



# Bayless High School

## Career & Educational Planning Guide



2017-2018

### **Bayless School District Mission Statement**

The Bayless School District will provide a safe and enriching environment where ALL children will learn to become responsible and empowered citizens, where diversity builds character and strength, knowledge enhances freedom and opportunity, and commitment leads to success.

### **Bayless School District Belief Statement**

We believe that:

- Education and commitment to excellence are the foundation to achieve success.
- A small school district provides a personalized education.
- Communication among parents, teachers, students and the community is vital.

All Students and staff live “The Bayless Way” Respect and Responsibility

### **Bayless High School Mission Statement**

Bayless High School, in partnership with its parents and in harmony with its community, promotes a safe, nurturing environment conducive to building a community of learners. The school recognizes that the world of the 21<sup>st</sup> Century is one of diversity, opportunity, and challenges that require technological literacy and lifelong learning; therefore, the staff accepts its responsibility to address the intellectual, social, and emotional well-being of each student.

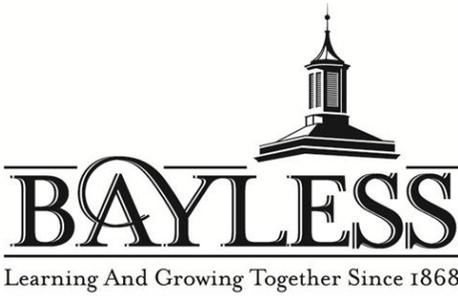
The Career and Educational Planning Guide contains a wealth of information regarding academic planning, career paths, honors programs, college credit offerings, and post high school planning guidelines. The planning guide is provided to assist students with creating and implementing a plan for high school and beyond.

**The Bayless High School Career and Educational Planning Guide is available online through the BHS Counseling Department Website**

<http://hscounseling.baylessk12.org>

**4532 Weber Road  
St. Louis, MO 63123  
314-256-8660**

<http://hsbaylessk12.org>



Dear Parents and Students:

The most important difference between successful and unsuccessful students is that successful students possess a focus, a profound and positive vision of their own future. The failure to have a goal for ourselves continues to cause lost time and wasted effort for many students. We hear of former students who drop out of college even after much degree work has been completed. I think that these students have failed to develop a focus for their future life; and that we as a society, both school and home, have failed to help them develop realistic, knowledgeable goals that will lead them efficiently to successful employment and a satisfying personal life. Often, the vision they acquire comes much too late in their lives.

Together parents and teachers must help students understand that high school education is preparation for life! High school opens opportunities to one who works hard, achieves good grades, and graduates. It doesn't matter if you go into the workforce, technical schools, or attend four year colleges. High school education is the foundation for further education and rewarding careers filled with choices. We ask students to seriously plan their high school courses around career and educational interests.

The Bayless High School staff is eager to work with students and their parents in developing, refining, or redeveloping a focus for the future. We must all work together in planning career and educational opportunities for the students of BHS. By combining enhanced academic and career-oriented study in high school, students will be prepared to pursue post-secondary education at the two year and four year college level or to enter the workforce following graduation.

Consider carefully your career focus as you plan your schedule for the next year. This Planning Guide contains graduation requirements and courses offered specifically for the current students enrolled. Please review the information and use it to plan your four years. Please talk to your parents, to any of our teachers, or your advisor, and get help in developing a schedule that will lead you to your chosen future. If you have any questions about courses or scheduling, free to call 256-8660 for answers or contact our school counseling staff for an individual appointment.

Wishing you all **SUCCESS**,

S. Patrick McEvoy, Principal

# Table of Contents

## **Section 1 – Graduation Requirements & General Information**

Career and educational Planning Critical Vocabulary  
Graduation Requirements  
Early Graduation  
Grading Standards & System, Final Exams  
Athletic/Activities Eligibility  
Grade Level Classification, Early Exit

## **Section 2 – Academic Planning & Career Paths & Clusters**

Personal Plan of Study  
Career Paths & Clusters

## **Section 3 – Honors/College Programs, Post – High School Plan**

Honors Program  
College Credit Classes and Dual Enrollment  
A+ Schools Program  
NCAA Eligibility Standards

## **Section 5 – Course Descriptions and Credit Categories**

English Language Arts  
Social Studies  
Math  
Science  
Project Lead the Way  
Fine Arts  
Practical Arts  
Foreign Language  
PE/Health  
Other

## **Section 6 – Vocational & Technical School Programs**

South Technical High School

## **Section 7 – Individualized Study Options**

Online/Summer School/Credit Recovery  
Alternative Programs



## **Section One**

# **Graduation Requirements & General Information**

# **Career and Education Planning Critical Vocabulary**

## **Unit of Credit:**

One unit of credit is earned for successfully completing two semesters of work. Courses meeting daily for one semester earn one-half (.5) credit.

## **Required Course:**

A course which is required by either the State Department of Education or Bayless High School for graduation. Required course work that is failed can be made up in summer school (if offered) or in an extra semester of work.

## **Elective:**

A course which a student chooses to take, but is not specifically required for graduation. Once a student has met the credit requirements in a specific subject area, any additional credits taken in that area may count as elective credits.

## **Pre-requisite:**

A course that must be successfully completed before another related course may be taken. For example, Algebra 1 must be passed before Geometry can be taken.

## **Grade Point Average (GPA):**

The student's grade point average will be figured on the basis of semester grades in all subjects. No term grade will be used to determine the GPA. Letter grades will be given the following values and then averaged to determine your GPA. A=4 points; B=3 points; C=2 points; D=1 point; F=0 points. Students enrolled in Honors courses will receive an extra 1.0 point value for a letter grade of A, B, or C.

## **Transcript:**

A transcript is an official record of a student's grades and standardized test scores. The school must have written permission of the student. Request forms are available in the counseling center. Grades are transcribed at semester.

## **PLTW:**

Project Lead The Way (PLTW) offers a dynamic high school program that provides students with real-world learning and hands-on experience. Students interested in engineering, biomechanics, aeronautics, biomedical sciences and other applied math and science arenas will discover PLTW is an exciting portal into these industries. Bayless High School has partnered with St. Louis Community College to offer both articulated and dual credit for the PLTW coursework offered at BHS.

## **AP:**

Advanced placement (AP) Courses are offered to provide students rigorous curriculum to help prepare them for college. AP courses are designed to prepare students for the AP exam.

## **Dual Credit:**

Courses in which students earn both high school and college credit. Dual credit courses enable high school students to receive, simultaneously, both high school and college-level course credit. They provide high-performing high school students an affordable opportunity to experience high-quality college-level courses.

## **Dual Enrollment:**

Dual Enrollment occurs when a high school student takes a college course not offered as a dual credit class. Each post-secondary institution has procedures for dual enrollment students. All dual enrollment students must get permission from Bayless High School to participate in Dual Enrollment. SEMO classes offered at Bayless are considered Dual Enrollment and students must pay for the college credit to take the high school course.

## **Personal Plan of Study:**

All BHS students will complete a personal plan of study designed to guide coursework for future plans. This plan is aligned with the Program of Study coursework for their career of choice. Parents, advisory teachers, students and the school counselor are all important stakeholders in the development of a quality personal plan of study.

## Graduation Requirements

To meet high school requirements, a student must successfully complete a program, which shall satisfy specific legal requirements as prescribed by the State Department of Education and by Bayless Consolidated School District which shall contain a distribution of credit as indicated in the following chart. Including the number of credits, specific courses are required by the State of Missouri and/or by Bayless High School. Students are also required by the State of Missouri to pass the United States and Missouri Constitution tests prior to graduation. The Constitution tests are embedded in the American Government course at Bayless. The Missouri Department of Elementary and Secondary Education also requires documentation that each student has completed End of Course Exams in the following subjects: Algebra I, English II, Biology and American Government & the state administered ACT.

Subject	Credits	Specifics
English	4.0	Eight Semesters of English Language Arts courses
Mathematics	3.0	Six semesters of math courses
Science	3.0	Two semesters of Principles of Physics or PLTW PBS Two semesters of Chemistry Two semesters of Biology
Social Studies	3.0	Two semesters of World History Two semesters of American Government Two semesters of American History
Physical Education	1.0	Two semesters of P.E. Courses
Health	0.5	One semester of Health
Fine Arts	1.0	Two semesters of Theater, Art, or Music
Practical Arts	1.0	Two Semesters of Business Marketing or Multimedia, Family & Consumer Sciences, or South County Technical Courses or PLTW Engineering Courses
Personal Finance	0.5	One semester of Personal Finance
Electives	7.0	Suggested Career Path Electives
<b>Total</b>	<b>24.0</b>	<b>Credits required for graduation</b>
<b>Missouri State End of Course Exams:</b>		Algebra I, English II, Biology, American Government, State Administered ACT test
		Take and Pass U.S. and Missouri Constitution Tests while in High School

## Graduation Honors

<i>Summa Cum Laude</i>	<i>4.0 or above cumulative GPA</i>
<i>Magna Cum Laude</i>	<i>3.75 – 3.99 cumulative GPA</i>
<i>Cum Laude</i>	<i>3.5 – 3.74 cumulative GPA</i>

## Early Graduation

As per Missouri State Department of Elementary and Secondary Education graduation requirements, students are expected to complete eight (8) semesters of high school. If a student, for sound educational and vocational reasons, wishes to graduate from high school in less than eight semesters, they may request a waiver of this policy. The student and his/her parent(s)/guardian(s) will consult with his/her high school counselor to develop a Personal Plan of Study. A request for early graduation must be a planned part of a student's educational program. The deadline for early graduation application is within 5 days of the end of semester 6. **Applications must be submitted & approved to the high school principal.** Consider the following when applying for early graduation:

- Student's eligibility to receive Social Security benefits may be affected by early graduation, since the student may no longer be considered a full-time student.
- Students enrolled in work release programs such as Marketing II are ineligible for early release.
- South Tech students are not eligible for early graduation.
- Students leaving after the seventh semester may be eligible to receive their high school diploma with their graduation class. Graduating seniors who choose not to participate in the graduation ceremony may pick up their diplomas in the high school principal's office in the established timeframe after graduation.
- Students may not participate in activities regulated by the Missouri State High School Activities Association unless enrolled in 6 credit-earning classes and earned 3.00 credits the previous semester.
- Students who have been approved for early graduation and partial release options are eligible for local scholarships unless a specific scholarship would indicate the student is not eligible.
- It is the student's responsibility to stay in touch with the school in regard to important semester events (i.e. graduation rehearsal).
- Students and parents may want to check with their health and auto insurance company concerning coverage since the student may not be considered full time.
- A+ eligibility may be affected. Students and parents should consult with the A+ Coordinator.
- All students must have taken the required End-Of-Course Assessments.
- May not attend school dances including Prom unless invited by an enrolled Bayless student.

## Grading System

The school year is divided into two semesters of two grading periods each. Report cards are issued at the end of each grading period and are reports of student progress to both student and parent. Report cards are to be examined and evaluated by the parent with the student. The semester coursework is calculated at 80% and the final exam is 20% of the semester grade. Grades and their corresponding percentages and points are listed below.

Letter Grade	Percentage	Grade Points	Honors, PLTW and Dual Credit Grade Points
A+	98-100	4.0	5.0
A	93-97	4.0	5.0
A-	90-92	4.0	5.0
B+	88-89	3.0	4.0
B	83-87	3.0	4.0
B-	80-82	3.0	4.0
C+	78-79	2.0	3.0
C	73-77	2.0	3.0
C-	70-72	2.0	3.0
D+	68-69	1.0	1.0
D	63-67	1.0	1.0
D-	60-62	1.0	1.0
F	0-59	0.0	0.0

## AP, Honors, PLTW & Dual Credit Classes (Weighted Classes)

### Honors

- Algebra II
- Biology
- Geometry
- Pre-Calc
- Principles of Physics

### Advanced Placement (AP)

- AP English Literature
- AP Calculus
- AP American Government
- AP Physics

### Dual Credit

- Composition I and II
- European History
- German III
- Spanish III

### PLTW

- Introduction to Engineering Design
- Principles of Engineering
- Environmental Sustainability
- Engineering Design and Development
- Computer Science Essentials
- Introduction to Biomedical Science
- Human Body Systems
- Medical Interventions
- Capstone Course Biomedical Innovation
- STL C@PS

### Dual Enrollment College Credit

#### SEMO Courses

- American History
- Psychology
- Sociology
- Statistics
- College Algebra

**Incomplete Work:** The grade “I” is assigned when sickness or other legitimate cause beyond the control of the student prevents the completion of major course work. In such cases, a reasonable time extension will be allowed. **IF THE REQUIREMENTS ARE NOT MET, THE PARENTS AND THE STUDENT WILL BE INFORMED AND THE “I” WILL BE CHANGED TO THE GRADE EARNED.**

Only semester grades are permanently recorded on the transcript. All other grades are indicators of the student’s progress for a grading period.

## Final Exams

Final exams are scheduled for the last 3 1/2 credits of each semester for all students. Students who are not in attendance for the days of their finals will receive a zero for the exams they miss. Please note that snow days may affect the dates of finals. Vacation or personal absences are not excusable. Final Exams are worth 20% of the finals semester grade and in courses with EOC tests, 10% of the final exam grade is earned on the EOC.

### Senior Final Exemption Second Semester

Seniors may have the option of not taking the final exam if they meet the following criteria:

1. 4 or fewer absences during the semester
2. 9 or fewer tardies to school
3. **Earned a "C" grade or better**
4. No discipline issues in the previous semester, may have the option of not taking the final examination required by all students within the course.

Finals are mandatory for courses taken for college credit and/or weighted grades.

## Athletic/Activities Eligibility

A student who intends to participate in an activity sanctioned by the Missouri State High School Activities Association (MSHSAA) must meet the following requirements:

- Be currently **enrolled in courses that offer at least 3.0** units of credit.

- Have **earned at least 3.0 units** of credit the previous semester. (Credit earned or completed after the close of the semester (grade change) shall not count as having been earned that semester; summer school credits earned will count toward the previous semester credits earned).
- Be **considered a good school and community citizen.**
- Please consult with the athletics director for specific guidelines regarding eligibility.

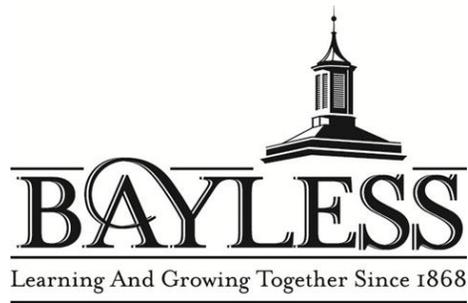
### **Grade Level Classification**

At the beginning of each school year, students are assigned to advisory based on grade. Students will be classified in grade levels based on progress toward graduation from high school. Grade classifications are listed here:

Freshman	0-6 Credits
Sophomore	6-12 Credits
Junior	12-17 Credits
Senior	17 Credits & more

A student transferring into Bayless High School will be entered into the appropriate cohort grade upon receipt of transcripts from previous schools. When transfer students are unable to meet the state and/or Bayless High School graduation requirements, the high school principal may make exceptions in specific requirements, which will permit them to graduate.

- they have done satisfactory work since the date of transfer; and
- they have been unable to meet the specific requirements due to conditions beyond their control; and
- they would have graduated from the former school if they had not transferred.



## **Section Two**

# **Academic Planning: Personal Plans of Study Career Paths & Career Clusters**



## **Career Paths**

Career paths are clusters of occupations/careers grouped according to participants' interests and talents or skills. All paths include a variety of occupations that require different levels of education and training. Thus, career paths provide a plan for all students, whatever their interests, abilities, talents, or desired levels of education. Selecting a career path provides a student with an area of FOCUS, along with FLEXIBILITY and a VARIETY of ideas to pursue. The focus of career paths is on helping students choose a career path, not a specific occupation. Selecting a career path is not a lifelong commitment; it is a place to begin focusing one's energies.

As students take different courses and learn more about themselves and careers, they will probably change career paths. Students who understand the career paths concept will be aware that there are a variety of other related possibilities if the first path no longer fits them. If different career paths become more interesting, the students can reevaluate plans, make appropriate decisions, and revise their high school plan as necessary.

### **Benefits of Career Paths**

Deciding on a career path can assist students in exploring interests and preparing for the future. The intent is not for you to decide on a specific occupation for the rest of your life, but to select a career path into which you can begin directing your energies. Identifying a career path can help you in selecting school courses, activities, and part-time employment. It can also help guide your participation in job shadowing, career exploration and internship. A career path choice is not a permanent commitment. As you have new experiences, you learn new things about yourself and may decide to change career paths. If you decide on a different career path to explore, you should discuss it with your counselor and adjust your future course selections in accordance with your new career exploration.

### **Decide What Career Path Fits Your Interest and Abilities**

BHS students will work with career pathways inventories that examine their personal interests, activities, aptitudes, and personality type beneath one of the six categories.

#### **1. Choosing a Career Path:**

- Identify your interests, abilities, and talents.
- Review the possible career strands in each path in relationship to your interests, abilities, and talents.
- Decide which career strand seems to best reflect the above.
- Select courses that are related to the career path you have chosen. Use the programs of study as a resource.
- If undecided regarding a career strand, choose courses from different career strands to give you a better idea of your interests.

#### **2. Decide Where you Want to Go**

Think about what you want to gain from your high school years. Honestly pursue the available information about career fields and use it to set some post-secondary goals early in your high school career. Determine what additional training beyond high school is required for your chosen field.

