



**IndianRocks**  
CHRISTIAN SCHOOL

***Course Catalog***

# IndianRocks

## CHRISTIAN SCHOOL

## COURSE DESIGNATIONS, WEIGHTS AND GRADING PROCEDURES

### Honors Courses (H)

Honors-level courses cover the same topics and skills as regular classes but at a higher level of complexity, greater depth, and a more rigorous pace. One-half extra quality point is added to the student's GPA per semester upon completion of the course. Teacher RECOMMENDATION required.

### Advanced Placement Courses (AP)

Advanced Placement courses offer the opportunity to study a subject in-depth at the college level by an IRCS teacher. One quality point is added to the student's GPA per semester upon completion of the course. Mid-year and end-of-course AP Exam is required for full High School credit. To be eligible for college credit, a passing score must be earned on the end-of-the-year AP Exam. Teacher RECOMMENDATION required.

### Dual Credit Courses (DC)

Dual Enrollment courses are college courses offered through SPC that earn credits toward a High School Diploma and a College Degree. One quality point is added to the student's GPA upon completion of the course. Each college course is awarded 3 college credits and one-half of High School credit towards graduation. Counselor APPROVAL required. Eligible achievement test scores are required. See Student Handbook for additional Dual Credit Eligibility Requirements.

TEST	PSAT	SAT	ACT	PERT
Writing/English	490	25	17	103
Reading		24	19	106
Math	N/A	24 / 27.5	17 / 19	114 / 123

### Grade Point Averaging and Course Weighting

Honors, AP, and DC courses are available to students who meet academic prerequisites. A student's grade point average is calculated by dividing the grade points earned by the number of credits attempted. The standard grade points awarded are based on a 4.0 scale. One-half grade point (.5) will be added to each Honors grade received, and one grade point (1.0) will be added to each AP and DC grade received.

### Grading Procedures

IRCS has four 9-week grading periods. Grade reports are issued at the end of each grading period. Middle school final grades are determined by adding up the four-quarter percentages and dividing by four. High school semester grades are based upon an average of 2-nine week grading periods, plus the semester exam. For High school classes, the semester exam counts as 20% of the semester grade. See Student Handbook for exam policy.

# IndianRocks

## CHRISTIAN SCHOOL

### MIDDLE/HIGH SCHOOL COURSES

*Honors & Advanced Placement Courses Requires Teacher Recommendation*

*DC w/SPC Requires Qualifying Test Scores and Administrative Approval (Grades 11-12 only)*

**HS**

#### **BIBLE**

**4-HS credits required**

Bible I: Bible Narratives  
Bible II: Gospels in the Old Testament  
Bible III: Biblical Worldview  
Bible IV: Bible Doctrines  
Bible Chapel (approval required)  
Bible Apologetics  
DC World Religions (SPC)

**MS/HS**

#### **ENGLISH**

**4-HS credits required**

English 6 Reg/H  
English 7 Reg/H  
English 8 Reg/H  
English I Reg/H: World Literature  
English II Reg/H: American Literature  
English III Reg/H: British Literature  
English IV Reg/H: 19th/20th Century Literature  
AP Language and Composition (11th Grade)  
AP Literature and Composition (12th Grade)  
DC Composition I & II (SPC) (12th Grade)

**MS/HS**

#### **MATHEMATICS**

**4-HS credits required**

Math 6 Reg/H  
Math 7 reg/H  
PreAlgebra 7/8  
Algebra 1 Reg/H (required)  
Algebra 2 Reg/H (required)  
Geometry Reg/H (required)  
Math for College Algebra  
PreCalculus/Trig H  
AP PreCalculus/Trig  
AP Calculus  
DC College Algebra (IRCS)  
DC Elementary Statistics (IRCS)  
DC Trigonometry (SPC)

**MS/HS**

#### **SCIENCE**

**4-HS credits required**

Science 6 Reg/H  
Science 7 Reg/H  
Science 8 Reg/H  
Biology Reg/H (required)  
Physical Science  
Chemistry Reg/H (required)  
Marine Biology  
Anatomy & Physiology Reg/H  
AP Biology  
AP Physics I  
AP Physics II

**MS/HS**

#### **SOCIAL STUDIES**

**3.5-HS credits required**

History 6 Reg/H  
Geography 7 Reg/H  
History 8 Reg/H  
World History Reg/H  
US History Reg/H  
US Government and Economics (required)  
Personal Finance (required)  
AP Government and Politics and Macroeconomics  
AP Human Geography  
DC Personal Finance (IRCS)  
DC American National Government (IRCS or SPC)  
DC Introduction to Humanities (SPC)  
DC W. Humanities: Ancient to Renaissance (SPC)  
DC W. Humanities: Baroque to Contemporary (SPC)  
DC General Psychology (SPC)  
DC Introductory Sociology (SPC)  
DC Studies in Applied Ethics (SPC)

# MIDDLE/HIGH SCHOOL ELECTIVES

**HS**

## **ELECTIVES** 6.5-credits

### **Fine Art / 1-credit required**

Art  
Basic Percussions  
Concert Band  
Digital Arts  
Jazz Band  
Piano Lab  
Vocal Ensemble

### **Foreign Language / 2-consecutive years required**

Spanish 1  
Spanish 2  
Spanish 3 H  
Spanish 4 H

### **Technology / 1-credit required**

Business Systems Technology  
Yearbook (approval required)

