

2017-2018 High School *Course Catalog*

Engaging. Nurturing. Transforming.



**EASTERN CHRISTIAN
SCHOOL**

———— Course Catalog ————
TABLE OF CONTENTS

| | |
|--|-----------|
| INTRODUCTION | 2 |
| Mission Statement and Core Values | 2 |
| Graduation Requirements | 3 |
| Grading Scale | 4 |
| Choosing Wisely | 5 |
| Key | 6 |
| PATHWAYS AND COURSE SEQUENCES | 7 |
| ACCELERATED PROGRAMS..... | 8 |
| Humanities Program | 8 |
| STEAM Program | 9 |
| COURSE DESCRIPTIONS..... | 13 |
| Arts - Visual Arts and Music | 13 |
| Biblical Theology | 16 |
| Business & Technology | 17 |
| English | 19 |
| Mathematics | 22 |
| Science | 24 |
| Social Studies | 26 |
| World Languages | 28 |
| OTHER OPPORTUNITIES..... | 29 |
| Educational Support Services, Independent Study Options, Online Learning, SOAR, Study Hall, Internship Opportunities | |



EASTERN CHRISTIAN SCHOOL

Mission Statement

By providing an excellent academic curriculum, offering a variety of extra-curricular activities, and assembling a caring, culturally diverse community, we, with support of parents and local churches, empower students from Christian families to develop their gifts within the context of a Reformed Christian worldview so that they can act as Christ's transforming agents in a global society.

Core Values

In pursuing the character of Christ, we will...

Seek Truth

Serve Others

Embrace Community

Exhibit Compassion

Develop Responsibility

Strive for Excellence

GRADUATE PROFILE

Utilizing Biblically informed inquiry and strong academic knowledge, an Eastern Christian graduate will think critically, exhibit curiosity, and develop the discernment that will enable him/her to confidently and intentionally strive for excellence in every endeavor.

Having studied the message of Jesus Christ and having experienced models of Christian servanthood in community, the Eastern Christian graduate develops a healthy self-image. Recognizing and responding to the will of God, and seeing in humanity the image of God, the graduate embraces diversity, exhibits compassion, offers respect, and is forgiving and open to others.

The purpose of this guide is to provide a comprehensive listing of the required and elective courses offered. Students, with the assistance of parents, teachers, deans, and the College and Career Counselor, should choose a program of courses that adequately prepares them to meet their future goals.

All students are required to complete basic coursework that will prepare them to enter college, technical/vocational schools, or the workforce. Students with strong academic skills, a high interest in schoolwork, a willingness to take on demanding assignments, and who wish to apply to competitive college programs should choose a more challenging academic course load.

GRADUATION REQUIREMENTS

- A. To receive an ECHS diploma, a student must successfully complete a minimum of 137 credits. Full block courses (courses which meet every day) are 5 credits each; half block courses (courses which meet every other day) are 2.5 credits each. Study hall receives no credit.
- B. Required Courses for an Eastern Christian diploma:
- 4 English courses
 - 4 Social Studies courses
 - 3 Mathematics courses
 - 3 Laboratory Science courses
 - 1 World Language course
 - 1 course of Visual Arts OR 2 courses of Music
 - 1 Career & Technical Education course
 - 1 Financial Literacy course
 - 1 Bible course is required each year of attendance
 - 50 Hours of Faith in Action: 40-45 hours out of school, 5-10 hours in school

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

.....

GRADING SCALE

Assignments, quizzes, tests, reports and projects are evaluated according to the following grading scale:

| Grade | Percent | Grade Points |
|-------|------------|--------------|
| A | 96 - 100 | 4.00 |
| A- | 93 - 95 | 3.67 |
| B+ | 91 - 92 | 3.33 |
| B | 87 - 90 | 3.00 |
| B- | 85 - 86 | 2.67 |
| C+ | 83 - 84 | 2.33 |
| C | 79 - 82 | 2.00 |
| C- | 77 - 78 | 1.67 |
| D+ | 75 - 76 | 1.33 |
| D | 72 - 74 | 1.00 |
| D- | 70 - 71 | .67 |
| F | Below 70 | |
| I | Incomplete | |

One of Eastern Christian's core values is "strive for excellence". We want students to have high expectations of themselves and we want teachers to have high expectations of their students. The rigor of our program is communicated in a variety of ways, including our grading scale. Our students are accepted into a wide range of colleges and universities, including highly selective schools. The evidence suggests that our students' applications and transcripts are viewed positively by admissions counselors in a variety of schools.

Every high school has differences in rigor of curriculum, availability of honors courses, teacher qualifications, and grading scale. College admissions counselors are trained professionals who take the specific context of an applicant into consideration when reviewing their application. In order to help admissions personnel understand our specific environment, Eastern Christian's School Profile accompanies each transcript we send. Additionally, every transcript includes our grading scale.

CHOOSING WISELY

As you decide which courses to take, you should plan carefully and wisely. Here is our advice based on past experience:

1. **Think carefully about your gifts, strengths, weaknesses, needs, and your long-term goals.** You are planning for your future. Though being with your friends is desirable, don't let your social wishes interfere with your decision about what kinds of classes you enroll in, for the future to which you believe God is calling you.
2. **Seek the advice of parents, teachers, your Dean, and the College and Career Counselor.**
In the College and Career Office, you can:
 - a. Take career inventories which measure your strengths, weaknesses, personality, and interests. These inventories, in consultation with the College and Career Counselor, can be used to assist you in selecting the career direction that would be most suitable for you.
 - b. Find information about occupations and colleges. This often includes information about prerequisite courses or appropriate training programs to adequately prepare you for your desired career path. For example, nursing schools often require at least 4 courses in science (including biology and chemistry). Engineering schools may require chemistry, physics, and 4 courses in mathematics. Be sure to do your own research and consult with the College and Career Counselor.
3. **The Course Selection Form, used in cooperation with a Dean, will help you track and discover what courses you are required to take and what electives you may choose.** As you browse this catalog, take note of which courses have prerequisites, or are offered only every other year. Consider a sequence of courses for several years in advance, and plan carefully.
4. **Your education should stretch you in new ways so you can find out what gifts God has given you and where He may be leading you to serve Him.** There is room in everyone's schedule to take courses beyond those that we require. We encourage students who are able to take a full course load.
5. **To make course changes, you need permission from your Dean and an approval form signed by your parents.** If a class is dropped within two weeks of the beginning of the semester, there will be no indication of the dropped class on the transcript. However, upon joining the new class you would be required to complete the work missed up to that point. A course dropped after two weeks would be indicated on your transcript as a withdrawal. A course dropped between two to five weeks may only be dropped to add a study hall and the transcript will show the dropped course. After five weeks you may no longer drop a course.
6. **If you fail a required course, you must repeat it during the next semester or the next year, or retake the course in an accredited, ECHS-approved credit recovery program.** Core graduation requirements should be completed before the start of the next academic year. Failures are recorded on the transcript and are reflected in the GPA.

EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018

KEY

ODD YEAR or
EVEN YEAR

ODD YEAR or EVEN YEAR

Most courses are offered each year at ECHS. However, there are several that are only offered every other year. Courses offered on ODD YEARS are available during the 2017-2018 school year. Courses offered during EVEN YEARS are available during the 2018-2019 school year.

HALF CREDIT or
FULL CREDIT

HALF CREDIT or FULL CREDIT

All courses are full block, 5 credit courses, EXCEPT those indicated as HALF CREDIT which are half block, 2.5 credit courses, offered every other day.

PA

PROJECT ACCELERATION

Project Acceleration is a dual enrollment program with Seton Hall University which enables students to begin the challenge of taking college courses while in high school. Classes that have been approved are labeled PA in the course catalog. Students selecting these courses will receive high school credit for the course from Eastern Christian High School and will also have the option to receive college credit from Seton Hall University. Registration for the Seton Hall credits occurs during the first several weeks of the semester and requires a fee to be paid to Seton Hall University. The course expectations and requirements remain the same for all students regardless of whether or not they are seeking credit from Seton Hall University. The credit received from Seton Hall University is transferable to many colleges across the country. In some instances, courses may even fulfill core degree requirements, possibly allowing students to graduate from college sooner.