#### **3. Review the Graduation Requirements**

As you plan your program of studies make certain you select those subjects that will permit you to graduate. Remember that you are solely responsible for the successful completion of the minimum graduation requirements. It is important to remember that you need to satisfy as many of the graduation requirements as early in your school career as possible.

#### **4. Review the Course Descriptions**

Use the planner as a guide for selecting particular subjects. Discuss the guide with your parents, and utilize the professional services of the school staff. Pay particular attention to any prerequisite subjects required and academic recommendations suggested before making a selection for advanced courses.

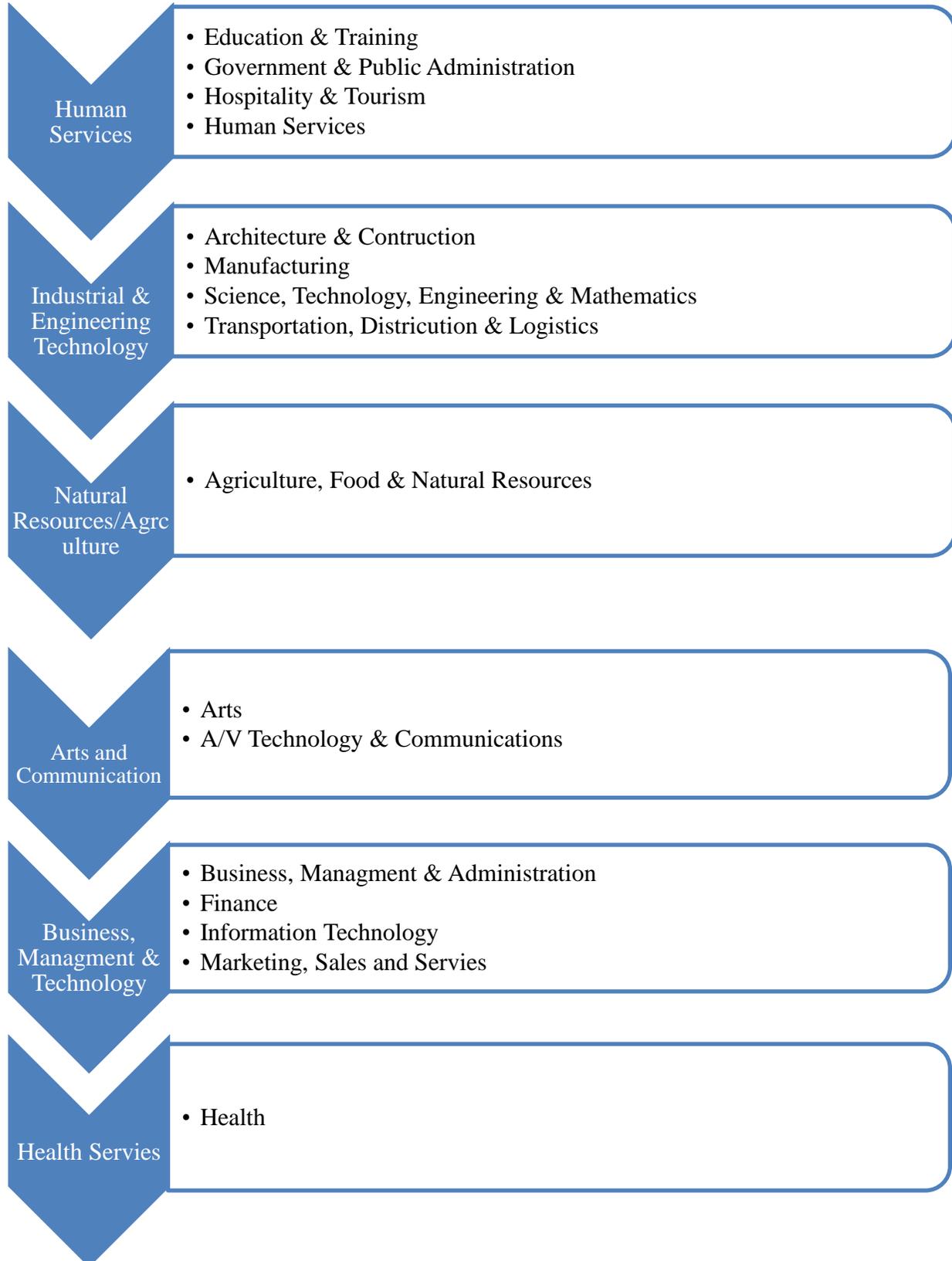
#### **5. Consider Information About Yourself**

Your counselor probably has information about you as a result of tests and inventories you have taken. Discuss your likes, dislikes, and interests with your parents, teachers, and perhaps people successfully employed in areas of work that seem desirable to you. ASVAB and other interest inventories will help you explore your personal interests.

## 6. Programs of Study

Programs of study will aid a student in making a seamless transition from high school to post-secondary education. A program of study should guide a student through course selections.

### Career Paths & Career Clusters



## The Sixteen Career Clusters

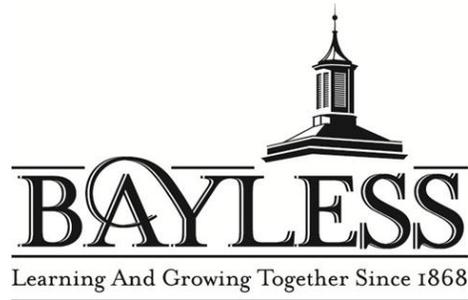
	<p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p>
	<p>Careers in designing, planning, managing, building and maintaining the built environment.</p>
	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p>
	<p>Business Management and Administration careers encompass planning, organizing, directing and evaluation business functions essential to efficient and productive business operations. Business Management and Administration <u>career opportunities</u> are available in every sector of the economy.</p>
	<p>Planning, managing and providing education and training services, and related learning support services.</p>
	<p>Planning, services for financial and <u>investment planning</u>, banking, insurance, and business <u>financial management</u>.</p>
	<p>Executing governmental functions to include: Governance, National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.</p>
	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support service, and biotechnology <u>research and development</u>.</p>
	<p>Hospitality &amp; Tourism encompasses the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.</p>
	<p>Preparing individuals for employment in career pathways that relate to families and human needs.</p>
	<p>Building Linkages in IT Occupations Framework for Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and System Integration Services.</p>
	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>
	<p>Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>

	<p>Planning, managing, and performing marketing activities to reach organizational objectives.</p>
	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p>
	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p>

### **My 10 Year Plan: Digital Personal Plan of Study**

My 10 Year Plan is a digital personal plan of study that is the foundation to the Career Choices and Technology course required for all freshmen. My10yearplan.com enhances the career awareness, exploration and preparation for all students.

All students will create and revise a personal My 10 Year Plan while in high school. This tool will be used to assist in course selection along with future planning.



## **Section Three**

# **Honors Programs College Credit Offerings & Post High School Planning Guidelines**

# Honors Program

Bayless High School offers an Honors Program for underclassmen, while upperclassmen may take dual credit courses. This program is designed for motivated students who want to challenge themselves academically.

Advantages for pursuing the Honors Program:

- Colleges and universities are looking for students who challenge themselves with rigorous high school courses, which have become an important factor in college admissions.
- Department of Education research indicates that students who take challenging courses in high school enter college better prepared, with the ability to manage the workload, and to successfully graduate on time.
- Successful test scores and grades in Honors classes can lead to college credit and exemption for introductory courses. This gives students time to broaden their college experience by exploring additional subject areas and participating in internships.

Honors classes are offered through PLTW, Mathematics and Science courses. Students planning to take college level coursework during high school are strongly encouraged to pursue honors classes their first two years of high school. Please see your school counselor if you would like to discuss any/all honors courses at BHS. Bayless High School implements open enrollment for honors courses.

## College Credit Offerings

### Dual Enrollment

Dual enrollment allows students to attend an approved post-secondary institution to earn college credit while still in high school. Students are expected to be enrolled in at least 4 classes at Bayless High School. To be eligible for Dual Enrollment on a college campus, a student must have earned at least 20 credits to participate in the first semester, 22 credits in the second semester and have a minimum 2.5 GPA. The student is responsible for applying to the college and completing all steps in the admissions process required by the college. Interested students are advised to meet with their counselors for additional information. SEMO classes offered at Bayless are considered Dual Enrollment and students must pay for the college credit to take the high school course.

### Dual Credit Courses at Bayless High School

Dual credit classes allow eligible students to earn both high school and college level credit for classes at their high school during the regular school day. Several Missouri colleges and universities work with high schools to offer dual credit courses. These classes are taught at the college level, using texts, teaching methods, and examinations comparable to those used on college campuses. Because each student will be granted college credit from a specific college, the institutions' policies concerning registration, tuition, fees, etc. must be followed. Students may complete the course and elect not to receive college credit.

The Coordinating Board for Higher Education (CBHE) has the following requirements for dual credit courses.

Students in dual credit classes must meet the additional criteria listed below:

- Students in the 11<sup>th</sup> and 12<sup>th</sup> grades with an overall minimum grade point average of 3.0 (on a 4.0 scale) are automatically eligible for dual credit courses.
- Students in the 11<sup>th</sup> and 12<sup>th</sup> grades with an overall grade point average between 2.5 – 2.99 (on a 4.0 scale) must provide a signed letter of recommendation from their principal or guidance counselor and provide written permission from a parent or legal guardian.
- Students in the 10<sup>th</sup> grade must have an overall minimum grade point average of 3.0 (on a 4.0 scale) and must provide a signed letter of recommendation from their principal and guidance counselor and provide written permissions from a parent or legal guardian.
- Students in 9<sup>th</sup> grade must have an overall minimum grade point average of 3.0 (on a 4.0 scale), score at the 90<sup>th</sup> percentile or above on the ACT or SAT, and provide a signed letter of recommendation from their principal and guidance counselor and provide written permission from a parent or legal guardian.

The following courses may be offered for college credit (through Bayless High School)

**Dual Credit Courses through Saint Louis University (SLU)**

Spanish III  
German III

**Dual Credit Courses through the University of Missouri – St. Louis (UMSL)**

European History HIST 1031 (3 credits) and HIST 1032 (3 credits)

**Dual Enrollment College Credit Courses through SEMO**

Psychology	PSYCH 101
Sociology	SOC 101
US History I and II	US105 & US107
College Algebra	MA134
Statistics	MA155

**Dual Credit Courses through STLCC**

Composition I	ENG 101
Composition II	ENG 102

**Advanced Placement (College Board)**

AP English Literature  
AP Calculus  
AP Government  
AP Physics

## **A+ Tuition Assistance Program**

The Missouri A+ Schools Program was created in 1993 by the Outstanding Schools Act. The goal of the A+ Program is to prepare students for advanced education, training, or employment.

**Goals of the A+ Schools Program**

- All students will graduate from high school.
- All students will complete a selection of high school studies that is challenging and has identified learning expectations.
- All students will proceed from high school graduation to college, post-secondary career/technical school, or a high-wage job with workplace skill development opportunities.

**Student Financial Incentives**

A+ qualified high school graduates may be eligible to receive state-paid tuition assistance for their post-secondary education. The A+ Schools Program’s financial incentives for post-secondary education are determined by appropriations from the Missouri General Assembly and are available for any public community college or public career/technical school in Missouri.

**Applying**

It is a Universal Expectation that all students sign the *A+ Agreement Form* and the *Citizenship Agreement Form*. All students will be given the A+ Student Handbook. The A+ Coordinator will check eligibility requirements and provide regular updates at grading periods. The A+ Office will check student eligibility at the end of each semester and provide a written update to each student.

## **Requirements of the Program**

Students interested in participating in the A+ program at Bayless must meet the following requirements:

1. Attend a designated High School for three consecutive years prior to graduation.
2. Maintain a 95% high school attendance record. (4 years)
3. Graduate from Bayless High School with a cumulative grade point average of 2.5 or higher on a 4.0 scale. (4 years)
4. Perform 50 hours of unpaid tutoring or mentoring in the Bayless School District. This can be done through a credit bearing elective course.
5. Maintain a 4-year record of good citizenship and avoidance of the unlawful use of drugs & alcohol.
6. Make a good faith effort to secure all available federal post-secondary student financial assistance funds that do not require payment. (**Seniors must fill out a FAFSA form to receive funds through this program.**)
7. Students are required to score proficient or advanced on the Algebra I EOC or score a 17 on the ACT math subtest to receive the financial incentives of the program.

## **NCAA Eligibility Standards**

If you are interested in participating in Division I or II athletics, you must meet minimum high school academic requirements. You must register after the 6<sup>th</sup> semester with the NCAA clearinghouse at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net). The clearinghouse will use your GPA and ACT and/or SAT scores to determine eligibility. All NCAA approved courses are designated in this Career and Educational Planning Guide. See your counselor for more information and to notify your school counselor that you are interested in NCAA Freshmen Eligibility.

## **Preparation for College**

Since colleges and universities routinely change their admission requirements, students and parents should make every effort to know the requirements of the particular school(s) to which they plan to apply. They should consult the bulletin available in the Counseling Center, view the institution's website, attend local and regional college fairs, speak to admissions representatives who visit Bayless High School, and consult with their school counselor. A personal visit to the institution, whenever possible, is strongly advised.

## **Standardized Testing**

Standardized tests are designed to give a common measure of students' performance. Test results help compare an individual's performance with the performance of a group of students from a given class, school, or school system. Since large numbers of students throughout the country take the same test, "standards" can be developed to show whether school programs are succeeding and how students are performing. Standardized achievement tests measure how much students have already learned about school subjects such as reading, math, language skills, spelling, or science. Standardized aptitude tests measure a student's ability to learn in school by measuring verbal ability, mechanical ability, creativity, clerical ability, or abstract reasoning.

### **PSAT/NMSQT**

#### **11<sup>th</sup> Grade Honors Math Students**

#### **Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test**

The PSAT/NMSQT measures verbal and mathematics reasoning skills important for academic success in college. It serves three purposes: gives the student practice for the SAT I is the first step in qualifying for scholarships sponsored by the National Merit Scholarship Corporation and other scholarship programs gives the student the opportunity to participate in the Student Search Service. This test is administered to Honors Math students in the junior year for NMSQT qualification. There is a fee to take the test.

## **College and Career Readiness (CCR) Assessments**

All Bayless graduates will take one (or more) CCR assessment prior to graduation. Bayless offers a variety of CCR assessments which all provide valuable information for students & our school.

## **ASVAB**

### **The Armed Services Vocational Aptitude Battery Required Test all 11<sup>th</sup> Grade Students**

The ASVAB measures students' strengths and potential for future success. The ASVAB also provides career information for various civilian and military occupations and is an indicator for success in future endeavors including college, vocational school, or a military career.

## **ACT National**

### **American College Testing Program**

The ACT is a battery of four examinations in English, math, reading, and science reasoning, each of which yield separate scores measuring developed abilities. The test is required by many colleges as part of the application process for admission. There is a fee for this test.

## **SAT I**

### **Scholastic Aptitude Test**

SAT I is a test used to predict student performance in college. Required by some schools as part of the application process, this three-hour test has two main sections-verbal and math. There is a fee for this test.

## **Work Keys**

All students who finish a South Tech program will take the Work Keys assessment. Some students not participating in a South Tech program will take this assessment as a CCR measure. Work Keys assessments vary in the kinds of skills they measure. Whether taking just one assessment or a series of them, targeted preparation helps individuals, educators, and test administrators know what to expect on test day.

## **Assessments Required by the State of Missouri**

### **End of Course Exams (EOC)**

End of Course Exams are administered to students in Algebra I, Algebra II Honors, Geometry Honors, English I, English II, Biology, and Government. Part of the Missouri Assessment Program (MAP), EOC's are criterion-referenced tests that are delivered to middle and high school students when the Course-Level Expectations for a particular course have been covered in an effort to determine whether the requirements of the Missouri State Board of Education have been met.

### **ACT-State Administered**

The State of Missouri is committed to College and Career Readiness for all students. The ACT exam is now a requirement for all 11<sup>th</sup> grade students in Missouri. The state administered ACT will be given in April. The test is identical to a national optional ACT test and is a battery of four examinations in English, math, reading, and science reasoning, each of which yield separate scores measuring developed abilities. The state administered test results will be considered valid for NCAA and the college application process. The state administered ACT includes the writing portion of the ACT. This is a requirement and there is no fee assessed on students.