### **Health/Physical Education / 1-credit**

PE .5 credit met by completing 2-consecutive  
years of same JV/Varsity sport or Marching Band

### **Other Courses / 1.5-credits required**

Fine Art (semester courses)  
Spanish 3 H  
Spanish 4 H  
Yearbook (2 years meets Fine Art credit)  
Weight Training  
Teacher / Office Assistant  
Study Hall (No Credit)

**HS**

## **DUAL CREDIT ELECTIVES**

.5-credit/one-semester courses

DC Introduction to Speech Communication (SPC)  
DC Public Speaking (SPC)  
DC Introduction to Philosophy (SPC)  
DC Introduction to Business (SPC)  
DC World Religion (SPC)

**MS**

## **ELECTIVES**

Art  
Choir  
Computer Science  
Digital Arts  
Drama  
Intermediate Band

***Complete Course Catalog can be found online at [ircs.org](http://ircs.org).***

# BIBLE

*All courses are a length of two semesters unless otherwise specified.*

**06**

## **6TH GRADE BIBLE**

The focus of this class is on building a foundation to understand the Bible. Students are challenged to implement it into their lives, as a standard for daily living. Salvation through faith in Jesus Christ is at the core of this foundation. The students learn to apply Biblical principles such Bible Study, Learning to Pray, Finding God's Will for Your Life, and The Holy Spirit. Bible memory and Bible reading are also important parts of daily class time.

**07**

## **7TH GRADE BIBLE**

This course is designed to enhance spiritual growth in the life of the middle school student by introducing the Word of God in the Old Testament. Taught as the story of God and his people, students will be able to understand who they are, where they come from, and what their lives are all about. This story begins with creation, the conflict of the fall into sin, and how God acted to save and restore his people to a right relationship with him and the world they inhabit.

**08**

## **8TH GRADE BIBLE**

This class is practical in design with New Testament survey of the Gospels and Early Church Age being the main focus. A study of the Pauline Epistles and Proverbs offer insight for life skills application. Daily quizzes, trivia games, lecture, Bible reading, memory verse work, daily journaling and open question & answer time encompass the various methods used to reinforce the coursework.

**09**

## **BIBLE I**

*9th Grade - 1 Credit*

The New Testament is explored, focusing on the Life of Christ, Acts, Hebrews, and the Letters of Paul. The first quarter is designed to help students relate to the culture of Bible times in order to close the gap between first century people and the 21st century. The second quarter is an in-depth study of the gospel of John focusing on the Life of Christ while supplementing Matthew, Mark and Luke to fill in the missing gaps of the ministry of Jesus. The third quarter surveys the transition into the Church age with the book of Acts while learning the life of the disciples. In the fourth quarter, students will follow Paul through his journeys and learn the issues the 1st century Church faced, while making it relevant to modern day.

# BIBLE

*All courses are a length of two semesters unless otherwise specified.*

**10**

## **BIBLE II**

*10th Grade - 1 Credit*

The students will engage in a study of the Book of Romans, the Book of Jonah, the Book of Judges, and an Old Testament study on the kingdom period of Israel. Through these studies, the students will gain a better understanding on the historical, doctrinal, and life application of God's Word. Students are encouraged to strengthen their faith in such a way that will bring praise, glory, and honor to the Lord Jesus Christ.

**11**

## **BIBLE III**

*11th Grade - 1 Credit*

Students are challenged to a more in-depth study of the scriptures. The major Bible doctrines are introduced in a systematic method (Theology, End Times, Angelology, and Bibliology) in order to build a foundation as to what authenticates our beliefs. A close study of the book of Genesis will give the student a better understanding as to the purpose of God's creation. The book of Revelation is studied to reveal God's final revelation from His Word. Using Song of Solomon and Ecclesiastes, Godly relationships are studied, as well as how to deal with life's problems from a Biblical worldview.

**12**

## **BIBLE IV**

*12th Grade - 1 Credit*

This class is practical in design with New Testament survey of the Gospels and Early Church Age being the main focus. A study of the Pauline Epistles and Proverbs offer insight for life skills application. Daily quizzes, trivia games, lecture, Bible reading, memory verse work, daily journaling and open question & answer time encompass the various methods used to reinforce the coursework.

**HS**

## **BIBLE APOLOGETICS ELECTIVE**

*9th-12th Grades - 1 Credit*

A study of Judaism will enlighten students of the culture and customs of the Jewish community while learning their modern-day practices and how it relates to early Jewish history. Students will learn to study the Bible using Hermeneutics in order to find the historical, culture, and language of Bible times. Students will put into practice these methods using various books of the Bible. Students will also do an Old Testament Survey to gap the time table between Old and New. Students will also be challenged using Psalms and Proverbs to help find solutions to everyday life.

# ENGLISH

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**06**

## **ENGLISH**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

This class encompasses the areas of grammar, composition, vocabulary, reading, and literature. Fifth grade grammar is reinforced with an emphasis on mastering the eight parts of speech. Writing skills development focuses both creatively and analytically on paragraph, essay, and research writing. Literature appreciation emphasizes both reading comprehension and critical thinking skills.

