408
AP ENVIRONMENTAL SCIENCE
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Biology (85% or above) and Chemistry (85% or above). If these prerequisites are not met, the student will require the permission of the instructor.

Goals and Objectives: The AP Environmental Science Course (APES) is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. The church's teachings challenge us to examine these risks with a sense of urgency to challenge and protect our planet. Students will learn how their talents and involvement are critically important to help society reexamine the damage to the environment and to create a sustainable and integral development.

Content and Methods: The AP Environmental Science Course is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

Evaluation and Grading: Grading is based on laboratory work and reports, tests and quizzes, small group work projects, homework/problem-solving, and quarter examinations. Students should expect, on average, 30-40 minutes of homework per weekday night. Advanced Placement score will be determined by the student's performance on the AP examination.

7303
AP PHYSICS C
Grade 12 / 2 Semesters / 1 Credit

Note: ***AP Physics C is intended for exceptionally able mathematics and science students who are dedicated to <u>one hour of AP Physics C work per night</u>. This course is for the highly motivated student who desires an in-depth study of physics in preparation for taking physics at the university level.***

Prerequisites: Students must have a yearly average of 90% or above in AP Physics I; other students need approval of counselor and AP Physics C instructor.

Corequisites: AP Calculus BC or AP Calculus AB.

Goals and Objectives: To introduce the <u>most highly motivated student</u> to the calculus-based study of electromagnetism with a review of mechanics in preparation for the AP Physics C: Mechanics Exam and AP Physics C: Electricity and Magnetism Exam and to the study of physics at the introductory, university level.

SCIENCE COURSE DESCRIPTIONS

Content and Methods: This course introduces the student to an in-depth, calculus-based study of the areas of electromagnetism with a review of mechanics. The class will present material at a collegiate level and pace. The student is expected to produce work of this level as well. Classroom activities include lecture, laboratory, class discussion, written assignments, tests, and examinations.
Evaluation and Grading: The grade will be based on the quality of classroom participation, laboratory work and reports, tests, and quarter examinations; work outside of class will usually average under one hour per class session. Advanced Placement grade will be determined by the AP Physics C Examinations. A summer assignment will be assigned prior to the beginning of the school-year.

7455
BIOETHICS
Grade 12 / 1 Semester / .50 Credit

Prerequisites: Biology

Goals and Objectives: To examine complex moral and ethical issues that are influenced by developments in biotechnology and science.

Content and Methods: Taught by science and religion instructors; topics selected by mutual agreement of students and instructors will be studied in the light of biological, moral, and social principles. Prioritized topics include euthanasia, genetic engineering, recombinant DNA technology, imperiled newborns, evolution, medical care, and many others. Students will receive a half credit in Science upon successful completion of this course.

Evaluation and Grading: Grading will be based on a combination of position essays, written tests, and student presentations. Students should expect, on average, 20-30 minutes of homework per weeknight.

7404
ENGINEERING FOUNDATIONS
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Algebra I (80% or above) and Algebra II (80% or above)

Prerequisites/Corequisites: Physics, AP Physics I, or AP Physics C, and Geometry or Precalculus

Goals and Objectives: To introduce the field of Engineering through a group-based hands-on approach to the engineering design processes. Students will utilize math, science, and cutting-edge technology to solve engineering problems. The course is primarily group-project based and requires equal participation by all students. Engineering is done in groups and functioning well as a group requires unique skills; therefore, the students will receive training in Emotional Intelligence skills that promote effective work in a group setting. Through training in research, the design process, software tools, computer-controlled tools, and other power tools, the students will be exposed to concepts that are common to various fields of engineering. The course also emphasizes the oral and written communication skills necessary to be a successful engineer. Students will develop their engineering knowledge and abilities by implementing the engineering design process to define and solve real-world problems.

Content and Methods: Classroom discussion, guest speakers, notes, group work, and multiple design projects that produce physical projects.

Evaluation and Grading: Teacher assessment of team projects, writing assignments, self-reflection, peer evaluations, and quizzes. Average daily homework load is 20 minutes per night.

7407
ENVIRONMENTAL SCIENCE
Grades 10, 11, 12 / 1 semester/ .50 credit

Prerequisites: Biology

Goals and Objectives: To provide an interdisciplinary approach to environmental issues. To understand the functioning of the Earth's environment including both the living (ecological) and non-living (geological and meteorological cycles of the earth) environments of the world. To identify and analyze both human-made and natural environmental problems and to evaluate the risks associated with these problems.

Content and Methods: This course will cover topics including biomes, ecosystems, food chains, the interactions between and among organisms and their environment, evolution/speciation, natural resource management, conservation, population growth, climate change, ozone depletion, deforestation, biodiversity loss, and a study of the history of resource use and conservation along with major environmental laws and policies. This

course includes laboratory activities, demonstrations, lectures and discussions, use of charts, models, videos, and fieldwork.

Evaluation and Grading: Grading is based on class participation, laboratory reports, chapter tests, laboratory and field experiences, and quarter exams. Students can expect to have 20-30 minutes of homework per night.

7413
FORENSIC SCIENCE
Grades 11, 12 / 1 semester/ .50 credit

Prerequisites: Biology (83% or above) and Chemistry (83% or above). If these requirements are not met, the student should seek permission from the Forensic Science instructor.

Goals and Objectives: To enrich and apply knowledge gained through introductory science courses; to develop a conceptual understanding of terminology related to forensic investigations; to provide laboratory experience beneficial to a student entering biology or other science; to examine real cases and apply knowledge and understanding to historical events; to develop skills - including observation, teamwork, problem solving, written and oral communication, and mathematical analysis - that can benefit a student entering a variety of careers.

Content and Methods: Forensic science is the application of scientific knowledge and principles of biology, chemistry, and physics to human events. Modern forensics has applications in fields such as law enforcement, anthropology, medicine, psychology, and computer science. This course aims to introduce students to a brief history of forensics with investigations of fingerprinting, fiber analysis, ballistics, toxicology, blood, DNA, and documents and impressions. Students will learn through a mixture of readings, videos, lectures, and laboratory activities to develop skills across multiple areas. Additionally, students will be expected to apply knowledge to case studies, develop deductive reasoning skills, and provide written and oral presentations.

Evaluation and Grading: Grading is based on class participation, laboratory activities and written reports, unit quizzes, oral case study presentations, and summative experiences. Students will be evaluated on knowledge of terminology, applications of techniques, and use of reasoning and analysis. The average homework load is approximately 30 minutes per night.

7412
HONORS ANATOMY CADAVER DISSECTION
Grades 11, 12 / 1 semester/ .50 credit

Prerequisites: Anatomy (7401) completion with a grade of 90% or above.

Goals and Objectives: To provide students with a comprehensive opportunity to understand human gross anatomy through direct observation, dissection, and examination of cadaver specimens.

Content and Methods: This course is designed for students who wish to pursue a career in the health sciences and will be taught at the Cincinnati College of Mortuary Science, adjacent to our south campus. The course includes lectures and cadaver dissection that detail the muscular, skeletal, cardiovascular, respiratory, nervous, and urinary systems. In addition, students will integrate anatomical knowledge with human movement and functional pathologies. Students will also develop manual dexterity and precision by working collaboratively as a dissection team.

Evaluation and Grading: Students are expected to apply ethical principles and demonstrate professional behavior in the handling of human cadaver specimens. Grading is based on homework, quizzes, and tests with an emphasis on practical assessments. Students can expect to have 20-30 minutes of homework per night.

7411
MARINE SCIENCE
Grades 9-11 / Summer 2028 / .50 Credit

This course will next be offered in the 2027-2028 school year, but registration will begin during the 2026-2027 school year. This course takes place on the Big Island of Hawaii (Summer 2028). Students stay at the Hawaii Preparatory Academy on the Big Island during the summer of even numbered years. The estimated cost for the 17-day course (includes room and board, materials, field trips & excursions, tuition, and all airfare) is ~ $6,500, but is subject to change. Acceptance into this course is based on approval from current science teacher(s), counselors, and assistant principals. Students who have already graduated may not enroll in this course. There will be an organizational meeting in January 2027. Please contact Mrs. Heather

Nardini at hnardini@stxavier.org with any questions.

Goals and Objectives: To provide students with an interdisciplinary science elective that focuses on the ocean ecosystem and its inhabitants. Additional course content will include exposure to Hawaiian culture and customs through field trips and guest speakers.

Content and Methods: The course uses lecture, field trips, projects, and inquiry laboratories to explore the marine world. The course includes the study of physical oceanography and a detailed survey of the characteristics and ecology of the major taxonomic groups of marine organisms. Specific topics covered will be: dangerous marine organisms, waves/beaches, invertebrate phyla, chemical/physical oceanography, tide pool ecology, coral reef ecology, tides/tsunamis, geology of the Hawaiian Islands, marine birds/mammals, maricultures, estuarine/coastal marsh communities, and fish classifications/anatomy, and physiology.