# Course Descriptions

*During any given year, courses at Bayless High School may not be offered due to lack of student interest or faculty availability/certification.*

*Be sure to consult with your school counselor and administrators to determine which courses will be offered for the upcoming academic year.*

# English Language Arts

*Graduation credits required: 4*

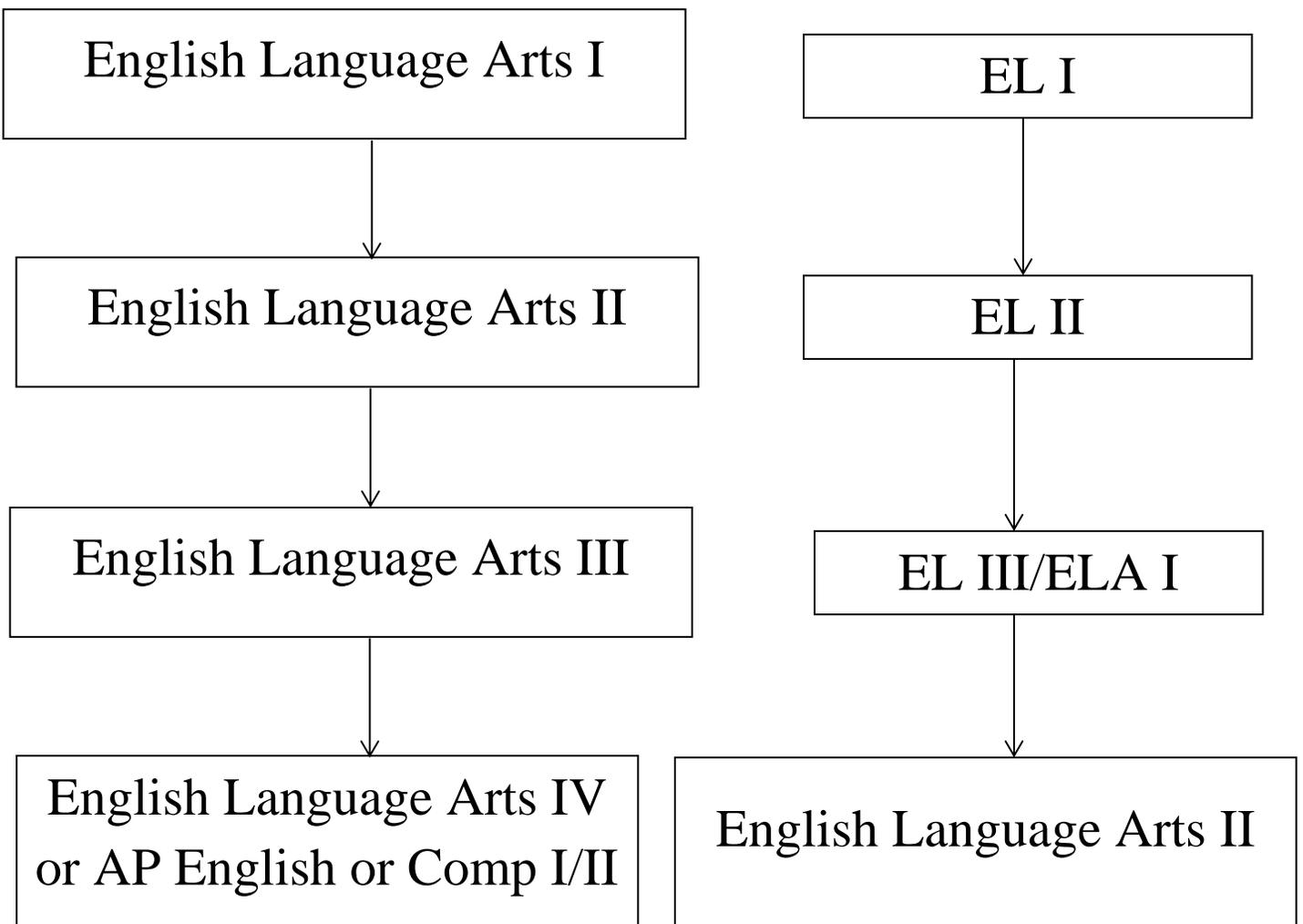
## Required Courses:

English Language Arts I  
English Language Arts II  
English Language Arts III  
English Language Arts IV or AP English  
or Composition I/II

## English Learners:

EL English I  
EL English II  
EL English III/ELA I  
English Language Arts II

## Course Sequence:



**English Language Arts I, Genre Literature****Grade 9****1 Credit – Full Year****NCAA Approved**

This year-long course consists of instruction in composition, reading fiction and nonfiction, grammar, speaking/listening, research and vocabulary development. Explicit instruction in both comprehension strategies for fiction and nonfiction and literary analysis and evaluation will be included. Students will use the writing process to produce research, narrative, argumentative, and informative essays. The grammar covered includes areas needed to improve writing such as sentence structure, rules of usage, and organizational structures. Both formal and informal presentations will be included in the development of speaking and listening skills. Students will research and complete a formal research essay. Students will actively develop their vocabulary with a special emphasis on academic vocabulary.

**English Language Arts II, Multicultural Literature****Grade 10****1 Credit – Full Year****NCAA Approved***Prerequisite: English Language Arts I*

This year-long course consists of instruction in reading, writing, word study, research, and speaking/listening. Reading assignments will include selections of multicultural literature from the 7th century to today, and strategies for improving comprehension will be stressed. Students will compose informative, argumentative, and narrative essays while continuing to strengthen their vocabulary. Many formal and informal speaking and listening opportunities will also allow students to strengthen their communication skills.

**English Language Arts III, American Literature****Grade 11****1 Credit – Full Year****NCAA Approved***Prerequisite: English Language Arts I & II*

This year-long course focuses on the study of 19th and 20th century American Literature. Students will further develop reading comprehension and critical thinking skills by investigating literary criticism techniques and various reading strategies. Writing is emphasized and reinforced by evaluating different mediums and organizing effective arguments. Students will also create text-to-self connections and text-to-world connections by analyzing literature and connecting it with their personal experiences. Students will produce argumentative, informative, and narrative essays, as well as a formal research paper. Students are challenged through independent reading and writing and are expected to participate in class daily.

**English Language Arts IV****Grade 12****1 Credit – Full Year****NCAA Approved***Prerequisite: English Language Arts III*

This course is designed to prepare students for college and career composition. The course develops students' abilities in writing multiple paragraph texts and will focus on topics such as development, organization, grammar, sentences, paragraphs, and essay structure. This course will be conducted in a reading/writing workshop format. Students will explore and analyze texts and demonstrate understanding of the material through writing, projects, discussion, and/or presentations. Evaluation of student performance includes the use of journals, formal writing, presentations, oral discussion, homework, quizzes, and class participation. Students will also be expected to use the writing process to write one research paper and produce corresponding research presentations. Students are expected to take extensive ownership in the reading and writing for this course.

**AP English Literature and Composition****Grade 12****Weighted 1 Credit – Full Year****NCAA Approved**

This rigorous, college-level course is designed to meet the standards outlined by the College Board. Students will examine a range of British and American literature—including novels, short stories, poetry, non-fiction, and drama—from the 16th century to the present. Through active participation in daily assignments and activities, they will develop close reading habits that will help them to better comprehend, annotate, interpret, and analyze literature, as well as understand the historical contexts, literary devices, and themes presented by each work. Most of all, they will be encouraged to question the texts read and come to their own understanding of each author's meaning. Readings will be reinforced by a range of formal and informal writing assignments. Formal assignments will include narrative, informative, analytical, and argumentative essays, which will be written (and often rewritten) with the overall goal of improving word choice, sentence structure, organization, and use of textual evidence. Students will conduct research to write both informative and argumentative formal research papers. Two to three creative writing assignments will also allow students to experiment with unique styles and structures. Finally, writing will occasionally be timed in class to prepare for the AP exam, which requires students to compose well-developed responses under pressure. For formal assignments, students will often reflect and revise in order to improve their writing.

**Comp I - ENG:101 College Composition I****Grade 12****Weighted ½ Credit – Semester****NCAA Approved**

*Prerequisite: MDHE requirements*

This course primarily focuses on the development of various writing techniques. Students will develop effective writing styles, writing processes, revision practices, and analytical skills. Students will make extensive use of the writing process for academic and career-related writing project. This course offers college credit through St. Louis Community College - Meramec.

**Comp II - ENG:102 College Composition II****Grade 12****Weighted ½ Credit – Semester****NCAA Approved**

*Prerequisite: MDHE requirements and Composition I*

This course builds on knowledge and skills learned in Composition I and primarily focuses on argumentative and persuasive writing techniques that make extensive use of research. Students will develop effective writing processes, writing styles, research abilities, analytical skills, and argumentative tools. Students will make extensive use of the writing process to prepare for academic writing. This course offers college credit through St. Louis Community College - Meramec.

**EL English I****Grades 9 – 12****1****Credit – Full Year**

*Placement: Determined by English Language Proficiency Assessment*

This is a one-year basic/beginning course facilitating the use of the English language for students who are learning academic and social English. Students will develop introductory skills in listening, speaking, reading and writing. Students will be taught vocabulary and reading strategies to facilitate comprehension as applied to a variety of literary genres. Sentence and paragraph writing using Standard English grammar will be introduced. This course earns 1 English Language Arts credit.

**EL English II****Grades 9 – 12****1 Credit – Full Year**

*Placement: EL English I and/or performance on the English Language Proficiency Assessment and District Reading and Writing Assessment.*

This is a one-year high beginning/intermediate course continuing the development of the use of the English language for students. Students will continue to develop skills in listening, speaking, reading, and writing. Instruction will emphasize academic vocabulary usage in speaking, listening, reading, and writing. Writing instruction will expand to applying academic vocabulary and Standard English to compose simple essays involving more complex sentence usage. This course earns 1 English Language Arts credit.

**EL English III****Grades 9 – 12****1 Credit – Full Year**

*Placement: Successful completion of EL English II, and/or performance on the English Language Proficiency Assessment and District Reading and Writing Assessment.*

This is a one-year high intermediate/advanced course for further developing skills in listening, speaking, reading and writing. Emphasis will be on the continued development of academic vocabulary, reading comprehension, and writing multi-paragraph essays using complex sentence structure. Students successfully completing this course will earn 1 English Language Arts credit. Concurrent enrollment in English Language Arts I.

**READ 180****Grades 9 – 12****1 – 2 Credits – Full Year**

*Prerequisite: Faculty recommendation and assessment results*

Read 180 is an intensive reading intervention program designed to meet the needs of students whose reading achievement is below the proficient level. The program directly addresses individual needs through adaptive and instructional software, high-interest literature, and direct instruction in reading and writing skills. Read 180 is designed to increase students' decoding, fluency, vocabulary, comprehension, and writing skills. Instruction is differentiated and tailored to the individual needs of each student. The model includes experiences in whole and small group instruction, independent reading, and technology-based learning. Read 180 is a 110-minute block that earns 1 English Language Arts credit per semester.

**College and Career Literature****Grades 11 & 12****½ Credit – Semester**

*Prerequisite: Faculty recommendation and assessment results*

This elective course is designed to enhance student performance in English Language Arts through a small group reading/writing workshop format with a focus on college and career preparation. Through its focus on intense writing strategies, this course will also prepare students to complete appropriate state mandated English assessments. While there are no outside assignments or projects for this course, daily active participation in all in-class activities is mandatory.

**Public Speaking****Grades 10-12****½ Credit – Semester**

Public Speaking is a semester course that focuses on developing effective public speaking techniques, both verbal and non-verbal. Students will study the role of the communicator and organize, prepare and deliver presentations before an audience. Students will learn how to deliver ideas in a clear, concise and appropriate manner. Students will also learn the essential skill of listening to speech critically and fairly. The content includes a study of various forms of oral communication, techniques of group discussion, techniques of effective listening, analysis of various audiences, and techniques of public speaking.

**Literacy Support****Grades 9 – 12****½ Credit – Semester**

*Prerequisite: Faculty recommendation and assessment results*

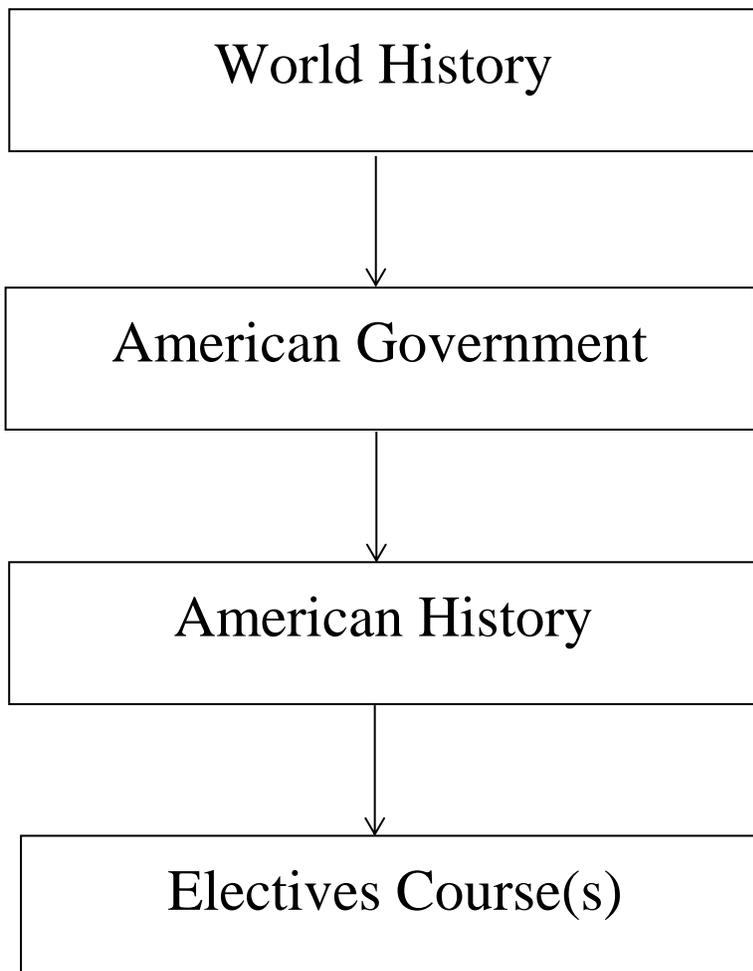
This elective course is designed to enhance student performance in English Language Arts through a small group reading/writing workshop format. Through its focus on intense writing strategies, this course will also prepare students to complete appropriate state mandated English assessments. While there are no outside assignments or projects for this course, daily active participation in all in-class activities is mandatory.

## Social Studies

*Graduation credits required: 3*

Course Sequence:

<p><b>Required Courses:</b> World History American Government American History</p>	<p><b>Electives:</b> Psychology Sociology <b>College Credit:</b> Psychology (SEMO) Sociology (SEMO) American History (SEMO) European History (UMSL)</p>
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<b>World History</b> <b>1 Credit – Full Year</b>	<b>Grade 9</b> <b>NCAA Approved</b>
This course is the study of chronological events in man's development from the 1400's, which will lead to a better understanding of problems in the modern world. The students will learn how our democratic form of government has evolved from an interaction of world events. The course will begin by condensing The Age of Global Explorations through The Age of Revolution; then more emphasis will be placed on modern history and the development of modern democracy. Map skills will be stressed.	
<b>American Government</b> <b>1 Credit – Full Year</b>	<b>Grade 10</b> <b>NCAA Approved</b>
This course is the study of the foundations of American Government. Students will study the origins of the American Governmental System along with an in-depth look at the three branches of the United States and Missouri Governments. The American Government EOC will be given at the end of the course. Fourth quarter is comprised of topics in Early American History (Columbus landing in the Americas to the Civil War). The U.S. and Missouri Constitution tests are course requirements.	
<b>American History</b> <b>1 Credit – Full Year</b>	<b>Grade 11</b> <b>NCAA Approved</b>
In this course students will identify, summarize, and evaluate key persons and events in US history from the mid-19th century through the beginning of the 21st century. There will be a focus on reading comprehension, improving writing skills, analyzing data, and interpreting maps, graphs, and tables. Interdisciplinary connections will be made between Social Studies content and other subject areas, and a research paper will be written during the second semester.	
<b>Psychology</b> <b>½ Credit – Semester</b>	<b>Grades 11 &amp; 12</b> <b>NCAA Approved</b>
This is an interactive class in which students will study different aspects of the human brain and behavior. Topics covered include the history of Psychology, how the brain works, theories of personality, and the troubled personality. This course gives the students the opportunity to be introspective as well as to do a variety of projects. This course is geared toward the college-bound student.	
<b>Sociology</b> <b>½ Credit – Semester</b>	<b>Grade 11 &amp; 12</b> <b>NCAA Approved</b>
This course focuses on the various aspects of group behavior as it occurs in the real world. It will include topics relating to culture, social class, minorities, the family, crime and punishment, the United States legal system and violence in our society. A research paper or project may be required. This course is geared toward the college-bound student.	
<b>AP United States Government and Politics</b> <b>Weighted 1 Credit – Full Year</b>	<b>Grade 10</b> <b>NCAA Approved</b>
AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning assess causes and consequences of political events, and interpret data to develop evidence-based arguments.	
<b>Dual Credit American History</b> <b>Weighted 1 Credit (6 College Credits) – Full Year</b>	<b>Grade 11</b> <b>NCAA Approved</b>
<i>Prerequisite: MDHE and SEMO dual credit requirements</i> This course focuses on the evolution of the cultural tradition of the Americas and fulfills the state requirement for American history. The first semester focus is on the earliest times to the mid-nineteenth century, with emphasis on the relationship of ideas and institutions to the historical background. The second semester	

covers the period following the Civil War to the present. Students write an MLA-style research paper each semester. SEMO course equivalents: US105, 3 credit hours and US107, 3 credit hours.

**Dual Credit European History**  
**Weighted 1 Credit – Full Year**

**Grades 11 & 12**  
**NCAA Approved**

*Prerequisite: MDHE and UMSL dual credit requirements*

In the first semester, lectures and discussions cover the development of Western European society and tradition from approximately 800 to 1715. The second semester focus is on Western Europe from 1715 to the present. Students are exposed to the concerns and methods of historical inquiry through lectures, analysis and discussion of selected texts, and writing of short papers. This course is for the student to acquire historical information and to learn, through example and practice (presentations, investigations, role-play, and discussions), a historical/critical method of thought and expression. UMSL course equivalents: History 1031, History 1032 – 6 credit hours.

**Dual Credit Psychology**  
**Weighted - ½ Credit – Semester (3 College Credits)**

**Grades 11 & 12**  
**NCAA Approved**

*Prerequisite: MDHE and SEMO dual credit requirements*

This course will explore various issues and aspects central to the study of human behavior and the mind including: human development, personality theory, research, learning and memory, motivation and emotion, language, thinking, and intelligence, stress and psychological disorders, and social thinking and behavior using lecture, discussion, critical thinking activities to stimulate learning and application. SEMO Course equivalent: Psychology 101—3 credit hours.

