

Jefferson County Public Schools

# 2020-21 Butler Traditional High School Scheduling Book



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# Butler Traditional High School Scheduling Booklet and Four-Year Plan

Class scheduling provides an opportunity for you to plan for the future. Consider your choices thoroughly and carefully to ensure that you meet requirements for graduation. Your classes are scheduled for the entire year, and schedule changes cannot be made after **August 1** of each year.

Take this booklet home, and discuss the course selections with your parents. Discuss your class choices with your teachers, and consult with your counselor regarding your selections. Parent and student conferences are available by appointment.

Please follow these scheduling guidelines:

1. Complete the schedule sheet by listing course selections.
2. Have your present course teacher approve your selection by initialing the schedule sheet.
3. Take this sheet home for your parent's signature. All scheduling must be approved by and signed by your parent before you return the schedule sheet to the counselor.

## Important Notes, Definitions, and Policies for Scheduling Considerations

1. To enter Butler Traditional High School (BTHS) in grade nine, all students must pass English, Mathematics, Science, and Social Studies in grade eight.
2. Students entering the Traditional Program for the first time in grades ten, eleven, and twelve must complete Traditional School requirements to the fullest extent possible before graduation.
3. A credit/unit is awarded to all students who satisfactorily complete a course. Semester courses are awarded one half credit. Yearlong courses are awarded one full credit.
4. A required course is one that all students must complete successfully in order to meet minimum state and Traditional School graduation requirements.
5. An elective course is one that students may take to complete units needed for graduation. Additional courses in required areas may count as electives.
6. Students must check prerequisites carefully before choosing courses. Students are removed from classes for which they are not qualified.
7. The selection and completion of the graduation requirements are the responsibility of the students and their parents.
8. All schedules are approved by the counselor. If conflicts arise, the counselor may change courses to alternate selections to ensure a schedule for next year.
9. To qualify for Geometry in grade nine, grade-eight students must receive a grade of at least a B in high school credit Algebra I **or** receive a grade of at least an A in Accelerated Eighth-Grade Math, be recommended by their current math teacher, and earn an acceptable score on a math placement exam or comparable assessment tool. Students who earn high school Algebra I credit in middle school are not allowed to retake the course.
10. Please note that students may be assigned to specific courses in the areas of math and reading based on ACT, Cognitive Abilities Test (CogAT), Measures of Academic Progress (MAP) testing, or other standardized test scores.
11. If independent study, JCPS*eSchool*, or summer school becomes necessary, the coursework must be completed by August 1 and grades must be received at Butler Traditional High School no later than the Friday before the school year begins.
12. Honors students are ranked and placed by qualifications. It is possible that not all qualifying students will be scheduled for an Honors class (or classes) due to limited space. All students new to Butler must take the CogAT or MAP test before being placed in an Honors class. Those students who sign up will be notified of the spring test date.
13. Effective October 10, 2000, Jefferson County Public Schools (JCPS) no longer ranks students.

## Kentucky Minimum Graduation Requirements

English .....	4
Mathematics .....	4
Science .....	3
Social Studies (U.S. History—Required).....	3
Health and Physical Education .....	1
Visual and Performing Arts.....	1
Electives .....	6
<b>Total .....</b>	<b>22</b>

## Pre-College Curriculum\*

English (English I, English II, English III, English IV).....	4 units
Mathematics (Algebra I, Algebra II, Geometry, Senior Math Elective).....	4 units
Science (Physics w/Earth/Space, Biology w/Earth/Space, and Intro to Chemistry & Physics or Physics I) .....	3 units
Social Studies (World Civilizations, US History and Exploring Civics, Political Science or American Government).....	3 units
World Language.....	2 units
Visual and Performing Arts.....	1 unit
Electives .....	7 units required (5 rigorous)

\*Subject to change by the Kentucky Council on Postsecondary Education

## Grade Placement

In order to be promoted, a student must earn units as follows:

Sophomore.....	5
Junior.....	11
Senior .....	16
<b>Graduate</b> .....	<b>22</b>

## The Honors Program and Seal

The Honors Program offers an accelerated curriculum designed for those students who meet the established criteria. Students who complete a minimum of 12 Honors classes receive an Honors Seal on their diploma. To to be eligible for Honors classes, students must meet the following criteria:

- A. Students must have a minimum grade performance of B or higher in the specific subject area from the previous year to continue in Honors courses.
- B. A teacher/counselor recommendation to take Honors courses
- C. Students new to Butler must take the CogAT or MAP before being placed in Honors classes.

## Academic Recognitions

**Valedictorian:** Any graduating senior who has a 4.0 or higher final weighted GPA will be recognized as a valedictorian.

**Top Ten:** The Top Ten graduating seniors will be identified by using a formula that equalizes the students' weighted GPA and ACT scores. Both of these factors are equally important in determining academic excellence; however, the GPA is more subjective while the ACT is an objective, nationally normed score. Eligibility for the Top Ten also requires students to take a minimum of six courses at honors level or higher during their high school career.

**30's Club:** The 30's Club consists of all students who score a 30 or higher on any ACT during their high school career at Butler.

## Athletic Eligibility

Eligibility requirements for all athletic teams are as follows:

- A. To be eligible in high school, middle school students must pass a minimum of 80 percent of all grade-eight courses taken.
- B. For high school students, these current Butler standards determine eligibility. All students must obtain enough credits to be on grade level and must adhere to the following standards:
  - **Freshman/Sophomore Standards:** Must pass at least five classes
  - **Junior/Senior Standards:** Must pass at least five classes with a 2.0 GPA in those classes
- C. These JCPS standards also determine eligibility:
  - Student athletes must be in the proper grade level at the beginning of the school year.
  - Student athletes must be passing four classes the preceding week to be eligible by state standards.
  - Independent study and JCPS*eSchool* courses do not fulfill National Collegiate Athletic Association (NCAA) core curriculum requirements.

## College Credit/Advanced Placement/Cooperative Education

**College Credit:** English, communication, and humanities credits are granted by the University of Louisville (UofL). A minimum grade point average (GPA) of 3.25 and a minimum ACT score (set by UofL) are necessary to be admitted to the college-credit courses. The final grade for the course is made up of one-half of the college grade and one-half of the high school grade.

- Dual-Credit Humanities (6 hrs.)
- Dual-Credit English IV (6 hrs.)
- Dual-Credit Oral Communication (3 hrs.)

Dual-Credit College Algebra and Dual-Credit Precalculus are offered through UofL. Students must have a 3.0/3.25 GPA and a minimum score on the ACT in mathematics as determined by UofL.

- Dual-Credit College Algebra (3 hrs.)
- Dual-Credit Precalculus (4 hrs.)

### Dual-Credit courses are offered by UofL at a discounted tuition rate.

The Jefferson Community and Technical College (JCTC) Dual-Credit Program has partnered with Butler to offer eligible students 3 hours of college credit in several classes. Requirements are dependent on the course taken, but eligible students will need to meet an ACT/KYOTE score and GPA requirement.

American Government  
Medicaid Nurse Aide  
Spanish 102  
Personal Finance

Intro to Computers  
Computational Thinking  
Web Page Development

### Dual-credit courses are offered by JCTC at a discounted tuition rate.

**Advanced Placement:** Advanced Placement (AP) is a program of college-level courses and examinations that provides high school students with the opportunity to receive AP credit and/or college credit. Students must meet eligibility criteria to be enrolled in these courses.\* Students must take the AP examination in May. There is a cost for all students who take the examination. If a student earns the college's required grade on an AP examination, he or she may receive the equivalent of credit for a one-year course.

\*Must have a minimum 3.0 GPA, teacher recommendations, or minimum MAP/PSAT/ACT scores to be placed in AP courses

**Cooperative Education:** Seniors who are interested in earning high school credit through cooperative-education (co-op) experiences have the opportunity to co-op through the United Parcel Service (UPS) School-to-Work Program. Students must meet a 2.5 GPA requirement and make a yearlong commitment to work part-time at UPS. UPS interviews and selects students. Students co-op during fourth through eighth periods. Students in the UPS School-to-Work Program will be enrolled in a college course in both the fall and spring semesters through JCTC. This course will be paid for by UPS. **Students involved in any School-to-Work Program (co-op) who, after the first six weeks of school, are terminated or leave the program will attend Jefferson County High School.**



## Descriptions of Electives

### Arts and Humanities

#### Visual Arts

**Visual Art I:** This is the foundation course in art for the high school student. In this course, the student receives instruction in the following studio areas: design, drawing, painting, print making, ceramics, sculpture, and textiles. This instruction increases skills developed in the middle school Art Program. The course provides experiences to increase student knowledge and understanding of art history, art criticism, and aesthetics. Students are responsible for acquiring a sketchbook and basic art supplies.

