



2025-26

# **COURSE DESCRIPTION BOOK**



**ST. DOMINIC**  
**HIGH SCHOOL**

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

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## 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.

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:**

- For incoming students (current 8th graders), they will receive initial course placement with their acceptance packet in late January/early February that contains more specific information and dates for their registration process. Their registration date is Tuesday, February 11th.
- For current St. Dominic High School students, beginning the first week of February, College Guidance Coordinators will meet individually with each student to go over their four year course plan and review possible courses for next year. Juniors will meet individually with their College Guidance Coordinator during the month of January as they plan for their senior year and receive their registration form the first week of February.
- February 14th Parent signed registration forms are due to the student's English teacher.
- February 19th and 20th College Guidance Coordinators will assist students with the online course registration process.
- February 24th the \$300 registration fee is due and should be paid online.

**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. No change will be made after the *first three sessions* of the class unless it is teacher/school initiated. The only course changes granted will be due to: Scheduling error, inappropriate course level, graduation requirements, health consideration or a teacher recommendation.

**GRADUATION REQUIREMENTS:** A minimum of 28 credits are required to graduate from St. Dominic High School. The St Dominic High School graduation requirements below align with the recommended college preparatory high school curriculum by the Coordinating Board for Higher Education (CBHE).

<b>Theology</b> - 4 credits*	<b>Science</b> - 3 credits
<b>English</b> - 4 credits*	<b>Practical Art</b> - 1 credit (including PFM)
<b>Social Studies</b> - 3 credits	<b>Physical Education/Health</b> - 1 credit
<b>Mathematics</b> - 3 credits	<b>Fine Arts</b> - 1 credit

*The balance of the 28 credits may be electives.*

*\*Students must take a minimum of 1.0 credit per year.*

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.

**CREDIT RECOVERY:** If a student fails a course at St. Dominic High School, they may be required to enroll in a summer credit recovery program at either their local public school district or an approved online program by their College Guidance Coordinator in which case the cost would be the responsibility of the family. This decision will be made and communicated with the student and family by their College Guidance Coordinator based on the students' graduation requirements. For example, a student must enter their sophomore year with 7.0 credits, junior year with 14.0, and senior year with 21.0, in addition to meeting core class requirements within those years. Students who are considered "credit deficient" in these aforementioned areas may be dismissed from St. Dominic High School if they do not recover the credit(s) needed as designated by their College Guidance Coordinator prior to entering the next school year. Credit attainment is not accepted by St. Dominic High School; meaning students may not take a course outside of St. Dominic High School for additional credit beyond their enrolled credits during the school year, such as summer PE, Health, etc. Courses may only be taken for recovery of a failed course/credit. Finally, students are not allowed to retake a course at St. Dominic High School to recover a credit. For example, if a student fails 2nd Semester Algebra 1 their Freshman year, they may not recover that credit by taking 2nd Semester Algebra 1 during their Sophomore year at St. Dominic High School. That credit would need to be recovered during summer credit recovery through the aforementioned path.

**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 in Missouri. 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 credits  
English - 4 credits  
Science - 3 credits  
Social Science - 3 credits  
Foreign Language - 2 credits  
Fine Arts - 1 credit

**St. Louis University**

Math- 4 credits  
English- 4 credits  
Science- 3 credits  
Social Science- 3 credits  
Foreign Language- 3 credits  
Fine Arts- 1 Credit

**Truman State University**

Math - 3 credits (4 recommended)  
English - 4 credits  
Science - 3 credits  
Social Science - 3 credits  
Foreign Language- 2 credits  
Fine Arts- 1 credit

**GRADE SCALE FOR THE 2025-2026 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, which is added to the earned grade according to the SDHS grading scale.

**ACADEMIC AWARDS:** Academic certificates are awarded in May to all students who earn 3.70 on their cumulative weighted grade point average. Scholastic letters are awarded to second year recipients who earn a cumulative weighted 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 at least one full year. To earn Latin Honors a student must complete a number of semesters in advanced course work. Advanced course work is defined as a course that is weighted or is dual credit. The grade point average is calculated on coursework completed only at St. Dominic High School. **Honors will be awarded as follows:**

Semesters of Advanced Coursework	Cum Laude Grade Point Average	Magna Cum Laude Grade Point Average	Summa Cum Laude Grade Point Average
12	3.80-3.99	4.00-4.19	4.20 and above



# St. Dominic High School College & Career Readiness Programming Timeline

## 12th Grade

- Fall:**
- SCOIR 12th Orientation
  - College Fair & Junior/Senior Parent Night
  - College & Career Counselor Meeting (Part 6)

- Winter:**
- Alumni/Graduate Panel
  - FAFSA Frenzies
  - College & Career Counselor Meeting (Part 7)

- Spring:**
- Build My Future Trades Fair

### Additional Programming Opportunities

- ACT Boot Camp
- ACT Prep & Tutoring
- Career/Trades Speakers
- Weekly College Rep Empower Hour Visits
- A+ Monitoring & Notifications
- AP/Dual Credit Guidance

## 11th Grade

- Fall:**
- SCOIR 11th Orientation
  - College Fair & Junior/Senior Parent Night
  - College & Career Counselor Meeting (Part 4)
- \*PSAT Testing*

- Winter:**
- College & Career Counselor Meeting (Part 5)
  - Alumni/Graduate Panel

- Spring:**
- Junior Class College & Career Prep Workshop Series (Empower Hour)
  - ACT District Testing (All Juniors)
  - Build My Future Trades Fair
  - Common App Essay Lesson with English Dept.

## 10th Grade

- Fall:**
- SCOIR 10th Orientation
  - SCOIR PrinciplesYou
- \*PSAT Testing*

- Winter:**
- College & Career Counselor Meeting (Part 2 & 3)

- Spring:**
- Sophomore College Visit Trip
  - PreACT Testing & Career Map
  - PreACT Parent Review Meeting

## 9th Grade

- Fall:**
- MO Connections
  - Career Cluster Inventory
  - College & Career Counselor Meeting (Part 1)

- Winter:**
- 4-Year Plan Completion Counselor Meeting

- Spring:**
- PreACT 8/9 Testing & Career Map
  - A+ Introduction Meeting
  - PreACT Parent Review Meeting

## 8th Grade

- Spring:**
- PreACT 8/9 Testing & Career Map



# FIND YOUR FUTURE IN THESE CAREER PATHS

St. Dominic High School - Guidance Office

## Foundation Knowledge & Skills Academic & Technical Skills

TEAMWORK • CAREER DEVELOPMENT • INFORMATION & TECHNOLOGY APPLICATION • PROBLEM SOLVING  
CRITICAL THINKING • EMPLOYABILITY • ETHICS • SYSTEMS • SAFETY, HEALTH & ENVIRONMENT  
LEGAL RESPONSIBILITIES • COMMUNICATION

### ARTS & COMMUNICATION (Creative Path)

#### ARTS, A/V TECHNOLOGY & COMMUNICATIONS

AUDIO & VIDEO TECHNOLOGY & FILM  
PRINTING TECHNOLOGY  
PERFORMING ARTS  
JOURNALISM & BROADCASTING  
TELECOMMUNICATIONS  
VISUAL ARTS

### RELIGIOUS SERVICES (Faith Path)

#### VOCATIONS

PRIESTHOOD  
RELIGIOUS LIFE

#### PARISH MINISTRY

YOUTH MINISTER  
MUSIC MINISTER  
PASTORAL ASSOCIATE  
DIRECTOR OF EVANGELIZATION  
LITURGY DIRECTOR

#### SCHOOL MINISTRY

DIRECTOR OF RELIGIOUS EDUCATION  
CAMPUS MINISTER  
RELIGION TEACHER

#### CHARITABLE WORK

SOCIAL JUSTICE  
PROLIFE MINISTRY  
CATHOLIC CHARITIES  
CATHOLIC PUBLISHING

### BUSINESS, MANAGEMENT & TECHNOLOGY (Business Path)

#### FINANCE

ACCOUNTING  
BUSINESS FINANCIAL MANAGEMENT  
FINANCIAL & INVESTMENT PLANNING  
BANKING SERVICES  
INSURANCE SERVICES

#### INFORMATION TECHNOLOGY

NETWORK SYSTEMS  
INFORMATION SUPPORT & SERVICES  
INTERACTIVE MEDIA  
PROGRAMMING & SOFTWARE DEVELOPMENT

#### MANAGEMENT & ADMINISTRATION

MANAGEMENT  
FINANCIAL MANAGEMENT  
HUMAN RESOURCES  
BUSINESS ANALYSIS  
ADMINISTRATIVE INFORMATION

#### MARKETING, SALES & SERVICES

ENTREPRENEURSHIP  
SALES & MARKETING  
BUYING &  
MERCHANDISING  
E-MARKETING  
MARKETING COMMUNICATIONS & PROMOTION  
MARKETING INFORMATION & RESEARCH  
DISTRIBUTION & LOGISTICS