**Dual Credit Sociology**  
**Weighted - ½ Credit – Semester (3 College Credits)**

**Grades 11 & 12**  
**NCAA Approved**

*Prerequisite: MDHE and SEMO dual credit requirements*

Sociology examines how individuals, groups, and institutions interact to make up human societies. This course focuses on society and culture through a series of lectures, projects and group discussions analyzing the impact of society and culture on human social behavior. SEMO Course equivalent: Sociology Culture SO102—3 credit hours.

# Mathematics

*Graduation credits required: 3*

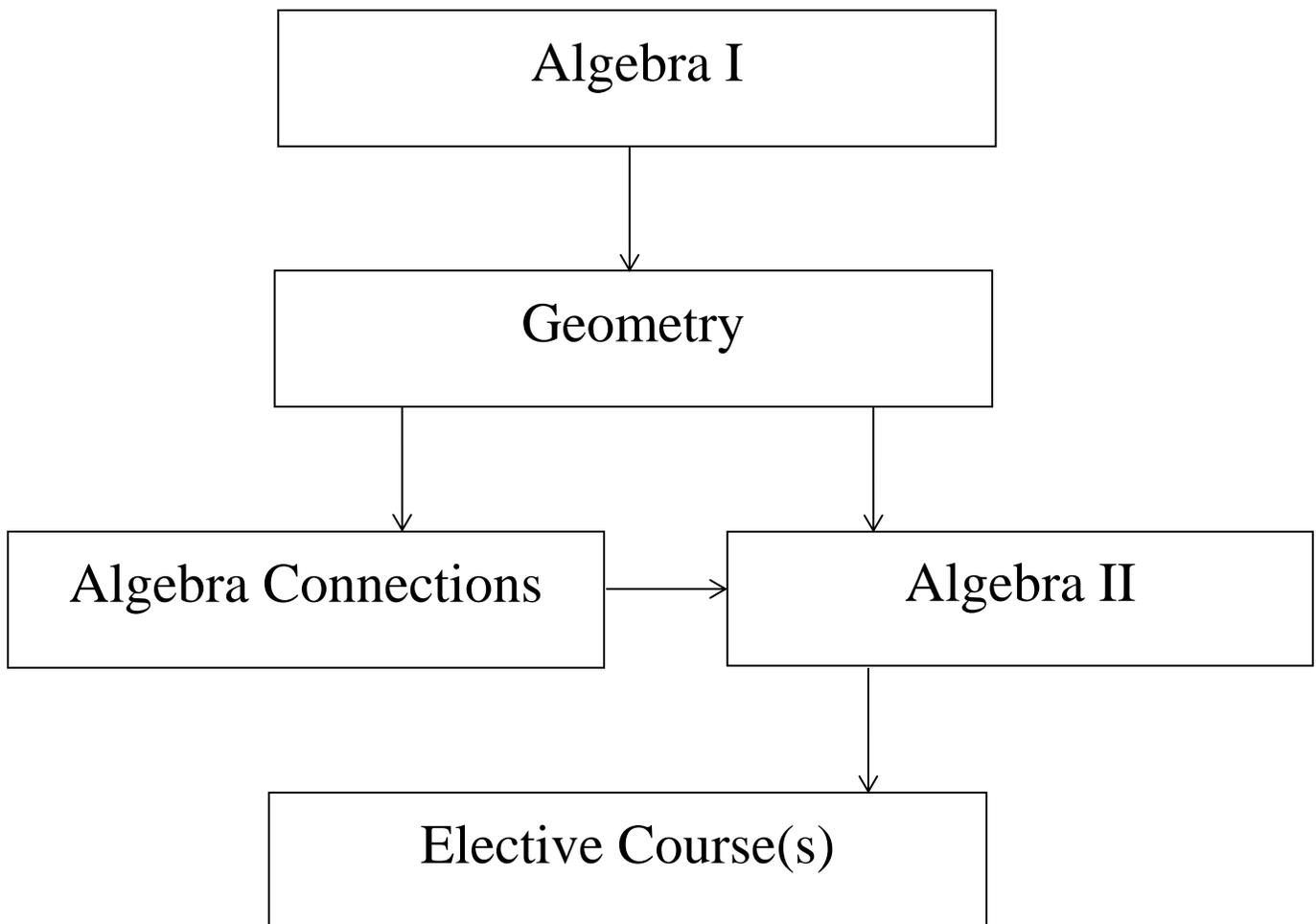
*College Bound Students: 4*

**Required Courses:**  
Algebra I  
Geometry  
Algebra II or Algebra Connections

**Electives:**  
Algebra Support Lab  
Geometry Support Lab  
Pre-Calculus Honors  
AP Calculus

**Dual Enrollment SEMO:**  
  
Dual Credit College Algebra  
Dual Credit Statistics

Course Sequence:



**Algebra I**  
**1 Credit – Full Year**

**Grades 9 – 10**  
**NCAA Approved**

Five critical areas comprise Algebra I: Relations and Functions; Linear Equations and Inequalities; Quadratic and Nonlinear Equations; Systems of Equations and Inequalities; and Polynomial Expressions. The critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout each unit and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The Algebra I EOC is given at the successful completion of this course.

**Geometry**  
**1 Credit – Full Year**

**Grades 10 – 11**  
**NCAA Approved**

*Prerequisite: Algebra I*

Geometry formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. This course will prepare students to be successful in the four-year mathematics sequence, higher education, and career. Six critical areas comprise the Geometry course: Congruency and Similarity; Measurement; Analytic Geometry; Circles; and Polyhedra. The Mathematical Practice Standards apply throughout each unit and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**Algebra II**  
**1 Credit – Full Year**

**Grades 10 – 12**  
**NCAA Approved**

*Prerequisite: Algebra I, Geometry*

The fundamental purpose of Algebra II is to formalize and extend the mathematics that students learned in Algebra I. The students will be exposed to more sophisticated equations and functions that can be used to model and solve real-world problems. This course will prepare students to be successful in the four-year mathematics sequence, higher education, and career. Algebra II builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout each unit and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**Algebra Connections**  
**1 Credit – Full Year**

**Grades 11 & 12**

*Prerequisite: Algebra I, Geometry, Faculty recommendation and assessment results*

Algebra Connections is a course designed for students who wish to increase their mathematical knowledge and skills prior to enrollment in the Algebra II course. Algebra Connections expands upon the concepts of Algebra I and Geometry with emphasis on application based problems. This course provides opportunities to incorporate the use of technology through its emphasis on applying functions to make predictions and to calculate outcomes.

**Geometry Honors**  
**Weighted 1 Credit – Full Year**

**Grade 9**  
**NCAA Approved**

*Prerequisite: Algebra I (students who took Alg. I in 8th Grade)*

This course is designed for the advanced math student. This course encompasses the entire Geometry curriculum at a more in depth scope exposing students to a fast paced, rigorous curriculum. Geometry formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. This course will prepare students to be successful in the four-year mathematics sequence, higher education, and career. Six critical areas comprise the Geometry course: Congruency and Similarity; Measurement; Analytic Geometry; Circles; and Polyhedra. The Mathematical Practice Standards apply throughout each unit and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students take the Geometry EOC at the end of the second semester.

**Algebra II Honors**  
**Weighted 1 Credit – Full Year**

**Grades 10 – 12**  
**NCAA Approved**

*Prerequisite: Algebra I, Geometry Honors*

This course is designed for the advanced math student. This course encompasses the entire Algebra II curriculum at a more in depth scope exposing students to a fast paced, rigorous curriculum. The fundamental purpose of Algebra II is to formalize and extend the mathematics that students learned in Algebra I. The students will be exposed to more sophisticated equations and functions that can be used to model and solve real-world problems. This course will prepare students to be successful in the four-year mathematics sequence, higher education, and career. Algebra II builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout each unit and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students take the Algebra II EOC at the end of the second semester.

**Pre-Calculus Honors**  
**Weighted 1 Credit – Full Year**

**Grades 11 & 12**  
**NCAA Approved**

*Prerequisite: C or above in Algebra II*

Topics in this course include rational functions, logarithmic functions, exponential functions, and trigonometric functions. A TI-83 or TI-84 graphing calculator is strongly recommended for this course because special attention will be given to using this graphing calculator as a tool for the study of mathematics.

**Statistics**  
**1 Credit – Full Year**

**Grades 11 & 12**  
**NCAA Approved**

*Prerequisite: Algebra II, College Algebra or Pre-Calculus*

Students will be exposed to a variety of formulas and statistical distributions that can be used to formulate hypotheses about real-life problems. The course covers data production and analysis; probability basics, distributions; sampling, estimation with confidence intervals, hypothesis testing, t-test; correlation and regression; cross tabulations and chi-square. Students learn to use Excel or a statistical package such as SPSS.

**Dual Credit College Algebra SEMO**  
**Weighted - ½ Credit – Semester (3 College Credits)**

**Grades 11 & 12**  
**NCAA Approved**

*Prerequisite: MDHE and SEMO dual credit requirements*

Functions and graphs, polynomial and rational functions, exponential and logarithmic functions, and sequences.

**Dual Credit Stats SEMO**

**Weighted - ½ Credit – Semester (3 College Credits)**

*Prerequisite: MDHE and SEMO dual credit requirements*

Statistical Reasoning. This course will introduce statistical ideas to students. The student will reach an understanding of these statistical ideas, be able to deal critically with statistical arguments, and gain an understanding of the impact of statistical ideas on public policy and in other areas of academic study.

**Grades 11 & 12  
NCAA Approved**

**College Algebra**

**1 Credit – Full Year**

*Prerequisite: earned 3 High School Math Credits*

This course is an in-depth study and application of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices

**Grade 12**

**AP Calculus AB**

**Weighted – 1 Credit – Full Year**

*Pre-Requisites: Algebra I, Algebra II, Geometry and Pre-Calculus*

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

**Grade 12  
NCAA Approved**

# Science

*Graduation credits required: 3*

*College Bound Students: 4*

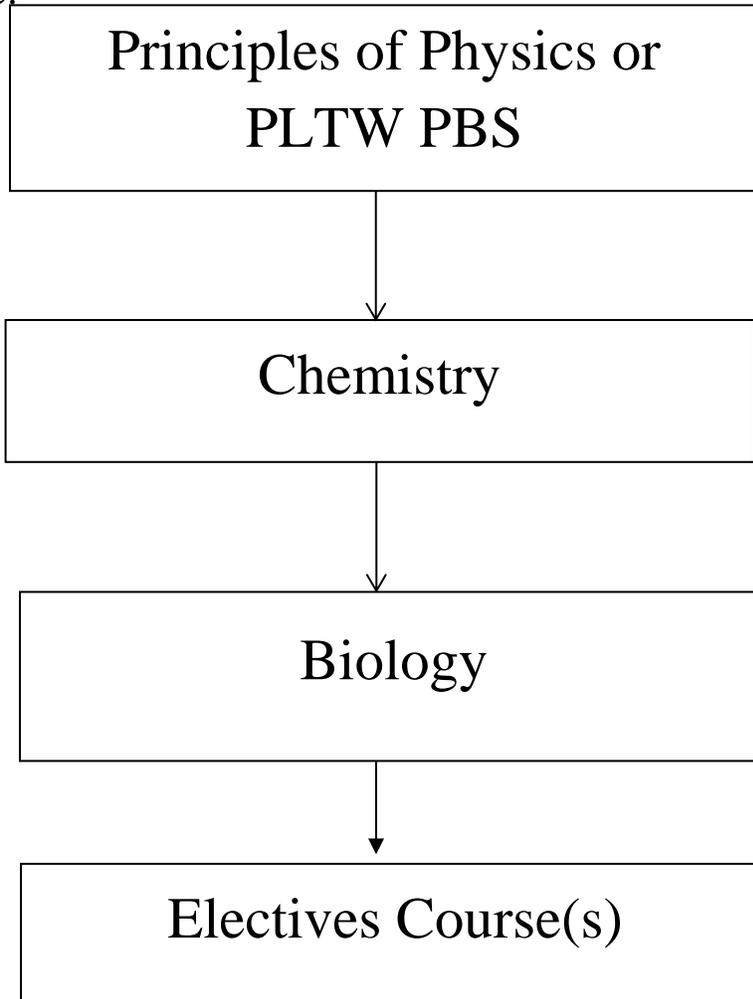
## **Required Courses:**

Principles of Physics or PLTW PBS  
Chemistry  
Biology

## **Electives:**

AP Physics  
PLTW Biomed Course (1 course)

Course Sequence:



**Principles of Physics**  
**1 Credit – Full Year**

**Grade 9**  
**NCAA Approved**

This course offers students an opportunity to learn how to apply their knowledge of the scientific method by performing experiments involving the elements, energy, force and motion. Students will understand how force, motion, energy and matter exist around us. They will realize that the energy available on Earth is in limited quantities and that the regular practice of conserving energy is vital to future life. During laboratory activities and in classroom lessons critical thinking and problem solving is emphasized.

**Principles of Physics Honors**  
**Weighted - 1 Credit – Full Year**

**Grade 9**  
**NCAA Approved**

*Prerequisite: 8th Grade Algebra and score of Advanced or Proficient on Alg I EOC*

This course offers the subject matter of a traditional physics course on forces, motion, energy and matter and gives students the opportunity to apply the scientific method by performing experiments and inquiry. The course focuses on qualitative explanations of the natural world and is taught at a more rigorous pace, with more in-depth experiments and emphasis on science literacy through problem solving, critical thinking and analysis. Laboratory investigations and hands-on activities help students better understand concepts presented. Students will use algebra to develop their problem solving skills and will understand the importance of using math as the language of physics. The honors curriculum is designed for hard-working, high-achieving students with well-developed algebra skills and an interest in careers related to physics, engineering, computer science, medicine, chemistry, or math.

**Chemistry**  
**1 Credit – Full Year**

**Grade 10**  
**NCAA Approved**

Chemistry is the study of matter and the changes it undergoes. In the classroom and in the laboratory, students will investigate the particle nature of matter, the structure of atoms and molecules, the periodic table, bonding, intermolecular forces, reactions, energy and experimental design.

**Biology**  
**1 Credit – Full Year**

**Grade 11**  
**NCAA Approved**

Biology is the study of the living world, including microscopic organisms, plants, and animals. In Biology it is important to attempt to understand life and life processes. This biology course, therefore, is aimed at introducing principles and concepts that apply to life at all levels of organization, no matter how simple or complex they may be. This course will focus on biotechnology, relationships between organisms and their environments, cellular processes and genetics. Students will gain knowledge of biology through laboratory experiments and dissections. This course requires that students take the Biology End Of Course Exam given by the State of Missouri as the second semester final.

**Biology Honors**  
**Weighted 1 Credit – Full Year**

**Grade 11**  
**NCAA Approved**

*Prerequisites: Principals of Physics Honors, currently enrolled in Geometry or Algebra II, and/or Department Approval*

Biology Honors is the study of the living world, including microscopic organisms, plants, and animals. In Biology it is important to attempt to understand life and life processes. This honors biology course is designed for advanced students that will be able to use higher order thinking skills to conduct lab experiments in cooperative groups. This course will focus on biotechnology, relationships between organisms and their environments, cellular processes and genetics. This course requires that students take the Biology End Of Course Exam given by the State of Missouri as the second semester final.

**AP Advanced Physics**  
**Weighted 1 Credit – Full Year**

**Grade 12**  
**NCAA Approved**

*Prerequisites: Chemistry, Biology, Pre-Calculus or Calculus*

AP Physics focuses on the big ideas typically included in the first semester of an algebra-based, introductory college-level physics class. Students will cultivate their understanding of physics and science practices. The course will cover the following topics: kinematics, dynamics, momentum, work and energy, circular and

rotational motion, simple harmonic motion, waves and some knowledge on electricity. Students will develop critical thinking and reasoning skills through inquiry-based learning, as well as traditional classroom lectures, quizzes and exams. This is an algebra-based course with some elements of trigonometry. This course requires a serious commitment by students who need to devote a significant amount of time to solving problems, writing lab reports, and working on other projects related to real world applications.

# **Project Lead the Way Practical Art Credits Engineering Academy**

In PLTW 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 investigate topics such as aerodynamics and astronautics, biological engineering and sustainability, and digital electronics and circuit design, which give them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers.