Evaluation and Grading: Throughout the course, students will be required to keep a portfolio of lecture notes, laboratory observations, and laboratory reports. Laboratory and classroom participation are mandatory. Detailed laboratory reports will be submitted as graded assignments. A final exam will be administered at the completion of the course. Students who successfully complete all requirements earn .50 credit hour for their 80+ hours of course work, field work, and lab work.

7604
CCP ENGINEERING FOUNDATIONS

Grade 12 / 2 Semesters / 1 Credit / CCP (University of Cincinnati): 3 Credits

Prerequisites: Pre-Calculus or Calculus of any level (80% or above); Honors Physics, AP Physics 1 (80% or above)

Corequisites: Calculus of any level, if not already taken

Goals and Objectives: This course introduces you to engineering professions through multidisciplinary, societally relevant content. You will learn how to develop approaches for comprehending engineering systems and generating and exploring creative ideas and alternatives. You will be introduced to concepts in creativity, innovation, engineering fundamentals, and problem-solving methodologies. You will learn, through hands-on experience, the process of design and analysis in engineering including how to work effectively on a team. The course is primarily group-project based and requires equal participation by all students. Engineering is done in groups and functioning well as a group requires unique skills; therefore, the students will receive training in techniques that promote effective work in a group setting. Through training in research, the design process, software tools, computer-controlled tools, and other power tools the students will be exposed to concepts that are common to various fields of engineering. Finally, you will develop skills in project management, sustainability, written, oral and graphical communication, logical thinking, and modern engineering tools (e.g., Excel, Python, LabVIEW, MATLAB, Visual Basic, CAD, Rapid Prototyping).

Students who desire to take the course must go through the CCP application process. Students who qualify for the CCP program and pass the course will receive CCP college credit awarded through the University of Cincinnati.

This course is equivalent to an AP level course in terms of St. Xavier high school credit.

Content and Methods: Classroom discussion, guest speakers, notes, group work, and multiple design projects that produce physical projects.

Evaluation and Grading: Teacher assessment of team and individual projects, writing assignments, self-reflection, and peer evaluations. The average daily homework load is 30 minutes per night.

SOCIAL STUDIES COURSE DESCRIPTIONS

SOCIAL STUDIES

8102
AP MODERN WORLD
Grade 9 / 2 Semesters / 1 Credit

Note: ***Qualified freshmen will be invited to participate in this AP offering.***

Goals and Objectives: This full-year course explores the expansive history of the human world. Students will learn many facts, but also the critical thinking skills necessary to analyze historical evidence. Five themes will be used as a frame of reference in the chronological study of our world's history; these themes are: Interaction between humans and the environment; development and interaction of cultures; state-building, expansion and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures.

Content and Methods: *Materials:* AP Modern World textbook and supplementary texts. *Methods:* include lectures, group and class discussions, videos, slides, and out of class projects.

Homework Expectations: Students can expect on average to have 30 minutes of homework a night.

Evaluation and Grading: Grades will be based on tests, quizzes, examinations, and written assignments.

8101
MODERN WORLD HISTORY
Grade 9 / 2 Semesters / 1 Credit

Goals and Objectives: This course is designed to develop an understanding of the historical roots of current world issues, especially as they pertain to international relations. Students will gain an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural contexts. Students will examine and consider multiple primary sources and accounts in order to understand international relations from a variety of perspectives.

Content and Methods: *Materials: Perspectives on the Past*, et.al. and supplementary texts. *Methods:* include lectures, class discussions, films, videotapes, slides, and out-of-class projects.

Evaluation and Grading: Grades are based on tests, quizzes, projects, and quarterly written assignments. Quarter examinations are valued at 20 percent of a student's quarter grade.

8202
AP MACROECONOMICS
Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Advanced Algebra I (2130) or Algebra II (2121, 2110), 3.67 cumulative GPA or higher; OR permission from the AP Macroeconomics instructor.

Goals and Objectives: AP Macroeconomics 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. This course provides students with a thorough understanding of the principles of economics and how economists use those principles to examine aggregate economic behavior. Students will learn how the measures of economic performance, such as gross domestic product (GDP), inflation, and unemployment are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. The course recognizes the global nature of economics and provides ample opportunities to examine the impact of international trade and finance on national economies. Various economic schools of thought are introduced as students consider solutions to economic problems.

Content and Methods: *Materials:* include AP Macroeconomics textbook, handouts, online readings, and review material on Canvas. *Methods:* include PowerPoint presentations, annotations of assigned readings, classroom dialog and simulations, and problem-solving applications.

Homework Expectations: Students can expect on average to have 30 minutes of homework a night.

Evaluation and Grading: A student's grade is based upon tests (essay and objective questions), quizzes, written responses to assigned readings, and free response questions based upon key economic principles.

8201
ECONOMICS
Grade 10 / 1 Semester / .50 Credit

Goals and Objectives: Students should gain a basic understanding of the U.S. economy and the kinds of

economic issues that appear in the news. The focus of the course will be on the economic issues rather than on business decisions. Topics include cost-benefit decision making, economic systems, markets and the laws of supply and demand, business organization and growth, personal finance, problems linked to the business cycle, government fiscal and monetary policy, globalization, international trade, and the economic development of emerging countries.

Content and Methods: A selected textbook and faculty prepared handouts. Instructional methods will include lectures, class discussions, group work, films, videotapes, simulations, and guest speakers.

Evaluation and Grading: Grades are based on quizzes, tests, examinations, and research assignments.

8302
AP UNITED STATES HISTORY

Grade 11 / 2 Semesters / 1 Credit

Prerequisites: A 3.67 or above cumulative GPA and an 88% or above in first semester sophomore Honors English; or a 90% or above in first semester sophomore regular English; OR permission from the APUSH instructor.

Goals and Objectives: To prepare students for successful completion of the Advanced Placement examination given each May. To provide students with the skills and knowledge necessary to deal critically with problems and materials in U.S. history. To prepare students for advanced college courses by making demands equivalent to a full year introductory college course. To provide students with skills necessary to arrive at conclusions on a basis of informed judgment, and to present ideas clearly and persuasively in essay format. To provide students with a rigorous intellectual exercise leading to increased understanding of historical phenomena in the U.S. To learn to assess historical materials.

Content and Methods: *Materials:* Fraser, *By the People*, and various outside assigned reviews/reflections. *Methods:* include lectures, research papers, videos, student summaries, and oral presentations.

Homework and Summer Reading Expectations and Requirements: Students can expect on average to have 40 minutes of homework a night. A summer reading assignment will also be required.

Evaluation and Grading: Evaluation and grades are based primarily on tests, numerous scholarly readings, and various written assignments including papers. Selected objective questions are included on all examinations. All examinations are designed to prepare the students for the AP examination.

8301 or 8300
UNITED STATES HISTORY

Grade 11 / 2 Semesters / 1 Credit

Goals and Objectives: This course will examine the social, political, and economic subsystems of the United States. Prime consideration in this course will be given to a study of the elements of change in the United States and the development of the American character. This course will also place an emphasis on research skills and formal writing skills.

Content and Methods: Instructional methods include lectures, class discussion, videos, simulations, small group work, primary sources usage, research, and writing skill development.

Evaluation and Grading: Grades are based on tests, quizzes, examinations, book reviews, various written assignments, and an acceptable research assignment.

8402
AP US GOVERNMENT AND POLITICS

Grade 12 / 1 Semester / .50 Credit

Prerequisites: 3.67 cumulative GPA and 88% first semester grade in U.S. History or 85% in AP U.S. History; OR permission from the AP U.S. Government instructor.

Goals and Objectives: Through a critical examination of the principles, institutions, and processes of American government, students will understand how public policy is shaped. The course will consider the Constitution, federalism, political culture and ideology, public opinion, the media, parties, elections, interest groups, Congress, the presidency, the bureaucracy, the courts, civil rights and liberties, and key public policy issues with a special emphasis on current political events and trends. This introductory college-level course is designed to prepare students to take the AP Test in U.S. Government and Politics in May.

Content and Methods: *Materials:* a textbook, handouts, online readings, and review material on Canvas. *Methods:* include daily PowerPoint presentations along with classroom dialog, simulations, role-plays, short

videos, small group work, and student presentations.

Evaluation and Grading: A student's grade is based on tests (essays and objective questions), quizzes, written responses to assigned readings, quarter papers, and the quarter exams. The quarter projects will entail the writing of essays examining a student's political ideology and their reflections on a judicial branch experience.

8401
THE AMERICAN POLITICAL SYSTEM
Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: Through a critical examination of the principles, institutions, and processes of American government, students will understand how public policy is shaped. The course will consider the Constitution, federalism, political culture and ideology, public opinion, the media, parties, elections, interest groups, Congress, the presidency, the bureaucracy, the courts, civil rights and liberties, and key public policy issues with a special emphasis on current political events and trends.