**2-D Art:** The course involves the student in challenging 2-D studio problems in the visual art areas and in art history, art criticism, and aesthetic material related to the full development of the talent and interests of the individual. In this class, students begin to select work for a portfolio used for career or college pursuits. Students are responsible for acquiring a sketchbook, basic art supplies, and a visual portfolio. Examples of 2-D artwork include, but are not limited to, drawing, painting, print making, collage, design, and textiles. Students must have received a grade of C or better in Visual Art I.

**Photography I:** Photography I is an introductory course in which the student is introduced to basic camera and photographic darkroom/digital techniques. The student learns to plan and produce photographic images that reflect an understanding of laboratory and digital processes emphasizing usage of elements and principles of design. Major photographers, movements, and styles are studied. Students will also explore career opportunities in photography. Students must have access to a digital camera. Students must have received a C or better in Visual Art I or obtain teacher approval. Open to juniors and seniors only.

**3-D Art:** This course involves the student in challenging 3-D studio problems in the visual art areas and in art history, art criticism, and aesthetic material related to the full development of the talent and interests of the individual. In this course, students begin to select work for a portfolio used for career or college pursuits. Students are responsible for acquiring a sketchbook, basic art supplies, and a visual portfolio. Examples of 3-D artwork include, but are not limited to, sculpture, ceramics (clay), relief, mobiles, and textiles. Students must have received a grade of C or better in Visual Art I.

**Visual Art—Art Portfolio:** This is a course for guided independent study and portfolio building. Students can choose to pursue portfolio building through independent study after completing Visual Art I and one optional art course. Students will participate in art shows, art contests, and college scholarship opportunities. Two prior art classes and teacher approval are required. Open to seniors only.

### Humanities

**Humanities/Honors Humanities:** This is a course designed to familiarize students with the four major art forms—dance, theatre, visual arts, and music. Emphasis is placed on the specific elements of each art form as well as the development of these art forms over historical periods. Students experience the arts in a variety of ways throughout the year, including performances by visiting artists and required projects designed to give students first-hand experiences with the arts in our community.

**Dual-Credit Humanities:** Students meeting academic requirements are eligible for Dual-Credit Humanities. This course can fulfill the Humanities requirement, or it can be counted as an elective course if the Humanities requirement has already been met. Students successfully completing this course will receive a total of six hours of college credit. The course is taught in collaboration with UofL professors and a Butler teacher. It will focus on an in-depth look at art history as well as provide an overall context for understanding a variety of cultural subgroups and their artistic contributions to our culture in America.

**Theatre:** This course introduces the student to the major aspects of play production: acting, directing, producing, and critiquing. In addition to theatre craft, the course focuses on the history of theatre, the form and structure of dramatic literature, and the development of an understanding and appreciation of drama and the theatre.

### Business

**Digital Literacy:** This course provides an introduction to the computer and technology as used in today's workforce. Topics include file management, Internet use, email, and Microsoft Office. Students will learn basic use of Microsoft Word, Excel, PowerPoint, and Access, all of which are used in next-level education and in the workplace. Students will also explore possible career choices for the future. Students will improve their typing speed and accuracy throughout the course.

**Business and Marketing Essentials:** This is an introductory business and marketing course that enables students to acquire a realistic understanding of business processes and activities. Students examine fundamental economic concepts, the business environment, and primary business activities. They develop an understanding of skills in such areas as customer relations, economics, emotional intelligence, financial analysis, human resources management, information management, marketing, operations, professional development, and strategic management. Throughout the course, students are presented with ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills.

**Accounting and Finance Foundations:** This course will provide an introduction to both areas of accounting and finance. Topics will include banking, credit, financial literacy, career exploration, spreadsheet usage, and technical writing. The major focus of the course is on the accounting cycle and the communication of financial information to decision makers. The accounting principles taught in this course are based on a double-entry system and include preparing bank reconciliations, payroll taxes, and financial statements.

**Introduction to Management:** Introduction to Management expands student understanding of management. It exposes students to several types of management, including customer relationship management, human resources management, knowledge management, information management, project management, quality management, risk management, and strategic management. Business law, communication skills, economics, operations, and professional development are also stressed. Current technology will be used to acquire information and to complete activities. Throughout the course, students are presented with ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills.

**Marketing Principals:** This course introduces students to the dynamic processes and activities in marketing. The course develops student understanding and skills in the functional areas of marketing, as well as business law, communication skills, customer relations, economics, human resources management and operations. Current technology will be used to acquire information and to complete activities. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills.

**Principles of Entrepreneurship:** This course introduces students to a wide array of entrepreneurial concepts and skills, including the role of entrepreneurship in our economy, entrepreneurial discovery processes, ideation, and preliminary start-up venture planning. Students also develop an appreciation for marketing's pivotal role in the development and success of a new business. They become acquainted with channel management, pricing, product/service management, and promotion. Students conduct thorough market planning for the following ventures: selecting target markets; conducting market, SWOT, and competitive analyses; forecasting sales; setting marketing goals and objectives; selecting marketing metrics; and setting a marketing budget. The capstone activity in the course is the development of detailed marketing plans for students' startup businesses. Throughout the course, students are presented with ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills.

**Dual Credit Personal Finance:** This course is designed to provide students with the knowledge and skills to manage one's financial resources effectively for lifetime financial security. Topics include economics, money in the economy, budgeting, credit, consumer rights, and investing and growing wealth. Students will receive 3 hours credit for BAS 120 via JCTC.

## Information Technology

**Internet Technologies:** This course provides students with an introduction to traditional and emerging Internet hardware and software technologies. Topics include how computers and networks work, how to set up Microsoft Windows and Linux servers, and computing. Hands-on experience with PC hardware, Windows and Linux system utilities, and rudimentary web programming in a lab environment are provided. Students will prepare for the Microsoft Technical Associate (MTA) certifications. Qualifying students will have the opportunity to apply for dual credit at JCTC for the course CIT 105. Students must have a C or better in Digital Literacy or Computer Literacy.

**Computational Thinking:** This course promotes the understanding and application of computer programming and logic. The curriculum covers introductory and intermediate programming and design theories, including the use of variables, control and data structures, and principles of command-line and object-oriented languages. Python and shell scripting programming languages will be used in the course. Qualifying students will have the opportunity to apply for dual credit at JCTC for the course CIT 120. Students must have a C or better in Internet Technologies.

**Web Page Design and Development:** This course introduces students to basic and intermediate web page design using HTML and CSS programming languages. Students will use software to create web documents with various formats and page layouts, multime-

dia, tables, and forms. This course emphasizes W3C web design and standards. Students will prepare for the Microsoft Technical Associate (MTA) industry certification in HTL5 and have the opportunity to apply for dual credit at JCTC for the course CIT 155. Students must have a C or better in Computational Thinking.

**Introduction to Networking Concepts:** This course introduces technical-level concepts of various networking technologies, including media, topologies, devices, management tools, cyber forensics, and security. Topics include how to manage, maintain, troubleshoot, operate, and secure various network devices and servers.

## Automation Engineering

**Engineering I:** This course applies the skills, concepts, and principles of engineering. Students explore various technological systems and engineering processes in related career fields. Topics include investigating technological systems, design optimization, and problem solving. Students utilize CAD and physical and virtual modeling concepts to construct, test, collect, and report data. Active participation in Kentucky CTSO'S will greatly enhance instruction. Teacher approval and an application are required.

**Engineering II:** This project- and research-based course extends the learning experiences where students focus on mechanical, electrical, fluid, and thermal systems. It allows for in-depth exploration in selected disciplines of engineering, such as manufacturing, power/energy/transportation, robotics, hydraulics, electricity/electronics, communications, construction systems, alternative energy, computer-aided design, and problem solving. Active participation in Kentucky CTSO'S will greatly enhance instruction. Teacher approval and Engineering I with a B or higher are required.

**Robotics Engineering:** This course provides students with the foundation in content and skills associated with robotics and automation, including artificial intelligence, electronics, physics, and principles of engineering. Active participation in Kentucky CTSO'S will greatly enhance instruction. Prerequisites: Engineering I and/or Engineering II. Teacher approval and Engineering I with a B or higher are required.