## **Program of Study:**

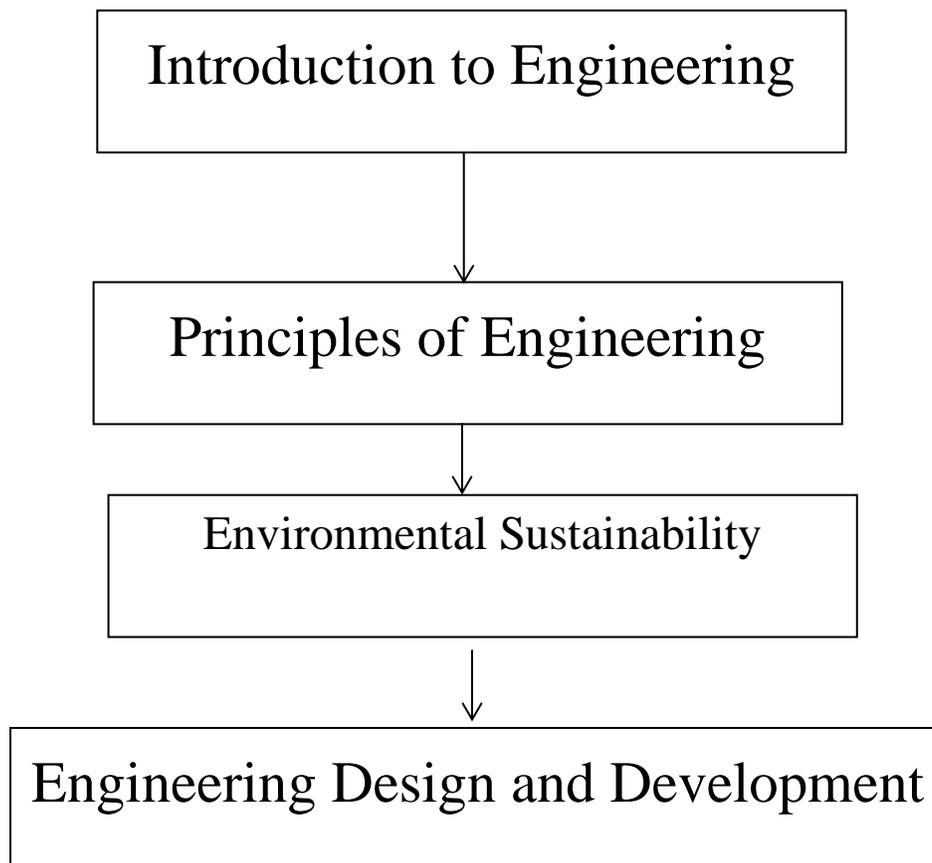
Introduction to Engineering Design

Principles of Engineering

PLTW Third Year Elective

PLTW Engineering Design and Development (EDD)

## Course Sequence Recommendation:



**Introduction to Engineering Design (IED)****Grades 9 – 12****Weighted 1 Credit – Full Year***Prerequisite: Algebra I*

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

**Principles of Engineering (POE)****Grades 10 – 12****Weighted 1 Credit – Full Year***Prerequisite: Introduction to Engineering*

This course is the second foundation course in the Engineering Academy that helps students the field of engineering by exploring various technology systems and manufacturing processes. Students must have completed Introduction to Engineering Design (IED) to enroll in this class. Students learn how engineers use math, science, and technology in the engineering problem solving process. Hands-on labs and inventor design software are used as learning tools. This is the second course in the sequence of courses offered in the Engineering Academy. All participants are required to take a PLTW End of Course exam. Articulated college credit of 3 hours can be earned through St. Louis Community College.

**Environmental Sustainability****Grades 11 & 12****Weighted 1 Credit – Full Year***Prerequisite: IED, POE or department approval*

Students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply issues, and renewable energy. Applying their knowledge through hands-on activities and simulations, students will research and design potential solutions to these true-to-life challenges.

**PLTW Engineering Design and Development (EDD)****Grade 12****Weighted 1 Credit – Full Year***Prerequisite: IED, POE, Third year PLTW elective and/or department approval*

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

# **Project Lead the Way Science/Elective Credit Biomedical Science Academy**

The rigorous and relevant four-course PLTW Biomedical sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Students engage in activities like investigating the death of a fictional person to learn content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease; all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future.

Each course in Biomedical Science sequence builds on the skills and knowledge students gain in the preceding courses.

## **Program of Study:**

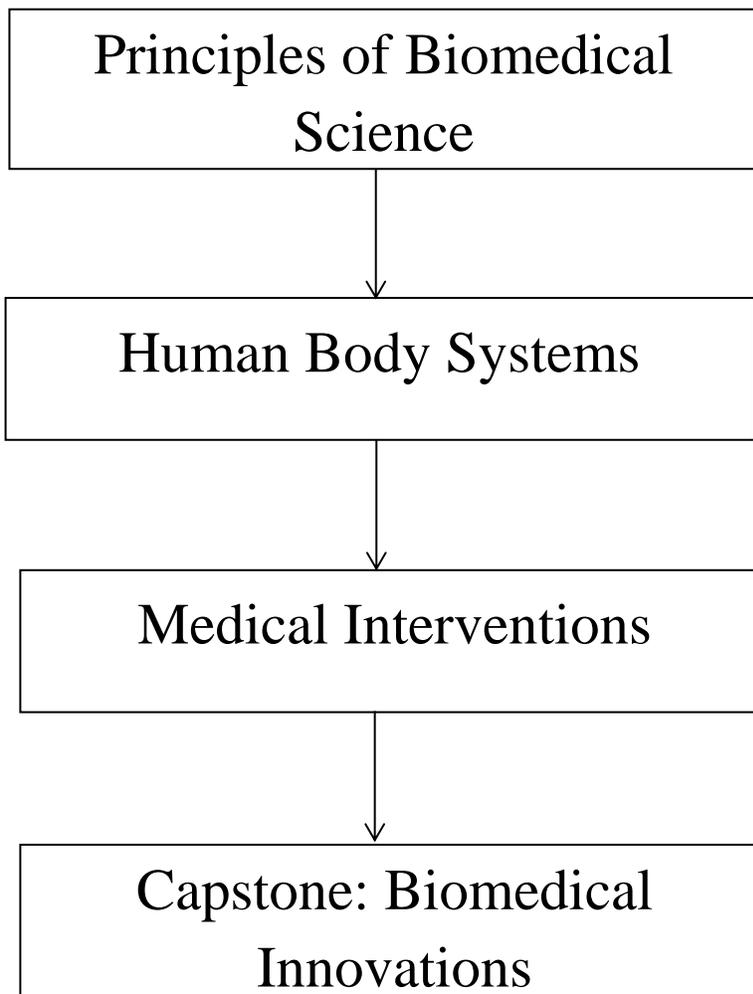
Introduction of Biomedical Science – Science credit

Human Body System – Elective Credit

Medical Interventions – Elective Credit

Capstone: Biomedical Innovation – Elective Credit

## **Course Sequence:**



**PLTW Principles of Biomedical Science****Grades 9 – 12****Weighted - 1 Credit – Full Year****NCAA Approved**

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. All participants are required to take a PLTW End of Course exam. Articulated college credit of 3 hours can be earned through St. Louis Community College.

**PLTW Human Body Systems****Grades 10 – 12****Weighted - 1 Credit – Full Year****NCAA Approved***Prerequisite: Principles of Biomedical Science*

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

**PLTW Medical Interventions****Grades 11 & 12****Weighted - 1 Credit – Full Year****NCAA Approved***Prerequisite: PBS and HBS*

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.

**Capstone Course Biomedical Innovation****Grade 12****1 Credit – Full Year****NCAA Approved***Prerequisite: 3 years of Biomed courses; this program is off campus and is offered in partnership with Affton School District beginning 2018-2019*

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 design project with a mentor or advisor from a university, medical facility, or research institution.

**STL C@PS****Grades 11 & 12****3 hours - AM program or PM program****NCAA Approved***Prerequisites vary from program to program, see your school counselor for more information.**This program is off campus and is offered in partnership with Affton School District.**Spots are limited due to tuition costs.*

STL CAPS provides junior and senior students the opportunity to test-drive their future in high-skill, high-demand professions such as business/entrepreneurship, healthcare, engineering, technology, and bioscience. STL CAPS Learning Strands are:

Engineering

Healthcare

Bioscience

Technology Solutions

Global Business &amp; Entrepreneurship

# **Project Lead the Way Practical Art Computer Science Academy**

## **Computer Science Principles 1 Credit – Full Year**

**Grades 9-12**

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment.

# Fine Arts

***Graduation credits required: 1***

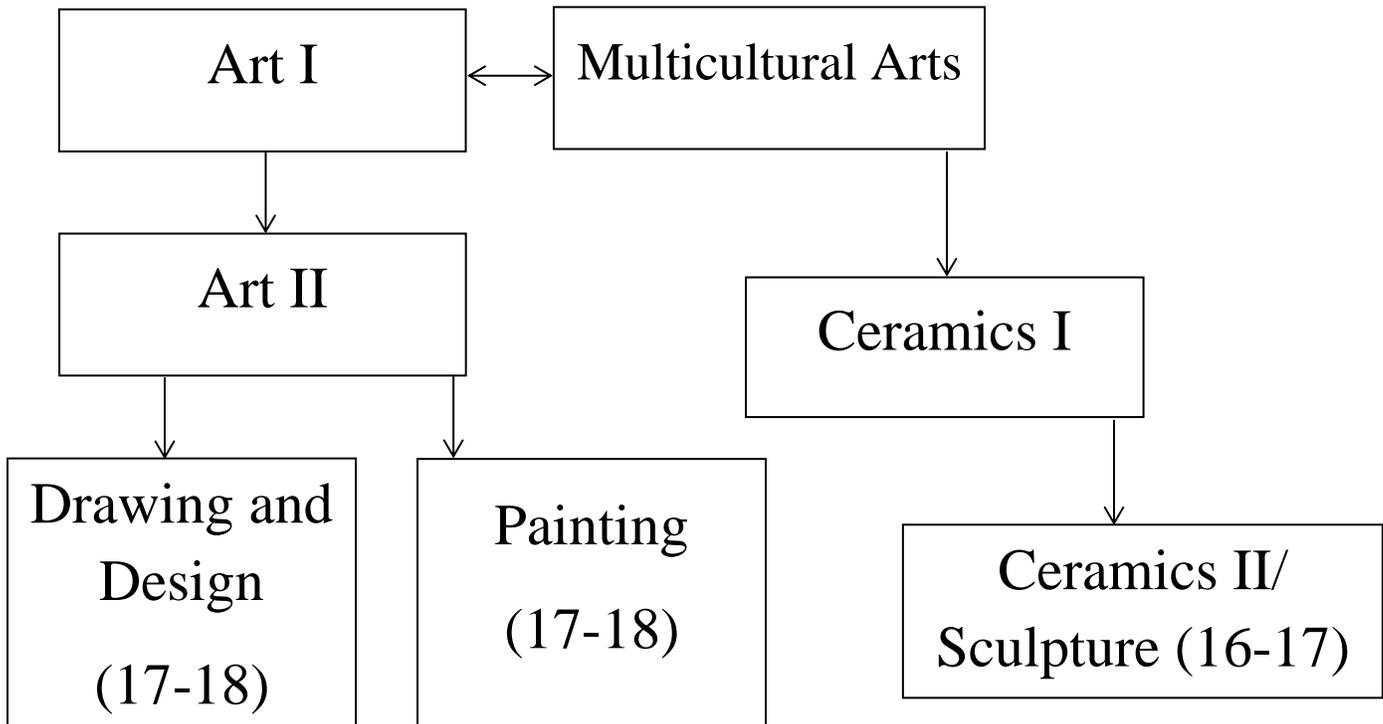
***Select from Visual, Performing, Vocal or Instrumental Music***

## Visual Arts

### Elective Courses:

Art I	Art II	Multicultural Arts
Ceramics I	Ceramics II/Sculpture (16-17 <u>ODD YEARS</u> )	
Drawing & Design ( <u>EVEN YEARS</u> 17-18)		
Painting ( <u>EVEN YEARS</u> 17-18)		

### Course Sequence:



### Art I

**Grades 9-12**

**½ Credit – Semester**

This is an introductory course designed for students of all skill levels. It is the pre-requisite for most art classes (excluding Multicultural Art & Ceramics). Art I primarily deals with basic art concepts and drawing skills using a variety of materials. Some aspects of Art History will also be included.

### Art II

**Grades 9-12**

**½ Credit – Semester**

Art II is designed to build upon the skills learned in Art I. Students will learn to create realism in their two dimensional work by using perspective and shading techniques. Students will also explore color theory by creating artwork that uses the eight basic color schemes.

**Ceramics I****Grades 11-12****½ Credit – Semester***Class lab fee: \$15.00*

In this course, students will learn the basic techniques of hand-built clay projects. Projects will be built using pinch, coil, slab and sculpting techniques. As the students develop construction skills, emphasis will be on the creative use of three dimensional design and texture.

**Multicultural Arts****Grades 9-12****½ Credit – Semester***Class lab fee \$5.00*

In this hands-on course, students will engage in design and production activities through which they will create traditional and contemporary decorative arts. The curriculum reinforces the fine art principles and elements, while enabling students to work predominantly with three-dimensional formats. Students will be introduced to the art forms and crafts of several different cultures and time periods.

**Drawing and Design (EVEN YEARS 17-18)****Grades 10 – 12****½ Credit – Semester***Prerequisite: Art II*

This art course is for students who have mastered fundamental skills in art and who would like to further develop their abilities. Pencils, oil pastels, ink and paint will be used in the class. The creative use of balance, unity, proportion and contrast will be emphasized. Class fees may apply.

**Ceramics II/Sculpture (ODD YEARS 16-17)****Grades 11 & 12****½ Credit – Semester***Prerequisite: Ceramics I/Teacher Approval Class Lab Fee: \$15*

This course is a continuation of Ceramics I. Students will develop further hand building techniques in more challenging pottery. Students may also experiment with wheel throwing. In addition, students will study sculptural mediums and develop artistic skills with various three-dimensional design problems.

**Painting (EVEN YEARS 17-18)****Grades 10 – 12****½ Credit - Semester***Prerequisite: Drawing and Design*

Students will further develop their painting abilities working with tempera, water color, acrylic and oils. Students will learn how to stretch their own canvas and design and paint a collaborative wall mural.

## ***Fine Arts***

### ***Performing Arts***

<b>Elective Courses:</b>	
Theatre I	Theatre II
Theatre Production	Film Study

#### **Theatre I**

**Grades 9 – 12**

##### **½ Credit - Semester**

This introductory course is designed for the student interested exploring the theatre arts. Units will include general studies in play structure, script and character analysis, playwriting, pantomime, theatre genres and theatre history. Students will participate in group projects, reading and writing assignments, basic performances and film viewing.

#### **Theatre II**

**Grades 9 – 12**

##### **½ Credit – Semester**

*Prerequisite: Theatre I*

This intermediate course is designed for the student interested in studying and practicing the theatre arts. Units will include improvisation, monologue and scene performances, script and character analysis, scene design and theatre history.

#### **Theatre Production**

**Grades 10 – 12**

##### **½ Credit - Semester**

*Prerequisite: Intro to Engineering Design and/or Art I; departmental approval*

This year-long course is designed for the student interested in the production and technical design aspects of the theatre. This hands-on class will include units on scene design, lighting and sound design, costume design and set construction for the Main Stage Shows. Students will participate in research, writing assignments, design projects, construction, and extra-curricular work. Attendance to the Bayless Theatre Company Productions throughout the year is Mandatory. Students may take this course multiple times throughout high school.

#### **Film Study**

**Grades 10 – 12**

##### **½ Credit –Semester**

This course is designed for the student interested in film. Units will include film history, analysis, and critiques. Students will participate in viewings, group discussions, film advertising assignments, and writing assignments.

## ***Vocal Music***

<b>Elective Courses:</b>
Concert Choir
Performance Choir

#### **Concert Choir**

**Grades 9-12**

##### **1 Credit – Full Year**

This ensemble is open to all grades and students in the high school. Students will learn how to sight-read and sing with good intonation, tone, and breath support. The curriculum of the class will include learning and discovering music of different genres and musical periods through concentration on melody, harmony, rhythm, and other stylistic musical features. Attendance at class, concerts, and special rehearsals is required.

### **Performance Choir**

**Grades 9 – 12**

#### **1 Credit – Full year**

*Prerequisite: Audition with the Vocal Music Faculty*

This ensemble is designed for the student in high school interested in performing music at a more advanced level. Students will study and perform music of various genres and become effective sight-readers. This class will be focused heavily on participation. Attendance at class, extra rehearsals, and performances will be required as part of the student's grade.

## ***Fine Arts***

### ***Instrumental Music***

#### **Elective Courses:**

Concert Band

Symphonic Band

Piano I and Piano II

Music Design and Application

Advanced Music Design and Application

#### **Concert Band**

**Grades 9 – 12**

##### **1 Credit – Full Year**

*Prerequisite: One year of experience playing band instrument*

Students who enroll in Concert Band must have at least one prior year of experience playing a band instrument. During the fall, this group joins with the Symphonic Band to form the Marching Band. This large ensemble has required performances at several competitions and community events. During the spring this ensemble performs traditional concert band music at a Grade 2-3 level and competes as an individual ensemble at required MSHSAA competitions and community performances. Over the course of the entire year the concert band will explore musical selections from multiple genres written for marching band, pep band, and concert band instrumentation. Participation in performances is a course requirement.

#### **Symphonic Band**

**Grades 9 – 12**

##### **1 Credit – Full Year**

*Prerequisite: Audition and/or Department Approval*

The Symphonic Band is a skills-ready ensemble that combines with the Concert Band during the fall to form the Marching Band. This large ensemble has several required performances at several competitions and community events. During the spring this ensemble performs traditional concert band music at a Grade 3+ level and performs as an individual ensemble at MSHSAA competitions and community performances. Participation in MSHSAA Solo/Ensemble competition is encouraged, as is auditioning for the All Suburban Honor Band. Over the course of the entire year the concert band will explore musical selections from multiple genres written for marching band, pep band, and concert band instrumentation. Participation in performances is a course requirement.

#### **Jazz Band**

**Grades 10-12**

##### **1 Credit – Full Year**

*Prerequisite: Audition and/or Department Approval*

Jazz Band will provide basic instruction in jazz-related rhythm, tone, style, concept, listening skills, woodwind-doubling possibilities, and improvisation. The ultimate goal of these ensembles is to give

interested students an engaging opportunity to study and perform jazz ensemble literature. Jazz Band is designed to build upon the musical and performance skills students have acquired and to further develop the knowledge, skills and attitude that are required to perform in a variety of fun musical arrangements. The focus of this course is on performance techniques and music literacy. Public performances are given as a culmination of this study and are a requirement of the course.