Content and Methods: A selected textbook and faculty prepared handouts. Instructional methods will include lectures, class discussions, group work, films, videotapes, simulations, and guest speakers.

Evaluation and Grading: Grades are based on quizzes, tests, examinations, and research assignments.

SOCIAL STUDIES ELECTIVES

8412
AP EUROPEAN HISTORY
Grade 12 / 2 Semesters / 1 Credit

Prerequisites: 3.67 cumulative GPA and a 90% first semester grade in U.S. History or an 88% first semester in AP U.S. History; OR permission from the AP European instructor.

Goals and Objectives: An understanding of some of the principal themes in modern European history (political, diplomatic, intellectual, cultural, social, and economic), an awareness of the consequences of European contacts with other areas of the world, and an ability to analyze historical evidence. Students will be prepared to complete the AP examination in May.

Content and Methods: *Materials: Western Civilization Since 1300*, Spielvogel, and various primary source handouts. *Methods:* include lectures, videos, small group discussion, and book critiques.

Homework and Summer Reading Expectations and Requirements: Students can expect on average to have 40 minutes of homework a night. A summer reading assignment will also be required.

Evaluation and Grading: Evaluation and grades are based primarily on tests, numerous scholarly readings, and various written assignments including papers. Selected objective questions are included on all examinations. All examinations are designed to prepare the students for the AP examination.

8414
AP HUMAN GEOGRAPHY
Grades 11, 12 / 2 Semester / 1 Credit

Not offered 2026-27 school year.

Prerequisites: A 3.67 cumulative GPA or higher; OR permission from the AP Human Geography instructor.

Goals and Objectives: AP Human Geography 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 socioeconomic organization and its environmental consequences. Students also learn about the methods and tools geographers use in their research and applications.

Content and Methods: The curriculum reflects the goals of the National Geography Standards (2012). *Materials:* include an AP Human Geography textbook, handouts, online readings, and review material on Canvas. *Methods:* include PowerPoint presentations, annotations of assigned readings, classroom dialog and simulations, and problem-solving applications.

Homework Expectations: Students can expect on average to have 15 - 30 minutes of homework a night.

Evaluation and Grading: Evaluation and grades, take out essays and put short answer questions and add projects and map simulations and article summaries.

SOCIAL STUDIES COURSE DESCRIPTIONS

8202
AP MACROECONOMICS
Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: A solid command of algebraic concepts, a 3.67 cumulative GPA or higher; OR permission from the AP Macroeconomics instructor.

Goals and Objectives: AP Macroeconomics 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. This course provides students with a thorough understanding of the principles of economics and how economists use those principles to examine aggregate economic behavior. Students will learn how the measures of economic performance, such as gross domestic product (GDP), inflation, and unemployment are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. The course recognizes the global nature of economics and provides ample opportunities to examine the impact of international trade and finance on national economies. Various economic schools of thought are introduced as students consider solutions to economic problems.

Content and Methods: *Materials:* include an AP Macroeconomics textbook, handouts, online readings, and review material on Canvas. *Methods:* include PowerPoint presentations, annotations of assigned readings, classroom dialog and simulations, and problem-solving applications.

Homework Expectations: Students can expect on average to have 30 minutes of homework a night.

Evaluation and Grading: A student's grade is based upon tests (essay and objective questions), quizzes, written responses to assigned readings, and free response questions based upon key economic principles.

8415
AP MICROECONOMICS
Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: Either Economics or AP Macroeconomics **AND** Advanced Algebra I (2130) or Algebra II (2121, 2110), 3.67 cumulative GPA or higher; OR permission from the AP Microeconomics instructor.

Goals and Objectives: Have you ever wondered why prices fluctuate for online retailers depending on the time and day? Or why people say, "time is money"? In AP Microeconomics, you'll explore the answers to these questions as you learn the principles of economics that govern the actions of individuals and businesses. You'll also explore concepts such as supply and demand, elasticity, and market structures to gain a deeper understanding of how economic decisions shape our world.

Content and Methods: *Materials: include AP Microeconomics textbook, workbook, handouts, online readings, and review material on Canvas. Methods: include PowerPoint presentations, annotations of assigned readings, classroom dialog and simulations, and problem-solving applications.*

Homework Expectations: Students can expect on average to have 30 minutes of homework a night.

Evaluation and Grading: A student's grade is based upon tests (essay and objective questions), quizzes, written responses to assigned readings, and free response questions based upon key economic principles.

8462
AP PSYCHOLOGY
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: 3.41 or higher cumulative GPA or permission of the instructor.

Goals and Objectives: To introduce the student to the study of mental processing and human behavior. This two-semester course will investigate the underlying influences of physiology and social influence on human thinking, language, consciousness, learning and memory, personality, and psychological disorders (mental illness). Students will study internal biological systems and the external environment, as they relate to the control and regulation of human behavior. Students will learn to think critically by using scientific processes and methods to investigate data/information and to evaluate theories. Students who are successful in the course are prepared to take the AP Psychology Exam given in the spring.

Content and Methods: The curriculum of AP Psychology mimics a college-level introductory Psychology course. Topics include: biological bases of behavior, sensation and perception, learning, cognition, human development, personality, motivation and emotion, clinical psychology, and social influence. Students will be expected to do significant reading and there will be,

approximately, 45-50 minutes of homework required per night.

Evaluation and Grading: Grade will be based on the quality of investigation, classroom discussions, assignments, projects, research, quizzes/tests, and quarter examinations. Advanced Placement score will be determined by the student's performance on the AP examination.

8458
20TH CENTURY WORLD WARS

Grades 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: ***The 20th Century World Wars and their Effects on the World Today:*** This course will challenge students to evaluate the First and Second World Wars as 20th Century events that have greatly impacted and shaped the 21st Century world. In the exploration of these wars, students will analyze the political, social, economic, and military components of the wars as well as the various ways that both individuals and groups were impacted by these wars. Students will also investigate the many moral and ethical issues born out of the technological advances in weaponry as well as human decisions made during the wars. This course will culminate by inviting students to study these wars as transformative in their results, both Geo-Political as well as human, in an attempt to come to a better understanding of the effects on their lives today.

Content and Methods: Students will access and have access to a number of printed, visual, audio, and multi-media sources such as articles, primary and secondary documents, photographs, speeches, maps, websites, documentaries, and movies. There will be no textbook for this course.

Evaluation and Grading: This will be, to some degree, a project-based course in which students will complete a major and minor project each quarter (major project will be in lieu of quarter exam), complete classroom activities, four-five homework assignments, and take quizzes.

8455
AMERICAN CAPITALISM AND ENTREPRENEURSHIP

Grades 11, 12 / 1 Semester / .50 Credit

Course Overview: This course provides students with a comprehensive introduction to the principles of entrepreneurship through the lens of American capitalism. Students will explore the entrepreneurial mindset, leadership, and innovation, focusing on how these concepts have shaped modern business practices. Additionally, the course will introduce students to artificial intelligence as a tool for entrepreneurship, teaching them how to leverage AI for market research, customer insights, and decision-making. By the end of the course, students will gain the foundational knowledge and skills necessary to embark on their entrepreneurial journey and understand the mechanics of starting and running a successful enterprise.

Goals and Objectives: Understand the foundations of American Capitalism: Analyze its role in shaping modern management and entrepreneurial practices. Develop the entrepreneurial mindset: Learn to identify opportunities, take risks, and innovate within a capitalistic framework. Explore leadership in business: Study various leadership styles and their application in entrepreneurship. Examine legal and ethical aspects: Understand the legal requirements, intellectual property, and ethical considerations involved in launching a business. Investigate emerging trends: Delve into how artificial intelligence, technology, and innovation are impacting entrepreneurship. Create a business model: Apply theories learned by developing a business idea, including market research, financial planning, and legal structure.

Content and Methods: This course will employ a mix of readings, case studies, interactive discussions, guest speakers, and hands-on projects to explore the historical development of American capitalism and its influence on modern entrepreneurship. Students will study key theorists in management, entrepreneurship, innovation, and leadership. They will work in teams to create business proposals and critically analyze real-world case studies.

Evaluation and Grading: Grades will be based on projects, quizzes, and various reading and written assignments.

8457
AMERICAN HOT WAX

Grades 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: This course seeks to balance understanding the development and significance of Rock and Roll in its historical and social environment with maintaining a focus on listening to the music as the main mode of understanding. Through

listening, analysis, discussion, music, and film, students will explore the music and the culture and society of the day. We will explore how 20th Century American culture was reflected in the popular music of the period. The course begins with an overview of ancestors and influences: blues, boogie-woogie, jazz, swing, country & western, gospel, and popular music, and the crossover success of rhythm & blues acts that marked the true birth of rock & roll. We will study the musical and social trends of the 1960's and social upheaval of the late 1960's, and the changes in Rock & Roll music during the seventies, eighties, and nineties. The course will culminate in an exploration of today's current musical trends and icons including rap/hip hop.