**Engineering Capstone or CPT:** Engineering scope, content, and professional practices are presented through practical applications in this capstone course. Students in engineering teams apply technology, Kentucky Academic Standards, and skills to solve engineering design problems and create innovative designs. Students research, develop, test, and analyze engineering designs using criteria, such as design effectiveness, public safety, human factors, and ethics. Active participation in Kentucky CTSO'S will greatly enhance instruction. Teacher approval, Engineering 2, and Robotics with a B or higher are required.

**Engineering Co-op:** Cooperative education is a paid educational program consisting of in-school instruction combined with the program-related, on-the-job work experience in a business or industrial establishment. These are planned experiences supervised by the school and the employer to ensure that each phase contributes to the student's Individual Learning Plan (ILP). Refer to the Kentucky Department of Education (KDE) *Work-Based Learning Manual* for further specifications. Active participation in Kentucky CTSO'S will greatly enhance instruc-

tion. Teacher approval, Engineering 2, and Robotics with a B or higher are required.

**Engineering Internship:** This internship provides supervised work-site experience for high school students associated with their identified career pathway. Internship experiences consist of a combination of classroom instruction and field experiences. Active participation in Kentucky CTSO'S will greatly enhance instruction. Teacher approval, Engineering 2, and Robotics with a B or higher are required.

## English

**Creative Writing:** This class provides the student with an opportunity to broaden his or her reading experiences beyond the regular, four-year English schedule. Students practice both creative and expository writing.

**Newspaper/Journalism:** Students enrolled in this course work on the *Inkspot*, the school newspaper (by application only). Enrollment is open to students in grades eleven and twelve.

**Yearbook:** Students enrolled in this course work on and produce *The Den*, the school yearbook (by application only). Enrollment is open to students in grades eleven and twelve.

**Dual-Credit Oral Communication:** This course focuses on the study of interpersonal and intergroup dynamics and the use of oral communication to represent thoughts and feelings. This course also offers training in small-group dynamics, listening skills, critical analysis, oral interpretation, information gathering and organizing, and physical training in body and voice.

**AP English III:** This course will strive to engage students in becoming both skilled readers of prose and skilled writers who compose for a variety of purposes. Both their writing and reading should make students aware of the interactions among a writer's purposes and audience expectations as well as the way genre conventions and the resources of language contribute to effectiveness in writing. The purpose of the AP English Language and Composition course is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers.

**English—Accelerate to College:** This course is designed for students needing to demonstrate college readiness in English Language Arts. Its purpose is to enhance each student's reading, writing, and language skills, preparing him or her for college-level English courses. Students who successfully complete this course will be given credit for ENG 096 Introduction to College Writing at JCTC. Alternatively, students who successfully complete this course will be considered college-ready in English upon enrollment at JCTC after graduation.

**Dual Credit Senior English/Intro to College Writing:** This course consists of two semesters of work—English 101 in the fall and English 102 in the spring. Students engage in critical thinking and writing by developing their writing processes and producing finished prose. Required writing consists of multiple drafts of four to six papers of varying lengths. Students will also meet all requirements for senior English, including the development of speaking skills and collaborative work. Eligible students will have a 3.0 GPA and a 20 subscore on the ACT Reading and English tests.

**African-American Literature:** This course is a condensed survey of African-American literature from the eighteenth to the twenty-first century. Students will examine historically relevant texts to understand how this canon of literature was built over time; how it was influenced by art, folklore, and oral traditions from Africa; and how the canon impacted and was impacted by historic American events, such as slavery, abolition, segregation, Jim Crow, the Great Migration, the Civil Rights Movement, and civil rights as it exists today. While the focus of this course will be the written word, we will occasionally bend our definition of *literature* to perform analysis on other relevant texts, such as documentaries, interviews, movies, and songs. This course is a rigorous study in multiple writing genres.

**World Mythology:** Students will examine text from various cultures and time periods to understand how this canon of literature was built over time; how it was influenced by art, folklore, and oral traditions from the various cultures; and how the canon has had an impact on contemporary literature, especially coming-of-age stories in young adult literature. The survey will include discussions of gods, goddesses, heroes, heroines, monsters, and the epic quests from the Greek, Roman, Norse, Egyptian, West-African, Native-American, and Caribbean cultures.

## Health and Physical Education

**Health-Related Fitness:** This course focuses on the development of both anaerobic and aerobic fitness. Through weekly running, weight lifting, and some interactive games, improvement on total body fitness is achieved. Grades are based primarily on daily dressing out, daily participation, running scores, and weight lifting assessments.

**Healthy Life for Young Women:** This is a female-only course that focuses on increasing knowledge and skills necessary to maintain overall wellness. The course takes a holistic approach to mental, emotional, social, and physical wellness. A variety of topics are addressed to create, maintain, and develop overall health.

## Health Science

**Emergency Procedures:** This course will focus on potential emergency situations. It is designed to promote an understanding of standard precautions necessary for personal and professional health maintenance and infection control. Upon successful completion of the course, the student will demonstrate the necessary skills in First Aid and Cardiopulmonary Resuscitation (CPR) and will be given the opportunity to take the completion examination as outlined by the sponsoring agency. Recommended Credit: .5

**Medical Terminology:** Medical Terminology provides an intense study of the medical language used in all allied health career major areas. Students will learn correct pronunciation, spelling, and application rules. Medical Terminology includes writing exercises, research, and connections to medical science. Recommended Credit: .5

**Principles of Health Science:** Principles of Health Science is an orientation and foundation for occupations and functions in any healthcare profession. The course includes broad healthcare core standards that specify the knowledge and skills needed by the vast majority of healthcare workers. The course focuses on exploring health career options, the history of healthcare, ethical and legal responsibilities, leadership development, safety con-

cepts, healthcare systems and processes, and basic healthcare industry skills. This introductory course may be a prerequisite for additional courses in the Health Science Program.

**Body Structures and Functions:** Body Structures and Functions is designed to provide knowledge of the structure and function of the human body with an emphasis on normalcy. The interactions of all body systems in maintaining homeostasis will promote an understanding of the basic human needs necessary for health maintenance. Academic knowledge from life science core content as it relates to the human body will be included. Laboratory activities should be a part of the course when appropriate.

**Essentials of Sports Medicine:** This course prepares individuals to perform routine sports-medicine-related services for the physically active, under the training and supervision of an approved licensed athletic trainer. The purpose of this course is to give individuals the knowledge and skills to prevent, recognize, and provide basic care for injuries and sudden illness.

**Allied Health Core Skills:** Allied Health Core Skills is designed to provide the knowledge, concepts, and psychomotor skills necessary for gainful employment as an entry-level healthcare worker. Assisting students in selecting a career major, classroom instruction, and educational objectives are combined with learning experiences, observations, and work-based learning opportunities, such as an internship, shadowing, or clinical rotation. Prerequisites: Principles of Health Science **and** Medical Terminology **and** Emergency Procedures

**Medicaid Nurse Aide (MNA)—Healthcare Basic Skills with Clinicals:** This course is an instructional program that prepares individuals to perform routine nursing-related services to patients in long-term care facilities under the training and supervision of an approved registered-nurse. State registry is available upon successful completion of state-written and performance examination. Prior to offering this course, the instructor and health science program must be approved for meeting state requirements set by the Cabinet for Health and Family Services. Eligible students have the opportunity to apply for dual credit at JCTC for the course HST 104.

## Mathematics

**Algebra II—Accelerate to College:** This course is designed for students needing to demonstrate college readiness in math. Its purpose is to enhance the students' understanding and manipulative skills in the arithmetic or rational numbers, preparing students for college-level mathematics courses. Students who successfully complete this course will be given credit for MAT 061 at JCTC and will be eligible for dual-credit mathematics courses. Alternatively, students who successfully complete this course will be considered college-ready in mathematics upon enrollment at JCTC after graduation.

**Math Concepts:** Applied Mathematics includes an in-depth study of real-world applications of the following types of equations and functions: linear, quadratic, exponential, logarithmic, polynomial, rational, and radical.

**College Algebra:** College Algebra includes a review of linear equations and linear functions and an in-depth study of polynomial expressions/functions, quadratic equations/functions, rational expressions/functions, radical expressions, equations, and functions with radicals, exponential and logarithmic equations and functions, and conics.

**Dual Credit College Algebra:** This course covers advanced topics in algebraic and rational expressions and factoring: polynomial, rational, exponential, and logarithmic functions and applications. This course counts towards a QR requirement in UofL's Cardinal Core curriculum. Students must have an overall GPA of at least 3.0, must have completed Algebra 1 and 2 and Geometry, and must have earned a mathematics subscore of 21 on the ACT or 500 on the SAT/PSAT.

