Advanced Academics

Course Offerings

#wearewarriorstrong

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Early Post Secondary Opportunity (EPSO)

An Early Post Secondary Opportunity (or EPSO) is a high school course or program that allows a student to gain college credit or industry certification. In order for an EPSO to count, a student must take the applicable exam. Types of EPSOs include:

- Advanced Placement (AP)
- Dual Enrollment (DE)
- International Baccalaureate (IB)
- Career and Technical training
- Statewide Dual Credit

Learn more at **scsk12.org/epso**.

Tennessee Graduation Requirements (Course Requirements) **Total of 22 Credits for Graduation**	
English	**4 credits** (English I, II, III & IV)
Math	**4 credits** (Algebra I, Algebra II, Geometry & a Math course beyond Algebra I) * Students must be enrolled in a Math course each year of high school
Science	**3 credits** (Biology, Chemistry or Physics & a lab Science course)
Social Studies	**3 credits** (World History/Geography, U.S History/Geography, U.S. Government/Civics & Economics
Physical Education & Wellness	**1.5 credits** (Lifetime Wellness & PE elective)
Personal Finance	**0.5 credits**
Foreign Language	**2 credits** (Same foreign language: schools may waive the requirement to allow additional credits for an elective focus)
Fine Arts	**1 credit** (Schools may waive the requirement to allow additional credits for an elective focus)
Elective Focus	**3 credits** consisting of Math/Science, Career & Technical Education, Fine Arts, Humanities, Advanced Placement (AP)/International Baccalaureate (IB), Dual Enrollment, ROTC, Physical Education, College Readiness, Career Readiness and Liberal Arts/general studies.

Advanced Placement Courses

Courses Descriptions

AP Art History

Instructor: Jessen Jacobsen **Email:** jacobsenj@scsk12.org

To study art history is to study the human imagination. Art History combines the knowledge of many fields into one class and may inspire you own creativity and passion. You will learn to appreciate diverse art forms, from the masterpieces to local treasures. Learn to interpret our own culture, as well as others. Art History will teach you to analyze, think critically, and write about art and culture.

AP Biology

Instructor: David Miller **Email:** millerd6@scsk12.org

Biology is a broad and diverse field of study that encompasses several other life-sciences such as Biochemistry, Genetics, Ecology, Botany, Cell Biology, and Biotechnology, just to name a few.

This course is designed to be a college level course culminating with students taking the College Board AP Biology exam. Because a passing score is considered to be the equivalent of 1 year of college level introductory biology, the class requires two class periods of your daily schedule. As such, this is a rigorous course in which the content includes cell structure and function, cell communication, gene regulation, and heredity, with an emphasis placed on the specific biochemical processes associated with each of these topics. The course also contains units on natural selection and ecology. In addition to developing a working knowledge of these topics, the course also encourages students to apply biological knowledge and critical thinking to environmental, ethical, and social concerns. The course incorporates a laboratory component, which complements the other coursework, and will utilize approximately 25% of class time.

Prerequisite: Chemistry is a prerequisite for this course, and it is suggested that one of your recommendations be from your chemistry teacher.

AP Calculus AB

Instructor: Fatemeh Banan **Email:** bananf@scsk12.org

The AP® Calculus AB Course is designed for college bound students who have previously completed 4 years of secondary mathematics. The knowledge and skills gained from these courses will be refined as the students are coached in how to represent, describe, and manipulate functions graphically, numerically, analytically, and verbally and how these methods are related. Through the introduction of Limits a new pathway for working with functions is unveiled. Thus, opens the door to the two main branches of Calculus: Differentiation and Integration.

The goal is to develop a degree of mastery of the topics outlined in the AP® Calculus Course Description associated with Functions, Graphs, and Limits; Derivatives; and Integrals. The course is designed with activities that foster skills in communicating mathematics both verbal and written. The graphing calculator along with the and a smartboard will be used to conduct experiments in which students will be required to solve problems, collect data, interpret results, and support conclusions. An integral part of developing these communicating skills is requiring students to explain their homework solutions to the class verbally and in written form. This will greatly aid in developing techniques that can be easily understood by readers of the free response sections of the AP® Calculus AB Exam.