## HEALTH SERVICES (Health Path)

### HEALTH SCIENCE

- BIOTECHNOLOGY RESEARCH & DEVELOPMENT
- THERAPEUTIC SERVICES
- DIAGNOSTICS SERVICES
- HEALTH INFORMATION
- SUPPORT SERVICES

## HUMAN SERVICES (Helping Path)

### HUMAN SERVICES

- EARLY CHILDHOOD DEVELOPMENT
- COUNSELING & MENTAL HEALTH SERVICES
- FAMILY & COMMUNITY SERVICES
- PERSONAL CARE SERVICES
- CONSUMER SERVICES

### HOSPITALITY & TOURISM

- RESTAURANT & FOOD & BEVERAGE SERVICES
- RECREATION & ATTRACTIONS
- TRAVEL & TOURISM
- LODGING

### EDUCATION & TRAINING

- ADMINISTRATION & ADMINISTRATIVE SUPPORT
- PROFESSIONAL SUPPORT SERVICES
- TEACHING & TRAINING

### GOVERNMENT & PUBLIC ADMINISTRATION

- PUBLIC MANAGEMENT & ADMIN.
- GOVERNANCE
- NATIONAL SECURITY
- FOREIGN SERVICE
- PLANNING
- REVENUE & TAXATION
- REGULATION

### LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

- CORRECTION SERVICES
- EMERGENCY & FIRE MANAGEMENT
- SECURITY & PROTECTIVE SERVICES
- LAW ENFORCEMENT
- LEGAL SERVICES

## INDUSTRIAL & ENGINEERING TECHNOLOGY (Building & Fixing Path)

### STEM

- SCIENCE
- MATH
- ENGINEERING
- TECHNOLOGY

### TRANSPORTATION, DISTRIBUTION & LOGISTICS

- TRANSPORTATION OPERATIONS
- LOGISTICS PLANNING & MANAGEMENT
- WAREHOUSE OPERATIONS
- DISTRIBUTION OPERATIONS
- FACILITY & EQUIPMENT MAINTENANCE
- TRANSPORTATION SYSTEMS
- INFRASTRUCTURE PLANNING
- TRANSPORTATION REGULATIONS
- HEALTH & SAFETY MANAGEMENT
- SALES & SERVICES

### ARCHITECTURE & CONSTRUCTION

- DESIGN & PRE-CONSTRUCTION
- CONSTRUCTION
- MAINTENANCE & OPERATION
- PROJECT MANAGEMENT

### MANUFACTURING

- PRODUCTION
- PRODUCTION PROCESS DEVELOPMENT
- MAINTENANCE, INSTALLATION & REPAIR
- QUALITY ASSURANCE
- LOGISTICS & INVENTORY CONTROL

## NATURAL RESOURCES & AGRICULTURE (Nature Path)

### AGRICULTURE & NATURAL RESOURCES

- FOOD PRODUCTION
- FOOD PROCESSING SYSTEMS
- PLANT SYSTEMS
- ANIMAL SYSTEMS
- POWER, STRUCTURE & TECHNICAL SYSTEMS
- NATURAL RESOURCES
- ENVIRONMENTAL SYSTEMS
- AGRIBUSINESS SYSTEMS



### St. Dominic High School Unofficial 4-Year Plan

AREA/CREDITS REQ.	Freshman	Sophomore	Junior	Senior Year
<b>THEOLOGY (4.0)</b>	Revelation	Paschal Mystery & Church Mission	Sacraments & Morality	Choose 1.0 from List of Options
<b>ENGLISH (4.0)</b>				
<b>SOCIAL STUDIES (3.0)</b>				
<b>MATH (3.0, *4.0)</b>				
<b>SCIENCE (3.0)</b>				
<b>WORLD LANGUAGE (2.0)</b>				
<b>FINE ART (1.0)</b>				
<b>PRAC. ART (1.0)</b>				*Personal Financial Management
<b>PE (.5) and HEALTH (.5)</b>				
<b>Elective Courses/Credits</b>				

**Theology:** Students are required to take 4 years of Theology courses. For Freshmen-Juniors, there are specific required courses taken each year. Seniors choose 1.0 credit from the 8 offered courses in Theology to meet their final credit requirement.

**English:** Students are required to take 4 years of English courses. For Freshmen-Juniors, there are specific required courses taken each year (Lit/Comp 1, Lit/Comp 2, and Lit/Comp 3 which is also called American Literature). As Seniors, students choose 1.0 credit from a variety of courses including a year long course or two semester long courses.

**Social Studies:** Students are required to take 3.0 credits of Social Studies, which includes a course in Government where the student must pass a U.S. Constitution Test and a Missouri Constitution Test. This will be completed their Junior year in American Government. Students must also complete a course in World History and U.S. History.

**Math:** Students are required to take 3.0 credits of Math for graduation, however, it is highly recommended for students to take Math all four years. Many 4-Year universities as shown in the Course Description Book will require 4 years of Math. Some students choose to take two Math courses, both Honors Geometry and Honors Algebra 2, as a Sophomore so that they can take Honors Calculus as a Senior. This would be the only recommendation as a reason to take two math courses as a Sophomore.

**Science:** Students are required to take 3.0 credits of Science for graduation. Students will take a level of Biology as a Freshman, and then depending on their Math Placement will either take Physical Science as a sophomore or Honors Chemistry as a Sophomore. Students who take Physical Science as a Sophomore will take Chemistry as a Junior. Many of the Science courses are tied to the student's Math Placement so please refer to the Course Description Book for those prerequisites.

**World Language:** It is strongly recommended that students take two credits of the same world language in consecutive years for most college admissions. Students will likely meet this recommendation by the end of their sophomore year.

**Fine Arts:** Students are required to complete 1.0 credit of Fine Arts (also referred to as Visual & Performing Arts) for graduation and to meet college admissions requirements. These courses include Art, Theater and Music courses.

**Practical Arts:** Students are required to complete 1.0 credit of Practical Arts. As part of that 1.0 credit, though, they must pass Personal Financial Management\* which is a 0.5 credit course taken your Senior year at St. Dominic High School. Practical Art courses include not only Business, Journalism and Yearbook courses, but also Building Trades courses, Project Lead the Way courses in Computer Science and Engineering, as well as the Principles of Biomedical Sciences course.

**Physical Education/Health:** Students are required to take 0.5 Credit in Physical Education (Boys PE or Girls PE) and 0.5 Credit in Health. Both of these courses are usually taken Freshman year, but in some cases during a student's Sophomore year.

**Electives/Remaining Credits:** St. Dominic High School requires 28 credits to graduate. If you add up the graduation requirements above, it would come out to 22 credits. The other 6 credits would come from courses/areas of your choice. Those could be additional courses in any of these areas, sometimes called core electives such as Biomedical courses in Project Lead the Way, a fourth year Science such as Anatomy and Physiology or Honors Chemistry II, Yearbook as an English Elective, Psychology or Sociology courses for additional Social Studies electives, Apologetics in Theology, etc.

**Study Halls:** Study Halls do not count as a credit. However, because we offer 8 credits per year, students are able to take a Study Hall every semester of high school if they choose, and still meet the required 28 credits (7 credits per year x 4 years) for graduation. If a student did not take a Study Hall at any point in their four years at St. Dominic High School, they would graduate with 32 credits, 4.0 more credits than they need to meet our graduation requirement but with plenty of opportunities to obtain college credit and/or explore their career pathways.

#### **ENGLISH FOUR YEAR EXAMPLES**

<b>College Prep</b>	Literature/Comp 1	Lit/Comp 2	American Literature	1.0 Required as Senior from List of Options
<b>Honors</b>	Honors Lit/Comp 1	Honors Lit/Comp 2	English AP Language and Composition	1.0 Required as Senior from options, including AP Honors Literature and Composition
<b>Students who may need more resources.</b>	Grammar & Composition	Lit/Comp 2	American Literature	1.0 Requires as Senior from List of Options

#### **SOCIAL STUDIES THREE YEAR REQUIREMENTS/EXAMPLES**

<b>College Prep</b>	U.S. History	World History	American Government + 0.5 Social Studies from list of Options <i>(Constitution Test Passed)</i>	<i>3.0 Requirement Met, Optional Choices Here.</i>
<b>Honors</b>	Honors U.S. History	AP World History	Honors American Government + 0.5 Social Studies from list of Options <i>(Constitution Test Passed)</i>	<i>3.0 Requirement Met, Optional Choices Here.</i>