Any grade earned will be applied to both your Eastern Christian and Seton Hall transcripts, however, a "C" is generally considered to be the lowest passing grade for transfer purposes. Please be advised that when students apply to college, they must request a transcript directly from Seton Hall University in order for their Project Acceleration credits to be received and reviewed by the prospective college. More information is available at the Project Acceleration website. <https://www.shu.edu/project-acceleration/>

Current Project Acceleration Courses and Credit Value

| | |
|------------------------------------|----------------------------------|
| Advanced Biology (3 credits) | Advanced Composition (3 credits) |
| Anatomy and Physiology (4 credits) | Calculus (4 credits) |
| Chemistry Honors (3 credits) | English 3 Honors (3 credits) |
| English 4 Honors (3 credits) | Physics Honors (4 credits) |
| US History 1 Honors (3 credits) | US History 2 Honors (3 credits) |

NHS

NATIONAL HONOR SOCIETY

In order to be eligible for membership in the National Honor Society, students must maintain a minimum cumulative GPA of 3.500. In addition, students must enroll and receive credit in at least 2 honors or advanced level courses in both their junior and senior years. Courses that are considered honors or advanced level are identified in the course catalog as NHS. In addition to the academic standards, students will be evaluated in the areas of service, leadership, and Christian character.

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

Pathways and Course Sequences

| | SUBJECT | REGULAR | ACADEMIC | ACCELERATED | | | |
|-----------|----------------------|----------------------------|---------------|----------------------------|---------------|-------------------------------|-----------|
| 9 | English | English 1 | 5.0 | English 1 CP | 5.0 | Humanities 1 | 5.0 |
| | Science | Earth Science | 5.0 | Earth Science | 5.0 | Earth Science Honors | 5.0 |
| | Math | Integ Algebra & Geometry 1 | 5.0 | Integ Alg Geom 2 or Alg 1 | 5.0 | Geometry Honors | 5.0 |
| | Math | (Resource w/ above math) | 2.5 | Algebra 1 or Geometry | 5.0 | - | - |
| | History | World Cultures CP | 5.0 | World Cultures CP | 5.0 | Humanities 1 | 5.0 |
| | PE/Health | PE/Health | 2.5 | PE/Health | 2.5 | PE/Health | 2.5 |
| | Bible | Bible | 2.5 | Bible | 2.5 | Bible | 2.5 |
| | Other | Career Technical Education | 5.0 | Career Technical Education | 5.0 | Career Technical Education | 5.0 |
| | Elective - 1 | 5.0 | Electives - 1 | 5.0 | Electives - 2 | 10.0 | |
| | Total credits | | 37.5 | | 40 | | 40 |
| 10 | English | English 2 | 5.0 | English 2 CP | 5.0 | Humanities 2 | 5.0 |
| | Science | Biology | 5.0 | Biology | 5.0 | Biology Honors | 5.0 |
| | Math | Integ Algebra & Geometry 2 | 5.0 | Geometry or Algebra 2 | 5.0 | Algebra 2 or Algebra 2 Honors | 5.0 |
| | Math | Algebra 1 | 5.0 | Algebra 2 or Math Analysis | 5.0 | - | - |
| | History | World History CP | 5.0 | World History CP | 5.0 | Humanities 2 | 5.0 |
| | PE/Health | PE/Health | 2.5 | PE/Health | 2.5 | PE/Health | 2.5 |
| | Bible | Bible | 2.5 | Bible | 2.5 | Bible | 2.5 |
| | Other | Electives - 2 | 10.0 | Electives - 2 | 10.0 | Electives - 3 | 15.0 |
| | Total credits | | 35-40 | | 40 | | 40 |
| 11 | English | English 3 | 5.0 | English 3 CP | 5.0 | American Studies 1 | 5.0 |
| | Science | Planet Earth Science | 5.0 | Chemistry | 5.0 | Chemistry Honors | 5.0 |
| | Math | Algebra 1 or Geometry NP | 5.0 | Math Analysis or PreCalc | 5.0 | Math Analysis or PreCalc | 5.0 |
| | History | US History 1 | 5.0 | US History 1 | 5.0 | American Studies 1 | 5.0 |
| | PE/Health | PE/Health | 2.5 | PE/Health | 2.5 | PE/Health | 2.5 |
| | Bible | Bible | 2.5 | Bible | 2.5 | Bible | 2.5 |
| | Other | Electives - 3 | 10/15 | Electives - 3 | 15.0 | Electives - 3 | 15.0 |
| | | Total credits | | 35-40 | | 40 | |
| 12 | English | English 4 | 5.0 | English 4 CP | 5.0 | American Studies 2 | 5.0 |
| | Science | - | - | - | - | Physics Honors | 5.0 |
| | Math | Geometry or Algebra 2 | 5.0 | PreCalc or Calc 1 | 5.0 | PreCalc or Calc 1 or Calc 2 | 5.0 |
| | History | US History 2 | 5.0 | US History 2 | 5.0 | American Studies 2 | 5.0 |
| | PE/Health | PE/Health | 2.5 | PE/Health | 2.5 | PE/Health | 2.5 |
| | Bible | Bible | 2.5 | Bible | 2.5 | Bible | 2.5 |
| | Other | Electives - 4 | 20.0 | Electives - 5 | 25.0 | Electives - 3 | 15.0 |
| | | Total credits | | 35-40 | | 40 | |

ELECTIVES

| | | | | |
|---------------------------------------|-------------------------------|----------------------|--------------------------|---|
| Spanish 1, 2, 3, 4 | Computer Coding | Ceramics | Adv Composition (PA) | Psychology |
| French 1 | Web Design | Advanced Ceramics | Journalism | Anatomy and Physiology |
| Choir | Media Literacy and Production | Sculpture | Yearbook | Advanced Biology |
| Honors Choir | Design Tech 1, 2 | Painting | Advanced Journalism | |
| Band | Statistics | Drawing | Public Speaking | REQUIRED JUNIOR OR SENIOR YEAR |
| Orchestra | Robotics | Printing & Design | Creative Writing | |
| Music Theory | Study Hall | Graphic Design | International Relations | |
| Bible & Worship | Resource Room | Foundational Writing | American Law | |
| Cross Cultural Perspectives & Service | Art 1 | Essay Workshop | Contemporary Amer Issues | Financial Literacy |

Humanities Program

OVERVIEW

For students who are reading at advanced levels and love to write, the English and Social Studies departments offer a four-year, interdisciplinary humanities program. The vision of this program is that students will study the development of worldview perspectives by studying the literature, art and music within the context of the historical events that gave birth to them.

ENTRY REQUIREMENTS

Incoming 9th graders are recommended for the program by their 8th grade Language Arts teacher (if in ECMS), or through a combination of test scores and a writing sample if transferring into ECHS at grade 9. Moving into the program after grade 9 requires a writing sample based on a prompt developed by the English department, as well as an evaluation of the student's ability to read and understand primary sources, determined in an interview with one of the history teachers.

EXPECTATIONS

Students in the Humanities Program will be given intensive training in research and presentation skills. Students will complete and present four major research projects each year of the program. At the end of freshman and senior years, the students will develop and present their own personal worldview project.

SEQUENCE

Each course is team taught by a history teacher and an English teacher. In grades nine and ten the focus is on the development of the western worldview from the ancient civilizations of Mesopotamia into the 20th century. In grades eleven and twelve, the focus is America's worldview story as seen in political, social, literary and artistic development.

CREDIT

Students earn honors credits in both history and English each year they are in the program. In addition, the junior and senior level courses are eligible for college credit through the Project Acceleration program of Seton Hall University. Students can earn six credits in American literature and six in United States history.