**07**

## **ENGLISH**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

This class encompasses the areas of grammar, composition, vocabulary, reading, and literature. More complex grammar skills are introduced while those from previous years are mastered. Writing skills development focuses both creatively and analytically on paragraph, essay, and research writing. Literature appreciation emphasizes both reading comprehension and critical thinking skills.

**08**

## **ENGLISH**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

This class encompasses the areas of grammar, composition, vocabulary, reading, and literature. Students will solidify basic knowledge related to the eight parts of speech as well as building and exploring higher level grammar skills. Students will increase their understanding of different genres of literature and enlarge their use of new vocabulary words. Students will employ the writing process while utilizing various modes of writing to include: descriptive, narrative, expository, and persuasive. In addition, students will incorporate standardized research writing, responsive listening, viewing, and speaking for a variety of purposes.

**09**

## **ENGLISH I & ENGLISH I HONORS**

*9th Grade - 1 Credit*

Students will explore a variety of literature genres, with class and personal reading a core component. Students will consistently have a number of vocabulary words to learn, and they will be encouraged to demonstrate proper use of these words in their structured and creative compositions. Grammar skills are emphasized, as well. Students in the honors section are challenged to develop their full potential through additional assignments and are held to a higher level of accountability in participation and grading. They are expected to be organized, motivated, creative, and academically sound in this field of study. The honors class earns .5 quality point per semester.

# ENGLISH

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

10

## ENGLISH II & ENGLISH II HONORS

*10th Grade - 1 Credit - Prerequisites: English I*

This course is intended to expose students to a variety of literature genres within the realm of American Literature. Students continue with building an extensive vocabulary base, through spelling words, structured compositions, and grammar skills. They will complete a research project. Students in the honors section are challenged to develop their full potential through additional assignments and are held to a higher level of accountability in participation and grading. They are expected to be organized, motivated, creative, and academically sound in this field of study. The honors class earns .5 quality point per semester.

11

## ENGLISH III & ENGLISH III HONORS

*11th Grade - 1 Credit - Prerequisites: English II*

As students enter a pivotal year for SAT and ACT testing, this course is intended to expose students to advanced, timed writing skills and reflective critical essays. Students read a variety of works within the realm of British Literature and are taught analysis strategies. Vocabulary builds to include challenging words, and advanced grammar skills are employed. Students in the honors section are challenged to develop their full potential through additional assignments and are held to a higher level of accountability in participation and grading. They are expected to be organized, motivated, creative, and academically sound in this field of study. The honors class earns .5 quality point per semester.

11

## AP LANGUAGE & COMPOSITION

*11th Grade - 1 Credit*

*Prerequisites: Current Teacher Recommendation, English II Honors Grade B or higher*

This class is taught as an introductory college English course, and the workload is typical of such. Students applying for inclusion in this course have successfully completed English II Honors and are entering their junior year. They must have excellent research and writing skills. The ability to work independently is expected, with emphasis given to elements of argument and composition in order to develop critical reading and writing skills. At the culmination of the year, students will take the AP English Language and Composition Exam given nationally in May. A grade of four or five on this exam is considered equivalent to a 3.3-4.0 for comparable courses at a college level. A student who earns a grade of three or above on the exam will be granted college credit at most colleges and universities throughout the United States. Moderate summer course work is expected. This AP course earns 1 quality point per semester.



# ENGLISH

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

12

## ENGLISH IV & ENGLISH IV HONORS

*12th Grade - 1 Credit - Prerequisites: English III*

As students prepare for post-secondary education, this course exposes students to a variety of literature genres within the realm of World Literature and intensive essay writing. Students demonstrate the foundational skills necessary at this level by constructing a research paper. Advanced vocabulary, cohesive thematic text, and correct grammar skills are expectations students meet through this project. Students in the honors section are challenged to develop their full potential through additional assignments and are held to a higher level of participation and grading. They are expected to be organized, motivated, creative, and academically sound in this field of study. The honors class earns .5 quality point per semester.

12

## AP LITERATURE & COMPOSITION

*12th Grade - 1 Credit*

*Prerequisites: Current Teacher Recommendation, English III Honors Grade B or higher*

This class is taught as an introductory college English course, and the workload is typical of such. Students applying for inclusion in this course have successfully completed English III Honors and are entering their senior year. They must have excellent research and writing skills. The ability to work independently is expected, with emphasis given to reading analysis. At the culmination of the year, students will take the AP English Literature and Composition Exam given nationally in May. A grade of four or five on this exam is considered equivalent to a 3.3-4.0 for comparable courses at a college level. A student who earns a grade of three or above on the exam will be granted college credit at most colleges and universities throughout the United States. Moderate summer coursework is expected. This AP course earns 1 quality point per semester.

12

## DC ENGLISH COMPOSITION I

*SPC Course ENC1101 - Semester I - 0.5 Credit*

*Prerequisites: Complete SPC Registration, English III Honors or AP Language Grade B or higher*

This course is designed to develop composition skills. It emphasizes the selection and restriction of topics; organization and development of the multi-paragraph essay; critical reading of texts; and practice in information retrieval from sources, including digital content. It also offers the student opportunities to improve proficiency with sentence structure, diction, and mechanics. Selected writing samples are examined as models of form and as sources of ideas for the student's own writing.

