



COURSE DESCRIPTION BOOK

ST. DOMINIC HIGH SCHOOL | 2020-21



31 St. Dominic Drive | O'Fallon, MO 63366 | (636) 240-8303 | www.stdominichs.org

College Admissions Requirements

Students are encouraged to take as much college preparatory curriculum as possible in order to maximize their post-secondary success. College preparatory curriculum can be helpful in preparing students for college entrance exams (i.e. ACT) and the workload of a college semester. Listed below are the admissions requirements for various universities. Keep in mind that these are a guideline and that other factors, such as ACT scores and class rank, can also factor into admissions decisions.

University of Missouri (Mizzou)

Math - 4 years
 English - 4 years
 Science - 3 years
 Social Science - 3 years
 Foreign Language - 2 years
 Fine Arts - 1 year

University of Central Missouri

Math - 4 years
 English - 4 years
 Science - 3 years
 Social Science - 3 years
 Fine Arts - 1 year

Truman State University

Math - 3 years
 *4 years *strongly* recommended
 English - 4 years
 Science - 3 years
 Social Science - 3 years
 Foreign Language - 2 years
 Fine Arts - 1 year

St. Louis University

Math - 4 years
 English - 4 years
 Science - 3 years
 Social Science - 3 years
 Foreign Language - 3 years
 Electives - 3 years

Coordinating Board for Higher Education (CBHE) Recommended College Preparatory High School Curriculum

English/Language Arts - 4 units
 Social Studies - 3 units
 Mathematics - 4 units*
 Science - 3 units
 Fine Arts - 1 unit
 Additional Coursework - 3 units **
 Electives - 6 units ***

*At least one mathematics course should be taken each year. It is particularly important that students take a mathematics course in grade 12.

**Missouri public high school students are required by the State Board of Education to complete units in practical arts (1), physical education (1), health education (1/2), and personal finance (1/2)

***All students should complete at least 3 total elective units in foreign language and/or other courses within high school core content areas defined below. Two units of a single foreign language are strongly recommended.

NCAA Eligibility

Classes at St Dominic are aligned to prepare students for NCAA athletics. Courses that are not aligned with NCAA eligibility requirements are noted as “not NCAA approved.”

Students are encouraged to make a profile with the NCAA clearinghouse (eligibilitycenter.org) if they intend to participate in collegiate athletics. Transcripts are uploaded by Mrs Dodge to NCAA clearinghouse. ACT scores must be submitted directly to NCAA by student request using code 9999.

Division I (2.3 Core GPA Requirement)

English - 4 years

Math - 3 years

Natural/Physical Sciences - 2 years

Additional English, Math, or natural/physical science - 1 year

Social Science - 2 years

Additional Academic Courses - 4 years

Division II (2.2 Core GPA Requirement)

English - 3 years

Math - 2 years

Natural/Physical Sciences - 2 years

Additional English, Math, or natural/physical science - 1 year

Social Science - 2 years

Additional Academic Courses - 4 years

REGISTRATION PROCESS

The registration process is a key component of the student's educational experience. As students prepare for each academic year, we expect them to take an active role in selecting their courses. Our College Guidance Coordinators meet with each student to review their individual 4-year plan. The College Guidance Coordinators facilitate building and implementing the 4-year plan by helping students select courses that meet their educational needs based on their gifts and talents.

For St. Dominic High School, the registration process helps us to make plans as far as staffing and allocation of resources go. Each year, departments review the courses that are offered and look to see if there are areas where we can add courses to better meet the needs of our students.

To graduate from St. Dominic High School a student must have earned 28 credits. Many of those 28 credits are met by taking the courses required by each department. Students have the opportunity to take elective courses to complete the remainder of the credits required to graduate. These courses give students the opportunity to pursue areas of study that interest them. Students may take as many as 8 credits per year or as few as 7 credits if they have a study hall scheduled for both semesters. Failure to complete 7 credits a year requires that the course be made up in summer school or in an approved correspondence course.

Students should seek the advice of parents, College Guidance Coordinators, and teachers to ensure that course selections meet the requirements for future educational plans. Contact should be made with colleges, universities or technical schools to determine the necessary admission requirements. It is important that students know their course selections should be made with future academic and career goals in mind. Consult each course description for any prerequisites for the course.

Below is a timeline for the registration process:

- Beginning the week of February 3rd College Guidance Coordinators will meet individually with each student to go over their four year course plan and review possible courses for next year.
- February 13th and 14th Parent signed registration forms are due to the Religion teachers.
- February 19th and 20th College Guidance Coordinators will assist students with the online course registration process.
- February 20th the \$300 registration fee is due.
- February 21st is the make-up day for any student to complete the registration process.

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GRADUATION REQUIREMENTS: A minimum of 28 credits is required to graduate from St. Dominic High School.

Religion - 4 credits	Science - 3 credits
English - 4 credits	Practical Art - 1 credit (including Personal Financial Management .5 credit)
Social Studies - 3 credits	Physical Education/Health - 1 credit
Mathematics - 3 credits	Fine Arts - 1 credit

The balance of the 28 credits may be electives.

In addition to academic requirements, students must maintain a satisfactory attendance and discipline record as defined by the school, meet all financial obligations to the school, complete one hundred hours of approved Christian service, and participate in the yearly prayer days and overnight retreat program. Students who do not meet these requirements will not graduate in May and may not participate in the graduation ceremony.

COURSE PLACEMENT: Course placement is based on standardized test scores, previous grades, and the advice of the student's College Guidance Coordinator, and parental approval. No placement changes occur without consulting the teacher, student, parents, and guidance department; and with permission of the Principal. If it becomes necessary to remove a student from a course for reasons other than ability level, the Principal will be the final judge in this matter.

COURSE CHANGES: Students are encouraged to work closely with their parents, teachers and college guidance coordinators when planning their course selections for the following year. This combined effort should eliminate the need to make a course change later. Once students have listed preferences, school resources are directed toward the choices made. Little flexibility exists after that for course changes.

The only course changes granted will be due to:

- Scheduling error
- Inappropriate course level
- Graduation requirements
- Health consideration
- Teacher recommendation

DUAL CREDIT PROGRAMS: College credit is earned by successfully completing and paying the college or university for the credits of the courses listed below. Eligibility requirements are listed in the course description along with the respective university course number.

St Louis University	056 Social Justice	3
	162 Honors American Literature	6
	172 Honors British Literature	6
	393 Honors French 3	3
	394 Honors French 4	6
University Missouri/St. Louis	382 Honors Spanish 3	5
	383 Honors Spanish 4	5
	395 Honors Spanish 5	3
University Missouri/St. Louis	262 Honors American Civilization	6
	265 Modern European History	3
	449 Honors Pre-Calculus	5
	462 Honors Calculus	5
	617 Honors Advanced Art	6
Truman State University	448 College Algebra	3
MO Univ. Science & Technology	981 Principles of Engineering	3
Missouri State University	740 Personal Finance Management	3
Drury University	971 Leadership	3

Advanced Placement test options

Honors Physics

Physics II

Psychology AP

Honors Chemistry 2

Computer Science Principles

GRADE SCALE FOR THE 2020-2021 SCHOOL YEAR:

A	93-100 %	4.0
A-	90-92.99 %	3.7
B+	87-89.99 %	3.3
B	83-86.99 %	3.0
B-	80-82.99 %	2.7
C+	77-79.99 %	2.3
C	73-76.99 %	2.0
C-	70-72.99 %	1.7
D+	67-69.99 %	1.3
D	63-66.99 %	1.0
D-	60-62.99 %	0.7
F	0-59.99 %	0

COURSE WEIGHT: Some honors and college credit courses weigh more heavily when the grade point average is calculated. The weight of each course is on the first line of the description following the grade level of the course. The maximum weight is plus 0.5.

ACADEMIC AWARDS: Academic certificates are awarded in May to all students who earn 3.70 on their cumulative grade point average. Scholastic letters are awarded to sophomores, juniors, and seniors who earn a cumulative G.P.A. of 3.70. In successive years, letter recipients earn pins. Medals are awarded in each department, as selected by the faculty, based on departmental criteria.