AP Calculus BC

Instructor: Christie Printup **Email:** printupc@scsk12.org

In this course you will learn more than mathematics. You will discover real life applications, become proficient on a graphing calculator, and develop excellent critical thinking skills. AP Calculus BC is a college level course, so you will learn college level Calculus I and II! We will cover a new topic almost every day. The best service I can give you is to require discipline, dedication, and hard work. To learn how to solve a problem on your own is a necessary and priceless tool. You will be solving problems graphically, numerically, and analytically. This class is taught with a heavy emphasis on student response and discussion. I will provide you with many opportunities to work in groups during which you will collaborate on in-class assignments and present your findings to the class. I will also provide you with worksheets containing AP Calculus questions from previous years. Our homework and class time will help prepare you for 3-4 major tests per term; they will also prepare you for the AP Calculus BC Exam!

Pre-requisite for BC: Students must have completed or currently be taking Pre-Calculus. They must also have a recommendation from their Algebra II, as well as Pre-Calculus teacher. If the student had Ms. Printup for Pre-Calculus the student will not need a recommendation form.

AP Chemistry

Instructor: Israel Cordero **Email:** corderodejesusie@scsk12.org

The AP Chemistry course provides students with college-level coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, including a large lab component to the course. This course relies heavily on the application of Algebra II skills to manipulate data and support investigations and concepts.

AP Computer Science

Instructor: Christine Patton **Email:** pattonck@scsk12.org

Designed for 9 - 12 grade students, Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. Students who take AP Computer Science Principles are 12% more likely to enroll in college compared to similarly situated peers, and students who take AP exams are more likely to graduate 4-year college, regardless of their score on the exam. AP computer science students also earn better AP Calculus scores than comparable students who do not take AP computer science.

Prerequisites: The teacher recommendations forms are required from the student's Math and CTE teachers. Students are required to have completed Algebra 1 with a 75% or higher.

AP English Language and Composition

Instructor: Rosalind Guy **Email:** guyr@scsk12.org

AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style. In this course, students will read a variety of nonfiction and sometimes fiction texts to develop their critical analysis skills and communication. We also read several outside reading texts such as memoirs, historical texts, and other nonfiction books.

Here are what current students are saying about the class:
"If you're going to take this class you need to be prepared to start becoming more familiar with what's going on in the world around you and to further develop critical thinking skills. Lots of discussions and a good amount of writing."

"I would say to anyone considering taking AP Language and Composition, to do it; invest in yourself, because you will definitely have a teacher who invests in you. Be prepared for internal and external growth in all the best ways, to be open minded, and prepared to achieve greatness. To conclude, the workload may be great, but the knowledge and significant improvements to your school and home life are greater. So take the class!"

"My message to your future students would be an upfront advisory for having an open mind. You have to be prepared to look further than you usually do and understand that we can be open with each other about what's going on in our lives and the world around us. AP Lang is going to be a little challenging, but it is rewarding and the only class with a good book selection."

"To anyone who may be considering taking AP Language, I would have to say that it is a beautiful experience that pushes you into a seat of growth. You will have to be prepared to educate yourself, hear views different than yours, and to think in ways you never thought were possible. The class challenges many things we've been taught prior about language and writing but I personally have seen my writing change and develop as I've learned through the eyes of my peers in the class and Ms. Guy. The work can be intense and even overwhelming but if you manage your time and communicate with Ms. Guy, you'll be okay."

"If you've never had anyone who's not only good at pointing out your strengths but also good at recognizing your weaknesses or your mistakes then be prepared for Mrs. Guy because she is one of those people.
If you're looking to challenge yourself, this class, this teacher is the one to be with. Not to mention all the amazing things you'll learn in the process of improving your language and composition."