**MATH FOUR YEAR EXAMPLES**

<b>Beginning in Algebra 1</b>	Algebra 1	Geometry	Algebra 2	Recommended 4th Year in College Algebra, Prep College Algebra or Statistics.
<b>Beginning in Honors Algebra 1</b>	Honors Algebra 1	Honors Geometry/Trig	Honors Algebra 2/Trig	Recommended 4th Year in College Algebra or Honors Pre-Calculus
<b>Beginning in Honors Geometry</b>	Honors Geometry	Honors Algebra 2/Trig	Honors Pre-Calculus	Recommended 4th Year in Honors Calculus
<b>How do I take Calculus as a Senior when starting in Algebra 1?</b>	Algebra 1 or Honors Algebra 1	Honors Geometry/Trig AND Honors Algebra 2/Trig	Honors Pre-Calculus	Recommended 4th Year in Honors Calculus
<b>For Students who may need additional Math Resources.</b>	Algebra 1 & possible Math Lab (Lab counts as an Elective Credit)  Science- Biology	Geometry & possible Math Lab (Lab counts as an Elective Credit)  Science- Physical Sc.	Algebra 2 & possible Math Lab (as an elective credit).  Science- Options of Earth, Environmental or Investigative Science.	Recommended 4th Year of Math in Prep College Algebra.  Science- Chemistry
<b>For Students who did not take and/or struggled in 8th Grade Algebra 1.</b>	Algebra 1A  Science- Biology	Algebra 1B  Science- Physical Sc.	Geometry with a Geometry Math Lab  Science- Options of Earth, Environmental or Investigative Science.	Recommended 4th Year in Algebra 2 with possible Math Lab.  Science- Chemistry

**SCIENCE THREE YEAR REQUIREMENTS/EXAMPLES**

<b>SCIENCE <u>without</u> Honors Math</b>	Biology or Honors Biology	Physical Science	Chemistry	3.0 Requirement Met, Optional Choices Here.
<b>SCIENCE <u>with</u> Honors Math</b>	Biology or Honors Biology	Honors Chemistry	Choice of Junior Level Science, including Honors Chemistry II, Honors Physics 1, Honors A & P	3.0 Requirement Met, Optional Choices Here.
<b>How do I take Honors Physics II as a Senior?</b>	Biology or Honors Biology	Honors Chemistry or Physical Science.  Must have an A in regular Math & Science courses or A/B in Honors.	Honors Physics 1 and enrolled in Algebra 2 or higher Math.	Honors Physics II with Honors Calculus



# AP, DUAL CREDIT & PLTW

*These are all programs that can help you earn college credit while still in high school!*

## AP

Advanced Placement



College level program developed by the College Board organization



\$105 per exam due in the fall each year (*cost may vary by year*)



Credit is earned by scoring a 3 or above (state schools) on the End of Course AP Exam. Other schools set their own parameters which vary. To transfer credit, send test scores from your AP account

## DUAL CREDIT



College courses offered while enrolled in high school courses. SDHS offers DC through UMSL, MO State, Drury, & Truman



Significantly reduced tuition- due each semester course is taken



Credit is earned by successful completion of the course at SDHS. To transfer the credit, you will need to request transcripts from the university awarding credit

## PLTW

Project Lead The Way



Project Lead the Way offers undergraduate credit options through Missouri S&T



Significantly reduced tuition- due after successful completion of the course and end of course exam



Credit is earned by successful completion of the course and a specific score on the end of course exam. To transfer credit, complete the online PLTW form and simply request a transcript from Missouri S&T



**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. Juniors and seniors should be aware that dual credit/AP classes have varying requirements and should work with their college guidance coordinators to sign up for appropriate coursework.

<b>St Louis University</b>	053 God Talk	3
	057 Social Justice	3
	393 Honors French 3	3
	394 Honors French 4	6
<b>University Missouri/St. Louis</b>	382 Honors Spanish 3	5
	383 Honors Spanish 4	5
	395 Honors Spanish 5	3
	165 AP English Language and Composition	6
	150 AP English Literature and Composition	6
	243 Honors American Government	3
	267 Modern American History	3
	265 Modern European History	3
	272 United States Foreign Policy	3
	449 Honors Pre-Calculus	5
	462 Honors Calculus	5
	564 Honors Physics 1	4
	544 Honors Physics 2	4
<b>Truman State University</b>	448 College Algebra	3
<b>Missouri State University</b>	739 Personal Finance Management	3
<b>Drury University</b>	971 Leadership	3

#### **PLTW College Credit Options through Missouri S&T**

Intro to Engineering Design & Principles of Engineering  
 Aerospace Engineering  
 Principles of Biomedical Sciences  
 Human Body Systems (alternating years)  
 Medical Interventions (alternating years)  
 Biomedical Innovation  
 Computer Science Essentials  
 Cybersecurity  
 Computer Science Principles  
 Computer Science A

*PLTW Student Opportunities: Students can earn college credit and scholarships from select post-secondary institutions. For more information, see <https://pltw.mst.edu/undergraduate-credit/>*

#### **Advanced Placement (AP) Test Options**

AP World History | Honors Physics 1 | Honors Physics 2 | AP Psychology | Honors Chemistry 2  
 Computer Science Principles | Computer Science A | AP Studio Art | AP Language and Composition  
 AP Literature and Composition

**\*Check with the college guidance office regarding course transferability. Courses are not guaranteed to transfer to all universities. College credit courses change annually based on college approval, enrollment, teacher certification requirements, etc**

## THE MISSOURI SEAL OF BILITERACY

The Missouri Seal of Biliteracy is an award to recognize a student who has attained proficiency in English and one or more other world language (s) before high school graduation. This recognition of attaining biliteracy becomes a part of the high school transcript for these students and serves to certify attainment of biliteracy for the community, employers and universities.

By meeting the requirements listed below, students can earn a Seal of Biliteracy on their transcript and potentially earn 12 college credits through some universities.

### Requirements for earning the Seal of Biliteracy

- Senior standing with 4 years of English.
- Students will write an essay describing how proficiency in both languages will help the community.
- Students have earned a minimum 18 on English portion of the ACT (for Seal of Biliteracy). Students have earned a minimum 21 on English portion of the ACT (for Distinguished Seal of Biliteracy). Students will earn a minimum score of 9 on the essay.
- Students will pay \$20 to St Dominic High School.
- After the first four steps are completed, students will take the STAMP4S test. It consists of 4 domains: Reading, Writing, Listening, and Speaking.
- Students must receive “Intermediate Mid” in each domain to receive the SoBL. Students must receive an “Advanced Low” in each domain to receive the Distinguished SoBL.

Students who meet the requirements may sign up in January for the STAMP4S test. Testing will take place in late February/early March.

### **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](http://eligibilitycenter.org)) if they intend to participate in collegiate athletics. Transcripts are uploaded by the College Guidance Office to the NCAA clearinghouse.

In January 2023, NCAA Divisions I and II adopted legislation to remove standardized test scores from initial-eligibility requirements for all student-athletes who initially enroll full time on or after August 1, 2023. Check with the NCAA school you plan to attend regarding whether standardized test scores are necessary for admission or scholarship requirements.

### **Division I (2.3 Core GPA Requirement, total of 16 Core Credits)**

English - 4 credits

Math - 3 credits (Algebra 1 or higher)

Natural/Physical Sciences - 2 credits (1 credit must be a Lab Science, such as Biology)

Additional English, Math, or Science - 1 credits

Social Science - 2 credits

Additional Academic Courses - 4 credits

### **Division II (2.2 Core GPA Requirement, total of 16 Core Credits)**

English - 3 credits

Math - 2 credits (Algebra 1 or higher)

Natural/Physical Sciences - 2 credits (1 credit must be a Lab Science, such as Biology)

Additional English, Math, or natural/physical science - 3 credits

Social Science - 2 credits

Additional Academic Courses - 4 credits

### **Important NCAA Terms**

**Full/Final Qualifier:** A college-bound student-athlete may receive athletics aid (scholarship), practice and compete in the first year of enrollment at the Division I college or university.

**Academic Redshirt:** A college-bound student-athlete may receive athletics aid (scholarship) in the first year of enrollment and may practice in the first regular academic term (semester or quarter) but may NOT compete in the first year of enrollment. The student-athlete must pass either 8 quarter or 9 semester hours to practice in the next term.

**Nonqualifier:** A college-bound student-athlete cannot receive athletics aid (scholarship), cannot practice and cannot compete in the first year of enrollment.

## **NCAA Division I Requirements**

### **Full/Final Qualifier** must:

1. Complete 16 core courses;
  - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
  - o Seven of the 10 core courses must be English, math or science.
2. Have a minimum core-course GPA of 2.300;
  - Grades earned in the 10 required courses required before the senior year are “locked in” for purposes of GPA calculation.
  - o A repeat of one of the “locked in” courses will not be used to improve the GPA if taken after the seventh semester begins.
3. Meet the competition sliding scale requirement of GPA and ACT/SAT score (this is a new scale with increased GPA/test score requirements); and
4. Graduate from high school. New NCAA Division I Initial-Eligibility Standards

### **Academic Redshirt** must:

1. Complete 16 core courses
2. Have a minimum core-course GPA of 2.000;
3. Meet the academic redshirt sliding scale requirements of GPA and ACT/SAT score; and
4. Graduate from high school.