# ENGLISH

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

12

## **DC ENGLISH COMPOSITION II**

*SPC Course ENC1102 - Semester 2 - 0.5 Credit*

*Prerequisites: DC English Composition I Grade C or higher*

This course builds upon the skills developed in Composition I. It provides further instruction in the planning, organization, and writing of essays. It stresses methods of library research including information retrieval from electronic sources, and emphasizes writing of the research paper and the paper of literary interpretation. The reading includes selections from at least two forms of literature.

# MATH

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**06**

## **MATH**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

Mathematics 6 is a course designed to prepare the student for 7th grade math and pre-algebra. The students will learn operations with whole numbers, positive and negative integers, decimals, and fractions. Concepts on ratios, proportions and percents will be extended. Foundational topics of Math 8 | P a g e geometry, measurement, algebra, & scale and graph readings will also be introduced. Activities to challenge the student will include drills, contests, group activities and online tools along with Biblical principles taught in the Bible dealing with numbers.

**07**

## **MATH**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

Seventh grade math is a course designed to review, teach and prepare students for pre-algebra. The beginning of the course thoroughly reviews the math skills learned in the previous year such as operations on different types of numbers, which builds up into pre-algebra concepts such as percents, exponents, variables, equations, inequalities, and introductory geometry and graphing. Biblical principals are taught alongside the study of numbers.

**MS**

## **PRE-ALGEBRA**

*7th-8th Grades - 1 Credit  
Prerequisite: 7th grade math or recommendation from 6th grade math*

The students will explore the language of algebra, geometry, and other areas of mathematics in verbal, tabular, graphical, and symbolic form. Problem solving activities and applications encourage students to model patterns and relationships with variables and functions and to draw, measure, and classify geometric figures and their transformations.

**08  
09**

## **ALGEBRA I AND ALGEBRA I HONORS**

*8th-9th Grades - 1 Credit  
Prerequisite: Pre-Algebra*

The purpose of this course is to examine the basics of algebra in verbal, graphical, and symbolic forms. The emphasis of the class is focused on linear expressions, equations, and functions including vocabulary, problem solving skills, real-world application, and inductive and deductive reasoning. Projects and written assessments are also used to elaborate on classroom instruction. An introduction is given to quadratic expressions and equations, radical expressions, and trigonometry to scaffold each student in preparation for geometry. This honors class earns .5 quality point per semester.

# MATH

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**09**

## **ALGEBRA 1A**

*9th Grade - 1 Credit*

*Prerequisite: Intervention after Algebra 1*

The students will explore the language of algebra in verbal, tabular, graphical, and symbolic forms. They will work on problem-solving activities and applications to encourage them to model and learn about patterns and relationships with variables and functions. The most important concept the students will learn is how to work with variables in a variety of different expressions, equations, and functions. Data analysis and probability will be explored as well. They will be able to translate the content into real world problems and solve these problems using the methods and techniques of algebra.

**10**

## **ALGEBRA 1B**

*10th Grade - 1 Credit*

*Prerequisite: Intervention after Algebra 1*

The students will explore the language of algebra in verbal, tabular, graphical, and symbolic forms. They will work on problem-solving activities and applications to encourage them to model and learn about patterns and relationships with variables and functions. The most important concept the students will learn is how to work with variables in a variety of different expressions, equations, and functions. Data analysis and probability will be explored as well. They will be able to translate the content into real world problems and solve these problems using the methods and techniques of algebra.

**HS**

## **GEOMETRY AND GEOMETRY HONORS**

*9th-10th Grades - 1 Credit*

*Prerequisite: Algebra I*

The purpose of this course is to emphasize critical thinking involving the discovery of relationships and their proofs and skill in applying the deductive method to mathematical situations. Topics include, but are not limited to: logic and reasoning, the study of Euclidean geometry of lines, planes, angles, triangles, similarity, congruence, geometrical inequalities, polygons and circles, area and volume, and constructions. A project is assigned each marking period in the honors class. The honors class earns .5 quality point per semester.

# MATH

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**HS**

## **ALGEBRA 2 AND ALGEBRA 2 HONORS**

*9th, 10th, & 11th Grade - 1 Credit  
Prerequisite: Algebra 1*

The purpose of this course is to build on the mathematical foundation laid in Algebra 1 and geometry by examining the aspects of higher-degree polynomial expressions, equations, and functions. Graphing calculators are used to encourage a higher level of visual learning and comprehension. A deeper look into rational functions and radical expressions is given along with an introduction to logarithmic and exponential functions. Geometric application is utilized in conic sections and their systems of equations. The honors course also includes an examination of matrices and their applications and a deeper look into higher-degree polynomials and conic sections. A paper on each student's opinion on the need for quantitative literacy is also included. This honors class earns .5 quality points per semester.

**HS**

## **PRECALCULUS HONORS**

*11th-12th Grades - 0.5 Credit  
Prerequisite: A or B in Algebra 2, Geometry*

This course contains a review of concepts from algebra 2 with a focus on preparing students for a formal calculus course. Topics include functions such as linear and higher degree polynomials, rational, exponential, and logarithmic; systems of equations; matrices; sequences, series, and probability; conic sections; parametric equations and polar coordinates. Applications of these concepts are throughout the course and technology is an important resource with an emphasis on students improving their critical thinking skills. This honors class earns .5 quality point per semester.