**Precalculus:** A thorough understanding of algebra and a general knowledge of geometry are necessary to master precalculus. Students must have a minimum C average in Algebra II for placement in Precalculus.

**Dual Credit Precalculus:** This course covers advanced topics in algebraic and rational expressions, factoring, exponents, and radicals; theory of equations; and inequalities functions. It also covers analytic geometry and trigonometry. This course counts toward a QR requirement in UofL's Cardinal Core curriculum. Students must have an overall GPA of at least a 3.25, must have completed Algebra 1 and 2 and Geometry, and must have earned a mathematics subscore of 23 on the ACT or 540 on the SAT/PSAT.

**Probability and Statistics:** This class will be centered on logic game theory and systematic thinking from the perspective of chess. You will learn not only how to play chess but also how to use logic and probability to influence your everyday thinking.

**AP Calculus:** This course includes the study of functions; differentiation and integration of selected functions, including algebraic and transcendental functions; applications of the derivative; and special methods of integration. This course is equivalent to the AP Calculus course of the College Entrance Examination Board.

## Music Instrumental

**Freshman Orchestra:** This course emphasizes technical training, musicianship building, and performances of various types of orchestra music. Some out-of-school rehearsals and performances are required. This course is for students entering the ninth grade.

**Concert Orchestra (Advanced):** These courses emphasize continued technical training, musicianship building, and performances of various types of orchestra music. Some out-of-school rehearsals and performances are required. Private lessons are encouraged as is participation in the Kentucky Music Educators Association (KMEA) Solo/Ensemble Festival. Students in this class are encouraged to audition for the JCPS All-County Orchestra. These courses are for students in grades ten through twelve.

**Marching Band 1, 2, 3, 4: (Prerequisite: Participation in middle school band or special permission given only by Butler's director of bands)** This class requires after-school rehearsals and performances. This class meets after school, and students receive additional academic credit.

**Percussion Ensemble 1, 2, 3, 4:** This class is open to students who play a percussion instrument or who receive special permission from Butler's director of Bands. This class requires after-school rehearsals and performances.



**Symphonic Band (Advanced): (Prerequisite: Participation in two or more years of middle school/high school concert band and audition. The audition will be conducted in the spring semester.)** This course strongly emphasizes private lessons, musicianship building, technical expertise, and performance. This class requires after-school rehearsals and performances. Private lessons are encouraged, as is participation in the KMEA Solo/Ensemble Festival. Students in this class are strongly encouraged to audition for the KMEA All-State Bands and JCPS All-County Concert/Symphonic Band. Students must participate in the marching band to be members of the wind ensemble. The only exemption from this requirement is if a student is participating in a direct conflict fall sport or has a physical limitation. Other exceptions will be made by Butler's director of bands **only**.

**Concert Band:** This course is designed to give the student an enriching and diverse instrumental music education. This class provides a number of performance opportunities for the student in a variety of settings. The daily objective is to foster and promote musical growth through the student's playing an instrument. As a member of the Band Program, group effort and cooperation are necessary to a successful program. Band requires a skilled effort, and each student is expected to show technical and musical growth throughout this course.

**Beginning Band:** This class offers the Band experience at the beginning level. The instruments taught are flute, clarinet, saxophone, French horn, trumpet, trombone, euphonium, and tuba. No experience is necessary—only the will and desire to play an instrument. Musical topics are introduced, such as reading music notation, analyzing and evaluating music, and composing and improvising simple melodies. Students will present a Winter and Spring Concert.

**Guitar Ensemble:** This class offers beginning basics of guitar. No prior music experience is needed. The course will teach students the history of guitar, parts of the guitar, reading music notation, analyzing music, and how to play as a soloist and in an ensemble. Students will present performances for an audience in the winter and spring.

**Beginning Piano Class:** This class covers the basic skills of reading music, music theory, piano technique, and performance. Literacy assessments, skills challenges, scale assessments, and performance assessments are common in this class. Students will practice together and separately, mastering different activities. Space is limited to 15 students.

**Advanced Piano Class: (Prerequisite—Beginning Piano or instructor recommendation)** This course is a continuation of the skills acquired in Beginning Piano and provides students further mastery of the keyboard through increased technical abilities.

**Digital Music and Music Production:** Students in this course are provided with the training and skills to become digital-media-literate across a wide array of software and hardware applications. Topics covered will include acoustical theory; the physics of sound; music and the brain; artificial intelligence; and computer music, information theory, and programming for audio production.

**AP Music Theory:** AP Music Theory is designed for musicians interested in learning how music is constructed, analyzed, and performed. Students will learn how to compose and analyze melodies, harmonies, and non-chord tones. Students will also

learn how to perform on piano, mallet instruments, and sing at sight. This class is focused on, but not limited to, students who want to perform music in college or at a pre-professional level. Prerequisite: One year of a music performance class (Choir, Band, Orchestra, Piano Class) Corequisite (must take at the same time): Piano Class, Choir, Band, Orchestra, or Guitar

## Vocal

**Men's Choir:** Beginning Men's Choir is a non-auditioned choir for freshmen and beginning men. There is no experience required, and many guys have never sung in a choir before. Students will explore a wide variety of genres, languages, and musical styles increasing in difficulty throughout the year. Instruction will focus on developing essential skills, including vocal tone, range, historical context, musical literacy, and expressive skills. Men's Choir will perform in all concerts at BTHS and in district KMEA festivals. Men's Choir members are strongly encouraged to audition for Jefferson County 7-9 District Honor Choirs in the fall by learning a short solo and practicing major scales in solfège.

**Beginning Women's Choir:** Beginning Women's Choir is a non-auditioned choir for freshmen and beginning women. There is no experience required, and many ladies have never sung in a choir before. Students will explore a wide variety of genres, languages, and musical styles increasing in difficulty throughout the year. Instruction will focus on developing essential skills, including vocal tone, range, historical context, musical literacy, and expressive skills. Women's Choir will perform in all concerts at BTHS and in district KMEA festivals. Women's Choir members are strongly encouraged to audition for Jefferson County 7-9 District Honor Choirs in the fall by learning a short solo and practicing major scales in solfège.

**Women's Choir (Advanced): (Prerequisite: Beginning Women's Choir, Piano, Guitar, or teacher recommendation)** Advanced Women's Choir is a choir for advanced sophomore, junior, and senior girls. Many of these students have participated in choir at Butler in previous years, although no experience is required. Students perform more advanced choral literature in various styles, languages, and genres. Instruction focuses on group cohesion, choral tone, stylistic variety, interpretive skills, music literacy, and music theory. Advanced Women's Choir will perform in all concerts at BTHS and in KMEA festivals. A Cappella Choir singers are strongly encouraged to audition for All-County, All-State, and Solo and Ensemble.

**Concert Choir (Advanced): (Prerequisite: Auditions in May)** Concert Choir is an advanced ensemble for sophomore, junior, and senior men and women who show a desire to be challenged, demonstrate a strong work ethic, display a passion for music, and complete a successful audition. It is the flagship ensemble at Butler. Instruction will focus on stylistic nuance, historical context, poetic interpretation, choral tone, and music theory and literacy. Students will perform a collegiate-level repertoire of various genres, languages, and styles. Concert Choir will perform in and outside of school and compete in competitions and KMEA festivals. Concert Choir members are strongly encouraged to audition for All-County, All-State, and Solo and Ensemble. Voice lessons are encouraged but not required.

## Science

**AP Biology II: (Prerequisites: Prior science teacher recommendation and a minimum grade of A in Biology I)** This course is designed to be the equivalent of a two-semester college introductory biology course. All students who want to take this course need to have completed/received an A in Biology I or Honors Biology I. All students will be required to take the AP Biology Exam at the end of the course to demonstrate their mastery of the college-level coursework. Their score on the AP exam will determine if they receive college credit and how much college credit they will receive. The pace of this course will be much faster than Biology I and Honors Biology I. The intent of the course is to expose students to higher-level biological principles, concepts, and skills and to allow students the opportunity to use their knowledge in real-life applications. A quarter of the time spent in class will be dedicated to completing 13 of the College Board-certified AP Biology labs. During these labs, students will apply knowledge and learn how to write a college-level lab report. The course covers biochemistry, components of the cell, metabolism, genetics, biochemistry, evolutionary processes, and ecology. Students interested in pursuing a Science, Technology, Engineering, and Mathematics (STEM) major (want to go into the medical field or science field) should consider taking this course.