STEAM
Science-Technology-Engineering-Art-Mathematics

STEAM is an acronym for Science, Technology, Engineering, Art, and Mathematics. This program will focus on these disciplines because they are deeply intertwined in the real world. The STEAM program will equip our students to be people of Christian vision and influence in a world that is increasingly placing an emphasis on technology and engineering. Additionally, it will provide students with opportunities to develop the skills that are needed to contribute cooperatively and responsibly as followers of Jesus Christ in our tech-savvy society.

The principal goal of the STEAM Program is to guide each student either in designing an innovative solution to a current problem, or in conducting independent scientific research that leads to a new discovery. STEAM students will develop and complete their projects over their four years in the program.

The STEAM program is open to incoming 9th graders. Interested students must apply for a place in the program. Students whose applications demonstrate extraordinary aptitude in math and science, based on test scores, science and math grades, and teacher recommendations will be considered. Additionally, students must receive a placement in Earth Science Honors and Geometry Honors in their 9th grade year.

STEAM PROGRAM COMPONENTS

ANNUAL

- Coursework (see STEAM Course Pathways and Suggested Course Sequence chart)
- Co-curricular Work (technical/engineering seminars or a national competition)

CUMULATIVE

- A science research project or a technology design project culminating in a written thesis with a possible working prototype
- A portfolio showcasing the results of the students' four years of work

Students will receive 5 credits for each STEAM course in addition to the courses listed in the STEAM Course Pathways and Suggested Course Sequences chart.

STEAM COURSE DESCRIPTIONS

9th Grade

PRINCIPLES OF RESEARCH (SEMESTER 1)

Principles of Research (2.5 credits) will prepare STEAM students to develop and complete their individual STEAM projects. Through hands-on, small-scale projects, students will learn how to set up and conduct their own scientific research. They will learn how to construct a hypothesis and design and test variables. Additionally, students will learn all the steps of the design process and apply these steps to other projects. Other aspects of the class include presentation techniques, creating posters and slideshows for presentations, reading research literature, and writing a project proposal. Visiting scientists and selected TED talks will introduce students to the various fields of science.

9th Grade (cont.)

PROJECT DEVELOPMENT (SEMESTER 2)

In Project Development (2.5 credits) students will begin to develop their STEAM Research Project. The students will generate project ideas, develop a research design, decide whether they want to do research or come up with a new design project, perform preliminary literature research using scientific databases and write their proposal. A mentor will be identified with and for each student, and the mentor will increasingly take responsibility for monitoring the student's progress. By the last week of May each student must submit a written proposal (3-5 pages) for their project. The proposal will be approved if it contains enough background research to prove that the students' plan is feasible and will lead to a successful outcome. At the same time students will continue to work on small-scale projects to strengthen their research and design skills and become more and more exposed to the various fields of science.

10th Grade

PROJECT DESIGN AND RESEARCH 1

Students work both independently and under the direct supervision of their mentors as they continue to develop their science research or technology design projects. Students shall provide their mentors with weekly and quarterly reports documenting their efforts. Each student must log into their journal a minimum of three and one half hours each week. Each student shall submit an eight to ten page end-of-year report of preliminary research and findings to their mentor by the last week of May.

11th Grade

PROJECT DESIGN AND RESEARCH 2 - NHS

Students work both independently and under the direct supervision of their mentors and possibly outside experts as they continue to develop their science research or technology design projects. Students are encouraged to work with affiliated colleges and/or universities. Students shall provide their mentors with weekly and quarterly reports documenting their efforts. Each student must log into their journal a minimum of three and one half hours each week. A poster displaying their research findings is due the last week of May along with an updated end-of-year report.

continued on page 11

12th Grade

DISSERTATION AND DEFENSE - NHS

In the final year, each student will work with his or her mentor to produce a twenty to thirty page thesis summarizing the work of the previous two-to-three years. Students shall document a minimum of three and one half hours each week. Thesis drafts will be submitted to each mentor by the third week in December. Students will work together with mentors to refine drafts and produce completed documents by the end of February. Students will present their work before a panel of STEAM mentors and outside experts during the months of March and April. Completed projects will be presented to the community during the month of May.

PATHWAYS:

The following STEAM Pathways represent each of the four major areas of science and technology.

- Physical Science includes careers in chemistry and engineering.
- Biological Science includes careers in biology and medicine.
- Computer Science includes careers in computer systems, computer programming, information technology, electrical engineering, and microelectronics.
- Earth and Environmental science includes careers in geoscience, meteorology, and agriculture, environmental science and ecology.

The Pathways are designed to help a student narrow his or her focus while in the STEAM Program. STEAM Pathways can be tailored to fit a student's individual interests. The deans will assist students to schedule appropriate course sequences.

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

.....

STEAM Pathways and Suggested Course Sequences

| PHYSICAL SCIENCE | BIOLOGICAL SCIENCE | COMPUTER SCIENCE | EARTH AND ENVIRONMENTAL SCIENCE |
|---|--|--|--|
| Math | Math | Math | Math |
| Geometry Honors Algebra 2 Honors Pre-calculus Calculus Statistics Calculus 2 | Geometry Honors Algebra 2 Honors Pre-calculus Calculus Statistics | Geometry Honors Algebra 2 Honors Pre-calculus Calculus Statistics | Geometry Honors Algebra 2 Honors Pre-calculus Calculus Statistics |
| Science | Science | Science | Science |
| Earth Science Honors Biology Honors Chemistry Honors Physics Honors | Earth Science Honors Biology Honors Chemistry Honors Physics Honors Advanced Biology Anatomy and Physiology Medical Terminology (online) | Earth Science Honors Biology Honors Chemistry Honors Physics Honors | Earth Science Honors Biology Honors Chemistry Honors Physics Honors Advanced Biology Marine Science (online) Earth & Space Science (online) Environmental Science |
| Art / Technology | Art / Technology | Art / Technology | Art / Technology |
| Art 1 Design Tech Robotics and Microelectronics Computer Programming | Art 1 | Art 1 Graphic Design Robotics and Microelectronics Computer Programming Computer Hardware Web Design Design Tech | Art 1 |

Options for electives either through CSI Online or in-school electives include: Microeconomics, Macroeconomics, Forensic Science, Marine Science, Honors Physics, Anatomy and Physiology, Robotics, Application Development, Principles of Design, and Principles of Research, Earth and Space Science, Medical Terminology.

Course Descriptions

ARTS - Visual Arts and Music

5 Credits of Art or Music are required for graduation.

VISUAL ARTS

Our study of visual arts will promote and encourage a thoughtful and aesthetic response to God's revelation of Himself and His purposes in creation.

ART 1

Students in this course will explore the techniques of drawing, ceramics, painting, design, sculpture, and printmaking on an introductory level. As the course progresses students will be given slightly more advanced projects that will deal with conceptual and compositional issues. In addition to learning to create art, students will explore art styles and related art history, as well as engage with emerging digital based drafting tools. Students will also learn how to engage in art criticism and discussion. There will be at least one field trip and attendance is required. Students will be required to do weekly sketchbook assignments. Some research is required.

CERAMICS

Prerequisite: Art 1

This course will include the study of building clay vessels using the three handbuilding techniques of pinch, coil, and slab, as well as 'throwing' pots on the pottery wheel. Techniques and methods of producing sculpture from clay and other materials will also be explored. Intro to the chemistry of glazes will be included. Some research is required including the history of ceramics and its multicultural impact. Field trip to a local pottery studio is included.

ADVANCED CERAMICS

Prerequisite: Art 1 and Ceramics

Studying advanced techniques in the clay building process and wheel throwing, as well as advanced concepts, design theories, and stylistic expression in three dimensional form. Some research is required including the history of Greek pottery. Field trip to local pottery studio included.