LATIN HONORS: At graduation, students are recognized based upon their cumulative weighted grade point average. Students eligible for Latin Honors must have attended St. Dominic High School for the junior and senior year. The grade point average is calculated on coursework completed only at St. Dominic High School. Honors will be awarded as follows:

Cumulative Grade Point

3.80 – 3.99	Cum Laude
4.00 – 4.19	Magna Cum Laude
4.20 and above	Summa Cum Laude

RELIGIOUS STUDIES CURRICULUM
Graduation requirement – 4 years

Course Title	9	10	11	12
015 The Revelation of Jesus Christ in Scripture	Required			
023 The Mission of Jesus Christ (Paschal Mystery)		Required		
024 Jesus Christ's Mission in the Church (Church's Mission)		Required		
022 Sacraments as Privileged Encounters with Jesus Christ			Required	
033 Life in Jesus Christ (Moral Teachings)			Required	
040 Eccumenical and Interreligious Issues (World Religions)				X
043 Responding to the Call of Jesus Christ (Christian Vocations)				X
044 Living as a Disciple of Jesus Christ in Society (Social Justice)				X
056 Living as a Disciple of Jesus Christ in Society (Social Justice)			X	X
052 History of the Catholic Church				X
051 Apologetics: How to Explain and Defend the Catholic Faith			X	X

015 The Revelation of Jesus Christ in Scripture/Who is Jesus (Revelations) – Grade 9 1.0 credit

This required course offers students a general knowledge and appreciation of the Sacred Scriptures. Through study of the Bible, students encounter the Living Word of God, Jesus Christ. Students learn how to read the Bible and become familiar with the major sections, books and people in Scripture. Emphasis is on the Gospels. Students are introduced to the Mystery of Jesus Christ, the Living Word of God. Emphasis is on Jesus Christ as the ultimate revelation from God. In learning about who Jesus Christ is, the students learn who He calls them to be.

023 The Mission of Jesus Christ (Paschal Mystery) – Grade 10 0.5 credit

The purpose of this required course is to help students understand all that God has done for us through His Son, Jesus Christ. Through this course of study, students learn that for all eternity God plans for us to share eternal happiness with Him through the redemption Christ won for us. Students learn that they share in this redemption only in and through Jesus Christ. They are introduced to what it means to be a disciple of Christ and what life as a disciple entails.

024 Jesus Christ's Mission in the Church (Church's Mission) – Grade 10 0.5 credit

The purpose of this required course is to help the students understand that in and through the Church, they encounter the living Jesus Christ. They are introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by Him through the Holy Spirit. The students

come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students learn not so much about events in the life of the Church but about the sacred nature of the Church.

022 Sacraments as Privileged Encounters with Jesus Christ – Grade 11 0.5 credit

The purpose of this required course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments and especially through the Eucharist. Students examine each of the sacraments in detail to learn how they may encounter Christ throughout life.

033 Life in Jesus Christ (Moral Teachings) – Grade 11 0.5 credit

The purpose of this required course is to help students understand that it is only through Christ that they can fully live out God's plan for their lives. Students learn the moral concepts and precepts that govern the lives of Christ's disciples. The study of morality begins with the Sacred Scriptures and the moral teachings of Jesus Christ.

Seniors are required to enroll in TWO of four semester-based religion courses:

040 Eccumenical and Interreligious Issues (World Religions) – Grade 12 0.5 credit

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

043 Responding to the Call of Jesus Christ (Christian Vocations) – Grade 12 0.5 credit

The purpose of this course is to help students understand the vocations of life: how Christ calls us to live. In this course, students learn how all vocations are similar and how they differ. This course is structured around married life, single life, priestly life, and consecrated life. Students learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.

044 Living as a Disciple of Jesus Christ in Society (Social Justice) – Grades 12 0.5 credit

This course introduces students to the Church's social justice teaching. In this course, students learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission. Social justice is presented as the Christian's personal response to societal values that may be contrary to Gospel values.

056 Living as a Disciple of Jesus Christ in Society (Social Justice) – Grades 11, 12; cc 0.5 credit

This course introduces students to the Church's social justice teaching. In this course, students learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission. Social justice is presented as the Christian's personal response to societal values that may be contrary to Gospel values. *This advanced college credit course satisfies the requirements for St. Louis*

University's THEO 2515 Social Justice. Prerequisite: 90th percentile in English and Reading on the most recent standardized testing and a 3.0 GPA. Payment is made directly to the University.

052 History of the Catholic Church - Grade 12

0.5 credit

The purpose of this course is to supply the students with a general knowledge of the Church's history from apostolic times to the present. Students learn that Christ founded the Church through the Apostles and is sustained through the Holy Spirit. In this course, students learn about the Church's 2,000-year history and how the Church is governed by the successors of the Apostles. The course looks at how the history of the world ties to the history of the Catholic Church.

ELECTIVE COURSE OPTIONS IN ADDITION TO THE REQUIRED RELIGION COURSES ABOVE:

051 Apologetics: How to Explain and Defend the Catholic Faith – Grades 11, 12

0.5 credit

This course allows students to understand how to defend the Catholic faith. In this course, students learn how to give a reasonable explanation and defense of the teachings of the Church in light of contemporary society's misunderstandings and objections. Using Scripture, Tradition, Church history, and philosophy, students learn how to effectively respond to the intellectual challenges of today's world.

ENGLISH LANGUAGE ARTS CURRICULUM
Graduation requirement – 4 years

Course Title	9	10	11	12
110 Grammar and Composition	X			
112 Literature and Composition 1	X			
113 Honors Literature and Composition 1*	X			
122 Literature and Composition 2		X		
123 Honors Literature and Composition 2*		X		
135 American Literature and Composition			X	
162 Honors American Literature and Composition*			X	
154 World Literature				X
155 Science Fiction				X
156 21 st Century Novels				X
157 Pop Culture Literature				X
163 Speech		X	X	X
164 Advanced Speech			X	X
172 Honors British Literature and Composition*				X
148 Creative Writing			X	X
159 Film Studies			X	X
971 Leadership			X	X
900 Yearbook		X	X	X
901 Journalism		X	X	X
903 Yearbook II			X	X
904 Journalism II			X	X
906 Yearbook III				X
905 Journalism III				X

110 Grammar and Composition – Grade 9

1 credit

In this year-long course, students will study a variety of literary types using a thematic approach, identify and clarify literary devices including plot structure, character, and figurative language, compose well-organized paragraphs, utilize grade-level vocabulary, identify textual evidence to support findings, compose formal writing using correct Modern Language Association (MLA) documentation, and use effective oral communication as both an audience member and presenter. Also included is a review of basic reading,

writing, speaking, and listening skills. Teaching methods and materials will be adjusted to those students who have had difficulty in reading comprehension and written communication.

112 Literature and Composition 1 – Grade 9

1

credit

This year-long course helps the student understand and appreciate various literary forms, such as the novel, short story, poetry, nonfiction, and drama. This course covers the following areas of the English curriculum: vocabulary development, grammar, and composition with an emphasis on writing five paragraph essays. Essay writing is focused on literary analysis, comparison-and-contrast, and test essays. Students are introduced to the research process, MLA Formatting and citation.

113 Honors Literature and Composition 1* – Grade 9, plus 0.5 weight

1 credit

This year-long course requires exceptional students with advanced reading proficiency to utilize critical thinking skills to read, examine, and analyze various subgenres of literature and informative texts by providing textual evidence to support connections among the literary elements and devices. Students engage in the writing process to compose a variety of essays for multiple audiences and purposes; including persuasive, comparison-and-contrast, problem-and-solution, and literary analysis. Students craft a formal research paper after the study and implementation of the research process, focusing on the evaluation and utilization of reliable sources, MLA format, and documentation skills. Students use spoken, written, and visual language to accomplish their own purposes while improving grammar and vocabulary skills through frequent intensive reading and writing assignments. Prerequisite: Score in the 90th percentile in Reading and ELA on Iowa Assessments (or equivalent standardized test) and an A/B in 8th grade Reading and English.

122 Literature and Composition 2 – Grade 10

1 credit

This year-long course provides instruction in composition, grammar and literature. Students will read a wide range of print and non-print texts from various historical periods and today including multiple genres so as to respond to the needs and demands of society, the workplace, and for one's own personal fulfillment. The course will also encourage critical thinking and analysis through a wide range of strategies used to comprehend, interpret, and evaluate texts. In addition, students will continue their development in writing using multiple strategies and different writing process elements to communicate with different audiences for a variety of purposes. The research process will be thoroughly examined as students conduct research on issues and interests by generating ideas, questions and by posing problems. They will gather, evaluate, and synthesize data from a variety of technological and informational resources (e.g. libraries, databases, computer networks, video, artifacts, and people) to communicate their discoveries. Presentations, using a variety of digital media, and class discussion round out the student's ability to communicate their purpose to the appropriate audience.

123 Honors Literature and Composition 2* – Grade 10, plus 0.5 weight

1 credit

This year-long course provides instruction in composition, grammar and literature. Students will read a wide range of print and non-print texts from various historical periods and today including multiple genres so as to respond to the needs and demands of society, the workplace, and for one's own personal fulfillment. The course will also encourage critical thinking and analysis through a wide range of strategies used to comprehend, interpret, and evaluate texts. In addition, students will continue their development in writing using multiple strategies and different writing process elements to communicate with different audiences for a variety of purposes. The research process will be thoroughly examined as students conduct research on issues and interests by generating ideas, questions and by posing problems. They will gather, evaluate, and synthesize data from a variety of technological and informational resources (e.g. libraries, databases, computer networks, video, artifacts, and people) to communicate their discoveries. Presentations, using a variety of digital media, and class discussion round out the student's ability to communicate their purpose to

the appropriate audience. In addition, the honors class offers students an accelerated pace and greater challenge in their writing assignments. The literature covered will be similar to that of 122 but will also include a great deal of supplemental reading and will be discussed in greater depth while emphasizing high levels of analytical skills. Prerequisite: 90th percentile on the most recent standardized testing in English and Reading and an A in 112 or an A/B in 113.