**AP Chemistry II: (Prerequisites: Prior science teacher recommendation and a minimum grade of B in Chemistry I)** The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. This course enables some students to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to register for courses in other fields where general chemistry is a prerequisite. For other students, the AP course fulfills the laboratory science requirements.

**Chemistry II:** This course is designed to extend students' learning of chemistry beyond the general sequence of topics covered in Chemistry I. The first semester of this course will focus on mastering the use of atomic and molecular models to explain why certain chemical reactions proceed as they do. Students will develop these models in a variety of career and college-level contexts, such as organic chemistry, biochemistry, polymer science, pharmaceuticals, and chemical engineering. The second semester of this course will focus on real-world applications and extensions of topics learned from the first semester, with an emphasis on nutrition, medical science, forensics, and environmental science. Students will also develop and practice advanced laboratory skills that are beyond the scope of Chemistry I. Students who take this course should have a passion for science and a significant appreciation for chemistry. Prerequisites: Students should have attained at least a B in Algebra II and a B in Biology. If taken at the senior level, students should have at least a B in Chemistry I.

**Forensic Science: (Prerequisites: Prior science teacher recommendation and a minimum grade of B in Biology I and Chemistry I)** The Forensic Science curriculum is designed to build upon science concepts and to apply science to the investigation of crime scenes. It serves as a fourth-year science elective and introduces students to careers in forensic science. Students will learn the scientific protocols for analyzing a crime scene; how to use chemical and physical separation methods to isolate and identify materials; and how to analyze biological evidence and the criminal use of tools, including impressions from firearms and tool marks.

**Marine Biology: (Prerequisite: Minimum grade of B in Biology)** Marine Biology presents a unique experience to high school students with a wide variety of achievement levels. Emphasis is placed on an interdisciplinary approach. Geography, physics, chemistry, geology, and ecology are all woven into every aspect of the course, providing a solid foundation for understanding life in the sea. Biological topics, such as the environment, taxonomy, evolution, and descriptions through every major component of ocean life, are emphasized. Marine Biology includes hands-on laboratory activities, with observation and dissection of preserved specimens included. Careers in marine science are discussed, providing potential springboards for lifelong learning and professionalism.

**Physics in Film:** This course uses popular media, particularly movies, as a basis for teaching conceptual principles of physics, such as force, momentum, energy, power, light, sound, electricity, magnetism, and relativity. Movies are a great tool for this purpose, because while some filmmakers do a good job of sticking to the laws of physics, many blatantly ignore them. By the end of the course, students should be able to distinguish good movie physics from bad and recognize physics principles in the world around them.

**Honors Physics:** This course is a quantitative study of the concepts of physics, including student investigations in mechanics, heat, light, sound, electricity, magnetism, and Einstein's relativity. This course will incorporate algebra and trigonometry and graphic displays of motion. It is intended for students who seek to work in the engineering, scientific, or medical fields.

**AP Environmental Science: (Prerequisites: Prior science teacher recommendation and a minimum grade of B in Biology I)** This course is designed to be the equivalent of a one-semester, general education science course taken in college. Students who want to take this course need to have completed/received an A/B in Biology I or Honors Biology I. All students will be required to take the AP Environmental Exam at the end of the course to determine if they will receive college credit. This course is ideal for students who received an A in biology but do not want to pursue a STEM major in college. The course content includes, but isn't limited to, Earth systems and resources, ecosystems, population ecology, land and water use, energy resources and consumption, pollution, global change, and more. Students will work together to create a sustainability project that will benefit Butler and the community. As part of the course, students will work on gaining a better understanding of our environment and taking care of our world.

**Zoology:** This course explores diversity of animal life and the interconnectedness of different animal species with each other and with humans. The first part of this course will explore the classification and characteristics of all the animal phyla, with an emphasis on the evolution of animals and the adaptations that have allowed such diversity to flourish. The second part of the course will focus on many different animal behaviors (including human behavior). Students will learn about different types of behaviors, from innate (genetic) behaviors to learned behaviors. The social interactions between animals will be covered in depth (courtship, aggression, altruism, and parental behaviors in animals). Students will also discuss different careers in the animal sciences as a culminating activity, which should be of great interest to students who wish to pursue their love of animals as their professions. The course will use a number of interesting articles,

discussions, activities, videos, projects, and possible field trips to give a wider perspective of the animal kingdom and animal behavior. Students must have a C or higher in Biology. Dissections are mandatory; students must be able to dissect without any issues.

## Social Studies

**AP Human Geography:** AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

**AP World History:** This comprehensive course follows the curriculum guidelines established by the College Board and prepares the student wishing to earn college credit by taking the AP examination in the spring. The curriculum is truly global and covers from 1200 to the present. A college textbook and many primary sources are used for instruction. Top social studies sophomores are encouraged to take this class.

**AP US History:** Advanced Placement United States History is a college-level class open to all juniors. Students will have the opportunity to earn college credit in high school by completing the AP Exam in May. This class will explore the history of America from the 1400s to modern day. Our units of study will include the creation of America; the changing lives of women, African Americans, and Hispanics; World Wars I and II; and the United States today. Anyone who is currently earning an A–C in both social studies and English and who is interested in earning college credit in high school should consider this course. It fulfills the US History graduation requirement.

**Sociology:** This course introduces the student to the skills, methods, and concepts of the science of sociology. The content includes basic sociology, social problems, and social institutions. Emphasis is placed on comparative evaluation and the case-study approach to social structures.

**Psychology:** This course introduces the student to the scientific study of behavior. The course emphasizes biological and environmental influences, intelligence and learning, personality, and behavior patterns.

**AP Psychology:** This is an introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore such concepts as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology.

**Political Science/Honors Political Science:** This course introduces the constitutional framework of our national government and the political process, an in depth-analysis of the three branches of government, political behavior of current and past leaders, and nongovernmental institutions (e.g., political parties, journalism and media, or interest groups) that dynamically shape American politics. Honors Political Science requires teacher recommendation, and honors score prerequisite is required. Prerequisites: 2 social studies credits

**African-American History:** This course traces the unique experience of African Americans in the course of U.S. history. Special emphasis is placed on the Modern Era, beginning with the roots of the Civil Rights Movement through the present day. The class also deals extensively with current events and issues that affect the African-American community today, and it explores the ancestral connection to Africa and the study of the impact of the slave trade on African Americans and on the growth and development of the United States. In addition, the course focuses on colonial times and the Civil War and Reconstruction eras to the present, with emphasis placed on the contributions of individuals as well as contributions made by the entire African-American community.

**AP European History:** Advanced Placement European History is a college-level class open to all sophomores, juniors, and seniors. Students will have the opportunity to earn college credit in high school by completing the AP Exam in May. This class will explore the history of Europe from the 1400s to modern day. Our units of study include Exploration, the arts, Russian tsars, the French Revolution, World Wars I and II, and Europe today. Anyone who is currently earning an A–C in both social studies and English and who is interested in earning college credit in high school should consider this class. (Note: This is an elective class. It does not fulfill the World History graduation requirement.)

**Dual Credit American Government:** This dual credit course examines the historical development and founding of the United States, discusses the major debates of the structure of our republican form of government, connects the three branches of government to modern-day politics and elections, examines the role of race and gender in American politics and the power of mass media, and critiques the American constitutional system. In doing so, we will place ourselves as citizens, activists, and policy-makers within the current American political system.

## World Languages

**Beginning Spanish—Level I:** This course is an introduction to the language and cultures of the Spanish-speaking world. It emphasizes students' initial development of the interpersonal, interpretive, and presentational modes of communication and an understanding of other people's world views, their way of life, and their patterns of behavior.

**Honors Spanish—Level I:** This course is an introduction to the language and cultures of the Spanish-speaking world. It emphasizes students' initial development of the interpersonal, interpretive, and presentational modes of communication and an understanding of other people's world views, their way of life, and their patterns of behavior.

**Developing Spanish—Level II:** This course is a part of the continuing sequence of study begun in Beginning Spanish. It offers students opportunities to improve in the three modes of communicating in Spanish and to increase their knowledge and understanding of the relationship of cultural products, practices, and perspectives of the Spanish-speaking world.

**Heritage Speaker Spanish—Level II:** This course is designed for native Hispanic speakers. Students will learn how to speak, listen, read, and write in the target language; however, reading, grammar, and writing will be the major focus. Students must have strong fluency prior to taking this course.