**Nonqualifier** is a college-bound student-athlete who fails to meet the standards for a qualifier or for an academic redshirt.

For more information and a full Guide for the College Bound Student-Athlete, please visit:

[http://fs.ncaa.org/Docs/eligibility\\_center/Student\\_Resources/CBSA.pdf](http://fs.ncaa.org/Docs/eligibility_center/Student_Resources/CBSA.pdf)



**THEOLOGICAL STUDIES CURRICULUM**  
**Graduation requirement – 4.0 Credits**

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		
016 Christ and Culture	X	X		
022 Sacraments as Privileged Encounters with Jesus Christ			Required	
033 Life in Jesus Christ (Moral Teachings)			Required	
053 God Talk*			X	X
051 Apologetics: How to Explain and Defend the Catholic Faith			X	X
057 Social Justice (college credit)*			X	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
052 History of the Catholic Church				X
054 Synoptics and Acts				X
059 Missionary Discipleship				X

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

1 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.

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

**016 Christ and Culture – Grades 9, 10**

0.5 credit

Students in this course will explore and study the intersection between Catholicism and the diverse facets of human culture. The students will explore areas of art, architecture, music, movies, tv, and social media and delve into the dynamic relationship between Church's teachings and the various expressions of human creativity and influence. The students will investigate the impact of influential figures who have shaped Catholic values and practice.

**Seniors are required to enroll in TWO of these six semester-based theology courses:**

**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.

**053 God Talk\* – Grades 11, 12; college credit, plus 0.5 weight**

0.5 credit

This course centers around the genre of historical and autobiographical narrative as a way of getting at the ultimate questions at the heart of theology and religion. In dialogue with Jewish and Christian scripture, as well as classic and contemporary spiritual autobiographies written from within the Christian tradition and

beyond, students will wrestle with the nature of faith; the nature, existence, and personhood of God; the nature and ends of creation and human life; evil and salvation; and other matters of ultimate concern. Through the narrative, this course will address questions that matter most to the arc of human life. This advanced college credit course satisfies the requirements for St. Louis University's THEO 1600 God Talk: Ultimate Questions in Theology. Prerequisites: 90% in English and Reading on the most recent standardized testing and a 3.0 GPA. Payment is made directly to the university. *This is a prerequisite for Social Justice 057 (college credit)*

**057 Social Justice\***— Grades 11, 12; college credit, plus 0.5 weight 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: 90<sup>th</sup> percentile in English and Reading on the most recent standardized testing and a 3.0 GPA, and successful completion of 053 God Talk. 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.

**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.

**054 Synoptics and Acts** – Grade 12 0.5 credit  
The students choosing this course will actively participate in an in-depth exploration of the Synoptic Gospels --Matthew, Mark, & Luke-- and the Book of Acts. This course will equip the student with a deep, mature understanding of Jesus Christ the person through an advanced analysis of these Scriptural texts. Students will engage in sophisticated discussions, share deep insights, and pose thought provoking questions related to the readings. Students will be expected to demonstrate their ability to think critically and articulate complex ideas through written essays and other assessments. Through this coursework students will gain a deeper understanding and love of the Word of God made flesh.

**059 Missionary Discipleship: Capstone & Practicum-** Grade 12 1 credit  
This course is a culmination of the theology coursework at St. Dominic High School and leads students to a deeper understanding of their lifelong call to missionary discipleship. Through a thorough overview of Scripture, Tradition, Catholic social teaching, and the lives of the saints, students will come to see the role of a disciple as one who is perpetually on mission with Christ the Redeemer. Students will be given specific opportunities for ministerial work throughout the year, primarily in the form of leading retreats and liturgies. With a special focus on the importance of prayer and the soul of the apostolate, this course will demonstrate precisely how Jesus is the Way, the Truth, and the Life (cf. Jn 14:6), and it will invite those who follow Him to live with apostolic joy. This course is required for students in St. Dominic High School's Peer Ministry Program. Enrollment is limited to students in the Peer Ministry Program.

**ENGLISH LANGUAGE ARTS CURRICULUM**  
**Graduation requirement – 4.0 Credits**

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	
165 AP English Language and Composition			X	
154 World Literature				X
155 Science Fiction				X
156 21 <sup>st</sup> Century Novels				X
157 Pop Culture Literature				X
175 Christian Literature				X
163 Speech		X	X	X
164 Advanced Speech			X	X
150 AP English Literature and Composition				X
148 Creative Writing			X	X
159 Film Studies			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
907 Broadcasting			X	X

**110 Grammar and Composition – Grade 9**

1 credit

Students study a variety of literary types using a thematic approach, identify and clarify literary devices, compose well-organized paragraphs, utilize grade-level vocabulary, identify textual evidence to support findings, compose formal writing using correct documentation, and use effective oral communication as both an audience member and presenter. 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

Students deepen their understanding and appreciation of various literary forms. This course will provide students with a review of basic vocabulary skills, grammar, and syntax, and will build towards the skills of analysis, synthesis, and judgment in the expression of ideas in class discussions and writing. The writing in this course will focus on literary analysis paragraphs. This course will give students the opportunity to think critically in new ways, to develop their skills and confidence as writers, and to grow in their appreciation for literature.

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

1 credit

Students with advanced reading proficiency utilize critical thinking skills to read, examine, and analyze various genres of literature and informative texts. Students engage in the writing process to compose a variety of essays for multiple audiences and purposes with a focus on paragraph structure and analytical writing. 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. This course moves at an accelerated pace and uses complex texts and a greater challenge in writing assignments. Prerequisite: Score in the 90th percentile in Reading and ELA on Iowa Assessments (or equivalent standardized test) and a B or higher in 8th grade Reading and English.

**122 Literature and Composition 2 – Grade 10**

1 credit

This course provides instruction in composition, grammar and literature. Students will read a wide range of texts from various historical periods and today. The course will also encourage critical thinking and analysis to comprehend, interpret, and evaluate texts. Students will continue their development in writing to communicate with different audiences for a variety of purposes. The research process will be thoroughly examined as students gather, evaluate, and synthesize data from a variety of resources to communicate their discoveries. Presentations, using 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 course provides instruction in composition, grammar and literature. Students will read a wide range of texts from various historical periods and today. The course will also encourage critical thinking and analysis to comprehend, interpret, and evaluate texts. Students will continue their development in writing to communicate with different audiences for a variety of purposes. The research process will be thoroughly examined as students gather, evaluate, and synthesize data from a variety of resources 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. The class offers students an accelerated pace and a greater challenge in writing assignments. The literature covered will be similar to that of 122 but will include supplemental reading and will be discussed in greater depth while emphasizing analytical skills. Prerequisite: 90th percentile on the most recent standardized testing in English and Reading and an A in 112 or a B or higher in 113.

**135 American Literature and Composition – Grade 11**

1 credit

This course provides a thematic approach to American literature and is designed to help the student analyze various subgenres of American literature through both fiction and nonfiction texts. The course stresses reading comprehension through close reading and analysis of the rhetorical situation, claims and evidence, and reasoning and organization of literary 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 focuses heavily on the craft and editing of writing. Students use logical reasoning, rhetorical techniques, and argumentation skills to prepare a persuasive essay using correct MLA documentation.

**165 AP English Language and Composition\* – Grade 11, college credit, plus 0.5 weight**

1 credit

This course requires advanced students to think like writers and make rhetorical choices to develop their style as writers while examining and analyzing a variety of American literary types and subgenres. The course stresses reading comprehension and analysis of rhetorical situation, claims and evidence, reasoning and organization, and style. The students write rhetorical analysis, synthesis, persuasive argument, and college application essays, as well as literary argument essays. Students will build upon their existing writing skills and develop the techniques and styles necessary to approach college writing assignments with confidence. Students will utilize the writing process, with a strong emphasis on editing and revision. Students will also complete timed writing and AP practice questions. All of these activities will build toward preparing students to take the AP English Language and Composition Exam. Students also have the option to take this advanced course for six hours of college credit through the University of Missouri-St. Louis. Prerequisite: 90th percentile in English and Reading on the most recent standardized testing, an A in 122 or a B or higher in 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. Literary arguments, writing responses, collaborative class activities, and a culminating group teaching project will require students to think critically and professionally. MLA formatting and formal writing practices are expected in this course.

**155 Science Fiction – Grade 12**

0.5 credit

This semester-long course asks students to define, interpret, and analyze the literary and structural elements specific to the science fiction genre. Students will study influential works both classical and modern utilizing novels, short stories, television and film, as well as analysis of non-fiction materials related to the overall genre of science fiction. Through formal literary arguments, informal writing, presentations, tests/quizzes, and projects students will expand their thinking about science in literature and its connection to humanity, social structures, and its role in our past and future.