SCULPTURE (EVEN YEARS)

Prerequisite: Art 1

This course will be a study of sculpture-in-the-round and relief sculpture, focusing on mass, weight, and balance. Students will research and discover various styles and projects in three-dimensional art. Media studied will be wood, clay, cardboard, paper, paper maché, etc. Styles highlighted will be realism, abstraction, and geometric form. Students will engage in art criticism and reflection, placing projects in relation to art movements.

PAINTING (ODD YEARS)

Prerequisite: Art 1

Painting will include the extensive use of acrylics, oils and watercolor. Students will be allowed to choose their favorite medium and take it to its fullest potential. Realism, abstraction, pop art and many more movements will be covered as students explore the masters of antiquity as well as contemporary artists. Projects and critiques will be placed within the context of art history. Students will be involved in at least one large scale or collaborative project. There will be at least one field trip and attendance is required.

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

.....

DRAWING (EVEN YEARS)

Prerequisite: Art 1

Drawing will include pencil, charcoal, pen and ink, pastels, and digital based drafting tools. Emphasis is placed on shading, composition, highlighting, subtleties of tones, texture and positive-negative space observations. Portraits, still life, and anatomy studies will be included as well as drawing from imagination. There will be at least one field trip and attendance is required.

PRINTING AND DESIGN (ODD YEARS)

Prerequisite: Art 1

Students will enrich their understanding of the elements and principles of design through the use of various printmaking techniques including woodblock, linoleum, silkscreen, stenciling and mono-printing methods. Students will move from single to multi-color dynamic designs that can be applied to materials including paper, clothing and others. Some research is required. Basic Photoshop tools and techniques will be covered to enhance designs. There will be a field trip or an in-school field trip with an established print maker.

GRAPHIC DESIGN

Prerequisite: Art 1

Using the industry standard tools of Adobe Illustrator, Photoshop, and Indesign, students will create dynamic visual materials. Students will learn layout skills and acquire the ability to combine visual elements with text information. Learn to use creativity not only to design, but to also catch the public's attention (posters, t-shirts, flyers, logos, photo books). Students will explore discernment between what the world values and what we as Christians should value and communicate. The course will include current and professional programs and practices. There will be at least one field trip and attendance is required.

ADVANCED PORTFOLIO

Prerequisite: Art 1 and two other Art classes

This course is open to students who have excelled in art and are considering pursuing it on a college level or would like to advance their art through focused time in our studio. The requirements are handed down by the Educational Testing Service in order to take the portfolio exam: Sign up in College and Career Office is required for the AP test, the cost which is the responsibility of the student. This is an opportunity to develop a physical and online portfolio reflecting your styles and interests. In addition to traditional and emerging art making skills, basic digital design tools will be covered to best prepare students for portfolio presentation. Students will be involved in at least one large scale and collaborative project. There will be at least one field trip and attendance is required.

EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018

.....

MUSIC

Music is viewed as a God-given gift to humanity. Our music education program strives to build skills that steward this gift for God's glory. Music courses are year-long electives and may be taken more than once to fulfill the Arts credit requirement.

CONCERT BAND (HALF CREDIT)

Concert Band is an instrumental ensemble including the woodwinds, brass and percussion families. It is geared towards those students who have a minimum two-year history of playing and reading music. Membership is based on consistent practice, attitude of service, and commitment to pursue excellence. This year-long course will challenge you as a student and a musician. Students are expected to participate in community events, as well as school concerts where attendance is mandatory. Concert Band meets during SOAR 4 days per week.

CONCERT CHOIR (HALF CREDIT)

Concert Choir is a full year non-auditioned ensemble that meets during SOAR 4 days per week. Concert Choir is a larger ensemble for freshmen through seniors. The Concert Choir studies, rehearses, and performs choral music ranging from Medieval Chant to music written during the 21st century. Concert Choir focuses much of its study, however, on more contemporary vocal literature from a variety of genres.

ORCHESTRA (HALF CREDIT)

This is a year-long elective which concentrates on music in the string literature (violin, viola, cello, bass) from baroque to present. A minimum of two years playing experience on a string instrument and proficiency in note reading is required. Opportunity is provided for performance outside of school and for participation in Regional and All State Orchestra auditions. This course will challenge you as a student and a musician. Students are expected to participate in community events, as well as school concerts where attendance is mandatory. Orchestra meets during SOAR 4 days per week.

HONORS CHOIR

Eastern Christian Honors Choir is a select, audition-based vocal ensemble of about 18 students in grades 10-12. ECHC members must participate in Concert Choir for the entire year. ECHC meets every other day for 1 block throughout an entire school year. ECHC seeks to nurture and train students in the art and practice of small ensemble singing. As this is an advanced course, students must have knowledge of basic music theory in order to participate with the group's challenging music studies. Students will continue to grow in their ability to read music as well as in ear training. The group focuses on proper vocal technique, breath control, syncopation, intonation and rhythm for dynamic small group ensemble singing. Students will also study music in other languages, a'capella pieces, Christian, contemporary, classical music and Broadway show tunes. Students are evaluated based on their active participation in class and at performances, rehearsal etiquette, and their ability to read, write and evaluate music. Students learn music theory and write their own original song. ECHC is an involved and active ensemble in the community. In addition to 2 formal concerts at school, the group performs at several other venues throughout the year; this includes some nights, weekends and rare Sunday services. The group also goes on tour every other year. Membership requires a time investment and commitment to participate in the performances.

BIBLICAL THEOLOGY

Biblical Theology is required for each year of attendance.

Each course leads students to search for and comprehend key theological ideas that are revealed in a given section of Scripture. Emphasis is placed on inductive reasoning and the use of sound principles of Reformed Bible interpretation.

BIBLICAL THEOLOGY 1 – THE KINGDOM OF GOD: A COMMUNITY OF FAITH (HALF CREDIT)

The course objective is to enable students to understand that from the beginning it has been God's plan to create a community of gracious, loving, forgiving people that intentionally function as God's co-workers to reconcile the world to God. The themes of creation, fall, judgment, redemption, hope, and faith receive special emphasis in the study of Genesis. Portions from the rest of the Bible are surveyed to understand the outworking of these themes in the mission of the community, culminating in the Person and work of Christ. Students are encouraged to involve themselves in service projects in our local community and around the world.

BIBLICAL THEOLOGY 2 – THE KINGDOM OF GOD: LOST DREAM AND NEW OPPORTUNITY (HALF CREDIT)

The course objective is identical to Biblical Theology 1: that from the beginning it has been God's plan to create a community of gracious, loving, forgiving people that intentionally function redemptively as God's co-workers to reconcile the world to God. This course focuses on the collapse of the community of Israel, Israel's struggle to regain its position and mission as the visible kingdom of God, and on the life and ministry of Christ as Israel's Messiah. Sources include Isaiah, Ezekiel, Jeremiah, Haggai, Zechariah, Matthew, Mark, Luke, and John.

BIBLICAL THEOLOGY 3 – NEW TESTAMENT (HALF CREDIT)

The course has two objectives. One is to enable students to understand issues concerning the inspiration and canonicity of the Bible, as well as gain a greater understanding of Biblical genres. The second is to enable students to explain how the basic themes of creation, fall, judgment, redemption, hope, and faith are reprised in the New Testament, grounded in the Person and work of Christ, and are applied to life.

BIBLICAL THEOLOGY 4 - APOLOGETICS (HALF CREDIT)

The course objective is to enable students to understand and explain the Christian faith in the face of difficult questions and significant alternative faith perspectives that exist in contemporary culture.

BIBLE AND WORSHIP (HALF CREDIT) (Grades 11 and 12)

Prerequisites: A student application must be submitted to the teacher for approval.

Students will grow as followers of Christ, as spiritual leaders, and as thoughtful worship planners. Students will be responsible for completing course work in addition to their work as members of a chapel planning team. Course content includes a survey of Bible passages about the character of God, and principles of worship. Students will also study the ways Christians worshipped God in the past. In class discussion, we will seek to apply Biblical understandings of worship in our modern context. A culminating church project will involve a visit to an unfamiliar church and reflections on what can be appreciated from the congregation's worship. About half the time of each class will be set aside for chapel planning.