**Honors Spanish—Level II:** This course is part of the continuing sequence of study begun in Beginning Spanish. It offers students opportunities to improve in the three modes of communicating in Spanish and to increase their knowledge and understanding of the relationship of cultural products, practices, and perspectives of the Spanish-speaking world.

**Expanding Spanish—Level III:** This course is the third level of Spanish study. It offers students opportunities to expand their language skills in the three modes of communicating in Spanish, and there is a strong emphasis on creating with the language. Students must earn a B or better in Spanish II and/or have teacher approval.

**Dual Credit Spanish IV:** For qualifying students, this course is for the Dual Credit Spanish 2 course with JCTC and is the equivalent to High School Spanish 4. This course is designed to further develop students' overall language proficiency and cultural knowledge through more advanced reading, composition, grammatical concepts, and oral practice. Students are expected to acquire a substantial amount of vocabulary and begin to deal with idiomatic language and more advanced syntax. The college course begins in January, and credit is awarded in May **only**. Students successfully completing this course will receive college credit. Prerequisites: Spanish I–III

**Beginning French—Level I:** This course is an introduction to the language and cultures of the French-speaking world. It emphasizes students' initial development of the interpersonal, interpretive, and presentational modes of communication and an understanding of other people's world views, their way of life, and their patterns of behavior.

**Developing French—Level II:** This course is a part of the continuing sequence of study begun in Beginning French. It offers students opportunities to improve in the three modes of communicating in French and to increase their knowledge and understanding of the relationship of cultural products, practices, and perspectives of the French-speaking world.

**Expanding French—Level III:** This course is the third level of French study. It offers students opportunities to expand their language skills in the three modes of communicating in French, and there is a strong emphasis on creating with the language. Students must earn a B or better in French II and/or have teacher approval.

**AP French IV:** This course provides students with a learning experience equivalent to that of a third-year college course in French language and culture. Instructional materials, activities, assignments, and assessments are appropriate to this level. While the focus will be on the six AP themes (Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics), students will continue to acquire topical vocabulary and advanced grammar. Through these themes, students will practice interpersonal, interpretive, and presentational communication skills within interesting and relevant contexts. College credit is earned with a qualifying score on an AP test at the end of the course. Prerequisites: French I–III

## Leadership Electives

**JROTC I:** Introduction to Leadership Education and Training is an introductory course designed to motivate young people to become better Americans. Subjects include U.S. citizenship, customs and courtesies of the military, techniques of communication, leadership, cadet opportunities, goal setting, and time management.

**JROTC II:** Leadership Education and Training contains a more advanced level of study than JROTC I in major subject areas: leadership, techniques of communication, first aid, hygiene, map reading, career opportunities, American military history, role of the U.S. forces, cadet challenge, citizenship, and technology awareness. Emphasis is on leadership and communication skills. Principles of organization are expanded as applied to larger units.

**JROTC III:** Leadership Education and Training continues the development of the cadet with advanced leadership training and management techniques by discussing group and individual behavior and practical application. Subjects include expansion of discussions and practical exercises on different types of organization staff and their functions, military service opportunities, ROTC scholarships, techniques of communication, first aid/hygiene, map reading, land navigation, substance abuse, citizenship, and technology awareness.

**JROTC IV:** Advanced Leadership Education and Training expands on the psychology of leadership, moral aspects of leadership, group relations, and behavior management of resources. Subjects include leadership exercises for the cadet as a leader, planning the decision-making/problem-solving process, and supervision performing these functions while serving in command and in staff positions. Other areas include advanced communication skills, American military history, career opportunities, and technology awareness. Emphasis is placed on giving the cadet practical experience as a leader.



## Senior Electives

**Special Needs Peer Tutoring:** (open to students in grade twelve) This course is designed to inform students about people with moderate and severe disabilities and to bring about positive attitude changes in the peer tutors and other students in our school. Each student provides five hours a week of in-class and/or community-based instruction to students with moderate to severe disabilities in the school. All instruction takes place under the personal supervision and direction of the course instructor or classroom teaching staff. Each student is graded on class performance, module tests, class projects, and a final examination.

**Senior Aide:** Serving as a student aide during the senior year allows students the opportunity to assist teachers/counselors/administrators/staff in various tasks necessary to provide student services. Selection as a student aide is by application only; students must have a minimum 2.5 cumulative GPA and excellent attendance.

**Career Options:** This course is designed to provide students with a survey of skills needed for school-to-work transition. Opportunities to explore career paths, to heighten self-awareness, and to develop priorities and career decision-making skills are also provided. A variety of instructional resources, self-assessment instruments, and career interest surveys are incorporated. Interpersonal skill development and continued computer skills are included. The culminating project of the course is the development of a career portfolio that will showcase student accomplishments and personal growth. This semester course is required for all seniors.

**Financial Literacy:** This financial literacy course gives students the knowledge and skills to manage their personal finances from high school through retirement. Topics include paychecks and deductions, checking accounts, debit and credit cards, taxes and returns, loans, financial planning, investments, and insurance. This interactive course will include financial games, computer simulations, and case studies. This class also counts as a math elective. This semester course is required for all seniors

## Notes

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## Career Technical Education (CTE)—Course Sequence for Majors

(CTE majors are given preference when scheduling CTE courses.)

### Allied Health

- 10th—Medical Terminology/Emergency Procedures
- 11th—Healthcare Principals **and** Body Structures
- 12th—Core Skills or Sports Medicine

### Automation Engineering

- 9th—Robotics Engineering
- 10th—Engineering I
- 11th—Engineering II (**and** Robotics Engineering if not taken yet)
- 12th—Industry Engineering **or** Engineering Internship

### JROTC

- 9th—JROTC I
- 10th—JROTC II
- 11th—JROTC III
- 12th—JROTC IV

### Management & Entrepreneurship

- 9th—Digital Literacy
- 10th—Business and Marketing
- 11th—Accounting
- 12th—Introduction to Management **or** Entrepreneurship

### Network Administration

- 9th—Computer Literacy **or** Digital Literacy
- 10th—Internet Technologies (Could earn 3 college credit hours)
- 11th—Computational Thinking (Could earn 3 college credit hours)
- 12th—Intro to Networking Concepts (Could earn 3 college credit hours)

### Pre Nursing

- 10th—Medical Terminology/Emergency Procedures
- 11th—Healthcare Principals **and** Body Structures
- 12th—MNA (Could earn 3 college credit hours)

### Web Development

- 9th—Computer Literacy **or** Digital Literacy
- 10th—Internet Technologies (Could earn 3 college credit hours)
- 11th—Computational Thinking (Could earn 3 college credit hours)
- 12th—Web Development (Could earn 3 college credit hours)

# TRADITIONAL PRE-COLLEGE SCHOOLS OF LEARNING

## Course Sequence

<b>SCHOOL OF GENERAL STUDIES</b>			
<b>Core Academics</b> Regular, Honor, AP, or Dual-Credit Courses (Attorney, Doctor, Educator, Psychologist, Social Worker, Veterinarian)			
<b>Grade Nine</b>	<b>Grade Ten</b>	<b>Grade Eleven</b>	<b>Grade Twelve</b>
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	Math Elective
Physics w/ Earth/Space	Biology w/ Earth/Space	Intro Chemistry & Physics	Fin Literacy/Career Options
Exploring Civics	World Civilizations	US History	Humanities/Elective
Health & PE	World Language	W Lang/Humanities/Elective	Elective
Digital Literacy	Humanities/Elective	Elective	Elective
World Language/Elective	Elective	Elective	Elective

<b>SCHOOL OF ARTS</b>			
<b>Fine Arts</b> (Artist, Designer, Musician, Singer, Theatre Professional)			
<b>Grade Nine</b>	<b>Grade Ten</b>	<b>Grade Eleven</b>	<b>Grade Twelve</b>
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	Math Elective
Physics w/ Earth/Space	Biology w/ Earth/Space	Intro Chemistry & Physics	Fin Literacy/Career Options
Exploring Civics	World Civilizations	US History	Elective
Health & PE	World Language	World Language	Elective
Digital Literacy	Elective	Elective	Elective
Art/Band/Choir/Orchestra	Art/Band/Choir/Orchestra	Art/Band/Choir/Orchestra	Art/Band/Choir/Orchestra