Content and Methods: Class assignments will be organized around song analysis, small group discussions, reading assignments, in-class activities, and multi-media presentations. The textbook is *Rockin' in Time: A Social History of Rock 'n Roll* by David Szatmary.

Evaluation and Grading: Grades will largely be based on tests, quizzes, projects, and our studies.

8456
ENTREPRENEURSHIP IN ACTION

Grade 12 / 1 Semester / .50 Credit

Course Overview: This experiential learning course immerses students in the real-world process of building and managing a business. Through hands-on projects and virtual simulations, students will explore the modern economic business startup models, entrepreneurship, and leadership needed to succeed in today's market. The course emphasizes critical thinking approaches such as first principles problem-solving and introduces students to behavioral economics, investment strategies, and capital raising techniques. Additionally, students will learn how to leverage artificial intelligence (AI) as a tool for entrepreneurship and innovation, including effective prompt building for AI applications. By working through real-life business cycles, most notably in the school's coffee shop, the Bomber Brew, students will apply these key concepts in practical settings, gaining valuable entrepreneurial experience.

Goals and Objectives: Develop practical entrepreneurship skills: Work through the stages of running a business, from ideation to execution. Explore the role of entrepreneurs in driving economic growth and innovation. Utilize AI as a tool for innovation: Learn how to craft effective prompts and integrate AI tools into business processes. Master problem-solving techniques: Apply first principles thinking to dissect and solve complex business challenges. Analyze behavioral economics: Understand how psychological factors influence decision-making in markets. Gain insight into raising capital and investment: Learn strategies for funding new ventures and navigating investment opportunities. Develop marketing, promotion, and sales strategies: Implement real-life approaches to reaching customers and driving sales.

Content and Methods: Students will work in Group Pods that rotate through various roles within the entrepreneurial cycle, ensuring exposure to all critical aspects of a business. Lessons will be delivered through a combination of virtual simulations and real-life projects. These projects will cover everything from market analysis and product development to sales and marketing, giving students a deep dive into the operations of a business.

Evaluation and Grading: Grades will be based on: Participation and Engagement: Active involvement in group projects and discussions. Execution of Projects: Successful application of course concepts in real-life and virtual business settings. Reflection and Analysis: Written reflections on lessons learned, challenges faced, and solutions applied.

8461
INTRODUCTION TO PSYCHOLOGY

Grades 11, 12 / 1 Semester / .50 credit

Goals and Objectives: An introduction to the study of Psychology from the scientific perspective (consideration of variables) including research methods, the nervous system, learning and memory, consciousness, motivation theory, adolescent development, personality, mental illness, and social psychology.

Content and Methods: This course will include an investigation of these topics by case studies, current articles from psychology and neuroscience, and current events/relevant topics.

Evaluation and Grading: Assignments will include readings, case study analysis, experiential learning via projects, and presentations. Additional assessments will include reflection questions,

quizzes, and tests. Students should expect, on average, 30 minutes of homework per weeknight.

*This class is designed for a student who has interest in human behavior and societal trends but does not wish to cover material at an accelerated pace.

8459

MODERN HISTORY OF THE MIDDLE EAST

Grades 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: This course offers a survey level exploration of the modern history of the Middle East, combining historical context with critical discussion of contemporary issues. The first half of the course provides foundational knowledge, covering the late Ottoman Empire, the rise of Arab nationalism, the creation of modern nation-states, and key historical events like the Arab-Israeli conflict and the Iranian Revolution. The second half shifts focus to discussion and debate on present-day topics such as political Islam, the impact of oil/U.S. involvement in the region, the Arab Spring, and ongoing conflicts in the region. Students will engage in debates, analyzing historical roots of current issues, while developing informed perspectives on the challenges and transformations facing the Middle East today.

Content and Methods: Students will utilize various types of primary and secondary sources ranging from printed, visual, and audio media to the use of social media. Our background textbook will be A History of the Modern Middle East 7th edition by William L. Cleavland and Martin Bunton.

Evaluation and Grading: This course will consist of some traditional assessments but will largely focus on presentation, discussion and debate grading. Reading homework will be a requirement throughout the course. In addition, students will complete a major project/presentation each quarter and will also participate in quarterly debates focused on a specific topic from the course.

8448

NEGRO LEAGUES: BASEBALL AND CIVIL RIGHTS

Grades 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: This course will focus on the history of Negro Leagues baseball in America. The course will consider several historical factors which led the development of the Negro Leagues. For example, we will examine post-Civil War Reconstruction, the beginnings of professional sports in America, and racial identity in the 19th - 21st centuries. Students will understand the political, social, and economic factors which made the Negro Leagues possible, and also which led to its decline. Lastly, we will explore how the world of sports intersects with culture.

Content and Methods: Materials include an autobiography of a Negro League player, primary source readings, baseball statistics, player testimonials, documentary films, newspaper archives, guest speakers, and field trip opportunities. The course will feature presentations, classroom discussion, research-based reflective essays, and small group work.

Homework Expectations: Students can expect an average of 20 minutes of homework each night. Critical reading is an expectation for the course.

Evaluation and Grading: A student's grade is based upon tests, quizzes, projects, and written responses to assigned readings.

8445

THE AMERICAN LEGAL SYSTEM

Grades 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: ***Law: An Introduction to the American Legal System*****:** This course will focus on various legal issues relevant to students' lives. The course will cover the two broad areas of American law: Criminal and Civil Law. Topics to be covered include criminal laws, Bill of Rights protections, criminal procedure, the juvenile justice system, intentional torts, negligence, intellectual property law, consumer and housing law, and contract law. This course will build upon material learned by students in Introduction to Government, especially in the area of search and seizure and other Bill of Rights protections.

Content and Methods: *Street Law: A Course in Practical Law.* Case studies and current events will be used to address topics. Hypothetical situations and group work will be the norm for the class. Other instructional methods will include lectures, class discussions, and videos.

Evaluation and Grading: Grades will be based on tests, quizzes, examinations, and written assignments.

FINE ARTS COURSE DESCRIPTIONS

FINE ARTS

Fine Arts courses can be requested in order to meet graduation requirements and as electives.

9000
CREATIVE THINKING
Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Fine Arts requirements (2 semesters) in ANY genre.

Goals and Objectives: Learn how to have more good ideas by understanding the role creativity plays in your everyday life and how to access it on demand. Students will use creative engagement to solve problems, make themselves happier and increase their emotional intelligence alongside studying what, exactly, happens in our brains when we have an idea and how we can control that process. This class will prepare students to excel at the rest of their schooling and better prepare them to take on leadership roles.

Content and Methods: Both a lecture and lab class, students will not only study methods to increase creative thinking but will practice what they are studying via short projects.

Evaluation and Grading: A mix of formal and informal evaluation. Student projects will be graded not on content but on the quality of idea presented, amount of preparation put into it, and the development of the finished product. Projects will also be critiqued by the rest of the class as a method of building and refining critical thinking skills.

MUSICAL ARTS

9005
AP MUSIC THEORY
Grades 11, 12 / 2 Semesters / 1 Credit

Note: ***This course relies on a student's continued experience in a performing ensemble.***

Prerequisites: Completion of any Musical Arts class (Level 2 or higher).

Goals and Objectives: The goal of the course is to enable students to understand the architecture of music through analysis and listening. An additional goal of the course is to provide the student with the appropriate skills to score high enough on the AP Music Theory Exam to gain college credit upon entering the university setting.

Content and Methods: Coverage throughout the year includes but is not limited to scales, keys, intervals, form, and analysis. Students will also exercise and enhance their aural skills and will eventually be able to dictate and identify intervals and chords by listening to music played.

Evaluation and Grading: Grades and evaluations are based upon homework, quizzes, exams, and dictation.

9011
BAND 1
Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: To begin or continue to develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Methods: This course will provide a large ensemble setting for students who wish to begin or continue to develop their own instrumental skill on a woodwind, or brass instrument, or as a percussionist. Development of basic musicianship and playing skills will be emphasized throughout the semester as we rehearse and prepare band repertoire for performance. Concert/s and performance for graduation (2nd semester) are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

9012
BAND 2
Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Band 3 and Band 4.

Prerequisites: Completion of Band 1 or instructor approval in specific cases.

Goals and Objectives: To further develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Methods: Students will continue to develop their individual

instrumental technique and performance skills and further develop musicianship through rehearsal and preparation of band repertoire for performance. Students will also study individual solo pieces for performance within the class. Concert/s and performance for graduation (2nd semester) are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

9014

BAND 3

Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Band 2 and Band 4.

Prerequisites: Completion of Band 1 and 2; OR instructor approval in specific cases.