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

.....

CROSS CULTURAL PERSPECTIVES AND SERVICE (HALF CREDIT)

This elective does NOT count as a Biblical Theology requirement

Prerequisites: Application and teacher recommendation

Students who have not attended EC for at least one year require special administrative permission to attend.

Mission opportunities are all around us. Throughout this class we will study various global issues that have an impact on the world and how they relate to sharing the gospel of Christ. Also, the concept of service will be explored through local service projects, building relationships with missionaries, and a mission trip experience. Practical, hands on opportunities will complement the theological study of missions. Assessment will be project and portfolio based. Students will be responsible for raising financial support for the mission trip. Guidance on raising support will be available.

BUSINESS AND TECHNOLOGY

Career and Technical Education (taken freshman year) as well as Personal Financial Literacy (taken junior or senior year) are graduation requirements.

Business and Technology classes are committed to glorifying God and learning about his world through the study of applied science, math and technical training.

CAREER AND TECHNICAL EDUCATION (CTE)

Required course for all freshmen.

This comprehensive seminar assists freshmen in transitioning from middle school to high school. With a focus on acclimating to new academic and social environments, we practice skills necessary to succeed in the years beyond high school: building character through leadership, technology, goal and time management, oral presentation skills, data base research, study habits, resume and interviewing job preparation skills, and preliminary college and career planning.

PERSONAL FINANCIAL LITERACY

Required course in junior or senior year.

This course is designed to teach students personal financial literacy. Students will learn skills, resource availability, and strategies that promote financial responsibility in areas of financial planning, career selection, savings, investments, and charitable giving in the global economy. Students will also engage in analysis of economics, long-term financial planning, career choice, and civic financial responsibility, including risk management and insurance. Students will learn skills that are critical to creating financial health in the 21st century global economy and understanding God's word regarding stewarding resources.

COMPUTER CODING

Students will learn what many computer experts are calling one of the most important skills a student can learn in high school, as understanding code will open up many opportunities in STEM fields. In this class, students will learn the powerful Python language used by programming professionals and universities every day. This class will focus on solving problems using logical and systematic planning. No coding experience is necessary to join this class.

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

.....

WEB AND APP DEVELOPMENT

Students in this class will study four major components of the mobile and web technology fields: web page design through the HTML and CSS languages, social media tools and strategies for companies, web site automation using Content Management systems, and mobile app development using MIT's Mobile App Developer.

MEDIA PRODUCTION

Multimedia is all around us, and people are creating videos and songs every day on their phones and tablets. This class will teach professional practices in audio and video recording, editing, and producing through the use of tools such as Adobe Premiere and Apple GarageBand to create something memorable and worthwhile amid growing 'media noise.' Students will work with the school's athletic, marketing, journalism and music departments to create media projects that are used by the entire EC community.

DESIGN TECHNOLOGY 1

Prerequisite: C in Geometry

This course introduces many different types of drawings and reinforces them with architectural and mechanical drafting on the AutoCAD program. Students will also review accurate visual communication studied in Design Technology 1, and will be required to read the designs made by other students. Design Technology 2 involves both computer based and hand-made projects.

DESIGN TECHNOLOGY 2

Prerequisite: Design Technology 1

This course introduces many of the different types of drawings and reinforces them with architectural and mechanical drafting on the AutoCAD program. Also students will review what they learned about accurate visual communication in Design Technology 1 and will be required to read the designs made by other students. Design Technology 2 involves projects both computer based, as well as hand made.

ROBOTICS

Students will develop skills in mechanical design and construction as they work in teams to build simple and complex robotic devices. They will explore usage of robotics in modern business and industry, and examine how robotic devices are affecting our lives and shaping our culture. Students will apply concepts learned in Physical Science and Physics classes to mechanical devices.

EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018

.....

ENGLISH

20 Credits of English are required for graduation.

English curriculum is designed to encourage our students to see themselves as literate, articulate and creative individuals designed by God to appreciate, enjoy and transform our world through written communication.

ENGLISH 1

Literature is taught at the reading level of each student. Chronologically, the course begins with the literature of Ancient Greece and continues through the Elizabethan era. Also incorporated in the course will be language usage, vocabulary, literary devices, oral presentation, and essay development. Students will gain practice in reading and analyzing a variety of literary types with emphasis on building comprehension, strengthening vocabulary and increasing fluency. Students will also practice writing for organizational patterns and proper grammar. Placement is by recommendation of the English Department.

ENGLISH 1 CP

This is the first of a two year study of the worldviews of Western literature. Chronologically, the course begins with the literature of Ancient Greece and continues through the Elizabethan era. Also incorporated in the course will be language usage, vocabulary, literary devices, oral presentation, and essay development.

ENGLISH 1 HONORS (AND WORLD HISTORY 1 HONORS) (HUMANITIES)

This interdisciplinary course focuses on the worldviews, history, and literature of early civilizations through the Renaissance. The fundamental skills of reading and writing used in the four-year Humanities Program are taught. Placement is by recommendation of the English Department.

ENGLISH 2 CP

This course continues the study of Western literature begun in English 1CP. Chronologically, the course begins in the Elizabethan era with Shakespeare, continues through the Romantic and Victorian periods, and into the modern age. A variety of poetry, dramas, and novels is incorporated into the study of vocabulary, literary devices, oral presentations, and writing skills.

ENGLISH 2 HONORS (AND WORLD HISTORY 2 HONORS) (HUMANITIES)

Prerequisite: English 1 Honors (Humanities) or permission of the instructor

This course completes a two-year Humanities sequence. The global history, literature, culture, and politics of the Enlightenment to the current era will be covered. At the end of this course, students will be prepared to take the AP European History Exam.

ENGLISH 3 CP

English 3 CP is a survey of American worldviews as represented in American Literature. This course concentrates on major authors and poets from the 17th century to the 20th century. This course emphasizes vocabulary through the study of Greek and Latin roots. It also includes a study of analytical writing with emphasis on writing a literary analysis research paper. Note: A passing grade on the research paper is a graduation requirement.

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

.....

ENGLISH 3 HONORS (AND US HISTORY 1 HONORS) (AMERICAN STUDIES 1) – PA, NHS

This class is an interdisciplinary course joining American History Honors and American Literature Honors. The team taught course is a survey of American life and worldview from the 17th to the 20th century and uses a humanities approach, integrating culture into the study. This course has an emphasis on vocabulary through the study of Greek and Latin roots. Admission by permission.

ENGLISH 4 CP

This course traces key authors, themes and literary styles that reveal worldviews of both Western and non-Western authors. Key to this course is the understanding of a culture's revelation through its literature. Students will write a research paper and will be expected to develop critical thinking skills. Students will explore and present their worldviews. A passing grade on the research paper and worldview project are graduation requirements.

ENGLISH 4 HONORS (AND US HISTORY 2 HONORS) (AMERICAN STUDIES 2) – PA, NHS

This course is a continuation of the American Studies 1 course and will explore a multicultural focus of 20th century history, literature, culture and politics. Extensive reading and writing preparation for the English Literature AP and American History AP exams should be expected. The final quarter of the course will focus on a worldview project that culminates the four-year study. The worldview project is a graduation requirement.

ENGLISH ELECTIVES

FOUNDATIONAL WRITING

This course is designed for students who need to work on their basic writing skills. Students will begin by learning the stages of the writing process: how to brainstorm, how to create a topic sentence, how to support and organize ideas, and how to write clear, error-free sentences. Starting with basic paragraphing, students will work toward writing longer essays. Narration, description, persuasion, and other forms of exposition will be explored. Proper MLA Format will be taught and practiced. Admission is by approval or referral.