<b>SCHOOL OF BUSINESS</b>			
<b>Mgmt Entrepreneurship &amp; Administrative Support</b> (Artist, Designer, Musician, Singer, Theatre Professional)			
<b>Grade Nine</b>	<b>Grade Ten</b>	<b>Grade Eleven</b>	<b>Grade Twelve</b>
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	Math Elective
Physics w/ Earth/Space	Biology w/ Earth/Space	Intro Chemistry & Physics	Fin Literacy/Career Options
Exploring Civics	World Civilizations	US History	World Language/Humanities/Elective
Health & PE	World Language	World Language//Humanities/Elective	Intro to Management/Entrepreneurship
Digital Literacy	Business and Marketing	Accounting	Office Admin/Med Term/Elective
World Language/Elective	Humanities/Elective	Elective	Elective

<b>SCHOOL OF ENGINEERING</b>			
<b>School of Engineering</b> (Engineer, Manufacturer, Systems Operator)			
<b>Grade Nine</b>	<b>Grade Ten</b>	<b>Grade Eleven</b>	<b>Grade Twelve</b>
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	Pre Cal/Calculus
Physics w/ Earth/Space	Biology w/ Earth/Space	Chemistry	Physics
Exploring Civics	World Civilizations	US History	Fin Literacy/Career Options
Health & PE	World Language	World Language//Humanities/Elective	Humanities/Elective
Robotics	Engineering I	Engineering II	Indust Engineer or Engineer Intern
World Language/Elective	Humanities/Elective	Robotics/Elective	Robotics/Elective

**SCHOOL OF HEALTH SCIENCES****Allied Health & Pre Nursing** (CNA, EMT, Medical Assistant, Nurse, OT, PT, Radiologist)

Grade Nine	Grade Ten	Grade Eleven	Grade Twelve
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	Math Elective
Physics w/ Earth/Space	Biology w/ Earth/Space	Intro Chemistry & Physics	Fin Literacy/Career Options
Exploring Civics	World Civilizations	US History	Humanities/Elective
Health & PE	World Language	W Lang/Humanities/Elective	MNA/Core Skills/Sports Medicine
Digital Literacy	Med Term and Emergency Procedures	Principles of Health Science	Elective
World Language/Elective	Humanities/Elective	Body Structures and Functions	Elective

**SCHOOL OF CYBER SCIENCE****Web Develop & Network Admin** (Business Owner, Computer Programmer, Engineer, IT)

Grade Nine	Grade Ten	Grade Eleven	Grade Twelve
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	Math Elective
Physics w/ Earth/Space	Biology w/ Earth/Space	Intro Chemistry & Physics	Fin Literacy/ Career Options
Exploring Civics	World Civilizations	US History	Humanities/Elective
Health & PE	World Language	World Language/Humanities/Elective	Web Dev or Intro to Networking
Digital Lit/Computer Lit	Internet Technologies	Computational Thinking	Elective
World Language/Elective	Humanities/Elective	Elective	Elective

**SCHOOL OF ORGANIZATIONAL LEADERSHIP****JROTC** (Armed Services, Civil Servant, Law Enforcement, Politician)

Grade Nine	Grade Ten	Grade Eleven	Grade Twelve
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	Math Elective
Physics w/ Earth/Space	Biology w/ Earth/Space	Intro Chemistry & Physics	Fin Literacy/Career Options
Exploring Civics	World Civilizations	US History	Humanities/Electives
Health & PE	World Language	World Language/Humanities/Elective	Elective
Digital Literacy	Humanities/Elective	Humanities/Elective	Elective
JROTC I	JROTC II	JROTC III	JROTC IV



# Butler Traditional High School Course Listing

## Advanced Placement Courses Offered

**Requirements: Teacher Approval/Grade and Test Scores Prerequisite/AP Test Fee/College Credit Available**

Course Name	Grade Level	Requirements
AP Biology II	11-12	All AP courses require teacher approval, good grades, and high test scores. AP test fee/college credit available
AP Chemistry II	12	
AP Calculus	12	
AP English III	11	
AP U.S. History	11	
AP European History	10-12	
AP World History	10	
AP Psychology	11-12	
AP Human Geography	9-12	
AP Environmental Science	10-12	
AP Music Theory	10-12	
AP French IV	12	

## Dual Credit Courses Offered

**Requirements: Teacher Approval/College Eligibility Prerequisites/Tuition**

American Government	12	JCTC, 3 hrs
College Algebra	12	UofL, 3 hrs
Computational Thinking	11-12	JCTC, 3 hrs
English	12	UofL, 6 hrs
Humanities	11-12	UofL, 6 hrs
Intro to Computers	10-12	JCTC, 3 hrs
Oral Communications	12	UofL, 3 hrs
Personal Finance	11-12	JCTC, 3 hrs
Precalculus	11-12	UofL, 4 hrs
Spanish IV	12	JCTC, 3 hrs
Web Page Development	12	JCTC, 3 hrs

## Honors Courses Offered

**Requirements: Teacher Approval/Grades and Test Scores**

Honors English I	9	For all Honors courses, teacher approval, good grades, and high test scores are required.
Honors Algebra I	9	
Honors Physics w/Earth/Space Science	9	
Honors Exploring Civics	9	
Honors Spanish I	9-11	
Honors English II	10	
Honors Geometry	9-10	
Honors Biology w/Earth/Space Science	10	
Honors World Civilizations	10	
Honors Humanities	10-12	

Honors Spanish II	10–12	For all Honor courses, teacher approval, good grades, and high test scores are required.
Honors French II	10–12	
Honors English III	11	
Honors Algebra II	10–11	
Honors Intro to Chemistry and Physics	11–12	
Honors U.S. History	11	
Honors Spanish III	11–12	
Honors French III	11–12	
Honors English IV	12	
Honors PreCalculus	11–12	
Honors Physics I	11–12	
Honors Political Science	11–12	
<b>Arts and Humanities</b>		
<b>Fine Arts</b>		
Visual Art I	9–12	Fee
2D Art	10–12	Visual Art 1—C or Better/Fee
Photography I	11–12	Visual Art 1—C or Better or Teacher Approval/Application Required/Fee
3D Art	10–12	Visual Art 1—C or Better/Fee
Visual Art, Art Portfolio	12	Visual Art 1—C or Better/Teacher Approval/Application Required/Fee
<b>Humanities</b>		
Humanities	10–12	
Honors Humanities	10–12	Teacher Approval
Dual-Credit Humanities	11–12	Teacher Approval/College Credit Available
Theatre	11–12	
<b>Health Sciences</b>		
Body Structures and Functions	11–12	
Essentials of Sports Medicine	11–12	
Medical Terminology (1 semester course)	10	
Emergency Procedures (1 semester course)	10	
Principles of Health Science	11	
Allied Health Core Skills	12	Teacher Approval
Medicaid Nurse Aide (Health Care Basic Skills w/ Clinical)	12	Teacher Approval/College Credit Available
<b>Business</b>		
Digital Literacy	9–12	
Business and Marketing Essentials	10–12	Digital Literacy—C or Better
Office Administration	11–12	Digital Literacy—C or Better
Accounting and Financial Foundations	11–12	
Marketing Principals	11–12	
Introduction to Management	11–12	
Principles of Entrepreneurship	11–12	
Dual-Credit Personal Finance	12	Teacher Approval/College Credit Available
United Parcel Service—Co-Op	12	Teacher/Counselor Approval

<b>Information Technology</b>		
Internet Technologies	10–12	Digital Literacy—C or Better
Web Page Design & Development	11–12	Digital Literacy—C or Better/College Credit Available
Computational Thinking	11–12	Digital Literacy and Algebra I—C or Better/College Credit Available
Introduction to Networking Concepts	12	Digital Literacy—C or Better
<b>Engineering</b>		
Engineering 1	9–12	Teacher Approval/Application Required/Fee
Robotics Engineering	10–12	Teacher Approval/Fee/3.0 GPA in Engineering Program
Engineering 2	11–12	Teacher Approval/Fee/3.0 GPA in Engineering Program
Engineering Capstone	12	Teacher Approval/Fee/3.0 GPA in Engineering Program
Engineering Co-Op	12	Teacher Approval/Engineering/3.0 GPA in Engineering Program
Engineering Internship	12	Teacher Approval/Engineering/3.0 GPA in Engineering Program
<b>English</b>		
English I	9	
Honors English I	9	Teacher Approval/Honors Score Prerequisite
English II	10	
Honors English II	10	Teacher Approval/Honors Score Prerequisite
English III	11	
Honors English III	11	Teacher Approval/Honors Score Prerequisite
AP English III	11	Teacher Approval/AP Credit Available/College Credit Available
English—Accelerate to College	12	Teacher Approval/Test Scores
English IV	12	
Honors English IV	12	Teacher Approval/Honors Score Prerequisite
Dual-Credit English IV	12	Teacher Approval/College Credit Available
African-American Literature	11–12	
World Mythology	10–12	
Yearbook	11–12	Teacher Approval/Application
Creative Writing 1	10–12	Teacher Approval
Creative Writing 2	11–12	Teacher Approval
Newspaper/Journalism	11–12	Teacher Approval/Application
Dual-Credit Oral Communication	11–12	Teacher Approval/College Credit Available
<b>Health and Physical Education</b>		
Health and Physical Education	9	
Health-Related Fitness 2-4	10–12	
Healthy Life for Young Women	12	Teacher Approval/Application
<b>Mathematics</b>		
Algebra I	9	
Honors Algebra I	9	Teacher Approval/Honors Score Prerequisite
Geometry	9–10	Algebra I
Honors Geometry	9–10	Teacher Approval/Honors Score Prerequisite/Algebra I
Algebra II	10–11	Algebra I /Geometry
Honors Algebra II	10–11	Teacher Approval/Honors Score Prerequisite/Algebra I /Geometry
Math Concepts	12	Algebra I/Geometry/Algebra 2
College Algebra	12	Algebra I/Geometry/Algebra 2/College Requirement