135 American Literature and Composition – Grade 11

1 credit

This year-long course provides a chronological approach to American literature and is designed to help the student examine and analyze various subgenres of American literature and informative texts. The course stresses reading comprehension through close reading and analysis of an author's purpose, character motivation, and symbolism in texts. The student uses critical thinking skills to synthesize themes and establish commonalities across multiple works while providing textual evidence in support of findings. The writing process, with special emphasis on thesis based essays and college application essays, focuses heavily on the craft and editing of writing. Students evaluate data and library resource materials to prepare an argumentative research paper using correct MLA documentation.

162 Honors American Literature and Composition* – Grade 11, college credit, plus 0.5 weight

1 credit

This year long course teaches the writing skills necessary to approach college assignments with competence and confidence. Students will write numerous essays using the basic strategies of Definition, Narration, Persuasion, and Description, while learning to apply these to topics ranging across the curriculum. In addition, students will compose a College Application essay. The spring semester focuses on the literary analysis of major American works. Students are expected to understand MLA format and college-level writing expectations. This advanced college credit course satisfies the requirements for St. Louis University's ENGL 1500: The Process of Composition (3 credits) in the fall semester and ENGL 2350: Faith, Doubt, and Literature (3 credits) in the spring semester. Fees for college credit will be paid directly to the University. Prerequisite: 90th percentile in English and Reading on the most recent standardized testing, an A in 122 or an A/B in 123, and an A assessment average in 122/123.

154 World Literature – Grade 12

0.5 credit

This semester long course is designed to expand the literary and cultural awareness of students by expanding their literary horizons with literature from parts of the world less commonly studied. Students will be assigned two novels as well as analyze smaller examples of world literature from an array of authors. Classroom discussions, essays, and a group teaching presentation will require students to think critically and professionally. An emphasis on formal writing/MLA expectations and the revision process is ongoing.

155 Science Fiction – Grade 12

0.5 credit

This semester course discusses science fiction in different forms such as novels, short stories, and films. Students will be assigned specific science fiction texts and a project based on a text of their choice. Classroom discussions, student essays, quizzes, and tests will require students to think critically about the material. Students will write multiple essays. Students will also have the opportunity to work through the revision process.

156 21st Century Novels – Grade 12

0.5 credit

This semester course asks students to engage with contemporary novels to recognize and understand the relationships between these novels to current culture. The class will also emphasize an analysis of a contemporary interpretation of different periods. In addition, attention to writing styles and literary techniques is highlighted. Students read specific novels written in the 21st Century. Students will write multiple essays. Students will also have the opportunity to work through the revision process.

157 Pop Culture Literature- Grade 12

0.5 credit

This course will look at music, film, television, and print as genres of popular culture and how each impacts our world today. The student will study what is meant by the words “popular culture” and develop their own ideas concerning how it affects our society in key areas such as race, religion, age, gender, and class. As students analyze music, film, television, and print as avenues to deliver mass ideas, they will examine the role pop culture plays in their own lives and pop culture’s influence on modern literature. Students will critically think and write about the social, economic, and political ramifications of pop culture on American society as well as analyze and discuss how ideas, values and beliefs are reflected within pop culture. Students will write multiple essays. Students will also have the opportunity to work through the revision process.

172 Honors British Literature* – Grade 12, college credit, plus 0.5 weight

1 credit

This year long course involves British literature from various genres and time periods. Writing projects, presentations, and class discussions are ongoing components. Students will apply rhetorical techniques within literary analyses, evaluate/interpret various pieces of British literature for rhetoric/conflict/social justice, understand the importance of oral communication, be aware of audience and its importance to successful communication, utilize formal/academic writing and MLA expectations, incorporate literary devices within writing/class discussion (with an emphasis on theme), and conduct research to be integrated into literary analyses. This advanced college credit course satisfies the requirements for St. Louis University’s ENGL 1900: Advanced Strategies of Research and Rhetoric (3 credits) in the fall semester and ENGL 2250: Conflict, Social Justice, and Literature (3 credits) in the spring semester. Fees for college credit will be paid directly to the University. Prerequisite: 90th percentile in English and Reading on the most recent standardized testing, an A in 135 or A/B in 162, and an A assessment average in 135/162

163 Speech – Grades 10, 11, 12

.5 credit

Speech, is a semester-long course, providing a basic study of verbal and nonverbal communication. It is a performance class in which students develop and perform a variety of public speaking events. This course develops confidence and competency skills in communication through formal speeches and presentations. Students will research and prepare independent speeches, as well as collaborate with other students for formal group presentations and discussions. Students will learn and practice verbal and non-verbal skills as key components of public speaking. Research and organizational skills will be core elements of this course.

164 Advanced Speech – Grades 11, 12

.5 credit

Advanced speech is a semester-long performance course that builds upon the nonverbal, written and oral communication skills taught in Speech. Students will research and write manuscripts, outlines, and debates for performance. Impromptu speaking, extemporaneous speaking, original oratory, mass communication, the art of rhetoric, debate, and real-world communication skills. Prerequisite: Successful completion of 163 Speech or 970 Communications.

The following courses are electives, which do not replace required English courses.

148 Creative Writing – Grades 11, 12

0.5 credit

This elective course explores all facets of the writing process from developing awareness to the creation and revision of poetry and short stories. The course is for those who are serious about writing, who enjoy the process of writing, and who wish to sharpen their powers of observation, explore their own experiences, and advance their writing skills and style.

159 Film Studies – Grades 11, 12

0.5 credit

This semester elective uses film in order to develop skills such as comprehension, interpretation, analysis, and communication. Most of the assignments will take the form of short essay responses focusing on the material viewed in class. There will be essays completed throughout the semester. The class will focus on building an understanding of various techniques, terms, and ideas specific to film as a medium. Dual Credit offering is pending.

971 Leadership – Grades 11, 12, college credit

0.5 credit

In this elective course, students will explore the belief that leaders are developed, not born. Activities and assignments include reading and reflecting on leadership theories, articles and quotes; interviewing/shadowing leaders; reading current leadership books for discussion; discovering personal talents; and working effectively to plan service projects for both the St. Dominic Community and for outside organizations. Students should expect frequent reading and writing projects. This advanced college credit course satisfies the requirements for Drury University's LDST 260 Fundamentals of Leadership I (3 credit hours) course. Prerequisites for this course include: ACT composite of 18 or GPA of 3.00. Payment is made directly to the university.

The following electives can count toward the Practical Art requirement:**900 Yearbook – Grades 10, 11, 12**

1 credit

This class is for the production staff of the yearbook. Students learn basic graphic design for page layout development, copy writing including captions and headlines. Students learn basic journalism skills such as interviewing, developing angles, and basic photography. Learning to use computer design techniques is an integral part of this course. Students need to be aware that this is a co-curricular class that will require after-school hours to complete deadlines satisfactorily. Prerequisite: application, teacher recommendations and a writing sample approved by the instructor.

901 Journalism – Grades 10, 11, 12

1 credit

The journalism course introduces students to all areas of journalism: interviewing, reporting, blogging, design, layout, graphics and photography. Students will become familiar with multimedia tools and gain the skills to become a writer for today's digitally based media. Students will learn to adhere to ethical values while at the same time refine and implement thinking, writing, and critiquing skills. All of this will culminate in the publication of an online school newspaper. Prerequisite: Interview information available in the Guidance Office.

903 Yearbook II –Grade 11, 12

1 credit

This is a year-long course that further expands and refines the course objectives outlined in Yearbook I. Additionally, students will improve their proficiency in desktop publishing, incorporate advanced design principles and continue to learn and utilize emerging technologies in yearbook design, style, and publication. This course is designed for highly-motivated students who are interested in assuming increased responsibility, developing decision-making skills and providing leadership in the overall process of yearbook production. Students need to be aware that this is a co-curricular class that will require after-school hours to complete deadlines satisfactorily. Prerequisite: Yearbook I and teacher approval.

904 Journalism II -Grades 11, 12

1 credit

In addition to enhancing their skills as reporters, students will further their knowledge of layout, design, photography and broadcasting. Students will continue to develop a more sophisticated level of journalistic writing while they facilitate the uninterrupted production of the school newspaper. Students will also be

expected to increase their role on the editorial staff and to participate in other key leadership positions for the newspaper. This course will require individuals to be present periodically at extracurricular events so as to give an accurate report. Prerequisite: 901 Journalism 1 and teacher approval.