ESSAY WORKSHOP

An initial review of the writing process will be followed by systematic practice of the major types of expository writing. Essays will be based on a variety of topics. Attention will be given to grammatical usage and stylistic development. Proper MLA format will be practiced. Admission is by approval or referral.

ADVANCED COMPOSITION – PA, NHS

This course parallels a year one college writing course with emphasis on grammatical and organizational skills. Students practice multiple modes of essay formation. This is an advanced course requiring substantial writing. Admission is by approval.

JOURNALISM

The EC Times is a student-written publication distributed to all three EC campuses, local churches, and the Holland Home approximately every six weeks. Students brainstorm interesting news topics, interview staff and students, and write articles with the intention of educating, informing, and entertaining the EC audience. Students also participate in a real-life small business while strengthening writing, interpersonal and photography skills.

EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018

.....

ADVANCED JOURNALISM

Prerequisite: Journalism

Advanced Journalism meets simultaneously with Journalism class to coordinate and write pieces for the EC Times and to lead small groups of Journalism students in brainstorming sessions as necessary. Students in this class will additionally pursue outside-of-school publishing opportunities (freelancing for local newspapers, etc.) with help from the teacher. Applications are available in the Deans' Office.

YEARBOOK/PUBLISHING (GRADES 11 AND 12)

Prerequisites: Journalism class and completed application from Deans Office

The yearbook is a \$32,000 project managed by Eastern Christian students. In this class, students will play an integral role in developing a concept, obtaining information, and laying out the book. Learning and using a variety of business and publishing skills, students will follow an editorial process and work together to complete deadlines. This class meets every other day for the entire year.

PUBLIC SPEAKING (ODD YEARS)

This course provides a study in organizing and presenting speeches. Students will be required to develop and present various speeches including informative, demonstrative, and persuasive. Emphasis will be on developing effective speaking skills.

CREATIVE WRITING (EVEN YEARS)

Using writing samples and peer critiques students will learn and produce various styles of writing; i.e., short story, poetry, screenwriting, and narrative essay. Proper grammatical use is an implied aspect of the finished product. This is a portfolio class. Students will retain and continually revise their works in order to select the most appropriate material for potential publication.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL FULL YEAR

A course for English Language Learners to practice skills in all four modes—reading, writing, speaking, and listening—that are essential for success in high school and beyond. Using authentic texts, students will practice reading comprehension, increase reading fluency, enhance vocabulary, practice grammatical skills, and learn the basics of literary analysis. By participating in a wide range of activities, students will also be introduced to different teaching methods that are common in American classrooms. Placement is determined by testing.

ESL HALF YEAR

This course is for English Language Learners who require a semester of preparation before continuing on to English College Prep. Students will use authentic texts to increase their reading, writing, speaking, and listening skills and learn how to analyze and enjoy literature of a variety of genres. Placement is determined by testing.

WRITING WORKSHOP ESL

This course is for English Language Learners who need to develop solid writing skills through increased practice. The emphasis will be on using proper grammar, creating clear sentences, developing unified paragraphs, and writing full essays in a number of forms including expository, narrative, and description. Placement is determined by testing.

MATHEMATICS

15 Credits of Mathematics are required for graduation.

Mathematics, which is a study of order and pattern, allows us to more clearly see God's consistency in creation. Our world, its structure, and laws show these same unchanging patterns and order, thus proclaiming the divine nature of creation. Most colleges require three years of math for admission, and four years are recommended for students whose vocational choices demand proficiency in math. Math teachers can assist in ensuring course selections meet vocational aspirations.

INTEGRATED ALGEBRA AND GEOMETRY 1

Through differentiated instruction and a Saxon curriculum that emphasizes daily review, students will master skills needed for Algebra. Students will learn problem solving, integer operations, equations, factors and multiples, fraction/decimal/percent conversions, mixed numbers, probability, rates, ratios, geometric figures, area, and perimeter. Upon completion, students will enter Integrated Algebra and Geometry 2 to complete learning before Algebra 1.

INTEGRATED ALGEBRA AND GEOMETRY 2

This course reviews and introduces several concepts needed for Algebra 1. The following subjects will be presented with use of differentiated instruction and a Saxon curriculum that emphasizes daily review. Students will learn problem solving, exponent laws, solving one and two step equations, fractions, decimals, proportions, percents, ratios, geometric figures, and measurements. Both Integrated Algebra and Geometry 1 and Integrated Algebra and Geometry 2 will prepare the students for Algebra 1.

ALGEBRA 1

Algebra 1 is designed to equip students with the necessary skills to solve written, oral, and numerical problems algebraically. Students will gain an understanding of concepts; such as communication, balance, growth, patterns, relationships, and comparisons. The mathematical content mastered contains equations, exponents, polynomials, factoring, linear equations, inequalities, systems of equations and square roots.

GEOMETRY NO PROOF

Prerequisite: Integrated Algebra and Geometry 2

The main elements of plane geometry are covered using a non-proof approach. Students will explore angles, triangles, congruent relationships, parallel lines, polygons, coordinate geometry, trigonometric ratios, and geometric solids. Students also will learn how to do constructions using a compass. This course is an alternative option for students who are challenged by the demands of a college preparatory Geometry curriculum.

GEOMETRY

Prerequisite: C in Algebra 1

This course helps students to gain an understanding of geometry through an approach that uses deductive reasoning, or proofs. Through this approach, students will explore topics such as angles, triangles, congruence, parallel lines, polygons, coordinate geometry, geometric solids, constructions, and trigonometric ratios.

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

.....

GEOMETRY HONORS

Prerequisite: A- in Algebra 1 and recommendation of the Math Department

This course studies the main elements of plane geometry with aspects of solid geometry to a greater depth. Higher level thinking, algebraic processes and deductive reasoning through proofs are important tools in studying at the Honors level. Students will also learn how to apply principles of algebra to geometric problems.

ALGEBRA 2

Prerequisite: C in Algebra 1

Algebra 2 continues to explore the concepts and principles of algebraic problem solving introduced in Algebra 1. The fundamental concepts of this course include linear, quadratic, and rational functions. Specifically, students will study topics such as imaginary numbers, the quadratic formula, and variations.

ALGEBRA 2 HONORS – NHS

Prerequisite: B+ in Honors Geometry or A- in Algebra 1 and/or Geometry

This course covers many of the same concepts of Algebra 2 with added enrichment topics and exercises. The enrichment topics will focus mainly on introductory trigonometry, statistics, probability, and matrices.

MATHEMATICAL ANALYSIS

Prerequisite: C in Algebra 2

Mathematical Analysis is a post-Algebra 2 course in which students study advanced topics in mathematics in preparation for college level math courses. This course provides an option for students who would like to continue in mathematics after Algebra 2 and for students who wish to take four years of college preparatory math. Topics covered include sequences and series, exponential and logarithmic functions, parent functions, linear programming, trigonometry, and matrices.

PRE-CALCULUS – NHS

Prerequisite: B in Algebra 2 Honors or B in Math Analysis

This course integrates the topics studied in Algebra 1, Geometry, and Algebra 2 and begins to lay the groundwork for Calculus and college mathematics. This course is designed to develop quantitative reasoning and problem solving. Students also will learn to use technology in problem solving and will learn how to effectively communicate mathematical ideas. Students will learn linear, polynomial, logarithmic, exponential, and trigonometric functions.

STATISTICS – NHS

Prerequisite: B in Algebra 2 Honors or B in Math Analysis

This course will explore the science of statistics. Students will be able to understand the processes of sampling data, creating honest and unbiased experiments, and interpreting data. It is a challenging capstone course for students who want an advanced mathematics course but would not necessarily be going into a math-related major. Students will learn about z-scores, standard deviation, expected value, variance, distributions, and probability. Students enrolled in this course, with some independent study, may have the option of taking the Advanced Placement Statistics exam in May.

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

.....