Goals and Objectives: To further develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Methods: Students will continue to develop their individual instrumental technique and performance skills and further develop musicianship through rehearsal and preparation of band repertoire for performance. Students will also study individual solo pieces for performance within the class. Concert/s and performance for graduation (2nd semester) are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

9009

BAND 4

Grade 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Band 2 and Band 3.

Prerequisites: Completion of Band 1, 2, and 3; OR instructor approval in specific cases.

Goals and Objectives: To further develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Methods: Students will continue to develop their individual instrumental technique and performance skills and further develop musicianship through rehearsal and preparation of band repertoire for performance. Students will also study individual solo pieces for performance within the class. Concert/s and performance for graduation (2nd semester) are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

9015

CHOIR 1

Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Choir 2, 3, and 4.

Goals and Objectives: To successfully prepare choral repertoire from a variety of musical styles and periods by learning the basic skills of musical performance and vocal health in a rehearsal setting.

Content and Methods: The course will focus on learning and preparing musical repertoire for concert performances throughout the semester. While no prior experience is necessary, students will be expected to increase their musical reading and performance skills through exercises provided by the instructor, and through consistent progress in rehearsals.

Evaluation and Grading: Students will be evaluated via written quizzes, sight-reading exercises, memorization checks, musical content checks, in-class participation, and concert performances.

9016

CHOIR 2

Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Choir 1, 3, and 4.

Prerequisites: Completion of Choir 1.

Goals and Objectives: To successfully prepare choral repertoire from a variety of musical styles and periods by learning the skills of musical

performance and vocal health in a rehearsal setting.

Content and Methods: The course will focus on learning and preparing musical repertoire for concert performances throughout the semester. Students will be expected to increase their musical reading and performance skills through exercises provided by the instructor, and through consistent progress in rehearsals.

Evaluation and Grading: Students will be evaluated via written quizzes, sight-reading exercises, memorization checks, musical content checks, in-class participation, and concert performances.

9017
CHOIR 3
Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Choir 1, 2, and 4.

Prerequisites: Completion of Choir 1 and 2.

Goals and Objectives: To successfully prepare choral repertoire from a variety of musical styles and periods by learning the skills of musical performance and vocal health in a rehearsal setting.

Content and Methods: The course will focus on learning and preparing musical repertoire for concert performances throughout the semester. Students will be expected to increase their musical reading and performance skills through exercises provided by the instructor, and through consistent progress in rehearsals.

Evaluation and Grading: Students will be evaluated via written quizzes, sight-reading exercises, memorization checks, musical content checks, in-class participation, and concert performances.

9018
CHOIR 4
Grades 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Choir 1, 2, and 3.

Prerequisites: Completion of Choir 1, 2, and 3.

Goals and Objectives: To successfully prepare choral repertoire from a variety of musical styles and periods by learning the skills of musical performance and vocal health in a rehearsal setting.

Content and Methods: The course will focus on learning and preparing musical repertoire for concert performances throughout the semester. Students will be expected to increase their musical reading and performance skills through exercises provided by the instructor, and through consistent progress in rehearsals.

Evaluation and Grading: Students will be evaluated via written quizzes, sight-reading exercises, memorization checks, musical content checks, in-class participation, and concert performances.

9021
GUITAR 1
Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: The goal of the Guitar 1 class is to establish the fundamentals of acoustic guitar playing, note reading, and an understanding of the construction of scales and chords.

Content and Methods: Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9022
GUITAR 2
Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Guitar 1 or instructor approval in specific cases.

Goals and Objectives: The goal of the guitar 2 class is to provide students the experience of playing acoustic guitar in an ensemble and to develop their individual playing ability.

Content and Methods: Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire. Students will also be expected to show progress in their ability to interpret and perform solo pieces.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9023
GUITAR 3
Grades 10, 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Prerequisites: Completion of Guitar 1 and Guitar 2; OR instructor approval in specific cases.

Goals and Objectives: The goal of the Guitar 3 class is to provide students the experience of playing guitar in an advanced ensemble, to develop the student's playing ability, and to discuss options for future musical growth.

Content and Methods: This class will include repertoire and performance opportunities designed to assist the guitarist in meeting their musical goal. Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9010
JAZZ BAND 1
Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Jazz Band 2, 3, and 4.

Prerequisites: Completion of any level Band or instructor approval following an audition.
Goals and Objectives: This class will serve as an introduction to the rich history of jazz music. Through ensemble rehearsal, individual practice, and a variety of performance opportunities, the student will gain an understanding and appreciation for this great art form.

Content and Methods: Emphasis will be placed on not just performance technique, but also rudimentary improvisational skills, musicianship, and a sense of personal accountability. This ensemble is a skilled effort in which each student is expected to show technical and musical growth throughout this course. Material will be presented through verbal presentations, audio, and visual examples.

Evaluation and Grading: Students will be graded through written exams, instrumental performance assignments, concert observations, and in-class participation.

9007
JAZZ BAND 2
Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Jazz Band 1, 3, and 4.

Prerequisites: Completion of Band 1 and Jazz Band 1; OR instructor approval following an audition.

Goals and Objectives: This class will serve as an introduction to the rich history of jazz music. Through ensemble rehearsal, individual practice, and a variety of performance opportunities, the student will gain an understanding and appreciation for this great art form.

Content and Methods: Emphasis will be placed on not just performance technique, but also rudimentary improvisational skills, musicianship, and a sense of personal accountability. This ensemble is a skilled effort in which each student is expected to show technical and musical growth throughout this course. Material will be presented through verbal presentations, audio, and visual examples.

Evaluation and Grading: Students will be graded through written exams, instrumental performance assignments, concert observations, and in-class participation.

9008
JAZZ BAND 3
Grades 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Jazz Band 1, 2, and 4.

Prerequisites: Completion of Band 1 and Jazz Band 1 and 2; OR instructor approval following an audition.

Goals and Objectives: This class will serve as an introduction to the rich history of jazz music. Through ensemble rehearsal, individual practice, and a variety of performance opportunities, the student will gain an understanding and appreciation for this great art form.

Content and Methods: Emphasis will be placed on not just performance technique, but also rudimentary improvisational skills, musicianship, and a sense of personal accountability. This ensemble is a skilled effort in

which each student is expected to show technical and musical growth throughout this course. Material will be presented through verbal presentations, audio, and visual examples.

Evaluation and Grading: Students will be graded through written exams, instrumental performance assignments, concert observations, and in-class participation.

9006
JAZZ BAND 4
Grades 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Jazz Band 1, 2, and 3.

Prerequisites: Completion of Band 1 and Jazz Band 1, 2, and 3; OR instructor approval following an audition.

Goals and Objectives: This class will serve as an introduction to the rich history of jazz music. Through ensemble rehearsal, individual practice, and a variety of performance opportunities, the student will gain an understanding and appreciation for this great art form.

Content and Methods: Emphasis will be placed on not just performance technique, but also rudimentary improvisational skills, musicianship, and a sense of personal accountability. This ensemble is a skilled effort in which each student is expected to show technical and musical growth throughout this course. Material will be presented through verbal presentations, audio, and visual examples.

Evaluation and Grading: Students will be graded through written exams, instrumental performance assignments, concert observations, and in-class participation.

9001
MUSIC 1
Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Note: ***Music 1 can only be taken as a student's FIRST music course at St. X. Once a student takes another class in the music discipline, he is no longer eligible to enroll in Music 1.***

Goals and Objectives: A general music course intended for students with little to no experience reading music and playing instruments. The course provides an overview and introduction of the elements of music and musical performance.

Content and Methods: The course will introduce students to musical concepts including melody, harmony, rhythm, pitch, tempo, dynamics, and musical instruments. Material will be presented through verbal presentations, audio and visual examples, and practical application through exposure to singing, band instruments, and string instruments.

Evaluation and Grading: Students will be graded through written exams, instrumental performance assignments, concert observations, and in-class participation.

9002
MUSIC PRODUCTION TECHNOLOGY
Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of at least one level 1 music course.

Goals and Objectives: This course is intended for *any* student with little experience in music and computer software. This course will provide students with a basic understanding of how to create and produce electronic music.

Content and Methods: Designed for anyone interested in producing music on their computer, regardless of style, this course provides an overview of the wide range of tools available to the modern electronic musician. Through hands-on exercises and projects, students will experience the process of producing a piece of music with their computer, from developing the original musical idea through distributing a final mix. This course will teach students not only how to design and configure an electronic music studio that supports creative goals, but also how to understand and utilize the most popular tools and techniques. Students will learn how to set up audio interfaces, microphones, MIDI sequencers, synthesizers, drum machines, and more to effectively create and produce music ideas.

Evaluation and Grading: Students will be evaluated and graded through electronic music projects as well as tests, quizzes, and participation.

9027
MUSICAL THEATER HISTORY
Grades 10, 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Note: ***Students should be able to understand basic theater when considering this course.***

Prerequisites: Completion of Fine Arts requirements (2 semesters) in ANY genre.