**HS**

## **TRIGONOMETRY HONORS**

*11th-12th Grade - 0.5 Credit  
Prerequisite: A or B in Algebra 2, Geometry*

This course is a study of trigonometry with emphasis on circular functions. Topics include: trigonometric and circular functions, inverse trigonometric functions, identities, equations, solution of triangles, complex numbers, vectors, parametric equations, polar coordinates and applications. The course ends with introductory calculus concepts such as limits, derivatives and anti-derivatives. Applications of these concepts are throughout the course and technology is an important resource with an emphasis on students improving their critical thinking skills. This honors class earns .5 quality point per semester.

# MATH

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**HS**

## **ADVANCED PLACEMENT (AP) PRECALCULUS**

*11th-12th Grade - 1 Credit*

*Prerequisite: A or B in Algebra 2, Geometry*

AP Precalculus is for students who have already taken Algebra 2 and Geometry and want to challenge themselves at the next level while potentially earning college credit at the same time. In AP Precalculus, students will explore everyday situations using mathematical tools and lenses, build deep mastery of modeling and functions, and examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world. AP Precalculus prepares students for higher-level mathematics and science courses. The framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.

**HS**

## **ADVANCED PLACEMENT (AP) CALCULUS**

*11th-12th Grade - 1 Credit*

*Prerequisite: Trigonometry and Pre-calculus or AP PreCalculus*

This is an introductory calculus course. The topics include limits and continuity, the derivative of algebraic, trigonometric, logarithmic and exponential functions, implicit differentiation, applications of the derivative, differentials, indefinite and definite integrals, and applications of exponential functions. This AP course earns 1 quality point per semester.

**HS**

## **DUAL CREDIT (DC) COLLEGE ALGEBRA**

*SPC Course #MAC1105 - Semester - 0.5 Credit*

*Prerequisites: Complete SPC Registration, Battery of Test (i.e. PERT, PSAT, ACT, or SAT)*

Major topics include: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions and equations; systems of equations and inequalities; applications such as curve fitting, modeling, optimization, exponential and logarithmic growth and decay.

**HS**

## **DUAL CREDIT (DC) STATISTICS**

*SPC Course #STA2023 - Semester - 0.5 Credit*

*Prerequisites: Complete SPC Registration, Battery of Test (i.e. PERT, PSAT, ACT, or SAT)*

This course includes concepts taken from topics which include descriptive statistics, measures of central tendency and dispersion, probability, probability distributions, relative frequency distributions, sampling distributions, binomial distribution, normal distribution, the student's t distribution, the Chi-square distribution, estimation using confidence intervals, hypothesis testing, linear regression and correlation.

# SCIENCE

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**06**

## **GENERAL SCIENCE**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

Science 6 is a course designed to introduce the middle school student to the relationship of science and technology, earth's movements and processes, cellular structure and processes, and basic chemistry. The teacher will combine the use of texts, labs, games, notes, instructional media, and field trips with the Christian principles taught in the Bible. By the end of the course students will be able to identify major concepts and terms related to each individual discipline.

**07**

## **LIFE SCIENCE**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

Life Science is a course designed to review basic cellular processes, introduce the diversity of living things, and human biology. Students will learn how to investigate and report on all areas of life science. They will see God's design and purpose in life from the cellular level to the most complex of organisms. Students will learn all the major systems of the human body, and God's design and function in each system.

**08**

## **SCIENCE**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

Science 8 is a course designed to introduce students to astronomy, chemistry, and physics. Students will also be challenged to think critically and evaluate new information using the scientific method to complete a major group project. The teacher will combine the use of texts, labs, games, notes, instructional media, with the Christian principles taught in the Bible. By the end of the course students will be able to identify major concepts and terms related to each individual discipline.

# SCIENCE

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**HS**

## **BIOLOGY**

*9th-10th Grade - 1 Credit*

Course content encompasses interrelationships of living things, levels of biological organization, cellular biology, biochemistry, genetics, creation and evolution. All content is taught from a Biblical Worldview. This course includes laboratory work, projects, and a thorough understanding of scientific inquiry. Students should be prepared to conduct projects and write a formal lab report. Instruction centers around inquiry based and are incorporated into class activities. Students can expect to start each day with a Prime Time activity followed by a learning activity and/or lecture. Classes are structured to utilize every minute for learning and assessing understanding. Real world application is a daily objective. Higherlevel thinking will be incorporated into each lesson as well as use of technology when applicable to increase student achievement.

**HS**

## **BIOLOGY HONORS**

*9th-10th Grade - 1 Credit*

This honors level course covers an in depth foundation in biology, necessary for students interested in one day taking AP Biology. This course includes a formal science fair project during quarters 1-2, regular laboratory work, projects, and a thorough understanding of scientific inquiry. Course content encompasses interrelationships of living things, levels of biological organization, cellular biology, biochemistry, genetics, creation, and evolution. All content is taught from a Biblical Worldview. Students should be prepared to conduct projects and write a formal lab report. Learning activities include teacher-lead instruction, group work, student seatwork, project-based learning, and lab exercises with both student-choice and teacher-choice grouping. Students will often work independently from the teacher in order to achieve student autonomy expected of upper school students. Classes are structured to utilize every minute for learning and assessing understanding. Real world application is a daily objective. Higher-level thinking is incorporated into each lesson as well as use of technology when applicable to increase student achievement. Students are expected to review and study the content covered in class outside of school daily.