CALCULUS 1 – PA, NHS

Prerequisite: B in Pre-Calculus or permission of the teacher

In this course, students will explore the basic concepts of single-variable calculus. Major concepts to be covered include limits, differentiation, integrals and applications related to each. With some independent study, students enrolled in this course may have the option of taking the Advanced Placement Calculus AB exam in May.

CALCULUS 2 – NHS

Prerequisite: B+ in Calculus 1

In this course, students will review objectives taught in Calculus 1, as well as learn additional standards such as arc length, surface area, integration by parts, trigonometric integration, L'Hopital's Rule, sequences and series. With some independent study, students enrolled in this course may have the option of taking the Advanced Placement Calculus BC exam in May.

PHYSICAL EDUCATION/HEALTH (HALF CREDIT)

Physical Education/Health is required each year of attendance.

Physical Education and Health classes provide students with an opportunity to learn about sportsmanship, teamwork, and physical wellness as a means of understanding and honoring how God has designed our bodies.

Classes operate on an every other day rotation in conjunction with another class; i.e., Bible. The primary objective of these classes is for students to develop an appreciation for physical activity and personal fitness. Activity units include team sports, individual sports, creative games, aerobic workouts, and strength training. Health integrates classroom theory with physical experience to encourage a responsible, healthy lifestyle. Physical Education/Health classes are divided into two tracks (9th and 10th, and 11th and 12th) offered on alternating years.

SCIENCE

15 Credits in Science are required for graduation.

As God's chosen caretakers of creation, we study science in an effort to see his glory as shown in the every aspect of our universe. Freshmen are scheduled for Earth Science and sophomores for Biology. Students may choose from Chemistry, Chemistry Honors, and Planet Earth Science for the third science requirement. Advanced Biology, Anatomy and Physiology, Physics, and Physics Honors are offered as additional electives.

EARTH SCIENCE

This course is a requirement for all freshmen, and is taught with a focus on the following broad topics: Earth as a Dynamic Planet, Earth as a Complex Set of Systems, and Earth in Space. Through this course students learn the fundamental skills of observation and experimentation. They will also cultivate what was a foundational understanding into an immense body of knowledge about the Earth, through the study of geology, oceanography, meteorology, and astronomy. Central to this course is our responsibility as Christians to be stewards of planet Earth. This course is both lab and project based.

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

.....

EARTH SCIENCE HONORS

This course is an alternative to the general Earth Science course and is intended for those students who are following the Honors track in science. It focuses on the same broad topics as the general course, but it has enriched content and advanced concepts with more quantitative problem solving. Like the general course, a central theme is our responsibility as Christians to be stewards of planet Earth. This course is both lab and project based.

BIOLOGY

This course introduces students to the major concepts of life science using a variety of classroom and laboratory experiences. Topics include biochemistry, cell biology, cell division, genetics, ecology, and the classification of living things. This course encourages responsible stewardship and provides preparation for advanced study in biology.

BIOLOGY HONORS

Prerequisite: B+ in Earth Science Honors or approval from the instructor

This course is recommended for sophomores who have demonstrated extraordinary interest and aptitude in Earth Science. It includes topics outlined in the general course, but covers them in greater depth and at an accelerated pace. Biology Honors is a rigorous science course that provides excellent preparation for Chemistry Honors, Advanced Biology, and Anatomy and Physiology. Students who perform well are expected to continue in the Honors track.

SCIENCE ELECTIVES

Students are encouraged to enrich their high school program with science electives in order to increase their academic options after graduation. Moreover, college admissions personnel look favorably upon students who enhance their course load with challenging electives.

PLANET EARTH SCIENCE

Planet Earth Science will challenge the student to see our planet as a dynamic system. Studying a variety of earth's natural processes, including earthquakes, volcanoes, tsunamis, hurricanes, and tornadoes, students will be encouraged to see the energy as the unifying concept driving all earth systems. The content of this course will include a variety of perspectives including meteorology, geology, astronomy, biology, and physical science. The unifying theme of environmental issues will be central to this study to encourage students to be passionate stewards of Planet Earth. This course meets the high school's requirement of a third lab science course and is offered at an appropriate level of rigor. It is a viable alternative for students who are challenged by the mathematics required for college preparatory chemistry and physics.

CHEMISTRY

Prerequisites: C+ in Algebra 1, Geometry, Earth Science, and Biology or with permission from the instructor

Chemistry is intended for juniors and seniors who wish to fulfill the college entrance requirements in Chemistry but do not intend to pursue a career in science studies. Chemistry provides students with an excellent foundation in the study of matter and its changes. The topics include atomic structure, chemical bonding, chemical reactions, gas laws, mathematics of chemical reactions, and energy. This course is intended for students who are comfortable with abstract science concepts and mathematical computations.

CHEMISTRY HONORS – PA, NHS

Prerequisites: B in Algebra 1 and 2, Geometry, Earth Science Honors, and Biology Honors or with permission of the instructor

Chemistry Honors is intended for those students who wish to pursue science in college. The Chemistry Honors curriculum includes the same topics studied in Chemistry, but in greater detail and at an accelerated rate. Additional topics include the quantum model of the atom, thermodynamics, chemical kinetics, and electrochemistry. Chemistry Honors is an excellent choice for those students desiring an in-depth analytical, quantitative, and rigorous science course.

ADVANCED BIOLOGY – PA, NHS

Prerequisite: A- in Biology or B in Biology Honors; and B in Chemistry Honors or with permission of the instructor

This course emphasizes the investigative process in the study of genetics, cell division, biotechnology, human genetics and origins. This is a rigorous course for self-motivated students who are ready to explore, and will provide preparation for independent research at the university level.

PHYSICS – NHS

Prerequisite: B in Algebra 1 and 2, Geometry, and Chemistry or with permission of the instructor

This general physics course investigates Newtonian Physics as it relates to the topics of one and two-dimensional kinematics, rotational kinematics, forces, work and energy, static equilibrium, and momentum. Problem solving is emphasized so students should be comfortable with algebra, geometry, and basic trigonometry.

PHYSICS HONORS – PA, NHS

Prerequisite: B+ in Chemistry Honors and Pre Calculus, or with the permission of the instructor

Physics Honors is a course designed for students who want to pursue a science degree in college. The curriculum will cover the topics included in general Physics in addition to simple harmonic motion, waves, sound and electrical charge, fields, potential, and circuits. In this rigorous course, students should expect to be challenged in their problem solving ability. For this reason, students will need to have excelled in algebra, geometry, and trigonometry. With some independent study, students could elect to take the AP Physics I exam.

ANATOMY AND PHYSIOLOGY – PA, NHS

Prerequisite: A- in Biology or B in Biology Honors, and B in Chemistry or Chemistry Honors, or with permission of the instructor

Anatomy and Physiology is a rigorous college-level course designed to provide a foundation for advanced study in medicine, health-related fields or biomedical engineering. This course will provide students with an understanding of human body structures, their principal functions, and how each contributes to the maintenance of homeostasis. This is an advanced course and includes a significant amount of lab work.

EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018

.....

SOCIAL STUDIES

20 Credits of Social Studies are required for graduation.

In grade 9, students will study world cultures as they have developed through history. In grade 10, students will study modern world history from about 1500 to the present. In grades 11 and 12, students will study American history and politics. An interdisciplinary approach to these studies will be emphasized.

WORLD CULTURES CP

This is a one semester course which takes a regional approach to the study of cultures. Each regional study will start with a consideration of the current culture/worldview of the region, moving towards an investigation of how the culture developed. This will include such topics as geography, history, religion, economics, politics, social development.

WORLD HISTORY 1 HONORS (AND ENGLISH 1 HONORS) (HUMANITIES)

This is an interdisciplinary course focusing on the study of the history and literature of Western civilization through the Enlightenment. The students will also study the art, music, philosophy, etc., of each historic era. Extensive reading in AP level text and writing will be required. Admission by permission of teachers.