Goals and Objectives: This Fine Arts elective course will delve into key musical theater works and consider trends and shifts in art form based on societal changes, focusing on civil rights. We will consider the broad state of the world when the show was written, discuss how each writing team addresses issues of the day through the musical score and libretto, and their message to the audience.

Content and Methods: The course will be divided in three units of study: racism, gender equality, and immigration. In each case, we will analyze important shows from a variety of time periods through readings, audio, and visual recordings.

Evaluation and Grading: Students will be graded through written exams, in-class presentations, attendance and review of local performances, and class participation.

9013
PERCUSSION ENSEMBLE 1
Grade 10, 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Meets concurrently with Percussion Ensemble 2, 3, and 4.

Prerequisites: Completion of Band 1 or instructor approval following an audition.

Goals and Objectives: To further develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Methods: Students will continue to develop their individual instrumental technique and performance skills and further develop musicianship through rehearsal and preparation of band repertoire for performance. Students will also study individual solo pieces for performance within the class. Concert/s and performance for graduation (2nd semester) are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

9035
PERCUSSION ENSEMBLE 2
Grade 10, 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Meets concurrently with Percussion Ensemble 1, 3, and 4.

Prerequisites: Completion of Band 1 and Percussion Ensemble 1; OR instructor approval following an audition.

Goals and Objectives: To further develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Methods: Students will continue to develop their individual instrumental technique and performance skills and further develop musicianship through rehearsal and preparation of band repertoire for performance. Students will also study individual solo pieces for performance within the class. Concert/s and performance for graduation (2nd semester) are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

9036
PERCUSSION ENSEMBLE 3
Grade 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Meets concurrently with Percussion Ensemble 1, 2, and 4.

Prerequisites: Completion of Band 1 and Percussion Ensemble 1 and 2; OR instructor approval following an audition.

Goals and Objectives: To further develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Methods: Students will continue to develop their individual instrumental technique and

performance skills and further develop musicianship through rehearsal and preparation of band repertoire for performance. Students will also study individual solo pieces for performance within the class. Concert/s and performance for graduation (2nd semester) are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

9037
PERCUSSION ENSEMBLE 4
Grade 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Meets concurrently with Percussion Ensemble 1, 2, and 3.

Prerequisites: Completion of Band 1 and Percussion Ensemble 1, 2, and 3; OR instructor approval following an audition.

Goals and Objectives: To further develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Methods: Students will continue to develop their individual instrumental technique and performance skills and further develop musicianship through rehearsal and preparation of band repertoire for performance. Students will also study individual solo pieces for performance within the class. Concert/s and performance for graduation (2nd semester) are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

9024
STRINGS 1
Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

May meet concurrently with Strings 2, 3, and 4.

Goals and Objectives: The goal of the Strings 1 class is to provide students the experience of playing a violin, viola, cello, or bass in an ensemble and to develop their individual playing ability.

Content and Methods: Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9025
STRINGS 2
Grades 10, 11, 12 / 1 Semester / .50 Credit

May meet concurrently with Strings 1, 3, and 4.

Prerequisites: Completion of Strings 1 or instructor approval in specific cases.

Goals and Objectives: The goal of the Strings 2 class is to provide students the experience of playing a violin, viola, cello, or bass in an advanced ensemble, to develop the student's playing ability, and to discuss options for future musical growth.

Content and Methods: Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire. Students will also be expected to show progress in their ability to interpret and perform solo pieces.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9026
STRINGS 3
Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Strings 1, 2, and 4.

Prerequisites: Completion of Strings 1 and 2; OR instructor approval in specific cases.

Goals and Objectives: The goal of the Strings 3 class is to provide students the experience of playing a violin, viola, cello, or bass as leaders in an advanced ensemble, to develop the student's playing ability, and to discuss options for future musical growth.

Content and Methods: Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals

and rehearsing ensemble repertoire. Students will also be expected to show progress in their ability to interpret and perform solo pieces.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9028
STRINGS 4

Grades 11, 12 / 1 Semester / .50 Credit

May meet concurrently with Strings 1, 2, and 3.

Prerequisites: Completion of Strings 1, 2, and 3; OR instructor approval in specific cases.

Goals and Objectives: The goal of the Strings 4 class is to provide students the experience of playing a violin, viola, cello, or bass in an advanced ensemble, to develop the student's playing ability, and to prepare solo repertoire appropriate for future auditions.

Content and Methods: Students will perform as a class at least once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire. Students will also be expected to show progress in their ability to interpret and perform solo pieces.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

THEATER ARTS

ACTING 1: WHAT IS ACTING?

Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: An introduction to the worlds of theater, film and television with an emphasis on the person who stands at the center of all these experiences - the actor. Students will perform from a script, build their improvisational skills, learn to control how they present themselves and gain the invaluable ability to become comfortable being uncomfortable. Class will briefly examine the other elements of the theater as well including directing, set, sound, costume, and lighting design.

Content and Methods: Centering around in class exercises which will include performing scenes from a published script, performing improvisation, and other storytelling techniques.

Evaluation and Grading: Grades are based on performance skills development, completed projects, student critiquing, student effort, and teacher assessment of acting projects.

9032
ACTING 2: COMEDY

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Acting 1 or instructor approval in specific cases.

Goals and Objectives: An in-depth study of acting techniques and script analysis, centering around comedy and the principles that drive it. Students will participate in improvisation exercises, scene work, and monologues. Students hone skills in divergent thinking, performing and mastering their own nervous habits which will assist them in many arenas outside of Acting.

Content and Methods: Students participate in multiple acting projects, ranging from simple to more complex throughout the semester. Utilizing short textbook readings, specific comedic terminology and theory is learned and scene analysis principles applied.

Evaluation and Grading: Grades are based on performance skills development, completed projects, handouts on reading, student critiquing and self-evaluation, student effort, and teacher assessment of scene work/acting projects.

9033
ACTING 3: DIRECTING/ PLAYWRITING & SHAKESPEARE

Grades 10, 11, 12 / 1 Semester / .50 Credit

May meet concurrently with Acting 4.

Prerequisites: Completion of Acting 1 and 2 or instructor approval in specific cases.

Goals and Objectives: Challenging scenes provide learning opportunities considerably more difficult than previous studio work.

Content and Methods: Students will not only perform a scene from a Shakespeare play but will also explore directing. Finally, students will direct short scenes written by others in the class.

FINE ARTS COURSE DESCRIPTIONS

Evaluation and Grading: Grades are based on performance skill development, completed projects, handouts accompanying acting projects, student critiquing and self-evaluation, student effort, and teacher assessment of scene work/acting projects.

9034
ACTING 4: FULL PERFORMANCE

Grades 11, 12 / 1 Semester / .50 Credit

May meet concurrently with Acting 3.
Prerequisites: Completion of Acting 1, 2, and 3 or instructor approval.

Goals and Objectives: Students will apply all they have learned in Acting I, II and III to write, produce, stage, and design a theatrical piece for a public audience. *If you've never had time to join Theater Xavier but have wanted to perform on stage during high school, let this class fulfill that dream.*

Content and Methods: Working as its own "Production Company", students will manage the production of a theatrical piece from beginning to end, including: writing, directing, casting, rehearsing, costuming, lighting, advertising, and performing. All to a public audience.

Evaluation and Grading: Student cooperation, collaboration, inspiration, and effort are key elements. Successful accommodation of each production stage – from auditioning through opening – will teacher evaluated. Final evaluation will come from the audience itself.

9041
STAGECRAFT 1

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites:
- Sophomore (to complete Fine Arts requirements) completion of Acting 1 or Drawing 1.
- Sophomore/Junior/Senior - (as an elective) completion of Fine Arts requirements (2 semesters) in ANY genre(s).

Course Description: Students will utilize electric and manual tools, such as drills, circular saws, sanders, hand saws and sewing machines. Safety and care are essential components of daily classroom activity. Safety equipment will be used, and safety practices will be maintained at all times. Students do not need a background in theater for this course.

Goals and Objectives: Students learn elements of scenic design, methods of props-making, building methods for set creation, how to create set pieces for plays, build models of set designs, learn painting and sewing techniques. Students will learn about and appreciate the backstage elements, which support theatrical production.

Content and Methods: Building processes will be demonstrated. Students will work with wood/lumber, foam, and fabric. They will be taught to drill, saw, paint, sketch designs, staple, nail, and sew. Step by step methodology and proficiency are features of their skill development.

Evaluation and Grading: Grading will be based on daily involvement in project building, teacher critiquing during project work, small group work, use of terminology/vocabulary, step by step methods followed, student effort, and final critiquing and evaluation of projects.

9042
STAGECRAFT 2

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Stagecraft 1.