AP English Literature and Composition

Instructor: Rosalind Guy **Email:** guyr@scsk12.org

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Students will read a minimum of 5 major works (full length novels or plays) as well as many short stories and poems from various time periods of English Literature. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

AP European History

Instructor: Amy Working **Email:** workingal@scsk12.org

In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making

historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.

Prerequisites: Recommendation from current English teacher required. It is recommended, but not required, that students compete US History before taking AP European History.

AP Human Geography

Instructor: Zina Johnson **Email:** johnsonze@scsk12.org

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alliteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its consequences. They also learn about the methods and tools geographers use in their research and applications. The curriculum reflects the National Geography Standards. AP Human Geography course is equivalent to an introductory college-level course in human geography.

Prerequisites: There are no prerequisites for AP Human Geography. Students should be able to read college-level texts and write grammatically correct, complete sentences.

AP Music Theory

Instructor: Dr. Ollie Liddell **Email:** liddello@scsk12.org

AP Music Theory is an introductory college-level music theory course. Students cultivate their understanding of music theory through analyzing performed and notated music as they explore concepts like pitch, rhythm, form, and musical design. It is essentially 3 semesters of college Music Theory rolled into one course.

Prerequisites: 3 years of HS Band, Choir, or Orchestra. Not mandatory but preferred Pre-AP Music Theory or Honors Theory and Harmony

AP Psychology

Instructor: Christine Lee **Email:** leec@scsk12.org

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas. The AP Psychology course is designed to be the equivalent of the Introduction to Psychology course usually taken during the first college year.

There are no prerequisites for AP Psychology, although taking Honors Psychology can be beneficial before the year-long commitment to an AP class. Students should be able to read a college-level textbook and

write grammatically correct, complete sentences. Students are expected to engage in the coursework, participate fully in all activities, and complete assignments with the dedication to learn to content enthusiastically.

AP Seminar (11th Grade) / AP Research (12th Grade)

Instructors: AP Seminar: Sandra Boyer **Email:** boyersk@scsk12.org
AP Research: Christine Lee **Email:** leec@scsk12.org

AP Capstone™ is a diploma program based on two yearlong AP courses: AP Seminar and AP Research. These courses are designed to complement other AP courses that the AP Capstone student may take. Instead of teaching specific subject knowledge, AP Seminar and AP Research use an interdisciplinary approach to develop the critical thinking, research, collaboration, time management, and presentation skills students need for college-level work.

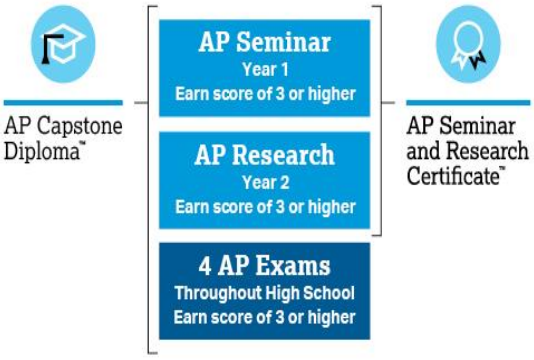
The College Board developed the AP Capstone Diploma program at the request of higher education professionals, who saw a need for a systematic way for high school students to begin mastering these skills before college.

1ST YEAR:--AP SEMINAR - 11TH GRADE

- **Students must achieve a passing grade in seminar in order to take research by completing**:
  - Group research paper and group presentation
  - Individual research paper and presentation
  - EOC test in May (essay)

2ND YEAR—AP RESEARCH- 12TH GRADE

- Academic paper and presentation/oral defense



Prerequisites: Students should take Pre AP English (9/10th grade) and AP English (11/12th) prepare for these classes. Students must be individually driven, but also able to complete group assignments. Must be prepared for the workload.

AP Studio Art Drawing and AP-2D Design

Instructor: Andrew Dycus **Email:** dycusja@scsk12.org

The AP Art and Design program consists of three different courses and AP Portfolio Exams—AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing—corresponding to college and university foundations courses. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions.