# SCIENCE

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**HS**

## **PHYSICAL SCIENCE**

*10th-12th Grade - 1 Credit*

Physical Science is designed to serve as a foundation for other high school courses, especially chemistry and physics. Physics units include Newton's 3 laws of motion, forces, scientific definitions of work and power, momentum, conservation and conversions of energy, relationships between electricity and magnetism, and wave phenomena and behavior (including characteristics and calculations) including electromagnetic and sound waves. Chemistry units include composition and classification of matter, history of atomic structure up to present day model, learning the periodic table to include, but not limited to: all chemical symbols, patterns, trends and isotopes, chemical bonding, compound naming, and chemical reactions.

**HS**

## **CHEMISTRY AND CHEMISTRY HONORS**

*10th-11th Grade - 1 Credit*

*Prerequisites: Biology and Algebra I*

Chemistry is a course designed to enable the students to use the scientific method to solve problems, to employ metric measurements and to demonstrate safe and effective use of laboratory instruments. Topics include states of matter, atomic structure, the periodic table, bonding, nomenclature, chemical reactions, chemical equations, quantitative relationships, gases, stoichiometry, oxidation, reduction, and branches in chemistry. The honors course is designed for the self-motivated, organized, creative, academically sound student. Students should have a serious attitude toward academic standards. High expectations and additional critical thinking assignments/projects are included. Students are required to complete a science research project during the year.

**HS**

## **MARINE BIOLOGY**

*11th-12th Grade - 1 Credit*

*Prerequisite: Biology*

The major emphasis of this course focuses on the biodiversity and classification of organisms in the marine environment, including the characteristics of each animal group. Discussion of major habitats in the marine environment will include physical characteristics of the environment and the unique symbiotic, physiological, ecological and behavioral characteristics of each organism to those specific marine habitats. Dissections are a part of this class and are required by all students.

# SCIENCE

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**HS**

## **HUMAN ANATOMY AND PHYSIOLOGY**

*11th-12th Grade - 1 Credit*

*Prerequisites: Biology*

This course emphasizes the importance of maintaining proper care of our bodies through nutrition and exercise. The course will cover many of the major body systems and explain how the systems interact and benefit from each other while working together to keep us functioning properly for everyday life. Possible dissection opportunities throughout the course.

**HS**

## **HUMAN ANATOMY & PHYSIOLOGY HONORS**

*11th-12th Grade - 1 Credit*

*Prerequisites: Biology*

This course is a fast-paced course that emphasizes the importance of maintaining proper care of our bodies through nutrition and exercise. The course will cover each of the major body systems and explain how the systems interact and benefit from each other while working together to keep us functioning properly for everyday life. Dissections are a part of this class and are required by all students.

**HS**

## **AP PHYSICS 1**

*11th-12th Grade - 1 Credit*

*Prerequisites: Chemistry and Algebra 2*

Advanced Placement Physics 1 is a rigorous course designed to be the equivalent of an entry level, algebra-based college physics course. It follows the standards and expectations as described in the College Board AP Physics 1 Course Description and covers all of the topics and themes outlined therein. This course cultivates and demands a high level of critical thinking often presenting problems as abstract relationships rather than concrete answers. This is a laboratory course, and students are expected to design data collection methods as well as use given data to analyze and find relationships that govern physical phenomena. The course is divided into ten units including kinematics, dynamics, 15 | P a g e rotational motion, energy, momentum, simple harmonic motion, waves, sound, charges, and circuits. All content is taught from a Biblical Worldview. Science fair project is required.

# SCIENCE

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

12

## AP PHYSICS 2

*12th Grade - 1 Credit*

*Prerequisite: AP Physics 1*

Advanced Placement Physics 2 is a rigorous course designed to be the equivalent of an entry level, algebra-based college physics course. It follows the standards and expectations as described in the College Board AP Physics 2 Course Description and covers all of the topics and themes outlined therein. This course cultivates and demands a high level of critical thinking often presenting problems as abstract relationships rather than concrete answers. This is a laboratory course, and students are expected to design data collection methods as well as use given data to analyze and find relationships that govern physical phenomena. The course is divided into seven units including fluids, thermodynamics, charges, circuits, magnetism, optics, quantum mechanics, atomic models, and nuclear physics. All content is taught from a Biblical Worldview. Science fair project is required.

HS

## AP BIOLOGY

*11th-12th Grade - 1 Credit*

*Prerequisites: Biology and Chemistry*

The Advanced Placement Biology is a rigorous course designed to be the equivalent of a two-semester first year college Biology course. It follows the standards and expectations as described in the College Board AP Biology Course Description and covers all of the topics and themes outlined therein. This is a laboratory course, and students are expected to use data to analyze and solve biological problems.

# SOCIAL STUDIES

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**06**

## **NORTH AMERICAN HISTORY**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

This course introduces students to Ancient Civilizations, starting at Creation and continuing into Medieval Times. Looking at the cultures, stories, and interesting people of the regions of Africa, Asia, Europe and the Americas gives keen insight into the lives of past humanity.

**07**

## **GEOGRAPHY**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

This course focuses both on physical and human geography, enlightening students of the physical features of the earth, as well as world cultures. A special focus is given to various countries, religions, demographics, cultures and economies. The need for Christ around the world and missions is emphasized.