906 Yearbook III – Grade 12

1 credit

This course further expands skills of yearbook journalism publication and provides opportunities to develop leadership skills. In this course, students are expected to demonstrate expertise in a variety of journalistic disciplines including reporting, writing, copy-editing, layout design, and photography. Students will make content decisions, manage staff deadlines, mentor staff members, and will learn a variety of organizational and management techniques to assist them in working with staff members. Students will also have the opportunity to hold Editor positions on the Torch Yearbook Staff. Students need to be aware that this is a co-curricular class that will require after-school hours to complete deadlines satisfactorily.

905 Journalism III – Grade 12

1 credit

Students taking this course will be responsible for leading a staff of their peers as they produce *Crusader Nation*, the school news magazine, sdhsnation.org, our news website and *Crusader Nation News*, our school broadcast. As editors, students will be expected to serve as role models for their staff members. Students will produce *Crusader Nation* and CNN during the school year, and they will work to continually improve and expand the Journalism program. In addition, they will oversee teams of students producing elements for the newspaper and broadcast in the areas of news, editorials, sports, features and entertainment, photography, art, and graphic design. Each member will be responsible for some aspect of production and editing. Student editors can expect to spend approximately many hours a month outside of class independently and/or during publication deadlines.

SOCIAL STUDIES CURRICULUM
Graduation requirement – 3 years

Course Title	9	10	11	12
232 US History	X			
222 World History		X		
224 Honors Big History*		X		
261 American Civilization			X	
263 Honors American Civilization*			X	
237 Psychology			X	X
238 Sociology			X	X
239 Contemporary Issues			X	X
241 Economics			X	X
243 American Government			X	X
245 Psychology II AP*			X	X
265 Modern European History*			X	X

232 US History – Grade 9

1 credit

This is a survey course of United States history from the colonial period to the modern era. Various social, economic, geographical, and political developments that have shaped United States history and culture will be examined. Students will use selected readings to view the events and institutions of United States history.

222 World History – Grade 10

1 credit

This course is a study of world history focusing on civilization, heritage and culture with emphasis on continuity and causality. Emphasis is on building student awareness of the increasing interdependence of the world's peoples, cultures and nations. This course also provides many opportunities for the student to improve reading and written communication skills.

224 Honors Big History* – Grade 10, plus 0.5 weight

1 credit

This honors level course has students engage in critical thinking, reading, writing, and discussion on the major concepts and themes of world history and the universe. Students will conduct interdisciplinary investigations and research projects around problems from history to the present and evaluate potential challenges for the future of human history. Prerequisite: 90th percentile in reading on the most recent standardized testing and a 90% average in 232.

261 American Civilization – Grade 11

1 credit

This survey course examines the evolution of the cultural tradition of the Americas from the earliest inhabitants to the modern era. Various social, economic, geographical, and political developments that have

shaped American history and culture will be examined. Emphasis will be placed on primary sources and development of historical arguments.

263 Honors American Civilization*- Grade 11, college credit, plus 0.5 weight 1 credit

This course is a study of the social, economic, and political development of the United States. Through the extensive use of primary sources and research, students will interpret events and institutions in U.S. history for the impact on its history and culture. This course also provides many opportunities for the student to improve reading and written communication skills. This honors college credit course satisfies the requirements for the University of Missouri – St. Louis HIST1001: American Civilization to 1865 (3 hours) and HIST1002: American Civilization 1865 to present, (3 hours) courses. Prerequisite: 90th percentile in reading on the most recent standardized testing and a 90% average in 222/224. . Payment is made directly to the university.

237 Psychology – Grades 11, 12 0.5 credit

This semester course examines human behavior and the various theories that propose to explain it. Students learn about the behavior of human nature and how to apply psychology in their lives. Topics include the goals and applications of psychology, different types of psychologists, learning and memory, childhood and adolescent development, social learning, parenting styles, personality development, and abnormal psychology and therapy.

238 Sociology – Grades 11, 12 0.5 credit

Sociology is the study of society and social interaction. Students become familiar with various theoretical approaches to understanding society in order to view social institutions and the units composing society from different perspectives. Students study culture, social behavior, social interaction and relationships, discrimination, social roles, social change, and a variety of topics that help explain our society functions and social causes of behavior.

239 Contemporary Issues – Grades 11, 12 0.5 credit

Using current events, this elective course focuses on world and local issues that affect students' everyday lives, such as economics, government and conflict. This course uses newspapers, online media, cartoons, and newscasts to support class discussion. Additionally students participate in presentations and work with primary source materials and opinion pieces in order to better understand the world around them. This discussion based class will also include regular short essays on the current topics covered.

241 Economics – Grades 11, 12 0.5 credit

This semester course examines economics with a mixture of theory and application. Topics include scarcity, supply and demand, measuring the economy, money and banking, globalization, and the role of government in the economy. The course will use practical and current information to explain economic concepts. Students will read articles, tables, charts, and statistics to find information.

245 Psychology II AP* – Grade 11, 12, plus 0.5 weight 1 credit

The AP Psychology course involves a rigorous academic curriculum that is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. By enrolling in this course students agree to take the Advanced Placement Psychology Test and

must incur the cost of the test. Prerequisite: 80% in English and Reading in the most recent standardized testing.

243 American Government – Grade 11, 12, college credit

0.5 credit

This semester course is an introduction to basic concepts of government and politics with special reference to the United States, but including comparative material from other systems. With the use of text, primary sources, and current events, students analyze their government and interpret its effectiveness. Topics include constitutional influences, civil rights, civil liberties, policymaking, and the political process. College credit is available through University of Missouri –St. Louis as it meets the requirements for Political Science 1100: Introduction to American Politics (3 hours). Payment is made directly to the university.

265 Modern European History* – Grades 11, 12, college credit, plus .05 weight

0.5 credit

Beginning with 1715 through the present time, this course investigates the root causes of global conflicts, the rise of militarism, nationalism, and colonialism in Europe, as well as major technological advancements, and political and social movements that shape modern society. Emphasis is on the Reformation, age of absolutism, the Enlightenment, eighteenth and nineteenth century politics, culture and warfare, the World Wars, the Cold War, globalization, and modern rights movements. This honors college credit course satisfies the requirements for the University of Missouri –St. Louis HIST1032: Topics in European Civilization: 1715-present (3 hours). Payment is made directly to the university. Prerequisite: 90th percentile in reading on the most recent standardized testing and a 90% average in most recent social studies class.

WORLD LANGUAGE CURRICULUM
Graduation Requirement - 3 years

Course Title	9	10	11	12
365 Spanish 1	X	X	X	
366 Honors Spanish 1*	X	X	X	
367 Spanish 2		X	X	X
368 Honors Spanish 2*	X	X	X	X
382 Honors Spanish 3*		X	X	X
383 Honors Spanish 4*			X	X
395 Honors Spanish 5*				X
375 French 1	X	X	X	X
377 French 2		X	X	X
378 Honors French 2*	X	X	X	X
393 Honors French 3*		X	X	X
394 Honors French 4*			X	X
396 Honors French 5*				X

365 Spanish 1 - Grades 9, 10, 11

1 credit

Students receive an introduction to the Spanish language and Hispanic culture. The variety of materials and teaching methods used in class will make possible the development of the four language skills: listening, speaking, reading, and writing. In addition to learning to read, write and converse at the novice-mid level, students will gain information about the influences and geography of Spanish speaking cultures. Prerequisite: Composite score on ITBS of 30th percentile and/or an A/B in English and Spanish (if offered).

366 Honors Spanish 1* - Grades 9, 10, 11 plus 0.5 weight

1 credit

Students receive an accelerated introduction to the Spanish language and Hispanic culture. The variety of materials and teaching methods used in class will develop the four language skills: listening, speaking, reading, and writing. Emphasis is on reading, conversation, understanding of grammar, and production of language at the novice-mid level. The class will provide an accelerated learning environment to the highly motivated beginning Spanish student. Prerequisite: ELA score on ITBS of 90th percentile and A/B in previous Spanish course. For incoming freshmen, a placement test is available.

367 Spanish 2 – Grades 10, 11, 12

1 credit

This course reinforces and builds on the vocabulary, grammar, and culture learned in Spanish 1. Students will continue to develop reading and listening comprehension skills, writing and speaking abilities at the novice-high level. In addition they will build upon their knowledge of the Hispanic culture. Prerequisite: Successful completion of 365 Spanish 1 or 366 Honors Spanish 1.

368 Honors Spanish 2* – Grades 9, 10, 11, 12, plus 0.5 weight 1 credit

This course reinforces and builds on the vocabulary, grammar and culture learned in Spanish 1. Students will further develop complex reading, listening, writing and speaking abilities at the novice-high level. Additionally, their knowledge of the cultures of the Spanish-speaking world will increase through higher-level lessons, activities and projects. Prerequisite: 93% or above in 365 Spanish 1 or 83% or above in 366 Honors Spanish 1. For incoming freshmen, a placement test is available.