All three AP Art and Design Portfolio Exams contain two sections. The Selected Works section requires students to demonstrate skillful synthesis of materials, processes, and ideas. The Sustained Investigation section requires students to conduct a sustained investigation based on questions, through practice, experimentation, and revision. Both sections of the portfolios require students to articulate information about their work. Both sections are required. Students earn a score for each section, and sections scores are combined to produce an overall portfolio score that may offer opportunities for college credit and/or advanced placement. The order in which the sections are presented is not intended to suggest a curricular sequence. The works presented for portfolio assessment may be produced in art classes or on the student's own time and may cover a period of time longer than a single school year.

The AP 2-D Design class presents the serious art student an opportunity to develop a 2-D Design portfolio equivalent to that of a first-year college student. Building on students' existing technical, conceptual, perceptual, and expressive skills, this course will enable students to develop mastery in concept, composition, and execution of their ideas.

Students will be expected to think critically about their own artwork, as well as the work of others. Making art is an ongoing process that involves informed and critical decision making. Students will be asked to develop their ideas through the use of a sketchbook, through research of other artists and ideas, experimenting with techniques and processes, reflecting on the outcomes of their choices in their artworks, and discussing their ideas with the teacher and other students. Sketchbook work, written and oral reflections, and class critiques will help inform students' artistic process. Students will be expected to communicate their ideas about artworks through written statements, oral critiques, and class discussions.

Pre-requisites: The student should have completed Art 1 or Pre-AP Visual Arts. One recommendation form from a current art teacher. Also, the student will need to submit their portfolio to Mr. Dycus for a portfolio review.

AP World History

Instructor: Virginia Pippen **Email:** pippenv@scsk12.org

AP World History is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the

environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

Pre-Requisites: A 9th Grade History teacher Recommendation form is required.

AP United States Government and Politics

Instructor: Elizabeth Johnston **Email:** johnsotonej@scsk12.org

Are you interested in learning about why people vote the way they do? How each branch works separately and together to govern our nation? How politics works? The influence of the media on politics? Want a career in politics or government? Then this is the course for you!

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. The exam is 3 hours long and includes 55 multiple-choice questions and 4 free-response questions. AP U.S. Government and Politics is taken by students during the Senior Year. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.

Prerequisite: An ELA teacher recommendation form is required.

AP U.S. History

Instructor: Amy Working **Email:** workingal@scsk12.org

In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. There are no prerequisites for AP U.S. History. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.

Pre-requisite: One recommendation from current English teacher required.

Dual Credit & Enrollment Courses

General Information

Eligible students in grades 9-12 (except where otherwise provided by federal or state law and/or rules, regulations, or guidance (e.g., IEP, etc.) have the opportunity to enroll in college-level courses and earn both college credits and credits toward their high school diplomas through dual enrollment. Students must meet individual college admission requirements. Admission requirements vary per college per course. A dual enrollment course is a course taught for postsecondary credit that is also recognized by a local education agency for high school credit and is taught by postsecondary faculty (e.g., a bona fide college professor or a licensed SACS approved adjunct secondary teacher), in accordance with an agreement between the participating institution of higher learning and Shelby County Schools. The institution of higher education must be accredited by the state or by a state-approved accrediting agency.

Dual enrollment courses may be taught at a postsecondary institution, at a high school, or virtually. Dual enrollment courses that are successfully passed and are recognized for high school credit shall receive four (4) additional percentage points to all grades used to calculate the semester average. Additionally, in accordance with state law, one (1) quality point shall be added to the numerical quality point value corresponding to the letter grade received in the course for a dual enrollment course (applicable beginning with the SY 2016 – 2017 ninth grade class). Courses eligible for Dual Enrollment are 100-200 or 1000-2000 level college courses. Course offerings are determined by the postsecondary institutions.

Post-Secondary Partners

ACAD 1100 Academic Success Seminar

3 Credit Hour(s)

(Effective Fall 2011) This course provides an orientation to the college environment, acquaints students with study skills, prepares them to integrate traditional study skills with college content areas and emphasizes the academic skills necessary for success in a college setting. This is a three-credit course limited to degree-seeking students who have accumulated fewer than 25 semester hours.