**156 21st Century Novels – Grade 12**

0.5 credit

This semester course asks students to engage with contemporary literary texts to recognize and understand the relationships between these texts 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 texts written in the 21<sup>st</sup> Century. Students will write multiple literary arguments.

**157 Pop Culture Literature- Grade 12**

0.5 credit

The student will study the definition of “popular culture”, and consider how it affects our society in 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 pop culture’s influence on their own lives as well as 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 literary arguments and complete several project-based assignments.

### **175 Christian Literature – Grade 12**

0.5 credit

Students will study works by Christian authors who have imbued their spirituality in their writing. Students will consider the ways that stories can be an avenue for evangelization and how studying Christian literature can help them deepen their faith lives and broaden their Christian worldview. Texts read in this course will include short stories, poems, novels, and nonfiction personal narratives, and students will engage with these texts through class discussions, creative activities, and analytical writing assignments. By studying fiction and nonfiction texts written by Christian authors and by examining Biblical excerpts as a piece of literature, students will come to realize how words can be used to embody goodness, truth, and beauty.

### **150 AP English Literature and Composition\* – Grade 12, college credit, plus 0.5 weight**

1 credit

This course requires advanced students to thematically analyze British, American, and world literature from various genres and time periods. The course stresses reading comprehension and analysis of the big ideas of literature: character, setting, structure, narration, figurative language, and literary argumentation. Students read closely through various theoretical lenses to interpret unifying ideas and establish commonalities across multiple works while utilizing rhetorical techniques and providing evidence in literary arguments. Both multiple-draft and timed writing assignments will be utilized to help students build skills in prose fiction analysis, poetry analysis, and literary argumentation. Ongoing components of the course include AP practice questions, projects, presentations, and class discussions. All of these activities will build toward preparing students to take the AP English Literature and Composition Exam. Students also have the option to take this advanced course for six hours of college credit through the University of Missouri-St. Louis. Prerequisite: 90th percentile in English and Reading on the most recent standardized testing, an A in 135 or a B or higher in 165.

### **163 Speech – Grades 10, 11, 12**

0.5 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 present 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. Research and organizational skills will be core elements of this course.

### **164 Advanced Speech – Grades 11, 12**

0.5 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 presentation. Students will study and practice skills associated with impromptu speaking, extemporaneous speaking, original oratory, mass communication, the art of rhetoric, debate, and real-world communication skills. Prerequisite: Successful completion of 163 Speech.

**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.

**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, and 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. This is a co-curricular class that will require after-school hours to complete deadlines satisfactorily. Prerequisite: application, teacher recommendations or a writing sample approved by the instructor.

**901 Journalism – Grades 10, 11, 12**

1 credit

Journalism 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.

**903 Yearbook II –Grade 11, 12**

1 credit

This course 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 may have the opportunity to hold editorial staff positions. 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. 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. 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 in this course typically hold the Editor positions on the Torch Yearbook Staff. This is a co-curricular class that will require after-school hours to complete deadlines satisfactorily. Prerequisite: Yearbook II and teacher approval.

**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](http://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. 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 many hours a month outside of class independently and/or during publication deadlines.

**907 Broadcasting - Grades 11, 12**

1 credit

This course is designed for the study of the basic elements of broadcast journalism with a focus on writing and reporting well-balanced, comprehensive and visually compelling stories. The course will emphasize news-gathering, writing, video recording, editing, and the study of mass media. Students will be introduced to skills such as script writing, directing, and proper camera usage and technique. They will also learn studio skills such as lighting, sound, and editing. These skills will allow the student to produce his/her own feature package as they encounter both long and short-term deadlines and out-of-class responsibilities.

**SOCIAL STUDIES CURRICULUM**  
**Graduation requirement – 3.0 Credits**

Course Title	9	10	11	12
232 US History	X			
234 Honors US History*	X			
222 World History		X		
223 AP World History*		X		
243 American Government			X	
246 Honors American Government*			X	
237 Psychology			X	X
238 Sociology			X	X
239 Contemporary Issues			X	X
241 Economics			X	X
245 AP Psychology*			X	X
267 Modern American History*			X	X
265 Modern European History*			X	X
272 United States Foreign Policy*			X	X
971 Leadership			X	X

**232 US History – Grade 9**

1 credit

This course is a survey of United States History including the post-Civil War era, the role of the United States as a world power, the post-Cold War era, and modern United States history. We will examine the social, economic, and political systems as well as the traditions, attitudes, and values that reflect our national heritage and which have been shaped by our nation's history. Students will use selected readings and project-based assessments to explore this curriculum and deepen their understanding of United States History.

**234 Honors US History\* – Grade 9, plus 0.5 weight**

1 credit

Honors United States History is a challenging year-long course designed to engage students with the history, government, culture, diversity, economics, and geography of the United States from the Civil War to the present. This course not only meets the U.S. history graduation requirement but also provides an academic experience that prepares students for AP World History by emphasizing the analysis of primary and secondary sources and developing skills in reading, writing, and critical thinking. Prerequisites: Score in the 90th percentile in Reading and ELA on Iowa Assessments (or equivalent standardized test).

**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.

**223 AP World History\* – Grade 10, plus 0.5 weight**

1 credit

This course is an introductory college-level modern world history course. Students will cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Successful completion of the course culminates with the national A.P. World History: Modern examination, which will be administered in May. Students will earn a weighted grade for this class and, if successful on the national examination, they could receive college credit at their preferred university. Prerequisites: A in US History and 90th percentile in reading on the most recent standardized test.

**243 American Government – Grade 11**

0.5 credit

This course is an introduction to the study of national, state, and local governments. The U.S. Constitution is covered in detail and the requirements for the Missouri Constitution are met. Other topics include citizenship, elections, and current events dealing with foreign and domestic policy. The skills of finding, comprehending, organizing, evaluating, and communicating information are taught. Students learn the knowledge and skills needed to carry out their responsibilities and protect their rights as citizens of a free society.

**246 Honors American Government\*- Grade 11, college credit, plus 0.5 weight**

0.5 credit

Introduction to basic concepts of government and politics with special reference to the United States, but including comparative material from other systems. This course meets state requirements for American history and government. 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). Prerequisite: 90th percentile in reading on the most recent standardized testing and an A in 222 or B or higher in 223. 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 national issues that affect students' lives, such as economics, government, humanitarian crisis, and conflict. This course uses newspapers, online media, cartoons, and newscasts to support a deep dive into content covered. Additionally students will work with primary source materials and opinion pieces in order to better understand the world around them. Class is designed to push students to enter into discussion with their peers to understand different sides of important events in today's society. Students will also be asked to write 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 AP Psychology\* – Grade 11, 12, plus 0.5 weight**

1 credit

Students in this course will explore the ideas, theories, and methods of the scientific study of behavior and mental processes. Students will examine the concepts of psychology through reading and discussion and analyze data from psychological research studies. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. This course is equivalent to a college-level comparative survey of Psychology. Students will have the option of taking the Advanced Placement Psychology test at the end of this course and must incur the cost of the test. Prerequisite 90% in Reading on the most recent standardized testing.

**267 Modern American History\* – Grade 11, 12, college credit, plus 0.5 weight**

0.5 credit

This is an introductory course in the history of the United States from Reconstruction to the present. Through lectures, readings, discussions, and written assignments major topics in the political, social, economic, and cultural history of the United States in this period will be examined. Emphasis is placed on the period after World War II into the 21<sup>st</sup> century. This honors college credit course satisfies the requirements for the University of Missouri – St. Louis HIST1002: American Civilization 1865 to present, (3 hours) courses. Prerequisite: 90<sup>th</sup> percentile in reading on the most recent standardized testing and an A in the most recent social studies course, or a B or higher if the most recent social studies course is weighted.

**265 Modern European History\* – Grades 11, 12, college credit, plus 0.5 weight**

0.5 credit

Beginning from 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: 90<sup>th</sup> percentile in reading on the most recent standardized testing and an A in the most recent social studies course, or a B or higher if the most recent social studies course is weighted.

**272 United States Foreign Policy\***- Grade 11, 12, college credit, plus 0.5 weight

0.5 credit

United States Foreign Policy is a semester elective college credit course, where students will examine past and present examples of US relations with other countries for economic, social, and political purposes. Further emphasis will be placed on connections between both inputs (sources) and outputs (outcomes) of US foreign policy. Further emphasis will be placed on predicting future foreign policy goals and actions based on national security, humanitarian, economic, and geopolitical concerns. The sources will examine the processes whereby US foreign policy is made and, more importantly, to understand the causes and determinants of US foreign policy. The outcomes will examine historical patterns of US foreign policy behavior as well as examine major issues and debates in contemporary US foreign policy. By the conclusion of this class students should be able to show an improved ability to describe, explain, evaluate, and offer prescriptions for U.S. foreign policy. College credit is available through University of Missouri –St. Louis as it meets the requirements for Political Science 2820: U.S. Foreign Policy (3 hours). Payment is made directly to the university. Prerequisite: B or higher in Honors American Government or an A in American Government.