382 Honors Spanish 3* – Grades 10, 11, 12, college credit, plus 0.5 weight 1 credit

Material covered is the equivalent of a first semester college course in Spanish composition and conversation. Students achieve greater fluency through meaningful communicative activities, creative compositions and cultural readings. The grammatical structure of the language is more intensely studied. Students achieve the intermediate-low fluency level through meaningful communicative activities, creative compositions and cultural readings. This advanced college credit course satisfies the requirements for the University of Missouri – St. Louis SPANISH 1001: Spanish Language and Culture I (5 credits) course. Payment is made directly to the university. Prerequisite: 83% in 368 Honors Spanish 2 or 93% in 367 Spanish 2.

383 Honors Spanish 4* – Grades 11, 12, college credit, plus 0.5 weight 1 credit

Material covered is the equivalent of a second semester college course in Spanish composition and conversation. Meaningful communicative activities strengthen speaking skills, while creative compositions and projects improve writing ability and improves students' fluency to the intermediate-mid level. This advanced college credit course satisfies the requirements for the University of Missouri – St. Louis SPANISH 1002: Spanish Language and Culture (5 credits) course. Payment is made directly to the university. Prerequisite: 80% in 382 Honors Spanish 3.

395 Honors Spanish 5* - Grades 12, college credit, plus .5 weight 1 credit

Material covered is the equivalent of a third semester college course in Spanish acquisition. In this course we will continue to develop communicative skills in the Spanish language, reaching an intermediate-high level. Communication requires abilities in four skills that will be nurtured in this course: listening, speaking, reading, and writing. Many aspects of Hispanic culture will be presented, explored and assessed. Conversations and written compositions will be based on Spanish or Latin American literature, scholarly or contemporary texts, and a variety of historical and cultural topics. This advanced college credit course satisfies the requirements for the University of Missouri - St. Louis SPANISH 2101: Spanish Language and Culture (3 credits) course. Fees for college credit will be paid directly to the University. Prerequisite: 80% in 383 Honors Spanish 4.

375 French 1 – Grades 9, 10, 11, 12 1 credit

Students acquire the foundation of fluency in the French language. Through active participation in class and use of integrated technology tools students develop listening, speaking, reading and writing skills in contexts that are meaningful for basic communication in multiple real-world situations. Students' language production and comprehension in French will be at the novice-mid level. Global awareness is enhanced through the study of the cultures of French speaking populations in North and South America, the Caribbean, the South Pacific, Asia, Africa and Europe.

377 French 2 – Grades 10, 11, 12 1 credit

This course builds on the foundation of French 1 with increased emphasis on active speaking participation, expanded vocabulary, reading facility and listening comprehension. Students' language production and comprehension in French will be at the novice-high level. Integrated technology tools offer exposure to culturally relevant material for awareness of customs and current events in the French-speaking populations

in North and South America, the Caribbean, the South Pacific, Asia, Africa and Europe. Prerequisite: Successful completion of 375 French 1. For transfer students, a speaking placement test with the instructor will also be required.

378 Honors French 2* – Grades 9, 10, 11, 12, plus 0.5 weight 1 credit

This course builds on the foundation of French 1 to enhance speaking and comprehension skills that incorporate complex grammatical structures and expanded vocabulary. Students' language production and comprehension in French will be at the novice-high level. Honors quality unit research projects further develop reading facility and fluency in communication. Integrated technology tools offer real-time access to current events and cultural influences in the French-speaking populations in North and South America, the Caribbean, the South Pacific, Asia, Africa and Europe. Prerequisite: A in 375 French 1 and/or teacher approval.

393 Honors French 3* - Grades 10, 11, 12, college credit, plus 0.5 weight 1 credit

Students refine their speaking and writing skills through multimedia based study of current events, culture, art, history and literature. Equal emphasis is placed on practical applications of language to be effective in today's global environment. Supplemental iPad projects stimulate fluency and increase comfort with expressing needs and ideas in French. Students' language production and comprehension in French will be at the intermediate-low level. This advanced college credit course satisfies the requirements for the Saint Louis University FREN 1010: Communicating in French I second semester (3 credits). Payment is made directly to the university. Prerequisite: A/B/C in 378 Honors French 2.

394 Honors French 4* - Grades 11, 12, college credit, plus 0.5 weight 1 credit

Language skills and cultural competency are strengthened through discussions of literature and films that enrich the study of current events, history, and culture. Literary selections develop an appreciation for the diversity of French speakers. Students' language production and comprehension in French will be at the intermediate-mid level. This advanced college credit course satisfies the requirements for the Saint Louis University FREN 1020: Communicating in French II (fall, 3 credits) and FREN 2010: Intermediate French: Language and Culture (spring, 3 credits). Payment is made directly to the university. Prerequisite: A/B/C in 393 Honors French 3.

396 Honors French 5* - Grade 12, college credit, plus 0.5 weight 1 credit

Language skills and cultural competency are strengthened through discussions of literature and films that enrich the study of current events, history, and culture. Literary selections develop an appreciation for the diversity of French speakers. Students will thoroughly analyze the literary and cinematic material presented. Honors quality unit research projects and presentations further develop students' fluency in the French language. Students' language production and comprehension in French will be at the intermediate-high level. College credit may be available.

Criteria for 5th year French or Spanish students: must have a cumulative 3.0 GPA in third and fourth levels of foreign language, approval from the language instructor, be aware that the student will work completely independently and will need to establish a program of study with the instructor.

MATHEMATICS CURRICULUM
Graduation requirement – 3 years

Course Title	9	10	11	12
412 Algebra 1	X			
413 Honors Algebra 1*	X			
422 Geometry		X		
423 Honors Geometry*	X	X		
442 Math Topics			X	
432 Algebra 2 / Trigonometry		X	X	X
433 Honors Algebra 2 / Trigonometry*		X	X	X
435 Statistics			X	X
441 Prep College Algebra			X	X
448 College Algebra			X	X
449 Honors Pre-Calculus*			X	X
462 Honors Calculus*				X

412 Algebra 1 – Grade 9

1 credit

This course gives an understanding of the basic structure of algebra. Algebraic concepts include linear and simple quadratic equations; graph simple linear, exponential, absolute value, and quadratic equations; variable inequalities, scientific notation, systems of equations, monomials, polynomials and probability problems.

413 Honors Algebra 1* – Grade 9, plus 0.5 weight

1 credit

This course gives an understanding of the basic structure of algebraic concepts, linear and simple quadratic equations, graph equations, variable inequalities, scientific notation, system of equations, simple probability problems, monomials and polynomials, quadratic graphs and functions, and quadratic equations. Prerequisite: 90th percentile or higher in math on the most recent standardized testing and A/B in the last math class.

422 Geometry – Grades 10

1 credit

This course studies points, lines, planes, triangles, polygons, quadrilaterals, circles, areas and volumes. By studying postulates, corollaries, and theorems, students develop inductive and deductive reasoning skills needed to solve problems in this course. Prerequisite: successful completion of an approved high school Algebra I program.

423 Honors Geometry* - Grades 9, 10, plus 0.5 weight

1 credit

This course studies points, lines, planes, triangles, polygons, quadrilaterals, circles, areas, volumes, two column deductive proofs, trigonometric relationships, and special triangles. Students will be required to use more algebra in this class to solve problems than is required in 422. By studying postulates, theorems, and corollaries, students develop inductive and deductive reasoning skills needed to solve problems in this course. Prerequisites: 90th percentile in math on the most recent standardized testing, an A in 412 Algebra I or 413 A/B in Honors Alg. I.

442 Math Topics – Grades 10, 11 (does not meet NCAA approval) 1 credit

Students will refresh the study of algebraic topics begun in Algebra 1. Some Algebra 2 topics, such as factoring polynomials, solving equations and inequalities, and graphing functions will be discussed. Financial mathematics will also be discussed. Applying mathematical understanding to daily encounters with numbers will be stressed.

432 Algebra 2/Trigonometry – Grades 10, 11, 12 1 credit

This course extends the algebraic concepts developed in Algebra 1. Students will graph and solve linear, quadratic, polynomial, exponential, rational, logarithmic and radical functions. Students will also study and use the trigonometric functions to solve right triangles, solve oblique triangles (Law of Sines and Law of Cosines) and find trig values of general angles. Graphs of circles will also be explored and problem-solving strategies will be emphasized. Prerequisites: Successful completion of an approved high school Algebra 1 program.