**08**

## **AMERICAN HISTORY**

*Middle School Regular/ Advanced  
Requirement: Current Teacher Recommendation*

Middle School American History focuses on the founding of America to present day. The Biblical foundation of our country is emphasized while students study the problems and controversies unique to the United States. Character studies and Government issues are also explored.

**09**

## **WORLD HISTORY**

*Regular / Honors  
9th Grade - 1 Credit; Requirement: Current Teacher Recommendation*

Early civilizations of the Middle East up to the present day are studied. Students will gain an understanding of older civilizations by examining the past, to prepare for their future as members of a global community. They use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academic, civic, social, and employment settings. The work in honors is more challenging through discussion groups and intensive writing assignments and projects.

# SOCIAL STUDIES

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**10**

## **AMERICAN HISTORY**

*Regular / Honors*

*10th Grade - 1 Credit; Requirement: Current Teacher Recommendation*

Students will examine the course of American development through the framework of political, religious, cultural, economic, and military changes. Special aspects of this course involve the use of important American documents, written perspectives of various events, and other projects involving personal insights.

**HS**

## **AMERICAN GOVERNMENT**

*Semester I for 11th Grade - 0.5 Credit*

Events that led to the nation's unique founding are analyzed, as well as the democratic style of government that resulted. An overview of the spiritual heritage, coupled with the formation of our nation's greatest documents, give perspective to the exceptional development of our system of rule.

**HS**

## **ECONOMICS**

*Semesters II for 11th Grade - 0.5 Credit*

The purpose of this course is to survey the fundamentals of the science of Economics, including the movement of goods and services throughout domestic and international markets and its effect on individual, business, and governmental decisions of choice. Students learn to analyze charts, maps, and statistical tables to understand economic attitudes, as well as interpret stock market reports.

**HS**

## **WORLD CULTURAL GEOGRAPHY**

*12th Grade - 1 Credit*

Emphasis in this course is given to three main areas: physical, political and cultural geography of the world. Students are made aware of the diverse areas of the world and the cultures of each, in light of today's international happenings. Students learn the ways in which they are globally interconnected to others, and they will develop an understanding of the geographic and cultural reasons for events happening in the world that affect their lives.

# SOCIAL STUDIES

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**HS**

## **AP GOVERNMENT AND POLITICS**

*Semester I for 11th-12th Grade - 0.5 Credit*

The course is designed to teach students about the Constitution, American political system and the institutions, policies, concepts, roles and behaviors in the culture of America. Students will read and analyze the foundational documents, Supreme Court decisions and other visual or textual materials related to the American political system. The skills used will be data interpretation, evidence-based arguments, oral and written communication and project engagement. Advanced Placement US Government and Politics is a college level course designed to prepare the student to take the AP exam, administered by the College Board. For students who achieve a score of 3, 4, or 5 (depending on the university) universities grant either credit or advanced placement, or both, for taking a one-semester introductory college course in US Government and Politics.

**HS**

## **AP MACROECONOMICS**

*Semester II for 11th-12th Grade - 0.5 Credit*

AP Macroeconomics is an introductory college-level macroeconomics course. Students cultivate their understanding of the principles that apply to an economic system as a whole by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like economic measurements, markets, macroeconomic models, and macroeconomic policies.

**HS**

## **AP HUMAN GEOGRAPHY**

*11th-12th Grade - 1 Credit*

Students are introduced to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. Reading for comprehension and independent text analysis are foundational to success in this college-level course. Students are given a plethora of opportunities to practice Free Response questions, reinforce essay writing skills, and use maps and spatial data for understanding. They are exposed to evaluation methods including key term defining in context, world projects, class discussion quizzes, key issue sectional quizzes, and chapter multiple-choice and CRQ tests.

# SOCIAL STUDIES

*All courses are a length of two semesters unless otherwise specified. Honors and AP courses need teacher recommendation. Dual Credit courses need counselor recommendation.*

**HS**

## **DC GOVERNMENT AND POLITICS**

*Semester I for 11th-12th Grade - 0.5 Credit*

This course provides a comprehensive examination of the American political system. Through this course, students will become familiar with the theory, organization, principles, and function of the American national government and various elements within the political system that work to shape policy outcomes.

**HS**

## **PERSONAL FINANCE LITERACY**

*Semester - 0.5 Credit*

This course is a study of learning the ideas, concepts, knowledge, and skills that will enable students to implement beneficial personal decision-making choices to become wise, successful, and knowledgeable consumers, savers, investors, users of credit and money managers, and participating members of a global workforce and society. Basic economic concepts of scarcity, choice, opportunity cost, and cost/benefit analysis are interwoven throughout the standards and objectives. Emphasis will be placed on economic decision-making and real-life applications using real data.

**HS**

## **DC PERSONAL FINANCE LITERACY**

*SPC Course #FIN1100 - Semester - 0.5 Credit*

*Prerequisites: Complete SPC Registration, Battery of Test (i.e. PERT, PSAT, ACT, SAT)*

This course is a study of consumer buying practices, management of personal and family finance concepts including the American economic system, personal and family management of resources including income, money management, saving and investing, spending and credit, the role of financial institutions and the consumer, consumer information and taxation and financial planning. This content includes but is not limited to, consumer rights and responsibilities, record-keeping, decision-making and consumer choices, resource management, credit, taxation, wills, savings plans, investments, money management resources, insurance, and contracts.