Course Description: Students will utilize electric and manual tools, such as drills, circular saws, sanders, hand saws. Safety and care are essential components of daily classroom activity. Safety equipment will be used, and safety practices will be maintained at all times. Students do not need a background in theater for this course.

Goals and Objectives: Students will explore stage engineering and design work, helping them understand why certain building techniques and materials are used in a number of applications. They will create designs for specific theatrical productions in woodworking and sewing.

Content and Methods: Beginning with woodworking students learn new wood building techniques. Design will be assisted through reading and research; including books, internet, and conversations with other technical directors from the area. Students will also learn new sewing techniques. A final comprehensive project where students design and create their own work completes the semester.

Evaluation and Grading: Grading will be based on the student's understanding of techniques of theater construction through project work (construction or design), as well as his skill development in collecting research information.

FINE ARTS COURSE DESCRIPTIONS

VISUAL ARTS

9067
AP 2D DESIGN
Grades 11, 12 / 2 Semesters / 1 Credit

Meets concurrently with Honors Art & Design 2.
Prerequisites: Completion of two Visual Arts courses; OR completion of/currently enrolled in Honors Art & Design 1; OR instructor approval in specific cases.

Goals and Objectives: This is a college level drawing and design course. This course is intended for students who are seriously interested in the practiced experience of two-dimensional visual design. Students are asked to demonstrate understanding of design concepts including composition, balance, movement, pattern, rhythm, emphasis, unity, contrast, and creativity. These concepts can be explored through any two-dimensional medium or process, including, but not limited to, mixed media, graphic design, digital imaging, photography, collage, fashion design, illustration, drawing, painting, and printmaking. Students are required to create a series of artworks that deal with a specific sustained investigation of their choosing.

Content and Methods: Students need to be aware that AP work involves significantly more commitment and accomplishment than the typical studio art course. The content for this course follows requirements set forth by the Advanced Placement College Board and deals specifically in two areas: Section I: *Selected Works*, Section II: *Sustained Investigation*. The *Selected Works* section requires that the student create 5 artworks that exhibit the ability to make choices based on the total work of art – the concept, composition, technical skills, and the realization of the artist's intentions. The *Sustained Investigation* section requires that the student create 15 images that demonstrate the exploration of a particular idea developed and expressed visually through practice, experimentation, and revision.

Evaluation and Grading: An assessment of student performance in the course will be based on work ethic, idea development/exploration, aesthetic development, creativity, participation, craftsmanship, assigned work, and meeting deadlines.

9064
AP DRAWING
Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Completion of two Visual Arts courses; OR completion of/currently enrolled in Honors Art & Design 1; OR instructor approval in specific cases.

Goals and Objectives: This is a college level drawing and design course. This course is intended for students who are seriously interested in the practiced experience of drawing. Students will work to address drawing concepts such as mark-making, line quality, value, rendering, depth, composition, surface manipulation, exploration of mediums, observation, and creativity. Students are required to create a series of artworks that deal with a specific sustained investigation of their choosing.

Content and Methods: Students need to be aware that AP work involves significantly more commitment and accomplishment than the typical studio art course. The content for this course follows requirements set forth by the Advanced Placement College Board and deals specifically in two areas: Section I: *Selected Works*, Section II: *Sustained Investigation*. The *Selected Works* section requires that the student create 5 artworks that exhibit the ability to make choices based on the total work of art – the concept, composition, technical skills, and the realization of the artist's intentions. The *Sustained Investigation* section requires that the student create 15 images that demonstrate the exploration of a particular idea developed and expressed visually through practice, experimentation, and revision.

Evaluation and Grading: An assessment of student performance in the course will be based on work ethic, idea development/exploration, aesthetic development, creativity, participation, craftsmanship, assigned work, and meeting deadlines.

9061
DRAWING 1
Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: This course deals with the fundamental elements and principles of visual art. Students will learn about line, composition, value, perspective, space vs. negative space, shape, and form. Students will develop observational accuracy through drawing from life and

photographic references. Students will learn and experiment with a variety of drawing techniques.
Content and Methods: By breaking drawing down to its simplest elements, students will build a strong visual foundation. Students will create drawings from direct observation, as well as drawings that replicate existing imagery. Emphasis is placed on proper usage of drawing mediums and development of technical and observational skills.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness, and project deadlines.

9062
DRAWING 2
Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Drawing 1.

Goals and Objectives: This course allows students to further develop the elements and principles of visual art. This course allows students to create with new and different artistic mediums, such as ink, charcoal, marker, colored pencil, collage, etc. Students are encouraged to continue to push their technical abilities, while also expanding their creative output. This course will also teach students the proper ways to critique works of art, both orally and in written form.

Content and Methods: Students will focus on the continued development of observational drawing skills and the exploration and study of composition. Students will begin to build creative themes and ideas with more involved techniques and advanced processes. The class is a working studio. Demonstration, lecture, history, and critique are all integral methods used in the studio setting.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness, and project deadlines.

9063
DRAWING 3
Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Drawing 1 and 2; OR completion of/currently enrolled in Honors Art & Design 1.

Goals and Objectives: This course is designed specifically for the student who has achieved a level of proficiency in drawing and is interested in pursuing more complex work in this area. The emphasis of the course will be on building specific drawing skills, understanding and executing more complex compositions, building creative themes and ideas, manipulating various materials, and practicing more involved techniques.

Content and Methods: Content focuses on continued exploration and study of compositional elements and principles. Students will work with a wide range of subject matter: self-portrait, figures drawn from photographic sources, imaginary figures, literal landscape, dreamscape, abstraction, collage, etc. Students will also be exposed to a large variety of techniques and media: decollage, foreshortening, multiple perspectives, digital work, print techniques, etc. The class is a working studio. Demonstration, lecture, history, and critique are all integral methods used in the studio setting.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness, and project deadlines.

9066
GRAPHIC DESIGN
Grades 11, 12 / 1 Semester / .50 Credit

Not offered 2026-27 school year.

Prerequisites: Completion of Drawing 1 and Introduction to Graphic Design; OR completion of/currently enrolled in Honors Art & Design 1.

Goals and Objectives: In this class, students will continue to develop and enhance the design vocabulary and techniques learned in Introduction to Graphic Design. Projects completed will range from simple design

assignments to complete identity packages developed within formal yet creatively accessible constraints. Students will present multiple solutions to each assignment, and then complete the assignments based on feedback from the teacher, who will act as a "real-life" client of the student.

Content and Methods: *Materials:* Students will use traditional and new techniques, including but not limited to paper and pencil, collage, and computer illustration. *Method*: The class will progress from simple composition and image creation exercises to fully realized design-based projects. Example assignments include a complete business identity, a web-based portfolio, as well as formal explorations of design problems.

Evaluation and Grading: Assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness, and meeting project deadlines.

9073
HONORS ART & DESIGN 1

Grades 10, 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Completion of Drawing 1 and instructor approval.

Goals and Objectives: This year-long course is offered for students that are interested in a more rigorous pursuit of fine art drawing practices and two-dimensional design techniques. The course combines and expands on the artistic elements and principles of drawing, two-dimensional design, graphic design, photography, and painting. Students will begin to develop their own style and technique through practice and experimentation with multiple artistic mediums and methods.

Content and Methods: The year-long course will be split into two semesters. Each semester will focus on specific aspects of art and design and be taught by a faculty member that specializes in these specific subjects. One semester will include lessons in drawing, two-dimensional design, and graphic design. One semester will include lessons in drawing, painting, and photography. Students will be taught different techniques within each genre. They will be given broad, open-ended assignments and be expected to utilize independent creative and critical thinking in order to complete the artworks in their own personal styles.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness, and project deadlines.

9074
HONORS ART & DESIGN 2

Grades 11, 12 / 2 Semesters / 1 Credit

Meets concurrently with AP 2D Design.

Prerequisites: Completion of two Visual Arts courses.

Goals and Objectives: This year-long course is offered for students that are interested in a more rigorous pursuit visual art practices and techniques. The course combines and expands on the artistic elements and principles of art and design, reproducible art, three-dimensional design, mixed media art, guerrilla or socially conscious art, installation, developing art in a series, and portfolio building.

Content and Methods: The year-long course will be split into two semesters. Each semester will focus on specific aspects of art and design and be taught by a faculty member that specializes in these specific subjects. One semester will include lessons in reproducible art, guerrilla/socially conscious art, three-dimensional design, and installation. One semester will include lessons in mixed media art, developing art in a series, and portfolio building. Students will be taught different techniques within each genre. They will be given broad, open-ended assignments and be expected to utilize independent creative and critical thinking in order to complete the artworks in their own personal styles.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic

development, idea development, exploration, studio awareness, and project deadlines.

9065
INTRODUCTION TO GRAPHIC DESIGN

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Drawing 1.