433 Honors Algebra 2/Trigonometry* – Grades 10, 11, 12, plus 0.5 weight 1 credit

This course extends the algebraic concepts developed in Algebra I. Students will graph and solve quadratic, polynomial, exponential, rational, logarithmic, and radical functions; the study of trigonometric functions, graphs of trigonometric functions, trigonometric identities, conic sections; and sequences and series. Prerequisite: 90th percentile in math on the most recent standardized testing, an A in Geometry 422 or an A/B in Honors Geometry/Trig 423, and an A assessment average in 422/423. If this course is taken simultaneously with Geometry 422 or Honors Geometry 423, then requirements include 90th percentile in math on most recent standardized testing, an A in Algebra 1 412 or A/B in Honors Algebra 1 413 and with teacher/counselor approval for dual math courses.

435 Statistics – Grades 11, 12 1 credit

Using real world situations and applications, this course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics will also include relationships between variables and randomness and probability. Prerequisite: Successful completion of 432/433 Algebra 2.

441 Prep College Algebra – Grades 11, 12 1 credit

This course is designed to provide an aggressive consolidation of high school mathematics and creates the needed groundwork to succeed in a college algebra course. A review and study of algebraic topics including equations and inequalities, algebraic, polynomial, rational, and quadratic functions, working with radicals, and systems of equations and inequalities. It is recommended that students have a scientific calculator. Prerequisite: Successful completion of 432/433 Algebra 2.

448 College Algebra – Grades 11, 12, college credit 1 credit

This is a course leading toward 3 hours of college credit from Truman State University. A review and study of algebraic topics including equations and inequalities, algebraic, exponential, and logarithmic functions, systems of equations and inequalities. Emphasis is placed on application and review of skills. Students are required to have a non-graphing calculator on the first day of class through the entire course. This advanced college credit course satisfies the requirements for Truman State University's MATH 156: College Algebra (3hours) course. Prerequisite: B or better in 432/433 Algebra 2. Payment is made directly to the university.

449 Honors Pre-Calculus* – Grades 11, 12, college credit, plus 0.5 weight

1 credit

This course continues to prepare students for advanced math courses taken either at St. Dominic or at the collegiate level. Topics covered in this course include factoring, radicals, and rational exponents. In addition, students will study linear functions, equations and inequalities; polynomial functions, equations and inequalities; rational functions, equations and inequalities; exponential and logarithmic functions and equations; and systems of equations. The trigonometry topics covered include triangle trigonometry and its applications; trigonometric and inverse trigonometric functions; trigonometric identities and equations, graphing of trigonometric functions; vectors and polar coordinates. This advanced college credit course satisfies the requirements for the University of Missouri - St. Louis MATH 1045 Pre-Calculus (5 credit hours). Prerequisite: A- or better in 433. Payment is made directly to the university.

462 Honors Calculus* – Grade 12, college credit, plus 0.5 weight

1 credit

A study of plane analytic geometry, limits, continuity, the derivative for functions of a single variable, differentials, indefinite and definite integrals, the Fundamental Theorem of Calculus, and applications of the derivative and integral. This advanced college credit course satisfies the requirements of University of Missouri - St. Louis MATH 1800 Analytic Geometry and Calculus 1 (5 credit hours). Prerequisite: B or better in 449. Payment is made directly to the university.

SCIENCE CURRICULUM
Graduation requirement – 3 years

Course Title	9	10	11	12
522 Biology	X			
523 Honors Biology*	X			
511 Physical Science		X		
532 Chemistry			X	
533 Honors Chemistry*		X	X	
534 Honors Chemistry II*			X	X
536 Investigative Sciences			X	X
537 Environmental Science			X	X
539 Earth Science			X	X
540 Human Anatomy & Physiology			X	X
542 Physics			X	X
562 Honors Human Anatomy & Physiology*			X	X
564 Honors Physics*			X	X
544 Honors Physics II*				X

522 Biology – Grade 9

1 credit

This course is the study of living things. Science as inquiry is studied. The topics include scientific problem solving, microscopic investigation, properties of life, biochemistry, cellular organization, metabolism, cell reproduction, genetics, biotechnology, ecosystems, diversity of species and the environment. The dissection lab unit focuses on a comparison of the biological details that define groups of organisms.

523 Honors Biology* – Grades 9, plus 0.5 weight

1 credit

This course is a challenging examination of the aspects of living things and the processes vital to their existence. Topics include metabolism, cell structure and functions, cell reproduction, heredity, basic biochemistry, and plant biology. There is a special emphasis on the human perspective of biology. The course provides a background in biological principles that students need to evaluate the impact of biotechnology on their lives. Prerequisite: Composite of 90th percentile on the most recent standardized testing or Iowa Assessments; and/or A/B in English 113 or A in English 112.

511 Physical Science – Grade 10

1 credit

Physical Science is a full-year course that investigates and explores the fundamentals of physics and chemistry. Students will study force, motion, energy, properties of matter, atomic structure, and chemical reactions through classroom instruction, projects, and laboratory experiments. Students are encouraged to explore the relationship between science and everyday life by examining the physical world around them.

532 Chemistry – Grades 11

1 credit

Students study basic concepts of chemistry that include atomic structure, matter and its properties and changes, the periodic chart, chemical reactions, solutions, and nuclear chemistry. Laboratory exercises and experiments teach students the basic characteristics of matter and the world around us. Elements, compounds, and mixtures are used by students or demonstrated by the instructor. Current scientific issues and problems are discussed. Prerequisite: Successful completion of Biology 522/523 and concurrent enrollment in Algebra II or Honors Geometry.

533 Honors Chemistry* – Grades 10, 11, plus 0.5 weight

1 credit

This course is a demanding exploration of general chemistry. Laboratory exercises and problem-solving activities are an integral part of this course. Through varied learning opportunities and projects students will study concepts such as the characteristics of matter and how it relates to the world around us, atomic theory, the periodic table of elements, chemical bonding, the chemistry of compounds and solutions, the gas laws, and radioactivity. Current scientific events and issues are explored. Prerequisite: A/B in Honors Biology; A/B in Honors Geometry and/or Honors Algebra 2/Trigonometry (or concurrent enrollment in Honors Geometry or Honors Algebra 2/Trig).

534 Honors Chemistry II* – Grade 11, 12, plus 0.5 weight

1 credit

This is an intensive course with topics covering, but not limited to, atomic structure, bonding, stoichiometry, reactions (including nuclear and d-block), thermochemistry, kinetics, equilibria, and electrochemistry. Laboratory experiments are an integral component of the course. Prerequisites: A/B in Honors Chemistry or A in Chemistry and A/B in Honors Algebra 2 or A in Algebra 2. Advanced placement test is available for students who take this class.

536 Investigative Sciences – Grades 11, 12

1 credit

In this laboratory-based course, the student assumes the role of laboratory researcher. Students learn investigative laboratory techniques through training labs, work in “teams” through hands-on activities, and solve science related problems.

537 Environmental Science – Grades 11, 12

1 credit

To be responsible citizens of the 21st century, students in this course will come to understand that the earth is one interconnected system that provides humans with a multitude of natural resources and services. There are increasing demands on this system due to population growth and development of technologies. Students in this course study the impact on the environment and its ability to recover, as well as methods of conservation and sustainable use of these resources.

539 Earth Science – Grades 11, 12

1 credit

Earth Science is a full-year course that investigates and explores the fundamentals of the concepts of Earth Science, Meteorology, and Geology through classroom instruction, projects, and laboratory experiments. Students are encouraged to explore the relationship between science and the world around them.

Prerequisite: Successful completion of Physical Science.

540 Human Anatomy & Physiology – Grades 11, 12

1 credit

This course covers the general anatomy and physiology of the human body. The intent of this course is to foster a sense of awareness of the functions of the human body, from the level of the cell through the level of the whole organism. The dissections of preserved animal organs are used throughout the course for the study of anatomy. Prerequisite: C or better in Biology 522/523 and completion or concurrent Chemistry 532/533.

542 Physics – Grades 11, 12

1 credit

This rigorous course provides students with the basic concepts and principles of physics. Topics include velocity, acceleration, energy, momentum, forces, sound, light, and electricity. Prerequisites: Concurrent enrollment in 449 Honors Pre-calculus or higher.

562 Honors Human Anatomy & Physiology* – Grades 11, 12, plus 0.5 weight 1 credit

This demanding course studies the activities that are characteristic of living matter within the human body. It includes a detailed explanation of the physiology and anatomy of the systems of the body. The intent is to foster self-awareness of the functions of the human body, from the level of the cell through the level of the whole organism. The dissections of preserved animal organs are used throughout the course for the study of anatomy. Prerequisite: 90th percentile in reading on the most recent standardized testing, A/B in Honors Biology 523, A/B in Honors Chemistry 533.

564 Honors Physics* – Grades 11, 12, plus 0.5 weight 1 credit

This demanding course is math-based and studies the laws of motion, energy, dynamics, machines, heat, hydraulics, electricity, waves, light, and optics. Prerequisite: Concurrent enrollment in 449 Honors Pre-calculus or higher and an A/B in 533 Honors Chemistry. Advanced Placement Physics A test (algebra based) is available for students who take this class.

