HERITAGE ACADEMY ONLINE COURSE CATALOG

ACT PREP – ½ CREDIT

Practice, lots of practice, is the key to doing well on the ACT. This ACT Prep course allows the student to prepare for the upcoming ACT exam in an interactive and interesting way. Students are able to review essential content, assess their own knowledge, measure their learning, play interactive drill games, and review flash cards in this online environment. As the student progresses, they will have opportunities to explore learning from a biblical perspective, discuss the content, share study tips, and ask questions of their classmates and teacher in the bi-weekly discussion forums. All of their work, self-assessments, and drill-and-practice work is tracked for them and organized for easy review according to both the level of mastery they have achieved and their own comfort level with the content. In addition to following the prepared study plan, students can access any of the content they have already studied for additional review. Need a study break? A variety of games are available in order to review the content in even more Updated: 07/06/20 15 entertaining ways. This course offers the most current, interactive, and organized opportunity for any student to practice and prepare for the ACT. Prerequisites: Algebra 1

DIGITAL PHOTOGRAPHY – ½ CREDIT

Have you ever wondered how photographers take such great pictures? Have you tried to capture those rare, awe-inspiring moments in life and wondered why your photos didn't measure up that well? In Digital Photography, students get the opportunity to refine their understanding and practice of taking photos. In addition to surveying the history of the trade, students learn the basics of aperture, shutter speed, lighting, and composition. Along the way, they are encouraged to begin thinking about photography in a distinctively Christian way (e.g., using the art form to promote a biblical worldview, pursuing it with moral and vocational excellence in imitation of God). Finally, students will use basic camera functions and techniques of composition to build a portfolio of images, including images of people, landscapes, close-ups, and action photographs.

Prerequisites: None
Recommended Grade Levels: 9th - 12th
Approved by: Univ of California (UC)
Required Purchased Materials: DSLR camera, film or memory card, Photo editing software (Free software and/or simulators can be found online, if needed.)

DIGITAL INFORMATION TECHNOLOGY – 1 CREDIT

Dive into an exciting course that will provide you with the foundational skills needed for exciting careers like game development, military defense, web design, and software engineering! See how changing technology can help you fulfill your role as a keeper of Creation. In this course you will explore Microsoft Office online applications, web design, emerging technologies, operating systems, project management, communication methods, Information Technology careers, and much more while recognizing the value of these to the practice of biblical stewardship. Learn about your strengths and how they relate to different career paths. See how computer technology can help you serve others and as you grow in your ability to manage the amazing resources God has surrounded you with for His glory. This course serves as a prerequisite to many exciting career and technical education programs of study.

Prerequisites: None
Recommended Grade Levels: 9th - 12th
Approved by: Univ of California (UC)
Required Purchased Materials: Students will be required to use Microsoft Office 365 which can be accessed free through a valid, school-issued email address. There are also subscription options if a school email is not available.

FORENSIC SCIENCE 1: SECRETS OF THE DEAD – ½ CREDIT

Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of scientific method to both better understand crimes and catch those responsible for them. Forensics 1 seeks to guide students into an understanding of God's desire for both justice and mercy as they investigate the order and design in creation that enables crime scene investigation (CSI). The course introduces the most important skills and techniques used by forensic scientists during an investigation. Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed in court. Justice must be served!

Prerequisites: None
Approved by: National Collegiate Athletic Association (NCAA®) and Univ of California (UC)

FORENSIC SCIENCE 2: MORE SECRETS OF THE DEAD – ½ CREDIT

Examine the evidence! Although the crime scene represents the first step in solving a crime, the crime laboratory plays a critical role in the analysis of evidence. Forensic Science 2 focuses on the analysis of evidence and testing that takes place within this setting. Students will examine some of the basic scientific principles and knowledge that guide forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined. And along the way, students will continue to discover divine design and order in creation, as well as how evidence can uncover both evil intentions and godly pursuits.

Prerequisites: Forensic Science 1

FOUNDATIONS OF PROGRAMMING – 1 CREDIT

Computer programming is the latest, and some would say the greatest, effort of humanity to reflect and respond to the order programmed into every corner of Creation. In Foundations of Programming , you will have the opportunity to consider the role of Jesus Christ, the Master Programmer, in original Creation as you seek to play your role in a world that requires more and more programs on a regular basis. Do you want to learn the skills required to be competitive in today's high-tech workforce? Foundations of Programming will teach you the fundamentals of programming using the computer language Python. The course provides you with the concepts, techniques, and processes associated with computer programming and software development. You will also explore the many programming career opportunities available in this high-demand field. You were designed to create things. This course will give you just another opportunity to do that.