Goals and Objectives: In this class, students will be introduced the core concepts of visual design – visual elements, principles of design, picture plane, figure/ground relationships, scale and proportional transformation, patterning, composition, value, color, methods for conveying time, and spatial illusion. Using a wide variety of materials and methods, students are encouraged to develop their own design vocabulary and repertoire of practical techniques. Composition issues and strategies valid in all areas of visual design and the visual arts are explored through examples, exercises, critiques, and projects.

Content and Methods: *Materials:* Students will use traditional and new techniques, including but not limited to paper and pencil, printmaking, collage, screening, and computer illustration. *Method:* The class will progress from simple composition and image creation exercises to fully realized design-based projects. Drawing and rendering skills are helpful but not required; an interest in the visual language of design and creativity is a must.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness, and project deadlines.

9069
PAINTING

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites:

- Sophomore (to complete Fine Arts requirements) completion of Drawing 1.
- Sophomore/Junior/Senior - (as an elective) completion of Fine Arts requirements (2 semesters) in ANY genre(s).

Goals and Objectives: This course deals with the use of paint as an artistic form of expression and visual communication. The primary aim of the course is to teach students – even those who have never painted before – fundamental painting techniques. Students will learn to control the painter's materials, relate color, manipulate the perception of two and three-dimensional space, and also develop a basic vocabulary with regard to the qualities of paintings. The course also explores some of the historical and contemporary influences of painting and allows students to analyze and critique professional works, their own works, and the work of their peers.

Content and Methods: This course specifically covers both acrylic and oil paint and mediums. Most supplies, such as canvases and paint, are provided; however, some additional supplies may need to be purchased. Emphasis is on student work, discussion, and critique of the student projects.

Evaluation and Grading: An assessment of student performance in the course will be based on class work and development, finished paintings, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness, and project deadlines.

9068
FILM PHOTOGRAPHY

Grades 11, 12 / 1 Semester / .50 Credit

Note: ***Cameras are NOT provided. Each student must have or have access to a 35mm film camera that has manual focus, manual metering, and manual adjustments for both aperture and shutter speed.***

Prerequisites: Completion of Fine Arts requirements.

Goals and Objectives: This course is designed to stimulate visual creativity and contemporary artistic practices. This course is designed to teach the fundamental skills and basic techniques used in traditional black and white photography. This course covers basic camera operation, film processing, darkroom processing/printing, and compositional and design principles. Students will also be exposed to aesthetic and critical issues related to the medium of film photography. Emphasis will be placed upon aesthetic and visual concerns/outcomes, as well as craftsmanship and presentation.

Content and Methods: The course comprises technical lectures, darkroom demonstrations, lectures on historical and contemporary photographers/photography, in-class studio worktime, as well as class critiques that will guide the grading and learning process. The critique fosters development of an ability to verbalize visual concepts, and help students learn to see actively. Critiques are a time for articulating ideas and formal decisions, and for discovering how students' creative products communicate through larger systems of symbolism, visual associations, memory, metaphor, readings, and history. Students will be expected to generate expressive work, and to explore the intensity inherent in art making.

Students will:

- Learn the fundamentals of visual composition/aesthetics
- Operate a 35mm film camera and process/expose film correctly
- Demonstrate general knowledge of dark room responsibilities, such as loading and processing film and enlarging and developing prints
- Understand and use common photographic/artistic terms/concepts
- Be able to accurately critique/evaluate the artistic elements of photography
- Improve and push creative thinking

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness, and project deadlines.

9075
DIGITAL PHOTOGRAPHY

Grades 11, 12 / 1 Semester / .50 Credit

Note: ***Cameras are NOT provided. Students must have or have access to a Digital Camera that has manually adjustable settings and is capable of taking at least 5 mega pixel digital photographs.***

Prerequisites: Completion of Fine Arts requirements.

Goals and Objectives: This course is designed to stimulate visual creativity and contemporary artistic practices. This course is designed to teach the fundamental skills and basic techniques used in contemporary digital photography. This course covers basic camera operation, compositional and design principles, and fundamental digital photography editing software techniques. Students will be exposed to aesthetic and critical issues related to the medium of digital photography.

Content and Methods: The course comprises technical demonstrations, lectures on historical and contemporary photographers/photography, in-class studio worktime, and class critiques that will guide the grading and learning process. The critique fosters development of an ability to verbalize visual concepts, and help students learn to see actively. Critiques are a time for articulating ideas and formal decisions, and for discovering how students' creative products communicate through larger systems of symbolism, visual associations, memory, metaphor, readings, and history. Students will be expected to generate expressive work, and to explore the intensity inherent in art making.

Students will:

- Learn the fundamentals of visual composition/aesthetics
- Operate a digital camera
- Use photo editing software
- Understand and use common photographic/artistic terms/concepts
- Be able to accurately critique/evaluate the artistic principles of photography
- Improve and push creative thinking/problem solving

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness, and project deadlines.

9070
SCULPTURE

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites:

- Sophomore (to complete Fine Arts requirements) completion of Drawing 1.
- Sophomore/Junior/Senior - (as an elective) completion of Fine Arts requirements (2 semesters) in ANY genre(s).

FINE ARTS COURSE DESCRIPTIONS

Goals and Objectives: This course is designed specifically to allow students to work toward, experience, and experiment with three-dimensional structure. Students will explore the concept of solid art forms that have height, width, and depth by researching, analyzing, and constructing original sculpture. Students will:

- Understand 3D design principles such as form, structure, volume, visual balance, surface treatment, texture, composition, movement, and scale.
- Develop problem solving techniques and a visual vocabulary through an understanding of the creative process, personal aesthetic, and conceptual intent.
- Refine and develop their own sculptures through working models.
- Experiment with additive, subtractive, constructive, relief, and installation sculptural processes.

Content and Methods: The class deals with the elements of sculpture: form, space, mass, light. From the technical standpoint materials and methods of the sculptor are discussed, studied, and explored. Students will work with experimental and introductory techniques and materials; they will work with both addition and subtraction methods. Plaster, paper, wood, clay, wire, Styrofoam, and various other materials will be used. Students will be given assignments and be expected to research different artists and methods in order to help them visualize a number of directions in which the assignment might possibly be completed. At pre-announced times during the semester, group critiques will take place and all students are expected to participate in the discussions.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, sketches for project work, finished sculptural works, and student research. Grading criteria consists of work ethic, participation, attendance and punctuality, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness, and project deadlines.

9101

MULTI-MEDIA AND FILM

Grades 10, 11, 12 / 1 Semester / .50 Computer Science or Fine Arts elective credit

Prerequisites: Information Processing

Goals and Objectives: Visual literacy is growing in importance as technology is incorporated into our daily lives. This course offers students the opportunity to learn the skills needed to express ideas in various multi-media formats. This project-based class allows for student creativity while meeting the course objective. Projects will include: Sound editing; graphic design; 360-degree pictures; creating animations and filming & editing video. Students will create their own movies.

Content and Methods: This course is for students interested in hands-on use of the computer as a tool for expressing ideas and/or creating messages. Students will be introduced to the concept and use of Adobe Creative Suites: Flash/Animate, Premiere (video editing), Illustrator & Photoshop as well as Audacity (audio editing) software.

Evaluation and Grading: Lab assignments, presentations, group projects, and portfolio.

9102

ADVANCE GAME OR MULTI-MEDIA

Grades 11, 12 / 1 Semester / .50 Computer Science or Fine Arts elective credit

Prerequisites: Information Processing and at least one additional Computer Science elective.

Goals and Objectives: This course is designed as an independent study, project-based, semester elective that allows students to further develop their interest in the area of technology they are called to pursue. Students would present ideas for projects to develop throughout the semester and collaborate with the instructor on extent and expectations. Length and scope would vary.

Content and Methods: Project will be customized based on the student's interest and teacher input. Students will build upon the skills they have learned and engage in the creation of robust projects that connect to the world outside of the classroom. Students should be self-motivated and have the ability to problem solve.

Evaluation and Grading: Grades will be based on a variety of project-based assessments.

FINANCIAL LITERACY COURSE DESCRIPTIONS

FINANCIAL LITERACY

2601
FINANCIAL EDUCATION
Grade 11 / .50 Credit

This course can be completed during the fall semester of Junior year or during the summer between sophomore and junior year.

Goals and Objectives: This course prepares students to understand financial literacy concepts and how to make sound financial decisions. The course provides an overview of different types of insurance and how they protect individuals, explains how to create budgets and plan for unexpected expenses, and introduces investing.

Content and Methods: This course is an online course offered by Arrupe Virtual Learning Institute (AVLI). Students work independently through a series of course modules. There are 6 learning modules in the course followed by a synthesis exercise. The learning modules include:

- Introduction: Money and Markets Basics
- Budgeting, Saving, and Spending
- Investing
- Money Management – Credit and Risk
- Starting Out – Major Purchase Considerations

Evaluation and Grading: Students in the course will receive a pass/fail grade upon completion of all modules and correlating assessments.