BUSN 1305 Introduction to Business

3 Credit Hour(s)

This course provides an introduction to the business environment. Topics may include business ownership and organization, management, business ethics, accounting, economics, finance, and business careers.

CRMJ 1010 Introduction to Criminal Justice

3 Credit Hour(s)

this course objective is for a student to examine policing, corrections, and the American court system, amongst other topics. The student gains an understanding of the complexity of the criminal justice processes, its lack of central coordination and most significantly, how justice is administered in the American society.

PSYC 1030 Introduction to Psychology

3 Credit Hour(s)

This course provides an overall introduction to psychology, including a brief history of psychology, research strategies, biological bases of behavior, learning, memory, intelligence, motivation, emotion, personality, psychological disorders, techniques of therapy and applied science.

Prerequisite(s): READ 0810 or equivalent and ENGL 0810 or equivalent.

ENGL 1010 English Composition I

3 Credit Hour(s)

Through writing compositions and reading critically, students are taught to organize and develop ideas using various rhetorical modes and editing techniques. The course focuses chiefly on improving the clarity and effectiveness of writing and includes an introduction to the research process.

Prerequisite(s): READ 0810 and ENGL 0810, or the equivalent; or enrollment in the o-requisite ENGL 0810 and READ 0810; or satisfactory performance on the ACT or Compass test.

ENGL 1020 English Composition II

3 Credit Hour(s)

A continuation of English Composition I, this course emphasizes synthesis and analysis based on critical reading. The course provides in-depth instruction in research and documentation skills.

Prerequisite(s): ENGL 1010

MATH 1530 Introductory Statistics

3 Credit Hour(s)

This course is a study of basic statistical concepts including data organization and analysis, frequency distribution, measures of central tendency and dispersion. Other topics in this course include: probability theory and distributions, sampling methods, estimation, regression and correlation analysis, and hypothesis testing. Students with math deficiencies must register for an enhanced section of MATH 1530 and the support course MATH 0530.

Prerequisite(s): Math ACT score of 19 or above OR equivalent.

MATH 1710 - College Algebra

3.000 Credit hours

3.000 Lecture hours

Analysis of functions (linear, quadratic, polynomial, root, rational, exponential, logarithmic) using graphing calculators; partial fractions; conic sections; theory of equations; inequalities; applications.

NOTE: only one of MATH 1710 or MATH 1730 may be used to satisfy degree requirements.

PREREQUISITE: An ACT MATH sub-score of at least 20. Special Combo sections of MATH 1710 require an ACT MATH sub-score of at least 18. MATH 1420 or 1420 Combo may serve as a prerequisite for MATH 1710 Combo.

MATH 1530 - Prob/Statistics/Non Calculus

3.000 Credit hours

3.000 Lecture hours

Underlying ideas of statistical and quantitative thinking; randomization in sample survey methods and design of experiments; double blind experiments and observational studies; descriptive and summary statistics; measurement errors; probability models; normal approximation; tests of significance and p-values, basic concepts of correlation and regression analyses; MINITAB.

NOTE: Math majors may not use this course as part of the major.

PREREQUISITE: MATH 1710 with a minimum grade of C- or an ACT MATH sub-score of at least 15.

MATH 1420 - Foundations of Mathematics

3.000 Credit hours

3.000 Lecture hours

Basic logic: propositions and truth values, recognizing fallacies, sets and Venn Diagrams, analyzing argumen ts; approaches to problem solving; managing finances: compound interest, savings plans and investments, lo an payments, credit cards and mortgages; fundamentals of statistical reasoning.

PREREQUISITE: MATH 1710 with a minimum grade of C- or an ACT MATH sub score of at least 17. Special sections of MATH 1420 Combo require an ACT MATH sub score of at least 15.

MATH 1830 - Elementary Calculus

3.000 Credit hours

3.000 Lecture hours

Introduction to the concepts and methods of elementary calculus of one real variable as related to rational, exponential, and logarithmic functions; limits; differentiation and its applications to optimization in business and economics; growth and decay models; integration and its economic applications, including consumer and producer surplus.