This course is part of a program of study that provides coherent and rigorous content needed for progression in the Information Technology career cluster. Many opportunities for programming practice are offered. The amount of time a student spends in this course will be directly related to their current programming experience.

Recommended Prerequisites: Digital Information Technology
Recommended Grade Levels: 9th – 12th
Approved by: Univ of California (UC)

GAME DESIGN – ½ CREDIT

Are you a gamer? Do you enjoy playing video games or coding? Does the idea of creating and designing your own virtual world excite you? If so, this is the course for you! With Game Design, students will tap into their creative and technical skills as they learn about the many aspects involved with game design. Students will learn about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting and internet safety techniques, and even the history of gaming. Along the way, they will also explore what the Bible teaches about gaming, examine game ideas for ethics and worldview, assess the morality of video game violence and addiction, and otherwise begin to think of game design and video games from a distinctly Christian perspective. And to top it all off, students will even have the opportunity to create their very own plan for a 2D video game!

Prerequisites: None
Recommended Grade Levels: 9th – 12th
Approved by: Univ of California (UC)

AP COMPUTER SCIENCE A - CREDIT

Computers are everywhere you look. Step into the world of writing the software that makes computers work. The AP® Computer Science A course is equivalent to the first semester of a college level computer science course. The course involves developing the skills to write programs or part of programs to correctly solve specific problems while learning how faith and Computer Science go hand in hand. AP Computer Science A also emphasizes the design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the development of useful computer programs and classes is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition, an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course. Prerequisites: Algebra 1 and 2. Students will be exposed to a college-level course. Recommended Grade Levels: 11th - 12th Approved by: National Collegiate Athletic Association (NCAA®) and Univ of California (UC) Required Purchased and Installed Materials: The price of this course includes custom course materials. Custom course materials will be provided to the student within two weeks (or sooner) of the student's start date in the course. Students must have a PC or Mac to install the custom course material to complete the course. More details can be found in the course information materials section of the course.

MARINE SCIENCE – 1 CREDIT

God created the oceans to promote and sustain life on Earth. Humans have been given the responsibility to explore and care for our planet, but often our activities have a negative impact on its health and sustainability. In the marine science course, students will explore the watery depths of our own planet to see evidence of God's design and understand just how vital the ocean is to our existence. Throughout the course, students will meet marine animals and see how they interact with each other and their environment. They will tour the ever-changing seafloor and view its trenches, volcanoes, and ridges. They will discover the power and design found in the waves, currents, tides, and the other physical interactions between the ocean and the land. Finally, students will study the impacts of chemical processes on our blue planet and how they affect the water, the atmosphere, and even our climate. With a focus on our responsibility to care for God's creation, this course will show students that the ocean connects us all, across distance and even time. Hang on—it's going to be an amazing journey. Prerequisites: None Recommended Grade Levels: 9th - 12th Additional Info: Honors track available Approved by: National Collegiate Athletic Association (NCAA®) and Univ of California (UC)

MOBILE APP PROGRAMMING – ½ CREDIT

Mobile App Programming will teach foundational computer science methodology, concepts, and programming. While students are taught to use the latest mobile development software and technologies, they will consider how mobile computing can be used for good and the expansion of God's kingdom. From the first lesson, students will practice what they are learning to develop and produce functional Android applications that they can share with classmates, family, and friends. Lessons are a mix of dynamic activity, video guidance, lecture, and tutorials. The lessons are designed to engage both the novice and expert student in the field of mobile application development. Prerequisites: None Recommended Grade Levels: 9th - 12th Required course materials: The course requires a student to have access to an Android device running version 2.3 or higher.

AP COMPUTER SCIENCE A – 1 CREDIT

Computers are everywhere you look. Step into the world of writing the software that makes computers work. The AP® Computer Science A course is equivalent to the first semester of a college level computer science course. The course involves developing the skills to write programs or part of programs to correctly solve specific problems while learning how faith and Computer Science go hand in hand. AP Computer Science A also emphasizes the design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the development of useful computer programs and classes is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition, an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course. Prerequisites: Algebra 1 and 2. Students will be exposed to a college-level course. Recommended Grade Levels: 11th - 12th Approved by: National Collegiate Athletic Association (NCAA®) and Univ of California (UC) Required Purchased and Installed Materials: The price of this course includes custom course materials. Custom course materials will be provided to the student within two weeks (or sooner) of the student's start date in the course. Students must have a PC or Mac to install the custom course material to complete the course. More details can be found in the course information materials section of the course.