Precalculus	11–12	Teacher Approval/Algebra 2
Honors Precalculus	11–12	Teacher Approval/Honors Score/Algebra 2
Probability and Statistics	11–12	Algebra I/Geometry/Algebra 2
AP Calculus	12	Teacher Approval/AP Credit Available/College Credit Available/Precalculus
Dual-Credit College Algebra (3 hrs.)	12	Teacher Approval/College Credit Available/College Requirement
Dual-Credit Precalculus (4 hrs.)	11–12	Teacher Approval/College Credit Available/College Requirement
Algebra 2–Accelerate to College	12	Teacher Approval/Algebra I/Test Scores
<b>Music</b>		
<b>Instrumental Music</b>		
Beginning Band	9–12	
Marching Band 1–4	9–12	Teacher Approval
Concert Band	9	Teacher Approval
Concert Band/Symphonic Band 2–4	10–12	Teacher Approval
Freshman Orchestra	9	Teacher Approval
Concert Orchestra 2–4	10–12	Teacher Approval
Music Theory	10–12	Teacher Approval
AP Music Theory	10–12	Teacher Approval/1 Yr. of Music Perf. Class/Must Take w/Music Course/Fee
Percussion Ensemble	9–12	Teacher Approval
Guitar Ensemble	10–12	
Beginning Piano Class	10–12	
Advanced Piano Class	11–12	Teacher Approval
Digital Music and Production	11–12	
<b>Vocal Music</b>		
Men's Choir	9–12	
Beginning Women's Choir	9–12	
Advanced Concert Choir	10–12	Teacher Approval/Auditions Held in May
Advanced Women's Choir	10–12	Teacher Approval
<b>Science</b>		
Physics with Earth/Space Science	9	
Honors Physics with Earth/Space Science	9	Teacher Approval/Honors Score Prerequisite
Biology I with Earth/Space Science	10	
Honors Biology I with Earth/Space Science	10	Teacher Approval/Honors Score Prerequisite
Marine Biology	11–12	Biology w/3.0 or Higher
Chemistry I	11–12	
Honors Chemistry I	11–12	Teacher Approval/Honors Score Prerequisite
Chemistry 2	12	Teacher Approval/Biology and/or Chemistry I w/3.0 +/Algebra II w/a 3.0 +
AP Chemistry 2	12	Teacher Approval/AP Credit Available/College Credit Available/Chemistry I
AP Biology 2	11–12	Teacher Approval/AP Credit Available/College Credit Available/Biology I
Physics in Film	10–12	Counselor Approval Only
Honors Physics	11–12	Teacher Approval/Honors Score Prerequisite
Forensic Science	11–12	Teacher Approval/Biology I
AP Environmental Science	10–12	Teacher Approval/AP Credit Available/College Credit Available/Biology I
Zoology	11–12	



<b>Social Studies</b>		
Exploring Civics	9	
Honors Exploring Civics	9	Teacher Approval/Honors Score Prerequisite
AP Human Geography	9–12	AP Score Prereq./AP Credit Avail./College Credit Avail.
World Civilizations	10	
Honors World Civilizations	10	Teacher Approval/Honors Score Prerequisite
AP World History	10	Teacher Approval/AP Score Prereq./AP Credit Avail./College Credit Avail.
U.S. History	11	
Honors U.S. History	11	Teacher Approval/Honors Score Prerequisite
AP U.S. History	11	Teacher Approval/AP Score Prereq./AP Credit Avail./College Credit Avail.
Sociology	11–12	
Psychology	11–12	
AP Psychology	11–12	Teacher Approval/AP Score Prereq./AP Credit Avail./College Credit Avail.
Dual-Credit American Government	11–12	Teacher Approval/College Requirements/College Credit Avail.
Political Science	11–12	
Honors Political Science	11–12	Teacher Approval/Honors Score Prerequisite
African-American History	10–12	
AP European History	10–12	Teacher Approval/AP Score Prereq./AP Credit Avail./College Credit Avail.
<b>World Language</b>		
French I	9–11	
French II	10–12	French I
French III	11–12	Teacher Approval/French 2
AP French IV	12	Teacher Approval/AP Score Prereq./AP Credit Avail./College Credit Avail.
Spanish I	9–11	
Spanish I Honors	9–11	Teacher Approval/Honors Score Prerequisite
Spanish II	10–12	Spanish I
Spanish II Honors	10–12	Teacher Approval/Honors Score Prerequisite/Spanish I
Spanish II—Heritage Speakers	9–12	
Spanish III Honors	11–12	Teacher Approval/Honors Score Prerequisite/Spanish 2
Dual-Credit Spanish IV	12	Teacher Approval/College Credit Available/Spanish I, 2, and 3
<b>Junior Reserve Officers Training Corps (JROTC)</b>		
JROTC 1	9–11	
JROTC 2	10–12	JROTC I/Teacher Approval
JROTC 3	11–12	JROTC I and 2/Teacher Approval
JROTC 4	12	JROTC I, 2, and 3/Teacher Approval
<b>Leadership Electives</b>		
Career Options	12	Senior Requirement/.5 Credit
Financial Literacy	12	Senior Requirement/.5 Credit
Senior Aide	12	Counselor Approval/2.5 + GPA/Excellent Attendance
Special Needs Peer Tutoring	12	Teacher Approval

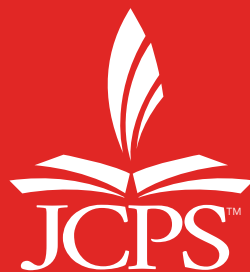
# Four-Year Course Sequence

<b>Ninth Grade</b>	<b>Selection</b>
English I or Honors English I	
Algebra I, Honors Algebra I, Geometry, or Honors Geometry	
Exploring Civics, Honors Exploring Civics, or Advanced Placement (AP) Human Geography	
Physics with Earth/Space Science or Honors Physics with Earth/Space Science	
Health (.5)/ PE (.5)	Health/PE
Digital Literacy or Computer Literacy	
Elective	

<b>Tenth Grade</b>	<b>Selection</b>
English II or Honors English II	
Geometry, Honors Geometry, Algebra II, or Honors Algebra II	
World Civilization, Honors World Civilization, or AP World Civilization	
Biology I with Earth/Space Science or Honors Biology I with Earth/Space Science	
Humanities or Honors Humanities	
World Language—Spanish I or II, Honors Spanish I or II, French I or II	
Elective—Academic or Career	

<b>Eleventh Grade</b>	<b>Selection</b>
English III, Honors English III, or AP English III	
Algebra II, Honors Algebra II, Pre-Calculus, Honors Pre-Calculus or Dual-Credit Pre-Calculus	
U.S. History, Honors U.S. History, or AP U.S. History	
Chemistry, Honors Chemistry, or Honors Physics	
World Language—Spanish I or II, Honors Spanish I or II, or French I or II	
Elective—Academic or Career	
Elective	

<b>Twelfth Grade</b>	<b>Selection</b>
English 4, Honors English 4, Dual-Credit English 4, or English—Accelerate to College	
Pre-Calculus, Honors Pre-Calculus, Dual-Credit Pre-Calculus, Math Concepts, College Algebra, Dual-Credit College Algebra, AP Calculus, Probability and Statistics, or Algebra II—Accelerate to College	
Financial Literacy/Career Options	Financial Literacy/Career Options
Elective—Academic or Career	
Elective—Academic or Career	
Elective	
Elective	



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