### **Piano I**

**Grades 9 – 12**

#### **½ Credit – Semester**

This course is designed for students who wish to develop basic piano playing skills. Students will understand, study, and apply elements of music theory to learning how to play the piano. A lot of this class will include individualized instruction. There will also be time spent in group instruction on musical notation and theory.

### **Piano II**

**Grades 9 – 12**

#### **½ Credit – Semester**

*Prerequisite: Piano I*

This class is intended for the student with some minimal keyboard background and some prior music-reading experience. The emphasis of the course will be on the development of piano techniques: sight-reading, major scales, arpeggios, primary chords, and acquisition of standard piano repertoire. Students will be able to further improve their piano skills through practice and performance.

### **Music Design and Application**

**Grades 9 – 12**

#### **½ Credit – Semester**

This course is designed for students seeking a hands-on exploration of the production of music. Students will use GarageBand software to explore practical demonstrations and applications of real-world recording scenarios including: looping, Real-time MIDI, working with drum kits, editing, automated track volume and mixing. Students will develop and refine music skills in this introduction to music application.

### **Advanced Music Design and Application**

**Grades 9 – 12**

#### **½ Credit - Semester**

*Prerequisite: Intro to Music Design and Application*

This one semester course uses GarageBand software to introduce audio recording and editing, podcasting, and audio mixing. Students will learn the skills required to create and produce their own podcast, complete with theme music, prerecorded audio, aural reporting, and potential distribution.

# Practical Arts

*Graduation credits required: 1*

*Select from Business and/or Family & Consumer Science*

## **Business &/OR Multimedia Pathway**

### **Required Courses:**

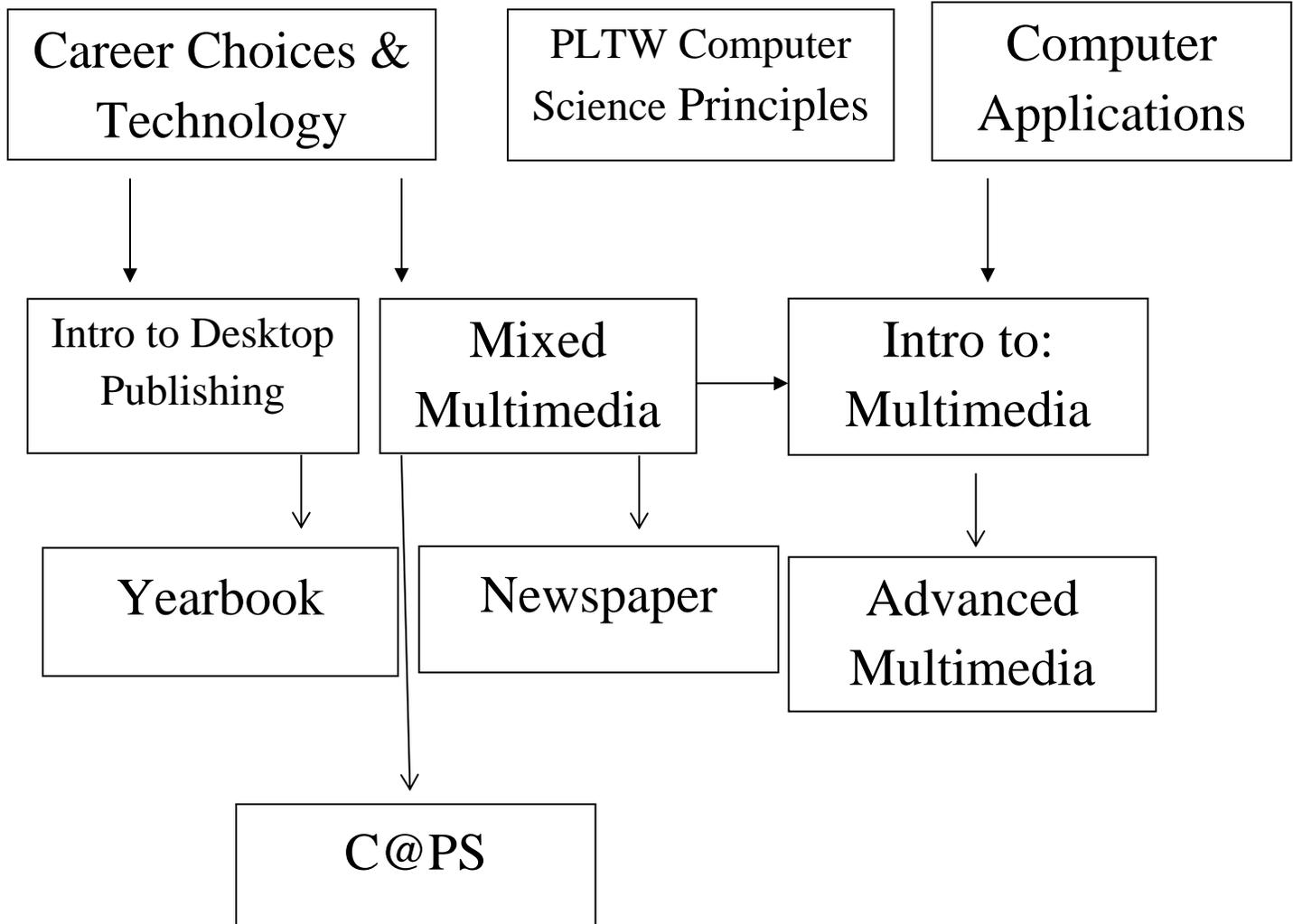
Career Choices and Technology  
Computer Applications

### **Electives:**

Intro to Desktop Publishing  
Desktop Publishing: Newspaper  
Publications Lab  
PLTW Computer Science Principles  
Advanced Multimedia: BTV

Mixed Multimedia  
Desktop Publishing: Yearbook  
Introduction to Multimedia: BTV

### Course Sequence:



## **Career Choices & Technology**

**Grade 9**

### **½ Credit – Semester**

This course is designed to foster academic planning and success for high school. Course curriculum will aid students in establishing and reaching life goals. Students will be introduced to strategies for identifying possible career interests, along with exploring interests and abilities. Students will end the semester with a working digital and paper career and interest resource portfolio. The student's working portfolio will serve as an individual planning tool throughout high school. Junior Achievement and other career professionals will provide hands on experience in the world of work. This course is an essential foundation for success in high school and beyond and is required for BHS students.

## **Computer Applications**

**Grades 9 – 12**

### **½ Credit – Semester**

This course is designed to help students develop and apply computer skills in a variety of subject areas in school, business, and other professional environments. Students in this course will use Microsoft Word, Excel, and PowerPoint to become proficient in basic document formatting skills, creating and utilizing spreadsheets, and creating computer based presentations. This course will also explore the Google Suite and allow the students to develop the basic skills to employ that software. Students will be introduced to the main components of a computer and basic troubleshooting skills. Computer Applications is highly required. Articulated college credit is available through St. Louis Community College.

## **Introduction to Multimedia: Broadcast Journalism (BTV)**

**Grades 11 & 12**

### **1 Credit – Full Year**

*Prerequisite: English Language Arts II, Department Approval, Application Required*

Students will learn the basics of broadcast writing, digital camera shooting, and video editing with computer software, program production workflow, audio, lighting tools and design, studio and remote shooting, props, and production staging. Students will produce a variety of projects including a BTV news show, promotional videos, and projects for the Bayless School District.

## **Advanced Multimedia: Broadcast Journalism (BTV)**

**Grades 11 & 12**

### **1 Credit – Full Year**

*Prerequisite: Introduction to Multimedia, Application Required*

This is a specialized course designed to build on the knowledge, content, and skills learned in Multimedia - BTV. Students will develop specialized skills related to the technology that is used in the business world. Students will use digital cameras, digital video cameras, and Adobe Premiere software to create projects for the Bayless School District, as well as promotional materials for competitions and local businesses.

## **Mixed Multimedia**

**Grades 9-12**

### **½ Credit – Semester**

This course provides an introduction to important technology and multimedia platforms used in Bayless High School. Students will study and apply aspects of multimedia production including planning, scripting, and storyboarding to generate projects including elements of text, audio, video, animation, photographs, and graphic images. This is a hands-on, collaborative, and highly participatory course requiring students to dialogue, reflect, write, and complete projects and assignments to be shared with the class.

## **Introduction to Desktop Publishing**

**Grades 9 – 12**

### **½ Credit – Semester**

Students will be introduced to the exciting world of desktop publishing. The basic fundamentals covered will be principles of design, graphics, and electronic document construction. Students will learn to use Adobe Illustrator, Photoshop and InDesign to apply creative problem solving skills to a variety of projects involving the integration and manipulation of text and graphics, and design contemporary layout styles as used in the publishing field. This course is designed to prepare students for Yearbook and/or Newspaper.

**Desktop Publishing: Newspaper****Grades 10 – 12****1 Credit – Full Year***Prerequisite: English Language Arts I, Department Approval*

Students will develop their interviewing, writing, designing and photography skills to produce a high school newsmagazine to be distributed to students, faculty members and the community. Students will learn to use Adobe InDesign and Adobe Photoshop, Microsoft Word, and Google Applications in the creation and development of the newsmagazine. Students will learn the business aspect of publication through the sale of advertisements and the implementation of a circulation campaign. Working as a team, students will be required to meet weekly and monthly deadlines. Newsmagazine staff members will work after school to complete assignments as a course requirement.

**Desktop Publishing: Yearbook****Grades 10 – 12****1 Credit – Full Year***Prerequisite: English Language Arts I and/or Desktop Publishing, Department Approval; Application Required*

Students will develop their interviewing, writing, designing and photography skills to produce a high school yearbook to be sold and distributed to students, faculty members and the community. Students will learn to use Online Design yearbook software, Adobe InDesign and Adobe Photoshop, Microsoft Word, and Google applications in the creation and development of the yearbook. Students will learn the business aspect of publication through the sale of advertisements and yearbook sales which are required of all staff members. Working as a team, students will be required to meet weekly and monthly deadlines. Yearbook staff members will work after school to complete assignments as a course requirement.

**Publications Lab****Grades 10 – 12****½ or 1 Credit – 1 Semester or Full Year***Prerequisite: English Language Arts I and/or Desktop Publishing; Concurrent Enrollment in Newspaper or Yearbook*

Students will learn to use Online Design yearbook software, Adobe InDesign and Adobe Photoshop, Microsoft Word, and Google applications in the creation and development of the yearbook. Students will learn the business aspect of publication through the sale of advertisements and yearbook sales that are required of all staff members. Working as a team, students will be required to meet weekly and monthly deadlines. Yearbook staff members will work after school to complete assignments as a course requirement. This class is designed to assist publication Editors/Leaders and provide more time for crafting, writing, or editing.

**STL C@PS****Grades 11 & 12****3 hours - AM program or PM program***Prerequisites vary from program to program, see your school counselor for more information.**This program is off campus and is offered in partnership with Affton School District.**Spots are limited due to tuition costs.*

STL CAPS provides junior and senior students the opportunity to test-drive their future in high-skill, high-demand professions such as business/entrepreneurship, healthcare, engineering, technology, and bioscience. STL CAPS Learning Strands are:

Engineering

Healthcare

Bioscience

Technology Solutions

Global Business &amp; Entrepreneurship

## Practical Arts

*Graduation credits required: 1*

*Select from Business and/or Family & Consumer Science*

### Business & Marketing Pathway

#### Marketing Electives:

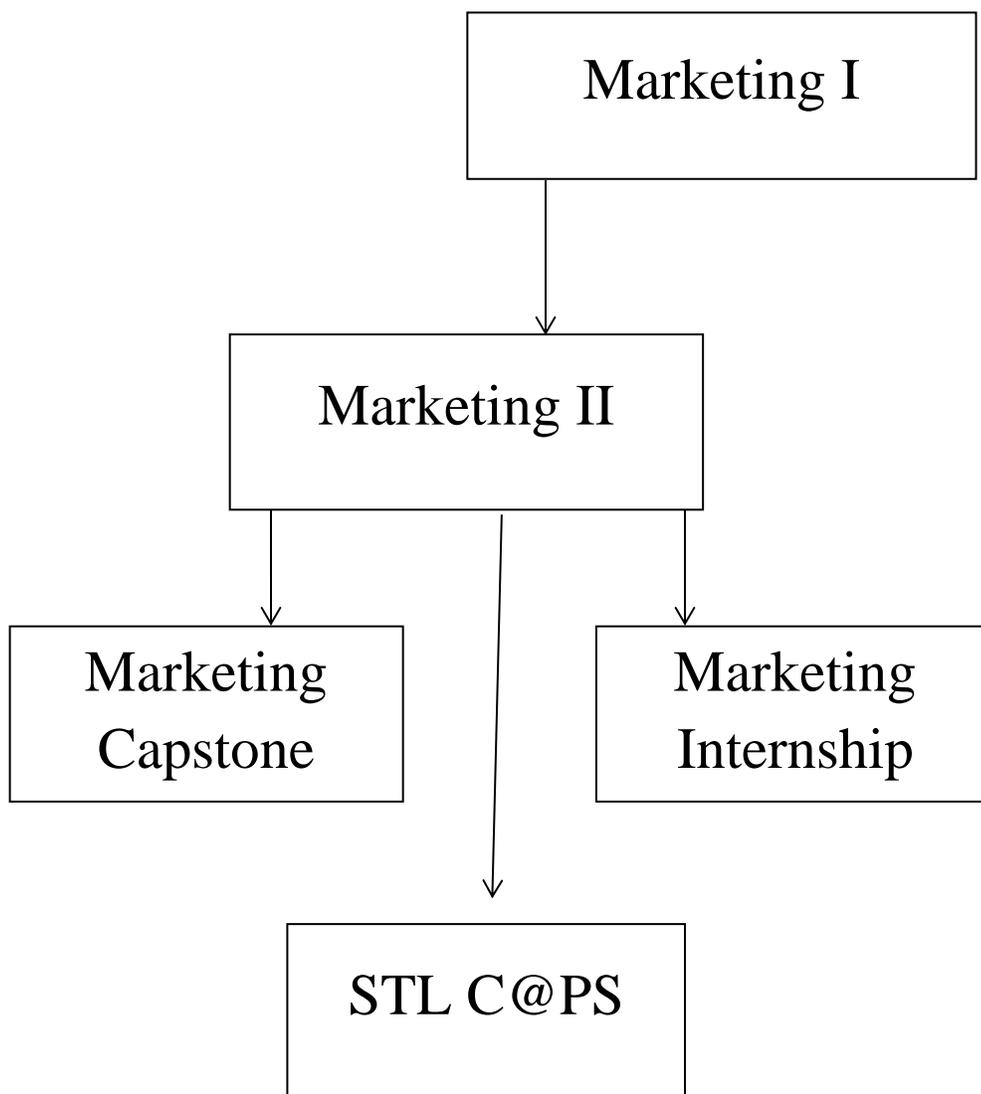
Marketing I

Marketing II

Marketing Capstone

Marketing Internship

Course Sequence:





# **Personal Finance taught in the Business Department**

## ***Graduation credits required: 0.5 Personal Finance Credit***

### **Personal Finance**

**Grades 11 & 12**

#### **½ credit – Semester**

This course involves the study of personal financial planning and is intended to provide the student with the foundation and knowledge to better manage and control their financial futures. This course will address the safeguarding of assets, budgeting, and cash management while stressing the importance of avoiding debt and other destructive financial behaviors. Students will also develop personal financial statements and plans, address insurance needs, explore the basics of taxation, and the investment markets. This course is a graduation requirement.

# Practical Arts

## Family and Consumer Sciences

### Culinary Arts:

Foods and Nutrition

Foods and Nutrition II: Prostart I

Foods and Nutrition III: Prostart II

### Clothing and Sewing:

Clothing I & Sewing I

Clothing II & Sewing II

### Clothing & Sewing

**Grades 9-12**

#### ½ Credit – Semester

This instructional course prepares individuals to understand the social, psychological and physiological aspects of clothing and clothing construction. Basic sewing skills are learned. A minimum of three projects will be created.

### Clothing & Sewing II

**Grades 9 – 12**

#### ½ Credit – Semester

*Prerequisite: Clothing I and Department Approval*

This course is a continuation of Clothing I engaging students in more advanced sewing skills.

### Foods and Nutrition I

**Grades 9 – 12**

#### ½ Credit – Semester

*Lab Fee: \$10.00*

In this introductory course students will cover basic food production skills and techniques for home and commercial cooking. Nutrition is also covered. Course work includes book work, food demonstrations, tests, and food preparation in the kitchen laboratory.

### Foods and Nutrition II/Prostart I

**Grades 11 & 12**

#### 2 Credits – Full Year

*Prerequisite: Foods & Nutrition I, Department Approval, Application Required*

This two-period Culinary Arts class is designed to teach students key workplace skills employers are looking for in new employees, whether in the food industry or another career. These skills – communication, teamwork, work ethics, responsibility, planning and having a positive attitude – are learned through a restaurant management curriculum. The course includes food preparation techniques, safety and sanitation, purchasing, sales and service, and culinary management. Field trips to local restaurants and businesses will provide a chance to observe food service businesses and professionals. On campus catering events allow the students “real world” experience. This course is articulated through STLCC. Students will be involved in the community garden as a part of the farm to plate initiative.