AP MICROECONOMICS – ½ CREDIT

As the new President of the Sunny Seas Shell Company, you will be wrestling with two problems while learning all you can about microeconomics for the good of your company. First, how do you make money without falling in love with it? Second, how will you use what God has given you to honor Him and bless others? You will be required to exhibit your knowledge in May at the annual Board of Directors' meeting (the AP® Exam). The objectives of this course will be to engage students in a real-world application of the economic concepts they will be tested on when taking the Advanced Placement exam provided by the College Board. In this class students will analyze the basics of supply and demand and then investigate the various models of business organization from a biblical perspective. As students participate in these activities, they will become more knowledgeable about economics, better prepared for the AP exam, and become better consumers in the real world as they use their resources for God's glory and the good of others. Prerequisites: None. Students will be exposed to a college-level learning experience. Recommended Grade Levels: 11th - 12th Approved by: National Collegiate Athletic Association (NCAA®) and Univ of California (UC) Required Purchased Materials: No books are required, however there are some optional extra resource materials located in the course information area.

AP STATISTICS – 1 CREDIT AP®

Statistics will allow students to explore the broad conceptual themes of statistics while recognizing the amazing benefits of the mathematical order of God's creation. Students will explore data as biblical stewards. They will put this knowledge into practice as they plan and conduct a statistical study. They will also practice anticipating patterns and making statistical inferences while learning how this information can help us serve God and others rather than ourselves. This course seeks to prepare students for the AP exam while also introducing students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Prerequisites: Algebra 2 Recommended Grade Levels: 11th - 12th Approved by: National Collegiate Athletic Association (NCAA®) and Univ of California (UC) Required Purchased Materials: This course requires use of a graphing calculator with a USB cord and access to Ti Connect Software (free download).

DUAL CREDIT ACCOUNTING PRINCIPLES I (TAYLOR UNIVERSITY) - ½ HIGH SCHOOL CREDIT, 3 COLLEGE CREDITS

An introduction to the language of business. Financial transactions are analyzed, recorded, summarized, and reported in a meaningful manner to management. Also studied are basic financial statements and the various accounting and internal control procedures for recording and protecting assets.

Upon successful completion of this course, the student will:

- Understand and be able to communicate the "big picture" of financial accounting.
- Analyze economic events from an organizational perspective.
- Record accounting journal entries.
- Understand the accounting process from economic event to communication to the end user(s).
- Gain an understanding of the significance of the matching principle of accounting, and the revenue recognition principle of accounting.
- Create a set of financial statements (excluding statement of cash flows).
- Perform basic accounting functions for service, merchandising and manufacturing organizations.
- Use financial ratios to analyze the current financial realities of organizations.
- Properly account for cash, inventory, accounts receivable, and plant assets.
- Examine the role of one's Christian faith and its impact on the challenges, decisions, and opportunities met in accounting.

DUAL CREDIT CHILD PSYCHOLOGY (TAYLOR UNIVERSITY) – ½ HIGH SCHOOL CREDIT, 3 COLLEGE CREDITS

This course is designed to provide you with a comprehensive survey of the field by introducing you to its major concepts, theoretical perspectives, and empirical findings. Topics include worldviews in psychology, history of psychology, current perspectives in psychology, and models of integration of psychology and Christianity. This course will provide you with a broader understanding of human behavior and how the field of psychology and its study affects our lives. The topics speak to your own experiences and behavior and will apply to real world events and issues. Further, this course is designed for the purpose of laying the groundwork for the study of psychology. It is intended to give you an understanding of the background and philosophical ideas that influence psychology today.

Upon successful completion of this course, the student will be able to:

- Define psychological perspective.
- Discern how the psychological perspectives influence the collection and interpretation of
  psychological data.
- Understand the importance of the history of psychology on the discipline today.
- Understand important psychological concepts.
- Evaluate psychological theories and date in light of biblical revelation.
- Think about various psychological issues that Christians are concerned with.
- Gain an appreciation of the application of psychology to everyday life.
- Become knowledgeable consumers of scientific research in the field of psychology.