544 Physics II –Grade 12, plus weight 0.5 1 credit

Honors Physics 2 is a demanding algebra-based, introductory college-level physics course that is a continuation of where Honors Physics 1 leaves off. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; Pressure-Volume diagrams and probability; electrostatics; electrical circuits; magnetic fields; electromagnetism; physical and geometric optics; quantum, atomic, and nuclear physics. Advanced placement test is available for students who take this class. Prerequisite: B or better in 564 Honors Physics 1.



Course Title	9	10	11	12
771 Computer Science Essentials	X	X	X	
776 Cybersecurity		X	X	X
770 Computer Science Principles		X	X	X
980 Introduction to Engineering Design	X	X	X	
981 Principles of Engineering		X	X	X
810 Principles of Biomedical Science	X	X		

771 Computer Science Essentials (CSE) – Grades 9, 10, 11 (Practical Art) 1 credit

Computer Science Essentials exposes students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. Students use visual, block based programming and seamlessly transition to text-based programming with languages such as Python® to create apps and develop websites, and learn how to make computers work together to put their design into practice. They apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

776 Cybersecurity - Grades 10, 11, 12 (Practical Art) 1 credit

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

770 Computer Science Principles (CSP) AP – Grades 10, 11, 12 (Practical Art) 1 credit

Express your creativity through code. Using Python® as a primary tool, students work in teams to develop computational thinking to solve problems and create value for others. Develop, analyze, implement, and test programs developed for a purpose. Learn to uncover patterns in data, protect data, and explore how the internet connects the world in which we live. Students will learn the fundamentals of coding, data processing, data security, and automating tasks. This course prepares students to excel on the AP Computer Science Principles exam, giving students the opportunity for college credit. Prerequisite: 771 CSE

980 Introduction to Engineering Design– Grades 9, 10, 11 (Practical Art) 1 credit

Introduction to Engineering Design™ (IED) is appropriate for high school students who are interested in design and engineering. The major focus of the IED course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives students the opportunity to develop skills and understanding of course concepts through activity, project, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills, creative abilities and understanding of the design process. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education. The course assumes no previous knowledge, but students should be concurrently enrolled in Geometry and an upper level science. Students use a state of the art 3D solid modeling design software package to help them design solutions to solve proposed problems which will increase in difficulty throughout the course. Students will also learn how to document their work, and communicate their solutions to their peers and members of the professional community. Introduction to Engineering Design is one of three foundation courses in the Project Lead the Way high school pre-engineering program.

981 Principles of Engineering– Grade 10, 11, 12 (Practical Art) 1 credit

Principles of Engineering students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment. It gives them an opportunity to learn about different engineering disciplines before beginning postsecondary education. Principles of Engineering students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. College credit available. Prerequisite: Successful completion of 980 Introduction to Engineering Design.

810 Principles of Biomedical Science – Grade 9, 10 (Science Elective) 1 credit

In the introductory course in the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine the factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. Prerequisite: Concurrent enrollment in Honors Biology or Completion of 523 with an A/B.

VISUAL AND PERFORMING ARTS CURRICULUM
Graduation requirement – 1 year of Fine Art

Course Title	9	10	11	12
611 Introduction to Art	X	X		
612 Art 1	X	X		
613 Art 2		X	X	X
617 Honors Advanced Art*			X	X
608 Digital Art		X	X	X
618 Lettering & Design			X	X
622 Mixed Chorus	X	X		
623 Concert Choir		X	X	X
625 Honors Concert Choir*			X	X
626 Introduction to Music Performance	X	X		
633 Concert Band	X	X	X	X
634 Honors Concert Band*			X	X
636 Music Theory & Composition			X	X
639 Music Appreciation			X	X
644 Introduction to Theater	X	X		
647 Improvisation	X	X	X	X
649 Actor's Studio I	X	X	X	X
650 Actor's Studio II	X	X	X	X
651 Theatre Design and Technology	X	X	X	X
653 Advanced Studio/Directing Theatre		X	X	X

611 Introduction to Art – Grades 9, 10

0.5 credit

Students are introduced to the visual arts, elements of art and principles of design through readings and discussion in the resource text *ArtTalk*. This is interspersed with lecture and studio experiences. This course is a nice balance of academic and studio experiences. There are quizzes, tests, and research papers.

612 Art 1 – Grades 9, 10

1 credit

This year long course may be chosen by the serious art student in place of 611. The program provides opportunities for students to develop skills in studio production, art history, and critical thinking. Students

purchase some supplies. Although primarily a studio course, there will be some academic material, quizzes, tests, and sketchbook assignments. Prerequisite: Successful completion of the Art 1 Application (available in the Guidance Office).

613 Art 2 – Grades 10, 11, 12

1 credit

Art 2 students continue to develop and refine skills learned in Art 1 as well as learn more in depth the various art processes, skills in handling various media, and higher-level problem solving. Students are responsible for providing most of their art supplies. There will be some academic material, quizzes, tests, and sketchbook assignments. Prerequisite: A/B in 612 Art 1.

617 Honors Advanced Art* – Grades 11, 12, college credit, plus 0.5 weight

1 credit

Honors Advanced Art is designed for those students who have successfully completed Art 1 and 2, or a previous year of Honors Advanced Art. Students will develop mastery in concept, composition, and execution of ideas. Students will use a variety of mediums, techniques, and approaches in art to develop concepts and ideation. This course includes studio problems in both two-dimensional and three-dimensional design. Students will explore and understand the foundations of visual thinking. Formulaic solutions to problems are discouraged. This advanced college credit course satisfies the requirements for University of Missouri-St. Louis's STUDIO ART 1150: 2D DESIGN: Surface (3 credits) course and STUDIO ART 1151: 3D DESIGN: Space (3 credits) course. Fees for college credit will be paid directly to the University. Prerequisite: A/B in Art 2 or Honors Advanced Art.

608 Digital Art – Grades 10, 11, 12

0.5 credit

This semester course is for the student who would like to learn techniques for digital art. This class will explore a variety of apps and incorporate digital photography, collage, and layers all using the iPad. Activities will include working with paints, pencils, pastels and other art media digitally. Emphasis is on composition, the elements of art, and principles of design in guided hands-on digital art projects. There is homework in this course.

618 Lettering and Design – Grades 11, 12

0.5 credit

This course is for the student who would like to learn techniques for freehand lettering and design. Studio projects range from individual and expressive lettering to very structured formal calligraphy and could include bio-poems, illuminated lettering, calligrams and other design projects. Formal calligraphy is taught for approximately 1/3 of the semester. Students are required to purchase their own supplies. There is homework in this course.

622 Mixed Chorus – Grades 9, 10

1 credit

This course is designed for students in their first year of participating in a high school ensemble. Students will learn the basics of singing and reading music. Since this is a performance class, the Mixed Chorus will sing in four concerts during the school year. After successfully completing Mixed Chorus for one year, students are eligible to enroll in Concert Choir. Prerequisite: Sophomores interested in this course are required to audition for enrollment in the course.

623 Concert Choir – Grades 10, 11, 12

1 credit

Concert Choir offers an opportunity for serious vocal students to participate in a performing ensemble. Students review the fundamentals of music and rhythm, as well as style and technique. Emphasis is placed on music reading and elements of choral technique, such as breathing, phrasing and blending. Developing a positive stage presence is essential since students are required to perform in four concerts during the school

year. If a freshman has choral experience he/she may audition for concert choir. Prerequisite: Successful completion of 622 Mixed Chorus or approval by instructor.

625 Honors Concert Choir* – Grades 11, 12, plus 0.5 weight 1 credit

This course is for the more advanced singer. In addition to meeting the expectations of the Concert Choir requirements, students must prepare and audition for the District Honors Choir, and prepare and perform a solo in the District Music Festival. They must also enroll in weekly private lessons conducted by an instructor approved by the classroom teacher. Students are required to perform in four concerts during the school year. The instructor must approve applications for Honors Concert Choir.

626 Intro to Music Performance – Grades 9, 10 0.5 credit

This course introduces students to basic skills in performance, using the recorder and piano. Students are introduced to basic music theory and history.

633 Concert Band – Grades 9, 10, 11, 12 1 credit

This course develops skills of playing a musical instrument in a group dynamic. The Concert Band performs in four concerts during the school year. The band also performs at pep rallies, football games, basketball games, community events, and music festivals. Prerequisite: Participation in band at the student's previous school or approval of the music director. Taking this course allows student to participate in the Jazz Band.

634 Honors Concert Band* – Grades 11, 12, plus 0.5 weight 1 credit

This course develops skills of playing a musical instrument in a group dynamic. The Concert Band performs in four concerts during the school year. The band also performs at pep rallies, football games, basketball games, community events, and music festivals. In addition to meeting the expectations of the Concert Band, students must prepare and audition for the District Honors Band. Students must prepare and perform a solo in the District Music Festival. Students must also be enrolled in weekly private lessons conducted by an instructor approved by the classroom teacher. Taking this course allows students to participate in the Jazz Band. The instructor must approve applications for Honors Concert Band.