**The following course is an elective, which does not replace a required Social Studies credit.**

**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 101 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.

## WORLD LANGUAGE CURRICULUM

Two consecutive years of World Language is *strongly* recommended for college admissions.

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 30<sup>th</sup> 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 90<sup>th</sup> percentile and a B or higher 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 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 and teacher approval. 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 learned is the equivalent of a first semester college course in Spanish composition and conversation. 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 and teacher approval.

**383 Honors Spanish 4\*** – Grades 11, 12, college credit, plus 0.5 weight 1 credit  
 Material learned 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: B or higher in 382 Honors Spanish 3 and teacher approval.

**395 Honors Spanish 5\*** - Grades 12, college credit, plus .5 weight 1 credit  
 Material learned 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: B or higher in 383 Honors Spanish 4 and teacher approval.

**375 French 1** – Grades 9, 10, 11, 12 1 credit  
 Students acquire the foundation of fluency in the French language through immersion. 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 worldwide: 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 through immersion. 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 worldwide: 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 through immersion. 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 worldwide: North and South America, the Caribbean, the South Pacific, Asia, Africa and Europe. Prerequisite: A in 375 French 1 and teacher approval.

**393 Honors French 3\*** - Grades 10, 11, 12, college credit, plus 0.5 weight 1 credit  
Through immersion, 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: C or higher in 378 Honors French 2 and teacher approval.

**394 Honors French 4\*** - Grades 11, 12, college credit, plus 0.5 weight 1 credit  
Through immersion, 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: C or higher in 393 Honors French 3 and teacher approval.

**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 5<sup>th</sup> 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 – 3.0 Credits, All Four Years Recommended.**

Course Title	9	10	11	12
412 Algebra 1	X			
413 Honors Algebra 1*	X			
422 Geometry		X		
423 Honors Geometry*	X	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

*\*Most Mathematic Courses require the use of a graphic calculator. The recommended calculator by our Math Department is the TI-84CE or other ACT approved calculator.*

**412 Algebra 1 – Grade 9**

1 credit

This course gives an understanding of the basic structure of algebra. Algebraic concepts include linear and quadratic equations; graphing simple linear, exponential, and absolute value equations; variable inequalities, properties of exponents, scientific notation, systems of equations, polynomials, and radicals.

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

1 credit

This course gives an understanding of the in depth structure of algebraic concepts; solving linear equations, graphing equations, variable inequalities, properties of exponents, scientific notation, simplifying radicals, systems of equations, simple probability problems, polynomials, quadratic graphs and functions, quadratic equations, absolute value graphs and equations, exponential functions and graphs and radical equations. Prerequisite: 90<sup>th</sup> percentile or higher in math on the most recent standardized testing and a B or higher in the most recent 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, 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 a B or higher in 413 Honors Algebra I.

**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 and find trig values of general angles. Problem solving strategies will be emphasized. Graphs of circles may be explored. 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 absolute value equations & inequalities, quadratic, polynomial, exponential, rational, logarithmic, and radical functions; the study of trigonometric functions, graphs of trigonometric functions, and conic sections. Prerequisite: 90<sup>th</sup> percentile in math on the most recent standardized test, an A in Geometry 422 or an B or higher in Honors Geometry/Trig 423. If this course is taken concurrently with Geometry 422 or Honors Geometry 423, then requirements include 90th percentile in math on most recent standardized test, an A in 412 Algebra 1 or B or higher in 413 Honors Algebra 1 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. Major topics will also include probability and counting methods, using probability distributions to find the probability of a given event, normal distributions, confidence intervals, and hypothesis testing. Prerequisite: Successful completion of 432/433 Algebra 2.

**441 Prep College Algebra** – Grades 11, 12 (does not meet NCAA approval) 1 credit

This course is designed to reinforce and strengthen skills to prepare for a college algebra course. Students will review and study the algebraic topics of solving equations and inequalities; solving systems of equations and inequalities; polynomial, rational, and quadratic functions; radicals and complex numbers. Prerequisite: Successful completion of 432 Algebra 2.

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

This course continues and expands the algebraic topics of equations and inequalities, algebraic, exponential, and logarithmic functions, systems of equations and inequalities. Emphasis is placed on the application of skills. Students are required to have a non-graphing calculator on the first day of class through the entire course. This course requires a fee for software and 3 hours of college credit from Truman State University. This advanced college credit course satisfies the requirements for Truman State University's MATH 156: College Algebra (3 hours) course. Prerequisite: B or better in 432 Algebra 2, or a C or higher in 433 Honors 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 include 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 432 Algebra 2, B or higher in 433 Honors Algebra 2, or B or higher in 448 College Algebra. 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 higher in 449. Payment is made directly to the university.

**Math Lab (Guidance Recommendation Only)** – Grade 9-12 (Elective Credit) 1 credit

A Math Lab, unlike a Study Hall, is worth 1.0 credits as an elective course offered in addition to Algebra 1, Geometry or Algebra 2. It is scheduled on the opposite days of the students' regular Math course and instructed by a faculty member in the Math Department. This pass/fail course offers students the opportunity for reinforcement and practice on concepts being taught in their regular math course. In a block schedule, it also offers the benefit of having instruction and practice every day to best serve our students' academic needs who may struggle in Math by having it scheduled on the opposite day of the regular Math course. A Math Lab may only be taken with approval by Administration, Guidance and the Learning Consultant.

**SCIENCE CURRICULUM**  
**Graduation requirement – 3.0 Credits**

Course Title	9	10	11	12
522 Biology	X			
523 Honors Biology*	X			
511 Physical Science		X		
532 Chemistry			X	X
533 Honors Chemistry*		X	X	
534 Honors Chemistry 2*			X	X
536 Investigative Sciences			X	X
537 Environmental Science			X	X
539 Earth Science			X	X
540 Human Anatomy & Physiology			X	X
562 Honors Human Anatomy & Physiology*			X	X
564 Honors Physics 1*			X	X
544 Honors Physics 2*				X

**522 Biology – Grade 9**

1 credit

This course is the study of living things. 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\* – Grade 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 90<sup>th</sup> percentile on the most recent standardized testing.

**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. Prerequisite: Completion of 412 Algebra 1.

**532 Chemistry – Grade 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 Geometry and/or Honors Algebra 2/Trigonometry (or concurrent enrollment in Honors Geometry or Honors Algebra 2/Trig).

**534 Honors Chemistry 2\* – Grades 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 in Algebra 2 or concurrent with Honors Algebra 2. The 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.

**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: B or higher in 423 Honors Geometry and B or higher in 533 Honors Chemistry, or A in Algebra 2 and an A in Chemistry.

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

1 credit

This demanding course is math-based and studies Kinematics, Force and Translational Dynamics, Work, Energy, and Power, Linear Momentum, Torque and Rotational Dynamics, Energy and Momentum of Rotating Systems, Oscillations, and Fluids. College credit is available through University of Missouri –St. Louis as it meets the requirements for Physics 1011: Basic Physics I and Physics 1011L (4 hours). By enrolling in this course students also have the option to take the Advanced Placement Physics 1 Test and must incur the cost of the test. Prerequisite: B or higher in Honors Chemistry or A in Physical Science and a B or higher in Honors Geometry or an A in Geometry.

**544 Honors Physics 2\*** –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 Thermodynamics, Electric Force, Field, and Potential, Electric Circuits, Magnetism and Electromagnetism, Waves, Sound, and Physical Optics, Geometric Optics, and Modern Physics. College credit is available through University of Missouri –St. Louis as it meets the requirements for Physics 1012: Basic Physics II and Physics 1012L (4 hours). By enrolling in this course students also have the option to take the Advanced Placement Physics 2 Test and must incur the cost of the test. Prerequisite: Successful completion of Honors Physics 1.

**VISUAL AND PERFORMING ARTS CURRICULUM**  
**Graduation requirement – 1.0 Credit**

Course Title	9	10	11	12
611 Introduction to Art	X	X		
612 Art 1	X	X	X	
613 Art 2		X	X	X
610 Ceramics			X	X
617 Honors Advanced Art*			X	X
608 Digital Art		X	X	X
609 Digital Art 2			X	X
618 Lettering & Design			X	X
619 AP Studio Art*				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
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
661 Theatre Design and Technology 2	X	X	X	X
653 Advanced Studio/Directing Theatre			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 lecture and guided projects. The students will work with a variety of mediums that include, but are not limited to, graphite, watercolor, acrylic paint, polymer clay, fibers, colored pencils, marker, etc.

**612 Art 1 – Grades 9, 10, 11**

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: B or higher in 612 Art 1.