WORLD HISTORY CP

In this course, students will continue their study of world civilizations by investigating themes in modern world history from about 1500 to the present. The students will be challenged to consider those ideas, people, and events that have helped shape the modern world. Once again, there will be a continuing emphasis on worldview development.

WORLD HISTORY 2 HONORS (AND ENGLISH 2 HONORS) (HUMANITIES)

Prerequisite: English 1 Honors (Humanities) or with permission of the instructor

This course completes a two-year Humanities Sequence. The period of the Enlightenment to the current will be covered. At the end of this course students will be prepared to take the AP European History Exam. Admission by permission.

U.S. HISTORY 1 CP

In this course students will examine the development of the American identity from the period of European colonization to the early 20th Century. Special emphasis will be given to the development of the Constitution and the American political system.

U.S. HISTORY 1 HONORS (AND ENGLISH 3 HONORS) (AMERICAN STUDIES 1) – PA, NHS

This class is an interdisciplinary course joining American History Honors and American Literature Honors. The team taught course is a survey of American life from the 1600s to the 20th Century and uses a humanities approach, integrating culture into the study. This course has an emphasis on vocabulary through the study of Greek and Latin roots. Extensive reading will be required with preparation toward taking the English Literature AP Exam. Admission by permission of teachers.

EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018

.....

U.S. HISTORY 2 CP

In this course students will examine the development of the American identity throughout the 20th and 21st centuries. Students will be challenged to examine political, social, and cultural developments in order to understand the changes that occur in the American nation. A significant component of this course will be the study of American government in the context of the 20th and 21st centuries.

U.S. HISTORY 2 HONORS (AND ENGLISH 4 HONORS) (AMERICAN STUDIES 2) – PA, NHS

This course is a continuation of the American Studies 1 course and will explore a global focus of 20th – 21st century history, literature, culture and politics. Extensive reading and preparation for the English Literature AP and American History AP exams should be expected. The final quarter of the course will focus on a worldview project that culminates the 4-year study.

SOCIAL STUDIES ELECTIVES

INTERNATIONAL RELATIONS (ODD YEARS)

This course combines study of the international community and macro-economics. The goals are for students to understand the principles which guide the relationships between nations, to examine the role of the United States in the international community, to analyze the relationship between economics and international relations, to examine the new world order since 9/11/01, and to struggle with developing a Christian perspective on international relations. A requirement in this course will be the development of a current events journal and a project related to a current international controversy.

AMERICAN LAW (EVEN YEARS)

This course involves an examination of the American legal system. After examining Biblical principles for law and justice, the class will investigate topics which include the criminal justice system, punishment, civil law, constitutional law, and family law. Students will also participate in mock trials and moot court simulations.

CONTEMPORARY AMERICAN ISSUES (ODD YEARS)

In Micah 6:8, we are challenged to live lives of justice, mercy, and humility as we walk with God and serve our neighbors. The focus of this one semester class will be to help students do that, as they consider some of the important issues faced in American society. Among others, the course will include investigations into issues such as poverty in America, abortion and women's rights, Islamophobia, environmental concerns and illegal immigration. Students will be taught how to apply a Biblical worldview to these issues, and how to approach the issues with open minds. Students will be challenged to build their own beliefs and ideas about each social political issue we examine.

PSYCHOLOGY (GRADES 11 AND 12)

This course gives students the knowledge to better understand themselves, their lives, and their communities. This is accomplished by studying principles, concepts, and theories central to the study of psychology. Specifically, students will be introduced to the scientific study of psychology, the connection between the body and the mind, the learning and thinking processes of the human mind, the path of human development from infancy through old age, how and why a person experiences emotions, how an individual's health is related to stress, and how our attitudes affect the way we see the world and the people in it.

WORLD LANGUAGES

5 Credits of World Languages are required to graduate.

All students planning to attend college should study at least 2 years of one world language. Spanish and French are offered in a traditional classroom setting. Mandarin Chinese, German, and Latin are offered as online courses. A final grade of C in the first level entitles the student to go on to the second level; a “B” then entitles the student to go on to the higher levels.

FRENCH 1, 2, AND 3

This course is an opportunity to study the language of poets, artists, culinary giants and love. Students will learn to hear, speak, write and comprehend basic French. The course will be supplemented with a variety of authentic and enriching cultural materials.

SPANISH 1 AND 2

These basic and intermediate levels will provide students with the opportunity to learn the most popular world language in the USA today. Students will hear, speak, write, read and comprehend basic Spanish. Supplementary readers increase the student's vocabulary and enrich the knowledge and appreciation of the Hispanic culture. Placement tests will be given to students with prior course-work in Spanish to determine appropriate levels.

SPANISH 3 AND 4 - NHS

Prerequisite: B in Spanish 2

In these advanced levels, students will participate in more challenging speaking, reading and writing in the target language. In these upper levels most conversation and discussion in class will be conducted in Spanish. Students who excel and are striving for acceptance to a very competitive university are urged to take levels 3 and 4.

OTHER OPPORTUNITIES:

EDUCATIONAL SUPPORT SERVICES

In Educational Support Services, also known as TESS, our resource room classes include tutoring and help with current subjects and homework, as well as support with study skills and self-advocacy skills. This class is taken for credit and is offered every other day or daily.

INDEPENDENT STUDY OPTIONS

Some students may have the option of pursuing an independent, faculty-directed course. Exceptional students must be motivated and demonstrate a thirst for knowledge in a particular area. The student must request the independent study from their grade level Dean and speak to the faculty member who would oversee their work. The student and faculty member must formulate a plan of study and schedule deadlines, and then submit a written proposal of the course to the Dean. An Independent Study Contract would need to be requested from the Dean, signatures obtained, and each part of the process followed explicitly. Credit for the course would coincide with the work required and grades would be assigned.

**EASTERN CHRISTIAN HIGH SCHOOL COURSE CATALOG
2017 – 2018**

.....

ONLINE LEARNING

Eligible juniors and seniors may elect to take a maximum of two online courses at ECHS. Online courses may be for high school credit or for dual credit. A block is provided in the student's schedule for completion of the course. In addition to the distance teacher, an online learning coach is provided, along with the necessary computer technology in our Media Center. In order to be eligible for online courses, students must maintain a cumulative B average or better. To enroll in a foreign language online course, the student must have demonstrated academic performance in at least 4 foreign language courses completed in the traditional classroom. ECHS contracts with outside providers for the provision of online courses.

SOAR

Student Opted Academic Resource (SOAR) is a time in every student's schedule that allows him or her to explore an interest. It meets for 40 minutes in between block 1 and block 2 for four days a week. Many students choose to participate in our Performing Arts program during this time which consists of choir, orchestra, or band. Other students can choose between many different clubs or activities that change throughout the year. Our teachers provide a variety of choices that explore different subject areas or provide skill practice. Some students also choose to meet with their teachers to get extra help in a subject. SOAR provides an opportunity for students to take on a leadership role by starting SOARs that provide new interest areas to the student body.

STUDY HALL (FULL AND HALF BLOCK)

Study hall is available for students who need time in their school day to actively work on class work, especially if time constraints after school due to sports or other activities prevent them from having sufficient time to complete homework assignments. Study halls can be chosen in full blocks or half blocks, as needed. No academic credit is given for study hall.

WINGS

The WINGS program (Work Internship Network for Gaining Skills) offers a customized internship for junior and senior students who would like real-world educational experiences. Students enrolled in WINGS will travel to a job site to learn technical skills in place of a classroom. WINGS can be used to accelerate job training, or to explore a possible career path or interest. ECHS administration will work with motivated and independent students and their families to design a pathway of academic courses, identify an outside provider for training, and support an internship for hands-on job experience.

This program is done on an independent basis alongside a faculty mentor. Any travel expenses or tuition fees will be the responsibility of the family. Possible fields of study include, but are not limited to: medical science technology, plumbing, electrical, welding, masonry, carpentry, landscaping, auto mechanics, cosmetology, dental hygiene.