NOTE: only one of MATH 1830 or MATH 1910 may be used to satisfy degree requirements.

PREREQUISITE: MATH 1710 or MATH 1730 with a minimum grade of C- or an ACT MATH sub score of at least 24.

POLS 1030 - American Government

3.000 Credit hours

3.000 Lecture hours

Development, structure, and processes of American system of government, including framing principles of U.S. Constitution and Bill of Rights; structure and roles of President, Congress, and Supreme Court, and citizen participation in governing.

ENGL 1010 - English Composition

3.000 Credit hours

3.000 Lecture hours

Practice in expository writing with emphasis on content, organization, and style (levels of usage and sentence structure) for different purposes and audiences.

PREREQUISITE: DSPW 0800 with a minimum grade of "C-," or ACT English sub-score of 18 or above, or SAT verbal score of 450 or above, or satisfactory completion of placement essay.

ENGL 1020 - English Comp/Analysis

3.000 Credit hours

3.000 Lecture hours

Practice in expository writing that synthesizes ideas from various readings. Includes library work and production of documented papers.

PREREQUISITE: ENGL 1010 with a minimum grade of "C-," or equivalent.

HIST 2010 - U S to 1877
3.000 Credit hours
3.000 Lecture hours
United States from discovery to end of political reconstruction

HIST 2020 - The U S Since 1877
3.000 Credit hours
3.000 Lecture hours
United States from 1877 to present.

NUTR 2202 – Nutrition
3.000 Credit hours
3.000 Lecture hours
Introductory study of nutrients; nutrient requirements throughout the life span; applied dietary analysis.

FIR 1220 - Personal Financial Management
3.000 Credit hours
3.000 Lecture hours
Non-technical course covering areas of personal budgeting, borrowing and credit, insurance, home ownership, investment, taxes, entrepreneurship, and family financial planning.

ESMS 2004 - Intro to Exercise Science
3.000 Credit hours
3.000 Lecture hours
Introduction to education and professional practice; history of ESMS, technology, employment opportunities, certifications and professional organizations.

BIOL 2010 - Anatomy/Physiology I
3.000 OR 4.000 Credit hours
3.000 OR 4.000 Lecture hours
Detailed study of structure and functions of human organism; credit not acceptable for Biology major or minor. Three lecture hours per week.

BIOL 2020 - Anatomy/Physiology II
3.000 OR 4.000 Credit hours
3.000 OR 4.000 Lecture hours
Continuation of BIOL 2010; credit not acceptable for Biology major or minor. Three lecture hours per week.

Baptist Health Science University courses are taught by Baptist University faculty members. It is an opportunity for students to earn college credits while meeting the requirements for high school graduation. Students will get a firsthand look at the college workload; students will have more college experience than many other entering freshmen. Students will save hundreds of dollars in tuition costs for classes that you would have to pay for later at full price.

AHS202 Medical Terminology
2 Credit Hour(s)
This course will focus on the applications of the rules for constructing and defining medical terms with an emphasis on prefixes, suffixes, root words, and combining forms. (Open to all disciplines)

BIO 110 General Biology I
4 Credit Hours
This is an introduction to general biological principles. Topics will include evolution, cell chemistry, cell structure and function, metabolism, cellular reproduction, and genetics. Three hours lecture, two hours lab per week.

BIO 120 General Biology II
4 Credit Hours
A Study of biodiversity, plant and animal systems and ecology. Three hours lecture, two hours lab per week.

Prerequisite: BIO 110**ART 213 History of the Visual Arts I**
3 hours
An introduction to the aesthetic principles of the visual arts as exemplified in selected masterpieces from the ancient world to the 15th century.

ENG 101 Expository Writing
3 hours
Threshold course in writing. Pre-writing, writing, and revising paragraphs, essays, and documented papers. Reading, discussing, and analyzing rhetorical models. A grade of C or better is required before proceeding to ENG 111.