**610 Ceramics – Grades 11, 12**

0.5 credit

Ceramics is a beginner course for the study of clay as an artistic material. Students will develop and use ceramic hand-building methods (pinch, coil, & slab) and a variety of decorative surface techniques to express themselves. Students will create original functional and non-functional pieces inspired by observation and imagination, they will express themselves through various themes. Students will analyze and critique artworks while discussing aesthetic issues. Prerequisite: A in Art 1 accompanied with a Ceramic Application (available in the Guidance Office).

**617 Honors Advanced Art\* – Grades 11, 12, 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. Prerequisite: B or higher in Art 2.

**619 AP Studio Art\* – Grade 12, plus 0.5 weight**

1 credit

AP Studio Art is designed for those students who have successfully completed Art 1, Art 2, and a full year of Honors Advanced Art. Students will create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students can choose to submit portfolios for evaluation based on specific criteria in order to earn college credit through AP College Board. This criteria includes skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Prerequisite: A in 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 is primarily taught in Procreate and will incorporate digital illustration, photography, collage, and animation. 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.



**609 Digital Art 2 – Grades 11, 12**

0.5 credit

Digital Art II encompasses both the fine arts and the marketing/business world. Digital Art II helps students build their design skills to not only market themselves to future colleges but also employers. This semester course enhances student creativity and collaboration as well as develops students' attention to detail, patience, and grit. Digital Art II builds off previously learned Procreate skills from Digital Art. Students will also learn a variety of other programs including Adobe Creative Suite, programs typically used in higher education and in the workforce. Prerequisite: A in Digital Art and students must submit a portfolio that will be reviewed for acceptance.

**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 card design, illuminated lettering, calligrams and other design related projects. Formal calligraphy is taught for approximately 1/3 of the semester.

**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 students 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 enroll 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. Students should have some experience reading music before taking this course.

**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.

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

In this beginning level daily participatory class, the student will become proficient in improvisation, public speaking, 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 improvisation 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. The developing actor will learn the basics of acting: pantomime, voice, movement, characterization, focus and memorization. Students will write their own scenes as well as perform scenes from quality plays. Students will perform a variety of improvised and memorized scenes and monologues.

**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 the acting skills learned in Acting 1. The class is an exploration of characterization through different methods and styles of acting, using classical literature and plays. Students will write their own scenes as well as perform scenes from classical and modern theater. Units will include the rehearsal process, audition techniques, creating believable characters, stage movement and combat, and acting for the camera. Prerequisite: Acting I 649.

**651 Theatre Design And Technology** – Grades 9, 10, 11, 12 0.5 credit

This beginning 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. Units will include set construction, set painting, costume, lighting, sound, makeup, props, and stage management. Collaboration and problem-solving are fundamental aspects of the course. Students will be encouraged to be part of the crew for a school production.

**661 Theatre Design And Technology 2 – Grades 9, 10, 11, 12**

0.5 credit

This intermediate level course will build upon the design and execution skills learned in Tech Theater 1. Students will explore the aspects of design in regards to theatrical production. Students will design and execute those designs for current SDHS theatrical productions in set construction and painting, costume design and building, and prop design and building. Other units will include advanced instruction in sound and light design. Collaboration and problem-solving are fundamental aspects of the course. Prerequisite: Successful completion of 651 Theatre Design and Technology.

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

0.5 credit

Advanced Studio Theatre is an advanced course for the serious theater student. The course is designed to provide students with an understanding of the various aspects of directing a play. Units will include: the role of the director, script analysis, blocking and staging, working with actors, design integration and film directing. This course is for aspiring directors and those interested in technical theater. Prerequisites: Students must have completed two theater courses from the option above.

**BUSINESS CURRICULUM**  
**Graduation requirement – 1.0 Credit of a Practical Art**

Course Title	9	10	11	12
733 Intro to Business	X	X		
742 Marketing		X	X	X
743 Business Law			X	X
735 Accounting 1			X	X
739 Personal Financial Management +				required
762 Honors Accounting 2*				X
748 Entrepreneurship Capstone				X

**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. Students will learn to apply various technology options for electronic communication, word processing, presentation and spreadsheet creation.

**742 Marketing - Grade 10, 11, 12**

Practical Art

0.5 credit

This course is designed to introduce the student to the field of marketing, covering such topics as: advertising, promotions, product development, consumer behavior, and market segmentation. This course is recommended for students interested in business or marketing, which also leads to the entrepreneurship capstone course. Prerequisite: completion of 733 Introduction to Business.

**743 Business Law - Grade 11, 12**

Practical Art

0.5 credit

This course will guide students through the basic legal principles relevant to their roles as citizens, consumers, and employees exploring personal, business, and consumer laws. Course topics include characteristics of the U.S. criminal and civil law, rights of private property, basic elements of contracts, and employer-employee relations.

**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.

**739 Personal Financial Management** – Grade 12, college credit optional    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. Students will have the opportunity to sign up for college credit through Missouri State University – FIN 150 (3 hours) with this class. Prerequisites for college credit: unweighted GPA of 3.0. Payment is made directly to the university.

**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. Prerequisite: B or higher in Accounting 1.

**748 Entrepreneurship Capstone** - Grade 12                      Practical Art                      0.5 credit

This project-based course is designed to give additional attention to the topics covered in Marketing and Accounting with a focus on developing a business. Emphasis is placed on writing a business plan, market research, finance, human resources and management. Prerequisite: Successful completion of, or taking concurrently with Marketing and Accounting 1.

**Business Path for Students Interested in Reaching Capstone**

	<b>Freshman or Sophomore Year</b>	<b>Sophomore-Senior Year</b>	<b>Junior or Senior Year</b>	<b>Senior Year</b>
<b>Required to Reach Capstone</b>	733- Intro to Business	742- Marketing	735- Accounting 1	748- Entrepreneurship Capstone
<b>Optional Courses in Business Path</b>			743- Business Law 241- Economics	762- Honors Accounting 2
<b>Required for All Students</b>				739- Personal Financial Management

Course Title	9	10	11	12
771 Computer Science Essentials	X	X	X	
776 Cybersecurity		X	X	X
780 Computer Science Principles AP*		X	X	X
790 Computer Science A*			X	X
980 Introduction to Engineering Design	X	X	X	
982 Principles of Engineering*		X	X	X
983 Aerospace Engineering*			X	X
810 Principles of Biomedical Science*	X	X		
811 Human Body Systems*		X	X	
812 Medical Interventions* (Offered in 2026-27)		X	X	X
813 Biomedical Innovation*				X

**771 Computer Science Essentials (CSE)** – Grades 9, 10, 11 (Practical Art) 1 credit  
Students will explore how computers really work, all while learning to code in fun and easy ways. Starting with visual, block-based programming and then leveling up to powerful languages like Python® to design apps and bring ideas to life! Students will learn to think like a tech pro as they solve real-world problems, learn the latest computer science skills, and work with classmates to create projects about things they care about. Students will have the opportunity for college credit through Missouri S&T by taking this course.

**776 Cybersecurity (SEC)**- Grades 10, 11, 12 (Practical Art) 1 credit  
Cybersecurity teaches the skills to guard against hackers, protect privacy, and solve the real-world challenges of our tech-driven world. Students will explore the tools and techniques used to secure sensitive data, stop cyberattacks, and create systems that allow people to share resources safely. In a world where cyber threats are growing, students will learn to uncover vulnerabilities and how to fix them. Along the way, they'll gain a deeper understanding of ethical computing and how making good choices can make the internet a safer place for everyone. Students will have the opportunity for college credit through Missouri S&T.

**780 Computer Science Principles (CSP) AP\*** – Grades 10, 11, 12 plus weight 0.5 (Practical Art) 1 credit  
In this course, students will use Python®, one of the world's most popular programming languages, to solve real-world problems, create meaningful projects, and uncover the amazing ways technology shapes our world. They will work with teammates to design, develop, and test programs that make a difference, from automating tasks to protecting data. Students will also explore how patterns in data reveal insights, learn how to keep

information secure, and dive into the technology that connects us all through the internet. They will gain the coding skills and computational thinking needed to tackle challenges and create value for others. Students will have the opportunity for college credit by taking the AP exam as well as through Missouri S&T by taking this course. Prerequisite: 771 Computer Science Essentials.

**790 Computer Science A (CSA) AP\*** - Grades 11, 12 plus weight 0.5 (Practical Art) 1 credit  
In this course, students will tackle hands-on projects and challenges inspired by real-world scenarios, all while learning the essentials of Java programming. They'll build their programming skills by analyzing, writing, and testing code, diving into key concepts like modularity, variables, and control structures. Plus, students will explore object-oriented programming and design, a powerful approach that helps organize and develop complex programs. Students will have the opportunity for college credit by taking the AP exam as well as through Missouri S&T by taking this course. Prerequisite: 780 Computer Science Principles (CSP).

**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. 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. Prerequisite: Concurrent enrollment in Honors Algebra 1 or successful completion of Algebra 1.

**982 Principles of Engineering\***— Grades 10, 11, 12 plus weight 0.5 (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. Prerequisite: Successful completion of 980 Introduction to Engineering Design.