636 Music Theory & Composition – Grades 11, 12 0.5 credit

This course provides students with the ability to analyze and compose music. Keys, scales, harmony, and chord structure are emphasized.

639 Music Appreciation – Grades 11, 12 0.5 credit

This semester course introduces students to the music and lives of composers from various musical periods and cultures. It introduces students to both the elements and the history of music.

644 Introduction to Theater – Grades 9, 10 0.5 credit

This beginning level, survey course is designed for both the student new to drama and the student with a general background in theatre. Students will enter the exciting world of theater both on stage and behind the scenes. During this participatory class, students will study the origin and history of theatre as well as the study of all basic theatre elements from performance, voice, and diction to the basics of technical theatre including sound, props and simple costumes. Collaborative group and individual work is used to develop skills.

647 Improvisation – Grades 9, 10, 11, 12 0.5 credit

In this beginning level daily participatory class, the student actor will become proficient in improvisation, end of the spot reacting to develop basic acting skills and stage movement. Emphasis will not be on memorization,

but on the training of the performer to create characters and to respond spontaneously and appropriately to given situations and characterizations. Students will create original characters, learn the basic rules of the stage and perform daily.

649 Actor's Studio– Grades 9, 10, 11, 12

0.5 credit

This participatory, beginning level class is for the beginning actor who enjoys live stage performance. The developing actor will learn acting skills, perform in class, and evaluate theatrical works. Theatre experiences outside of class are required during the semester (attending theatrical performances, participating in theatre productions). Students will participate in pantomime, improvisation, perform monologues, duet scenes, and selections from quality plays from various time periods to show the relationship between theatre and culture. Although improvisation is used, the memorization of both monologues and scenes will be required. Students will perform at open house and on the Evening of the Theatre.

650 Actor's Studio II – Grades 9, 10, 11, 12

0.5 credit

Actor's studio II is an intermediate level course that builds upon acting skills learned in Actor's Studio. The class is an exploration of characterization through different methods and styles of acting, using classical literature and plays, audition skills and the rehearsal process. Students will apply skills from Studio I and new skills to the creation of theatrical productions which will be performed for in-school and out-of-class audiences. Students will also examine the wealth of children's literature and its adaptability to live performances to create and perform based on children's stories/books, prepared scripts, as well as storytelling performances. Students in Actors Studio II will participate in a required Evening of Theatre and the Shakespeare Monologue Competition. Rehearsals will take place during class time with two evening performance for a grade. Prerequisite: Actors Studio I 649.

651 Theatre Design And Technology – Grades 9, 10, 11, 12

0.5 credit

This intermediate level course will survey major areas of technical theatre and elements of design. Students will participate in the analysis, design, production, and critique of the theatre process that includes set, set painting, costume, lighting, sound, makeup, and props, business, house and theatre management. Students will learn the basics of color and design elements and will design for a specific show. Collaboration and problem-solving are fundamental aspects of the course. Students will be encouraged to be part of the crew for a school production.

653 Advanced Studio/Directing Theatre – Grades 10, 11, 12

0.5 credit

Advanced Studio Theatre is an advanced course for the serious performer or director. Students who take the course will create a portfolio that can be used in college and/or professional theatre auditions. Students have the option of selecting an area of emphasis – performing or directing. Students will have the opportunity to direct other students in scenes and a one act performance for the Evening of Theatre. Students that have taken Theatre Design and Technology may take this class with an emphasis in advanced technical projects by selecting an area of specialization to work on for the school productions and the Evening of Theatre. The class, as an artistic ensemble, will develop and perform for outside audiences. Productions will vary each semester. Theatre experiences outside of class are required including Evening of Theatre and Shakespeare Monologue Competition. Prerequisite: Actor's Studio I and II or Theatre Design and Technology.

BUSINESS/COMPUTER SCIENCE CURRICULUM
Graduation requirement – 1 year of Practical Art

Course Title	9	10	11	12
754 Applications of Technology	X	X	X	
733 Intro to Business	X	X		
735 Accounting 1			X	X
739 Personal Financial Management +				required
740 Personal Financial Management* +				required
745 Entrepreneurship			X	X
762 Honors Accounting 2*				X

+ Please note – only one of these two courses is required.

754 Applications of Technology – Grades 9, 10, 11 Practical Art 0.5 credit
 Students will learn to apply various technology options for electronic communication, word processing, presentation and spreadsheet creation. Students will use the Office Suite, iPad applications and websites to prepare documents and presentations. The elements of digital citizenship will be incorporated.

733 Introduction to Business – Grades 9, 10 Practical Art 0.5 credit
 This semester course introduces the world of business and helps prepare the student for the economic roles of consumer, worker and citizen. Students develop an understanding and appreciation of American and global business.

735 Accounting 1 – Grades 11, 12 Practical Art 1 credit
 This comprehensive one-year course presents the basic principles of the accounting cycle for both a service business and a merchandising business. Students will learn to plan, summarize, analyze and interpret financial statements. Spreadsheets will be integrated. This course is recommended for any student who is interested in a career in business. Prerequisite: completion or concurrent enrollment in 432 Algebra 2.

739 Personal Financial Management – Grade 12 Practical Art 0.5 credit
 This course prepares students to handle their personal finances after high school including banking, credit, insurance, investing, saving and budgeting, and employment. This course will provide students with the concepts and critical thinking skills to understand the effects of financial decisions on individuals, families and society.

740 Personal Financial Management – Grade 12, college credit Practical Art 0.5 credit
 This college credit semester course is designed to cover the same concepts of money management, banking, credit, investing and insurance as 739. This course satisfies the requirements for the Missouri State University – FIN 150 (3 hours). Prerequisites for college credit: unweighted GPA of 3.0. Payment is made directly to the university.

745 Entrepreneurship – Grades 11, 12

Practical Art

0.5 credit

This course will teach the principles of starting a business through creating a business plan, financing a business, legal aspect, human resources, marketing and management.

762 Honors Accounting 2* – Grade 12, plus 0.5 weight

Practical Art

1 credit

This course is for students who plan to continue their education in accounting or other business administration areas and to broaden and improve knowledge about business procedures and use of accounting records. Students will learn to apply spreadsheets to accounting applications. Dual Credit offering is pending. Prerequisite: A/B in Accounting 1.

PHYSICAL EDUCATION/HEALTH CURRICULUM
Graduation requirement – Physical Education and Health

Course Title	9	10	11	12
921 Physical Education 1 – Girls	X	X		
922 Physical Education 1 - Boys	X	X		
912 Health	X	X	X	X
916 Strength Training		X	X	X
954 Team Sports		X	X	
956 Lifetime Sports				X
915 Lifetime Fitness				X

Physical Education 1 and Health are required graduation requirements. Physical Education 1 and Health are also prerequisites for all other Physical Education courses. Only two PE classes per year allowed.

921 Physical Education 1 – Girls – Grades 9, 10

0.5 credit

This semester course will focus on total physical fitness, which includes muscular strength and endurance, cardiovascular endurance, flexibility and an understanding of body composition. Student progress will be maintained in a portfolio monitoring personal growth and development.

922 Physical Education 1 – Boys – Grades 9, 10

0.5 credit

This semester course will focus on total physical fitness, which includes muscular strength and endurance, cardiovascular endurance, flexibility and an understanding of body composition. Student progress will be maintained in a portfolio monitoring personal growth and development.

912 Health – Grades 9, 10, 11, 12

0.5 credit

This semester course will focus on the importance of individual and family health. The units will include health and wellness, mental, physical and social health, nutrition and fitness and substance abuse.

916 Strength Training – Grades 10, 11, 12

0.5 credit

This course is designed to accommodate all students to help develop power, core strength, cardiovascular endurance, muscular strength and muscular endurance, and overall physical conditioning.

954 Team Sports – Grades 10, 11

0.5 credit

This course includes activities in team sports and individual sports. Teamwork, group spirit, and respect for individual differences are emphasized. Activities include softball, volleyball, soccer, football, basketball, and hockey.

956 Lifetime Sports – Grade 12

0.5 credit

This class focuses on activities students can participate in throughout their lives: bowling, golf, disc golf, tennis, badminton, pickleball, and recreational games. Certain activities require off campus classes. Students will submit an application to the P.E./Health Department, Dean of Student Services, and Principal for approval. There is a fee for this class to cover expenses.

915 Lifetime Fitness – Grade 12

0.5 credit

This class focuses on fitness activities that students can do throughout their lives: walk, jog, yoga, Pilates, aerobics, hiking and other healthy lifelong fitness activities. Certain activities require off campus classes. Students will submit an application to the P.E./Health Department, Dean of Student Services, and Principal for approval. There is a fee for this class to cover expenses.