Prerequisites: A grade of C or better in ENG 010 or a minimum ACT sub score of 18 in English or permission of the instructor.

ENG 111 Writing about Literature

3 hours

Reading, analyzing, and writing about a variety of literary genres including poetry, drama, the short story, and the novel. Research paper required.

Prerequisite: ENG 101 with a grade of C or better or exemption.

ENG 1011 Composition I

3 hours

The course introduces students to the fundamentals of written discourse. It focuses on developing writing skills emphasizing organization, usage, grammar, gathering of information, and expository essays. Students cannot receive credit for both ENG 103 and ENG 1011. A grade of "C" or better is required.

ENG 1021 Composition II

3 hours

This course is a continuation of ENG 1011. An introduction to more advanced techniques of composition through the study of literature. The analysis of literature serves as topics for discussion, study, and writing. Students cannot receive credit for both ENG 113 and ENG 1021.

HIS 211 History of the United States I

3 hours

Survey of United States history to 1877; colonial origins, colonial development, independence and revolution, evolution of American democracy,
seeds of disunion, sectional controversy, Civil War and Reconstruction.

HIS 212 History of the United States II

3 hours

Survey of United States history since 1877; industrialization, emergence of the United States as a world power, the quest for social and economic justice, economic growth and problems, the dilemma of leadership.

PSY 111-Introduction to Psychology

3 hours

This course explores the study of human behavior and its basic concepts, theories, research methods, and contributions to the understanding of human behavior. Topics include the nervous system, perception, motivation, learning and memory, social behavior, personality, and developmental psychology.

REL 111 Understanding the Old Testament

3 hours

Content and interpretation of selected portions of the Old Testament.

REL 112 Understanding the New Testament

3 hours

Content and interpretation of selected portions of the New Testament.

SAT 110 Public Speaking and Communication

3 hours

Development of communication methods and survey of basic communication models. Emphasis on public speech preparation and presentation. Demographic identification, visual aids, research methods, composition strategies.

SOC 111-Principles of Sociology

3 hours

This course provides a broad overview of sociology and how it applies to everyday life. In addition, it seeks to explore major theoretical perspectives and concepts. Topics: sociological imagination, culture, deviance, inequality, social change, and social structure.

The associate degree is available to any student in the day programs of

Air Conditioning, Refrigeration& Heating

Air Conditioning/Refrigeration & Heating is available as a day, two-year, Diploma or Associate of Applied Technology Degree or a night, two-year Certificate program. Students complete courses in Electricity for HVAC, Basic Domestic Heating, Commercial Heating, Introduction to Air Conditioning and Refrigeration, Commercial Refrigeration and Air Conditioning. Day students are also required to take six technical electives.

The Air Condition, Refrigeration, and heating program provides students with the principles of air conditioning, refrigeration and heating mechanisms, their operation, maintenance, service and repair. Moore Tech combines classroom study with hands- on experience with modern equipment in the heating, refrigeration & air conditioning labs. After completing the program our students are well trained and employable as service technician.

Industrial Electricity/Plant Maintenance

Industrial Electricity & Plant Maintenance is available as a day, two-year Diploma or Associate of Applied Technology Degree program or a night, two-year Certificate program. Students complete courses in Intro to PLC's, Industrial Fluid Power, Electric Motor Control and additional courses in commercial wiring and National Electric Code. Day students also are required to take six technical electives.

Industrial Electricity and Plant Maintenance is designed for individuals who want to pursue the field of electricity in an industrial workplace. Power sources utilized vary from industry to industry, our program is designed to give students exposure to as many possible. Students obtain hands on experience in areas such as electrical wiring, residential and national electric code, industrial electronics, industrial fluid power, electric motor control and Programable Logic Controller.

Machine Shop

Machine Shop (Machining) is available as a day, two-year Diploma or Associate of Applied Technology Degree program or a night, two-year Certificate program. Students spend a year on manual machines and an additional year on CNC (computer numerical control) machines. They will complete courses in Basic Machining Technology, Machining Metals, CNC Lathe & Milling, Precision Medical Machining and Machine Shop Practice. Day students are also required to take six technical electives.