**983 Aerospace Engineering\*** - Grade 11, 12 plus weight 0.5 (Practical Art) 1 credit  
This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing, building, and testing balsa gliders, quadcopter drones, and model rockets; explore aircraft dynamics, control systems, and navigation through flight simulation culminating in planning and execution of a simulated solo flight; and explore satellites and planetary probes through image processing and autonomous robotic probe programming. They learn basic airfoil dynamics, propulsion systems, airframe design and testing, and orbital mechanics using industry-standard software. This highly project-oriented course is rooted in developing a deeper understanding of applied physics and engineering design principles. Prerequisite: Successful completion of 981 Principles of Engineering.

**810 Principles of Biomedical Science\*** – Grades 9, 10 plus weight 0.5 (Practical Art) 1 credit

In the introductory course in the PLTW Biomedical Science program, students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems. Prerequisite: Concurrent enrollment or completion of Honors Biology 523 with a B or higher or successful completion of Biology with an A and teacher recommendation pending available seats.

**811 Human Body Systems\*** - Grades 10, 11 plus weight 0.5 (Science Credit) 1 credit

In this course, students explore the physiology of the eleven systems of the body, specifically the function of the organs and structures including the disorders associated with them. Students experience real-world scenarios and cases to see medicine in action as they diagnose and provide treatment and rehabilitation to patients at an outpatient center, keep clients safe and healthy on adventure medicine trips in remote locations, and work in a research center to design laboratory investigations to explore development and aging. Prerequisite: Successful completion of 810 Principles of Biomedical Science with a B or higher.

**812 Medical Interventions\*** - Grades 10, 11 plus weight 0.5 (Science Credit) 1 credit

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection, screen and evaluate the code in human DNA, evaluate cancer treatment options, and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Prerequisite: Successful completion of 810 Principles of Biomedical Science with a B or higher. *Offered in the 2026-2027 school year.*

**813 Biomedical Innovations\*** - Grade 12 plus weight 0.5 (Science Credit) 1 credit

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent capstone project with a mentor or advisor from a university, medical facility, or research institution. Pre-or corequisite: Successful completion of 810 Principles of Biomedical Science, 811 Human Body Systems and 812 Medical Interventions with a B or higher.

PLTW Program	First Course	Second Course	Third Course	4th Course
Engineering	980- Intro to Eng.	982- Princ. of Eng.	983- Aerospace	
Biomedical	810- Princ. of Biomed	811 or 812- HBS/MI	811 or 812- HBS/MI	813- Biomed Inn.
Computer	771- Comp. Sci. Ess.	780- Comp. Sci. Prin.	790- Comp. Sci. A	776*-Cybersecurity (May be taken in any order)



**BUILDING TRADES CURRICULUM**  
**Graduation requirement – 1.0 Credit of a Practical Art**

Course Title	9	10	11	12
850 Construction Innovation			X	X
871 Carpentry			X	X
854 Electrical			X	X
857 Heating Ventilation and Air Conditioning (2026-27)			X	X
872 Plumbing and Pipefitting (2026-27)			X	X

**Building Trades courses are offered in two-block scheduling that occur on the same day such as a B1/B2 combination. The course is completed in one semester for 1.0 credit, over those two block periods.**

**850 Construction Innovation – Grades 11, 12** (Practical Art) 1 credit

The Construction Innovations year of studies encompasses the knowledge, skills, and abilities that students who are interested in working in the trades need to master, regardless of their trade-specific choice. These studies incorporate various construction-related topics for a student's first year. Students will participate in quarter-long courses in H.V.A.C., Carpentry, General Construction, and Electrical Trades. The program competencies are a guide to basic construction skills training. The program covers safety issues, tool identification/usage, trade-specific vocabulary, and construction math. Students are exposed to classroom academics, hands-on competencies in the building trades, and life skills. Students will complete safety training and hands-on projects that will facilitate an understanding of preparations, layouts, and installations in construction trades and building techniques.

**871 Carpentry – Grades 11, 12** (Practical Art) 1 credit

The Carpentry curriculum is a thorough guide to basic skills training. Each unit is divided into sections covering vocabulary, additional resources, as well as suggested learning and assessment activities. Students will gain knowledge, skills, and abilities that are required to become successful in the next level of the carpentry trade. Prerequisite: 850 Construction Innovation

**854 Electrical – Grades 11, 12** (Practical Art) 1 credit

The Electrical Trades curriculum allows students the opportunity to learn how to design, stage, and install commercial and residential electrical wiring for power and telecommunications systems. The skills taught may include blueprint interpretation, layout, design, and programming equipment. In addition, an emphasis will be placed on logical thinking. Throughout the course, students will learn basic guidelines for electrical safety installations and electrical safety in the workplace. Prerequisite: 850 Construction Innovation

**857 Heating Ventilation and Air Conditioning – Grades 11, 12** (Practical Art) 1 credit

This program follows HVAC industry standards. Students will learn general shop safety, electrical high and low voltage, sheet metal fabrication, tubing and piping techniques, gas and electric heating systems, basic air conditioning and refrigeration cycle, service and installation practices, indoor air quality, and employability skills. This course will be available for the 2026-27 school year. Prerequisite: 850 Construction Innovation

**872 Plumbing and Pipefitting – Grades 11, 12**

(Practical Art)

1 credit

Learn the fundamentals of this essential industry, from residential plumbing/pipe installation and repairs to water treatment systems. You will learn the skills needed to help maintain critical infrastructure in homes and in the community. This course will be available for the 2026-27 school year. Prerequisite: 850 Construction Innovation.

**PHYSICAL EDUCATION/HEALTH CURRICULUM**  
**Graduation requirement – Physical Education (0.5) and Health (0.5) Credit**

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	
917 Advanced Strength Training			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 are allowed.**

**921 Physical Education 1 – Girls – Grades 9, 10**

0.5 credit

This course is designed to provide students with a well-rounded foundation in physical fitness and sportsmanship. This course aims to engage students in a variety of physical activities that promote lifelong fitness, teamwork, and a healthy lifestyle. Students will learn the importance of regular physical activity, develop skills in a variety of sports and exercises, and build an understanding of how fitness contributes to overall well-being.

**922 Physical Education 1 – Boys – Grades 9, 10**

0.5 credit

This course is designed to provide students with a well-rounded foundation in physical fitness and sportsmanship. This course aims to engage students in a variety of physical activities that promote lifelong fitness, teamwork, and a healthy lifestyle. Students will learn the importance of regular physical activity, develop skills in a variety of sports and exercises, and build an understanding of how fitness contributes to overall well-being.

**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. Through class discussions and hands-on activities, students will learn to set personal health goals, manage stress, and practice safe decision-making. This course also emphasizes the development of critical life skills, such as effective communication, decision-making, and self-advocacy, to empower students to lead healthy and balanced lives.

**916 Strength Training – Grades 10, 11, 12**

0.5 credit

This course is designed to introduce students to the principles and practices of strength training. Through a combination of foundational exercises, progressive skill development, and safety education, students will build strength, improve their fitness levels, and learn the basics of creating a balanced, effective workout routine. This course is perfect for students who are new to weightlifting or want to refine their technique and understanding of strength exercises. Whether the goal is to enhance performance in sports, develop muscle strength, or simply learn how to exercise safely and effectively, this class will provide the tools and knowledge needed for lifelong fitness.

**954 Team Sports – Grades 10, 11**

0.5 credit

This course is designed to provide students with a comprehensive understanding of various team-based sports, including their rules, strategies, and skills. Through active participation in sports such as basketball, soccer, volleyball, hockey, and others, students will develop teamwork, communication, and leadership skills. The course emphasizes collaboration, good sportsmanship, and the importance of both physical fitness and mental focus in team settings.

**917 Advanced Strength Training – Grade 11, 12**

0.5 credit

This course is for students who have completed Strength Training and are looking to take their physical fitness to the next level. This course will focus on more advanced training techniques, including hypertrophy (muscle growth), power, and endurance training. Students will gain a deeper understanding of advanced workout strategies, learn how to optimize their performance, and focus on achieving specific fitness goals, such as increasing strength, building muscle mass, or improving athletic performance. Prerequisite: 916 Strength Training.

**956 Lifetime Sports – Grade 12**

0.5 credit

This course is designed to provide students with the knowledge and skills necessary to participate in physical activities and sports that can be enjoyed throughout their lives. Emphasis is placed on the benefits of staying active, developing sportsmanship, and maintaining an overall healthy lifestyle. Students will engage in a variety of individual, team, and recreational sports that promote lifelong fitness. 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 course focuses on developing students' knowledge and skills in maintaining physical fitness and overall health throughout their lives. The course focuses on aerobic fitness, strength training, flexibility, and mental wellness, with the goal of helping students adopt healthy habits that will last well beyond high school. 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.