### Foods and Nutrition III/Prostart II

**Grade 12**

#### 2 Credits – Full Year

*Prerequisite: ProStart I, Department Approval, Application Required*

This is a continuation of ProStart I. Students who have completed the requirements of the two-year ProStart program are awarded an industry-recognized certificate – the ProStart National Certificate of Achievement. To earn the certificate, students pass two national exams, demonstrate a mastery of foundational skills, and work 400 mentored hours. This course is articulated through STLCC.

# Foreign Language

## *College Bound Students Credits Required: 2*

Two units of credit in one foreign language are recommended for all college bound students. Students who wish to enroll in a foreign language must have a substantial academic background with at least average grades in English. The study of foreign languages will be valuable to those who plan to travel or seek employment in careers requiring higher education and cultural awareness.

### **German Language:**

German I  
German II

### **Dual Credit:**

German III 1818 (SLU)

### **Spanish Language:**

Spanish I  
Spanish II

### **Dual Credit:**

Spanish III 1818 (SLU)

### **German I**

**1 Credit – Full Year**

*Prerequisite: Completion or concurrent enrollment in English Language Arts I*

A balanced approach is used to introduce the four basic skills of language acquisition: reading, writing, speaking and listening. The course is also geared to supply the students with cultural information about the German-speaking countries. Initially, the emphasis is on listening and speaking.

**Grades 9 – 12**

**NCAA Approved**

### **German II**

**1 Credit – Full Year**

*Prerequisite: Grade of C or better in German I*

Students continue their acquisition of the German language through reading, writing, speaking and listening. Increasing attention is paid to reading and writing skills.

**Grades 10 – 12**

**NCAA Approved**

### **Dual Credit German III**

**1 Credit – Full Year**

*Prerequisite: Grade of C- or better in German II, Saint Louis University Placement Examination and department approval*

German III is for students who have completed German I and German II successfully. It is designed to help develop and expand their knowledge of grammatical structures, reading, writing, speaking, and listening skills. This course will allow students to gain a better understanding of the German speaking world. SLU course equivalents: German 115, German 210 – 6 credit hours.

**Grades 11 & 12**

**NCAA Approved**

### **Spanish I**

**1 Credit – Full Year**

*Prerequisite: Completion or concurrent enrollment in English Language Arts I*

In this course the students will learn to speak, read and write in Spanish. They will learn to use the language in everyday life situations. This course will introduce students to the social and cultural world of Spanish-speaking people, their food, customs, traditions and contributions to modern civilization.

**Grades 9 – 12**

**NCAA Approved**

### **Spanish II**

**1 Credit – Full Year**

*Prerequisite: Grade of C or better in Spanish I*

This course follows the same format as Spanish I; however a higher degree of proficiency in reading and writing is expected. Oral expression is greatly emphasized through conversation. Students will continue to learn about the contributions of the Spanish-speaking world.

**Grades 10 – 12**

**NCAA Approved**

### **Dual Credit Spanish III (1818)**

**1 Credit – Full Year**

**Grades 11 & 12**

**NCAA Approved**

*Prerequisite: Grade of C- or better in Spanish II, Saint Louis University Placement Examination and department approval*

Students will continue their progressive mastery of vocabulary, advanced grammar and verb structures by reading and writing. The aim of this course is to give students an active, flexible command of Spanish through personal involvement and understanding. Students will study and research the history, literature and culture of the Spanish people. SLU course equivalent: SPAN 101 –3 credit hours.

## **Health**

***Graduation credits required: .5***

### **Health**

**Grade 9**

**½ Credit – Semester**

This course will contain factual information and basic knowledge needed by today's youth in making healthy decisions. The physical, mental and emotional aspects of healthful living will be presented through lectures, discussions, class participation and films. Subjects included will be personality, self-esteem, & emotions, stress management, mental disorders, nutrition, and other contemporary health related topics. This course is required for all 9th grade students.

## **Physical Education**

***Graduation credits required: 1***

### **Physical Education I**

**Grade 9**

**½ Credit – Semester**

This course includes instruction in, understanding of and participation in team sports and a series of activities to promote principles of movement and physical fitness.

### **Physical Education II**

**Grades 9 – 12**

**½ Credit – Semester**

*Prerequisite: Physical Education I*

This course includes instruction in, understanding of and participation in team sports and a series of activities to promote principles of movement and physical fitness.

### **Weight Training**

**Grades 10 – 12**

**½ Credit – Semester**

*Prerequisite: Physical Education I or Department Recommendation*

This course is designed to build body strength, power, and endurance while adding to the students' overall flexibility. Students will learn many resistance training techniques to benefit their overall fitness. Students interested in athletics can work specifically to improve performance. This class will involve the use of the weight room, and cardio equipment, with some classroom instruction to develop all 3 fitness areas: strength, cardiorespiratory endurance, and flexibility.

### **Lifetime Fitness**

**Grades 9 – 12**

**½ Credit – Semester**

*Prerequisite: Physical Education I*

This course encourages students to adopt an active lifestyle and continue fitness activities throughout the life span. Lifetime fitness introduces students to a variety of fitness activities such as: walking/jogging, circuit training/interval training, yoga, dance, resistance training, and cardio kick-boxing.

## Other Elective Courses

### **A+ Tutoring Class**

**Grades 11 & 12**

#### **½ Credit – Semester**

*Prerequisite: A+ Application, A+ Coordinator Approval*

Student must remain in A+ good standing (cumulative attendance 95%, no discipline and 2.5 GPA).

The A+ Tutoring Program is a class designed to help students enrolled in the A+ Schools Program meet the tutoring component. The class will teach students tutoring techniques that will prepare them to tutor fellow Bayless students. The student will be paired up with a Bayless teacher that has students that require tutoring. Students will only receive tutoring hours based on the time they have tutored. The rest of the time students spend in the classroom they will be a mentor to other students or assist the classroom teacher. Grades are based on teacher evaluation reflection and journal writing. Interested students must see the A+ Coordinator for the form to be filled out before registering for this class.

### **Study Hall**

**Grades 9 – 12**

#### **Non Credit Bearing**

Study Hall is designed for students to access academic assistance during school hours. Students will be expected to use time wisely. This is a non-credit bearing class and will not impact the GPA.

### **Student Mentoring**

**Grade 12**

#### **½ Credit – Semester**

*Prerequisite: completed 50 hours of A+ Tutoring*

This academic mentoring program pairs a mentor student with a fellow BHS student. The mentor will partner with the assigned student during an academic class and provide assistance with academic progress, differentiated instruction and serve as a role model. Mentors will be required to participate in a training session and will commit to providing academic motivation and assistance to one or more students. Mentors will be dependable, motivated and have good interpersonal skills.

### **Leadership**

**Grades 10 – 12**

#### **½ Credit or 1 Credit – 1 Semester or Full Year**

This course provides an opportunity to study, practice, and develop group and individual leadership and organizational skills. These skills include, but are not limited to the following topics or areas: leadership roles, interpersonal relations, project planning, goal setting, civic responsibility, decision making, problem solving, meeting skills, and communication. Students enrolled in this course apply these skills in dealing with peers, school administration and the community. This course takes a hands-on, lab orientated approach to leadership by involving students in participatory leadership through project planning and implementation.

### **Algebra Support**

**Grades 9 – 10**

#### **½ Credit or 1 Credit – 1 Semester or Full Year**

*Prerequisite: Faculty recommendation and assessment results*

This course is designed to support students in the successful completion of one or both semesters in Algebra I. The course includes a variety of activities to reinforce analytical thinking, problems solving, and the ability to comprehend both reading and writing related to math. While emphasizing skill development, the course also reviews the benchmarks needed to be successful on the Algebra I EOC. The course is designed to assist students who need extra support or time to be successful in the concurrent Algebra I class. Elective credit for this class is awarded on a PASS/FAIL basis. Students must pass their Algebra I class to receive the .5 elective credit associated with Algebra Support.

### **Geometry Support**

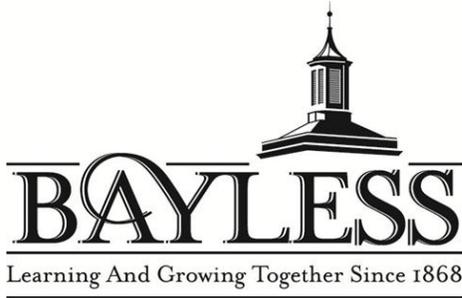
**Grades 10 – 11**

#### **1/2 credit or 1 Credit – 1 Semester or Full Year**

**Prerequisite: Faculty recommendation and assessment results**

This course is designed to support students in the successful completion of one or both semesters in Geometry. This class may be taken for 1 or 2 semesters and aligns with the concepts being taught in the general Geometry course. Students who have struggled in math or need extra help or support should consider

enrolling in Geometry Support. Students will have additional time for practice and study of current Geometry concepts in order to boost confidence and skill. Elective credit for this class is awarded on a PASS/FAIL basis. Students must pass their Geometry class to receive the .5 elective credit associated with Geometry Support.



# **Vocational Education Programs**

## **South County Technical High School**

# **South Tech: Vocational & Technical Education**

*Sixty percent of tomorrow's jobs start with today's career and technical education. The technical program, sponsored by the St. Louis Special School District, offers free career and technical education in 37 different career fields. Students will have the opportunity to investigate career interests prior to college and/or begin a career right after high school graduation. Since South Tech is a public high school, there are no tuition fees or transportation costs for students. Some of the programs have a course fee.*

*For more information in pursuing a course of study at South County Technical High School, see your guidance counselor and acquire a handbook with specific details on admissions requirements and program offerings from the Bayless High School Counseling Center.*

## **Who Should Apply?**

- Current 10<sup>th</sup>, and 11<sup>th</sup> grade students who are enrolled in good standing academics, attendance, and good behavior.
- Students who enjoy learning in a “real-world” or “hands-on” environment.
- Students who want to get involved in their career interest areas now.

## **How are the Programs Offered?**

- Juniors attend a two-year specific training program in one specific field of their choice.
- One year seniors attend a one-year program in one specific field of their choice, if available.

## **Half-Day Program**

- Students take four academic classes at BHS.
- Students take technical training at South Tech High School as their three other courses.
- Tech grades transfer to BHS as practical arts or core credits depending on the program.
- Students will receive a Bayless High School Diploma.

## **How and When to Apply?**

- Schedule an appointment with your counselor to discuss and review the various career opportunities. BHS counselors will assist students with completion of these applications. Applications are due by Dec. 1<sup>st</sup> for priority enrollment in programs for the following school year. After applications are received, students are interviewed at Bayless by an admissions representative from South County Tech.
- It is also recommended that students attend a tech school open house prior to acceptance.

## **SOUTH TECHNICAL HIGH SCHOOL**

**12721 West Watson Road**

**St. Louis, MO 63127**

**314-989-7400**

## **Vocational Programs**

**The following programs are available at the South Tech campus:**

Auto Body

Automotive Technology

Carpentry

Cisco Networking Academy

Construction Innovations

Cosmetology

Culinary Arts

Dental Sciences

Early Childhood Education

Electrical Trades

Electronics & Robotics Engineering

Emergency Medical Technician (Senior Year Only)

Firefighting

Floorlayers Middle Apprenticeship

Graphic Design

Health Sciences Academy

Heating, Ventilation & Air Conditioning

Law Enforcement

Motorcycle & Small Engines Technology

Pharmacy Sciences

Precisions Machining

Veterinary Science

Web Design and Coding

Welding

### **Auto Body I**

Students will learn to repair and restore vehicles to "like new" condition. Instruction is provided in frame and body straightening and alignment to meet factory specifications, repair of damaged panels, and replacement of component parts, welding, refinishing and painting, estimating damage costs, and preparation of damage reports.

### **Auto Body II**

Students will learn to repair and restore vehicles to "like new" condition. Instruction is provided in frame and body straightening and alignment to meet factory specifications, repair of damaged panels, and replacement of component parts, welding, refinishing and painting, estimating damage costs, and preparation of damage reports.

### **Automotive Technology I**

Students will follow the Automotive Service Excellence (ASE) Certification curriculum. They will learn to diagnose and repair the advanced computerized control systems on today's vehicles. Instruction is provided in tire, wheel and alignment services, brakes, steering and suspension, electronic systems, engine performance, transmissions, vehicle safety and emissions inspection, heating and air conditioning.

### **Automotive Technology II**

Students will follow the Automotive Service Excellence (ASE) Certification curriculum. They will learn to diagnose and repair the advanced computerized control systems on today's vehicles. Instruction is provided in tire, wheel and alignment services, brakes, steering and suspension, electronic systems, engine performance, transmissions, vehicle safety and emissions inspection, heating and air conditioning.

### **CISCO Networking Academy I**

This program is certified as a Cisco Networking Academy. Students have the opportunity to learn Cisco Certified Network Associate (CCNA) Network+ and A+ certifications. They will learn to build, repair and maintain computers and networking systems, diagnose and solve hardware and software problems in this information technology program. Instruction also covers a variety of operating systems, multimedia capabilities, printing, routing, and switching, the OSI model, VLAN and WAN systems.

### **CISCO Networking Academy II**

This program is certified as a Cisco Networking Academy. Students have the opportunity to learn Cisco Certified Network Associate (CCNA) Network+ and A+ certifications. They will learn to build, repair and maintain computers and networking systems, diagnose and solve hardware and software problems in this information technology program. Instruction also covers a variety of operating systems, multimedia capabilities, printing, routing, and switching, the OSI model, VLAN and WAN systems.

### **Carpentry I**

Students will follow the Associated General Contractors national curriculum for residential and commercial construction. They will learn to follow local building codes and blueprints to cut, fit, assemble, form, frame, and finish a wide variety of construction projects. Graduates may qualify for apprenticeship training credit with the Carpenters, Floor Layers and Construction Craft Laborers apprenticeship programs.

### **Carpentry II**

Students will follow the Associated General Contractors national curriculum for residential and commercial construction. They will learn to follow local building codes and blueprints to cut, fit, assemble, form, frame, and finish a wide variety of construction projects. Graduates may qualify for apprenticeship training credit with the Carpenters, Floor Layers and Construction Craft Laborers apprenticeship programs.

### **Construction Trades I**

This program provides an overview of various aspects of the construction field. Students will learn blueprint reading, plumbing, HVAC system maintenance, residential electricity, concrete, masonry, carpentry framing, roofing, drywall, flooring, and finishing procedures. Graduates may qualify for apprenticeship training credit at the Carpentry, Floor Layers and Construction Craft Laborers apprenticeship programs.

## **Construction Trades II**

This program provides an overview of various aspects of the construction field. Students will learn blueprint reading, plumbing, HVAC system maintenance, residential electricity, concrete, masonry, carpentry framing, roofing, drywall, flooring, and finishing procedures. Graduates may qualify for apprenticeship training credit at the Carpentry, Floor Layers and Construction Craft Laborers apprenticeship programs.

## **Cosmetology I**

The curriculum is the same as those used by private cosmetology schools, following Missouri State Board of Cosmetology guidelines. Students will learn theory and gain practical experience with customers in a new salon environment. Instruction is provided in hair analysis, treatment, coloring, cutting, and styling techniques. Facials, nail care, anatomy, physiology, and salon management are also covered. Upon completion of this curriculum and attainment of 1500 required hours of instruction, students will take the State Board's comprehensive licensure examination.

## **Cosmetology II**

The curriculum is the same as those used by private cosmetology schools, following Missouri State Board of Cosmetology guidelines. Students will learn theory and gain practical experience with customers in a new salon environment. Instruction is provided in hair analysis, treatment, coloring, cutting, and styling techniques. Facials, nail care, anatomy, physiology, and salon management are also covered. Upon completion of this curriculum and attainment of 1500 required hours of instruction, students will take the State Board's comprehensive licensure examination.

## **Culinary Arts I**

Accredited by the prestigious American Culinary Foundation, this program enables students to earn the ACF Culinary Secondary Graduate Certificate, as well as the ServSafe and ProManagement Professional Cooking Certificates from the Educational Foundation of the National Restaurant Association. Students will train as chefs in a full-size, state-of-the-art kitchen and dining facility.

## **Culinary Arts II**

Accredited by the prestigious American Culinary Foundation, this program enables students to earn the ACF Culinary Secondary Graduate Certificate, as well as the ServSafe and ProManagement Professional Cooking Certificates from the Educational Foundation of the National Restaurant Association. Students will train as chefs in a full-size, state-of-the-art kitchen and dining facility.

## **Dental Sciences I**

Students will learn dental examination, treatment, radiographic, and laboratory procedures, patient scheduling, and record maintenance. Instruction is also provided in infection control and hazards management, chair-side assistance, emergency and preventive procedures, dental specialties, and office administration. Seniors may participate in a clinical internship. Upon completion of the program, and two years' full-time work experience, students may take the National Board Exam to become a certified dental assistant.

## **Dental Sciences II**

Students will learn dental examination, treatment, radiographic, and laboratory procedures, patient scheduling, and record maintenance. Instruction is also provided in infection control and hazards management, chair-side assistance, emergency and preventive procedures, dental specialties, and office administration. Seniors may participate in a clinical internship. Upon completion of the program, and two years' full-time work experience, students may take the National Board Exam to become a certified dental assistant.

## **Early Childhood Education I**

Students will study teaching in a pre-school setting for 2-5 year old children, rotating through curriculum development, lesson preparation, teaching, and supervisory duties. Instruction includes child development, guidance and discipline techniques, health and safety procedures, licensing, program evaluation, professionalism, and relating to families. Students also learn to provide an enriched, safe, and appropriate environment to meet the physical, social, emotional, and intellectual needs of small children. Seniors will work on portfolio presentation for Child Development Association (CDA) certification.