Moore Tech Machining Technology Program curriculum is designed to meet the needs of Memphis' large and growing Medical Device Manufacturing industry. This program is taught in the most complete educational machine shop in the south with the most modern CNC machines. Courses provide the technical knowledge and fundamental experience necessary to perform machine shop work. Students learn to read and use blueprints, as well as hand tools and heavy machinery required to produce quality parts.

Once students understand how proficiently use manual Lathes and Mills, students next learn to operate CNC Lathes and CNC Mills machines using our state-of-the-art computerized CNC machines. Our Precision Medical Machining course familiarizes students with the skills, documentation and requirements needed by the large local medical device manufacturing industry.

Moore Tech training provides students with hands on experience in a working machine shop. With the growing Medical Device Manufacturing Industry in Memphis as well as the other manufacturing, construction and service industries that require skilled machinist our program provides a student with the hands-on ability and confidence needed for successful employment in these industries.

Welding Advanced

Welding is available as a day, one-year Diploma program, a day, two-year Diploma program, a day, two-year Associate of Applied Technology Degree, a night, one-year Certificate program or a night, two-year Certificate program. The two-year program options are called Welding – Advanced. One-year welding students take introductory, intermediate and advanced welding. Two-year students will also be trained in Advanced Pipe Welding, CNC Plasma Cutting and Robotic Welding. Day students are also required to take six technical electives.

Moore Tech's Welding Program is taught in one of the most extensive and complete welding labs in the south. It includes instruction in electric arc welding, plasma arc cutting, oxyacetylene cutting, oxyacetylene welding, (both ferrous, and nonferrous metals,) TIG (Tungsten Inert Gas) & MIG (Metal Inert Gas). The student is taught to identify and use various types of welding equipment, including the characteristics and techniques used in fabricating and assembling metal parts.

This program is designed for individuals who want to become professional welders. Students are provided with the knowledge, hands-on training and confidence needed for successful employment within industry.

All Welding classes are held in Welding Building at 475 N. Bellevue Blvd, 38105 (1/5 mile from Main Campus)

Property Maintenance Advanced

This program is available as a day, one-year Diploma program, a day, two-year Diploma program, a day two-year Associate of Applied Technology Degree, a night, one-year Certificate program or a night, two-year Certificate program. The two-year program options are called Property Maintenance – Advanced. One-year students' complete courses in Electricity, Carpentry and Plumbing. Two-year students also take Advanced Carpentry, Basic Domestic Heating and Introduction to Air Conditioning and Refrigeration. For students who have already completed HVAC courses, Welding and Advanced Electricity may be substituted for HVAC courses. Day students are also required to take six technical electives.

Moore Tech's Property Maintenance course provides a student with the technical knowledge and ability to perform repairs and maintenance on both commercial and residential buildings.

Maintenance Technology students will be taught repair skills in electricity, plumbing and carpentry that will provide each student with a well-rounded background in general repair and maintenance. The course includes classroom instruction and extensive hands-on experience.

Introduction to maintenance involving carpentry, piping, and plumbing is included.

- Safety in use of hand and power tools
- Measuring, layout and cutting techniques
- Drywall repair
- Repair of door locks, door and window installation and repair.
- Pipe cutting and threading and use of PVC pipe.
- Repairing leaky faucets
- Toilet replacement and repair
- Cleaning traps and repairing leaking pipes.

Upon successful completion of the two-year trade program and the 15 hours of general education students will be awarded the associate degree.

General Education Courses:

- Technical Writing: 3 credit hours
- Professional Development: 3 credit hours
- Psychology: 3 credit hours
- Technical Physics: 3 credit hours
- Math for Technicians: 3 credit hours
- Computer Skills: 3 credit hours (Automotive Service Technology)

Total: 15 credit hours (NOTE: One General Education Course will be offered each Trimester.)


CENTRAL
WARRIORS