## **Early Childhood Education II**

Students will study teaching in a pre-school setting for 2-5 year old children, rotating through curriculum

development, lesson preparation, teaching, and supervisory duties. Instruction includes child development, guidance and discipline techniques, health and safety procedures, licensing, program evaluation, professionalism, and relating to families. Students also learn to provide an enriched, safe, and appropriate environment to meet the physical, social, emotional, and intellectual needs of small children. Seniors will work on portfolio presentation for Child Development Association (CDA) certification.

### **Electrical Trades I**

The curriculum adheres to the National Electrical Code, and models electrical apprenticeship programs. Students will learn to install, connect, test, and maintain wiring systems for residential and commercial settings. Instruction includes electrical theory, interpreting schematics and blueprints, AC circuits and wiring methods, conductors, low voltage wiring, conduit bending, load centers and safety switches, service entrance construction, rough-in and trim-out, transformers, lighting, motors, controllers, and more. Graduates may test out of one year of the Independent Electrical Contractors apprenticeship program.

### **Electrical Trades II**

The curriculum adheres to the National Electrical Code, and models electrical apprenticeship programs. Students will learn to install, connect, test, and maintain wiring systems for residential and commercial settings. Instruction includes electrical theory, interpreting schematics and blueprints, AC circuits and wiring methods, conductors, low voltage wiring, conduit bending, load centers and safety switches, service entrance construction, rough-in and trim-out, transformers, lighting, motors, controllers, and more. Graduates may test out of one year of the Independent Electrical Contractors apprenticeship program.

### **Electronics and Robotics Engineering I**

This program provides students with a foundation in electrical and electronics theory. Coursework is divided into four major categories that include direct current, alternating current, analog, and digital circuits. Students will also learn the concepts of voltage, current, resistance, inductance, capacitance, impedance, power, and related troubleshooting techniques. They will construct numerous projects such as robots, AM/FM radios, and radio-controlled cars. Seniors may earn certification through the Electronic Technicians Association.

### **Electronics and Robotics Engineering II**

This program provides students with a foundation in electrical and electronics theory. Coursework is divided into four major categories that include direct current, alternating current, analog, and digital circuits. Students will also learn the concepts of voltage, current, resistance, inductance, capacitance, impedance, power, and related troubleshooting techniques. They will construct numerous projects such as robots, AM/FM radios, and radio-controlled cars. Seniors may earn certification through the Electronic Technicians Association.

### **Emergency Medical Technicians (Senior Year Only)**

Instruction includes EMT preparation, basic life support, patient assessment, medical emergencies, trauma, ambulance service, and 32 hours of clinical observation at local fire and hospital emergency departments. The program adheres to the National EMT-Basic and American Heart Association curriculums, as well as Occupational Safety and Health Administration (OSHA) standards. Students will earn EMT, AHA, CPR and automated external defibrillator, OSHA hazardous materials and outreach training certifications.

### **Firefighting I**

The program adheres to the Missouri Fire Marshall Fire Fighter, National First Responder, and American Heart Association curriculums, as well as Occupational Safety and Health Administration (OSHA) standards. Students will earn First Responder, AHA first aid, CPR and automated external defibrillator, OSHA hazardous materials and outreach training certifications. Students will learn rescue procedures, firefighting and suppression techniques, including fire combat experience in the fire tower. Qualified juniors have the option of moving into the EMT program.

### **Floorlayers Middle Apprenticeship (Bayless Campus) I**

Students learn to install hardwood, vinyl, carpet and ceramic tile floorings, and to create unique flooring designs for residential and commercial properties. Students can participate as a summer intern with a licensed contractor, earning a high wage while completing portions of the apprenticeship program and credit toward an associate's degree. Students earn 10 hour OSHA certification.

### **Floorlayers Middle Apprenticeship (Bayless Campus) II**

Students learn to install hardwood, vinyl, carpet and ceramic tile floorings, and to create unique flooring designs for residential and commercial properties. Students can participate as a summer intern with a licensed contractor, earning a high wage while completing portions of the apprenticeship program and credit toward an associate's degree. Students earn 10 hour OSHA certification.

### **Graphic Design I**

Students will learn to design for advertising, publishing, and display purposes. Instruction is provided in design, typography, production and camera-ready art, computer graphics and personal portfolio preparation. One quarter is spent in printing technology cross-training to develop an understanding of the interaction required between design and production in the graphic communications industry. This program is Print ED Certified and national accredited by the Graphic Arts Education and Research Foundation.

### **Graphic Design II**

Students will learn to design for advertising, publishing, and display purposes. Instruction is provided in design, typography, production and camera-ready art, computer graphics and personal portfolio preparation. One quarter is spent in printing technology cross-training to develop an understanding of the interaction required between design and production in the graphic communications industry. This program is Print ED Certified and national accredited by the Graphic Arts Education and Research Foundation.

### **Health Sciences I, Health Sciences Advanced Study**

The Health Sciences program teaches the skills necessary for a foundation in healthcare. Through a combination of classroom activities and actual on-the-job clinical experiences in nursing homes, hospitals, and physician's offices, students learn human anatomy and physiology, medical terminology, disease processes, CPR, first aid, vital signs, human relations skills, and basic healthcare skills. It is imperative to be able to think and reason for this career field. Upon completion of the program, students may have the opportunity to take the Missouri State Tests as a Certified Nurse's Assistant exam. If the student passes the exam with an 80 percent and has completed all clinical requirements, he or she may be certified as a nurse's assistant by the State of Missouri. Seniors may qualify to attend and off-campus program in a nearby acute care hospital or nursing home. Graduates may qualify for advanced standing at college level.

### **Health Sciences II, Health Sciences Advanced Study**

The Health Sciences program teaches the skills necessary for a foundation in healthcare. Through a combination of classroom activities and actual on-the-job clinical experiences in nursing homes, hospitals, and physician's offices, students learn human anatomy and physiology, medical terminology, disease processes, CPR, first aid, vital signs, human relations skills, and basic healthcare skills. It is imperative to be able to think and reason for this career field. Upon completion of the program, students may have the opportunity to take the Missouri State Tests as a Certified Nurse's Assistant exam. If the student passes the exam with an 80 percent and has completed all clinical requirements, he or she may be certified as a nurse's assistant by the State of Missouri. Seniors may qualify to attend and off-campus program in a nearby acute care hospital or nursing home. Graduates may qualify for advanced standing at college level.

### **Heating, Ventilation & Air Conditioning I**

This program follows HVAC excellence guidelines, enabling students to earn electrical, gas heat, and electrical heat certifications. Students will learn to install, maintain, diagnose and repair indoor environmental systems controlling temperature, humidity and air quality. Instruction includes basic refrigeration, service and diagnostic techniques, heating and cooling systems, electrical operations, control circuitry, soldering and brazing.

### **Heating, Ventilation & Air Conditioning II**

This program follows HVAC excellence guidelines, enabling students to earn electrical, gas heat, and electrical heat certifications. Students will learn to install, maintain, diagnose and repair indoor environmental systems controlling temperature, humidity and air quality. Instruction includes basic refrigeration, service and diagnostic techniques, heating and cooling systems, electrical operations, control circuitry, soldering and brazing.

### **Homeland Security**

Students will develop an understanding of our culturally diverse population, as well as the Anti-Terrorist, Patriot, and Homeland Security Acts. The probation, parole, prison system, and private security are also covered. Students will learn how to prepare for natural disasters and terrorist attacks, respond to incidents involving weapons of mass destruction, and develop a disaster plan utilizing appropriate emergency response techniques. Students will earn National Emergency Telecommunication, Domestic Preparedness, Occupational Safety and Health Administration, and American Heart Association First Aid certifications.

### **IT & Graphic Design Computer Applications**

Students with Sophomore standing can explore the South Tech career clusters in this course. In the Information Technology & Graphics cluster, students explore computer programming and networking, web design, broadcast captioning, court reporting, fashion design, advertising, graphic design and production.

### **Lab & Pharmacy Sciences I**

Students will learn the basic laboratory testing skills needed to meet the high demand in medical, industrial, plant science and biotechnology laboratory settings. Instruction includes quality control, hazard management, lab mathematics, specimen collection and processing, solution and media preparation, electrophoresis, PCR reaction, identification of bacteria, and analysis of chemical content, utilizing sophisticated lab equipment. Phlebotomy, microbiology, hematology, serology, histology, and chemistry are also covered.

### **Lab & Pharmacy Sciences II**

Students will learn the basic laboratory testing skills needed to meet the high demand in medical, industrial, plant science and biotechnology laboratory settings. Instruction includes quality control, hazard management, lab mathematics, specimen collection and processing, solution and media preparation, electrophoresis, PCR reaction, identification of bacteria, and analysis of chemical content, utilizing sophisticated lab equipment. Phlebotomy, microbiology, hematology, serology, histology, and chemistry are also covered.

### **Law Enforcement I & II**

Students will earn national First Responder, American Heart Association first aid and CPR, and OSHA certifications. They will learn criminal and juvenile justice, problem resolution, defense tactics, emergency response and enforcement procedures, preparation of police reports, investigation, patrol, and traffic control procedures. Physical fitness, human relations, cultural diversity, ethics training and communication skills are also covered. Seniors may participate in an internship with the police department.

### **Motorcycle & Small Engine Technology I**

Students will learn to diagnose, maintain, and repair lawn equipment, chain saws, motorcycles, personal watercraft, boat engines, all-terrain vehicles (ATVs), and other two and four stroke cycle powered equipment. Instruction includes utilization of diagnostic equipment, engine overhauls, tune-ups, drive trains, wheel, tire and safety inspection. Starter, fuel, governor/throttle, ignition, electrical, carburetion, cooling, lubrication and brake systems are also covered.

### **Motorcycle & Small Engine Technology II**

Students will learn to diagnose, maintain, and repair lawn equipment, chain saws, motorcycles, personal watercraft, boat engines, all-terrain vehicles (ATVs), and other two and four stroke cycle powered equipment. Instruction includes utilization of diagnostic equipment, engine overhauls, tune-ups, drive trains, wheel, tire and safety inspection. Starter, fuel, governor/throttle, ignition, electrical, carburetion, cooling, lubrication and brake systems are also covered.

### **Precision Machining I**

Instruction includes precision measurement and inspection techniques, blueprint reading and drawing, quality control, and operation of lathes, grinders, drill presses, and milling machines to manufacture metal parts to meet precise specifications. Students will also learn computer aided manufacturing (CAM) technology, computer numerically controlled (CNC) precision machine operation and programming, in an apprenticeship setting.

## **Precision Machining II**

Instruction includes precision measurement and inspection techniques, blueprint reading and drawing, quality control, and operation of lathes, grinders, drill presses, and milling machines to manufacture metal parts to meet precise specifications. Students will also learn computer aided manufacturing (CAM) technology, computer numerically controlled (CNC) precision machine operation and programming, in an apprenticeship setting.

## **Veterinary Assistant I**

Students will learn animal handling, diagnostic, examination, and treatment procedures in a simulated clinical, boarding, and grooming facility. Instruction is provided in medical terminology, anatomy and physiology, nutrition, behavior, diseases and parasites, sterilization, handling and restraining, grooming and bathing, patient examination, surgical and treatment procedures. Emphasis is placed on the physical care of animals. Office procedures, patient scheduling, and records maintenance are also covered.

## **Veterinary Assistant II**

Students will learn animal handling, diagnostic, examination, and treatment procedures in a simulated clinical, boarding, and grooming facility. Instruction is provided in medical terminology, anatomy and physiology, nutrition, behavior, diseases and parasites, sterilization, handling and restraining, grooming and bathing, patient examination, surgical and treatment procedures. Emphasis is placed on the physical care of animals. Office procedures, patient scheduling, and records maintenance are also covered.

## **Web & Computer Programming I**

The curriculum parallels computer programming courses taught at the college level. Students will learn program logic and design, analysis of program goals, and problem-solving skills. They will test programs and maintain a variety of operating and information systems. Coding assignments will be constructed in SQL, C++, HTML, Java, JavaScript, Net, LINUX, UNIX, and Visual Basic.

## **Web & Computer Programming II**

The curriculum parallels computer programming courses taught at the college level. Students will learn program logic and design, analysis of program goals, and problem-solving skills. They will test programs and maintain a variety of operating and information systems. Coding assignments will be constructed in SQL, C++, HTML, Java, JavaScript, Net, LINUX, UNIX, and Visual Basic.

## **Welding I**

Students will learn a wide range of skills applicable to many metal fabrication industries, including aerospace, construction, automotive and diesel manufacturing and repair, and machining. Instruction is provided in blueprint reading, metal fabrication, cutting, layout and fit up, metallurgy and heat treatment, inspection and testing techniques. Oxy-fuel, shielded metal arc, general pipe, gas tungsten-arc and metal-arc, plasma and carbon-arc welding procedures are covered.

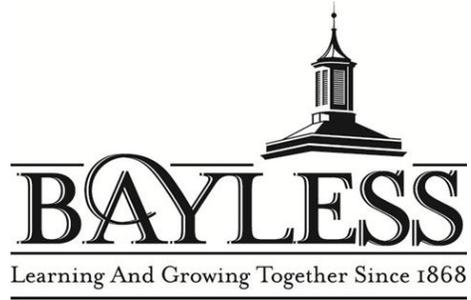
## **Welding II**

Students will learn a wide range of skills applicable to many metal fabrication industries, including aerospace, construction, automotive and diesel manufacturing and repair, and machining. Instruction is provided in blueprint reading, metal fabrication, cutting, layout and fit up, metallurgy and heat treatment, inspection and testing techniques. Oxy-fuel, shielded metal arc, general pipe, gas tungsten-arc and metal-arc, plasma and carbon-arc welding procedures are covered.

## **Construction Innovations**

The new format is open to junior and seniors and allows for one semester, one year or two years of participation. The first year or semester of attendance will consist of quarter courses designed to provide students with creative options that allow them to explore the fields of construction and design. Students who choose to return for a second year will select a specialized field for advanced study. This new program design offers a meaningful and exciting opportunity for students to earn elective credits in a manner that promotes self-discovery, team-work, and strengthens a positive connection between education and the world of work!

**Program Highlights:** Professional Tools and Equipment, Industry Experienced Instructors, Industry recognized Certifications, Full Scale Project Work



# **Individualized Study Options**

## **Credit Recovery Programs**

*Bayless High School recognizes that students sometimes lose credit for a variety of reasons—poor attendance, lack of academic preparation, failure to complete work in a timely manner, or lack of academic effort. Some alternatives for students who need to regain credit toward graduation are available. These alternatives may include but are not limited to: correspondence courses, computer-based instruction, on-line courses, summer school and/or night school. Only courses offered by accredited institutions will be considered.*

*Students wishing to pursue credit recovery should discuss the option with their counselor as some programs have limited availability. Students must have administrative approval to earn credit toward graduation in any of these programs.*

### **Correspondence and On-Line Courses**

Options for completing a course through correspondence courses and/or on-line courses are increasing. Students taking these courses complete class work on an independent basis, without direct teacher instruction. Coursework is typically submitted on-line or via mail. Test and final examinations may be taken at an approved, supervised site. Only correspondence courses from accredited programs such as University of Missouri-Extension program are available to students desiring to pursue this option. Cost for correspondence courses is the responsibility and must be paid for by the student and/or the student's parents. Consult with your counselor for additional information on correspondence courses. Administrative approval is required.

### **Summer School**

Students who have failed a course should attend summer school to make up credit. Students who have not failed a course, but choose to earn a credit in a core content area so they can take more electives during the school year may also sign up for summer school with administrative, counselor, and parent/guardian approval. Student who have failed courses will be given the available spots in summer school prior to students who are attempting to work ahead of credits.

## **Alternative Programs**

*Bayless High School recognizes that students may need to pursue alternative educational opportunities for a variety of reasons. Students wishing to pursue an alternative course of study should discuss the option with their counselor as some programs have limited availability. All alternative programs require recommendation by and approval from the Bayless School District administrative team.*

### **Missouri Options Program**

Missouri Options is intended for students who might otherwise drop out of school. Student must be deficient in credits and 17 years of age. Students attend MO Options classes at Bayless three hours per day to prepare for the HiSet test; they must work or perform community service for a set number of hours each week, totaling the semester requirement for MO Options. Students are enrolled as a full time student and may have to register for classes that are required for high school graduation. Once the HiSet test is passed and the student successfully meets the community service/work hours required and he/she graduates with his/her cohort group. Students will not be allowed to graduate early through this program. It is designed for students not making adequate progress toward graduation.

### **SCOPE Program**

The SCOPE (South County Opportunity for the Purpose of Education) program serves students in grades six through twelve. Located in the Mehlville School District, SCOPE serves students from the Affton, Bayless, Hancock Place, Lindbergh, Mehlville, Valley Park, Webster Groves and Special School Districts. SCOPE provides a computer-based individualized instruction program with a behavior modification component to be used to equip students with appropriate lifelong learning skills in school, employment, and community. SCOPE is an alternative program, not a replacement for the Bayless High School curriculum. Students earn credit through the SCOPE program which may then be transferred to Bayless High School. Enrollment in this program is limited to students who are assigned to the program by the Bayless administrative team (typically due to long-term suspension). Students are responsible for their own transportation.

### **Night School**

Students who have failed a course may attend night school to make up the credit. A student who attends night school classes should obtain the approval of the Bayless High School principal or counselor to determine whether or not graduation credit can be earned. Night school is offered at a variety of area schools including SCOPE, Technical Schools and other school district. Please see your counselor for more details.