# FOREIGN LANGUAGE

*All courses are a length of two semesters . Honors courses need teacher recommendation.*

**HS**

## **SPANISH 1**

*9th-11th Grade - 1 Credit*

This course initially employs the Total Physical Response (TPR) method to teach students vocabulary. Students learn core vocabulary through physical gestures. In Spanish I, students learn to read, write, comprehend, and speak Spanish at an elementary level using the present tense. Traditional grammar is introduced and practiced through our textbook Realidades I. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. Scripture is memorized quarterly.

**HS**

## **SPANISH 2**

*10th-12th Grade - 1 Credit*

Students learn more vocabulary and are encouraged to speak Spanish for everyday conversation in class. Traditional grammar continues to be introduced and practiced through our textbook Realidades I. Students are able to construct grammatically correct sentences and are introduced to past tense. Emphasis remains on the acquisition of four skills: listening, speaking, reading and limited writing. Scripture is memorized quarterly.

**HS**

## **SPANISH 3**

*11th-12th Grade - 1 Credit*

*Prerequisite: Spanish II with a minimum of a C*

Spanish III follows a more traditional method of teaching Spanish. Emphasis is placed on use and grammar. Throughout the third year, students develop skills using intermediate Spanish vocabulary and grammar structures by engaging in student-centered learning activities designed to meet world language standards. Grammar skills include a review of the present tense, the preterite tense, the imperfect tense and reflexive and reciprocal verbs. Quarterly projects expose students to Hispanic culture around the world.

**HS**

## **SPANISH 4**

*11th-12th Grade - 1 Credit*

*Prerequisite: Spanish III with a minimum of a C*

Spanish IV follows a more traditional method of teaching Spanish. Emphasis is placed on use and grammar. Throughout the fourth year, students develop skills using intermediate and more advanced Spanish vocabulary and grammar structures by engaging in student-centered learning activities designed to meet world language standards. Grammar skills include a review of the present, preterite and imperfect tenses, a review of reflexive and reciprocal verbs, the future tense, the conditional tense, the present perfect tense and the present subjunctive tense. Quarterly projects expose students to Hispanic culture around the world.



# TECHNOLOGY

*All courses are a length of two semesters unless otherwise specified.*

**MS**

## **COMPUTER SCIENCE**

*6th-8th Grades Semester Course*

This course offers an introduction to the basics of computing, computer science, and web development. The course uses interactive project-based lessons both on and off the computers to demonstrate how computers and computer communication function and to teach the problem-solving process. Students will then continue to use the problem-solving process to create and modify basic web pages. In the spring, This course offers an introduction to the basics of animations and gaming. The course uses interactive project-based lessons and the problem-solving process to show students how to create interactive art, animations, and basic games.

**HS**

## **BUSINESS SYSTEMS TECHNOLOGY I-II**

*Semester 1-2 for 9th-12th Grade - 1 Credit*

This course offers an introduction to the basics of computing, safety, and security concerns, especially related to the internet, Microsoft Windows 10, Microsoft Word and PowerPoint, and proper touch-typing techniques. Students will see practical examples of the computer as a useful tool in the work environment. Students will practice the proper procedures for creating and modifying documents and presentations. Real-world examples will be used to reinforce the relevance of the material presented. The second semester offers an introduction to Microsoft Excel, basic presentation principles, and proper touch-typing techniques. Students will see practical examples of the computer as a useful tool in the work environment. Students will practice the proper procedures for creating and modifying worksheets and presentations Students will practice basic speech and presentation delivery principles. Students will be expected to utilize and incorporate the information and procedures learned in Business Systems Technology I into their PowerPoint presentations. Real world examples will be used to reinforce the relevance of the material presented.

**HS**

## **YEARBOOK**

*9th-12th Grade - 1 Credit*

This course is an introduction to publication. Students will learn the rules for layout, design, and copy. Through the use of Adobe Page-Maker and Adobe Photo Shop, they will put these rules to use in the articles, stories, and layouts they will create. The goal is to produce a quality yearbook with a theme befitting a Christian school.

# ARTS AND FINE ARTS

*All courses are a length of one semester.*

**MS**

## **ART**

*6th-8th Grades Semester Course*

Students will explore the elements and principles of art using a variety of mediums. Students will learn how the visual arts impact our everyday lives, and they will develop an awareness of different cultural and historical periods. Students will learn how God created the desire to be creative in each of us and how His handiwork is woven through every area of art.

**MS**

## **DIGITAL ARTS**

*6th-8th Grades Semester Course*

This course is designed to introduce students to production of electronic media. Specifically, the student will learn video and audio recording, video postproduction with the Adobe Creative Cloud Suite, and the skills necessary for production of a live news broadcast. Students will be involved in pre-production, script, set, lighting, microphone, camera, camera support, directing, computer graphics, audio, music, switcher, recording, post production, editing, and web application.

**MS**

## **INTERMEDIATE BAND**

*6th-8th Grades Semester Course*

Students will build on musical concepts laid as a foundation in Beginning Band while increasing competency on a chosen instrument over the period of a school year. Students will continue to learn the importance of individual competency within the frame work of a group working together to achieve maximum quality. Students will be performing more challenging music while growing in abilities through performance assessments, field trips to professional performances, and other out of classroom experiences. This is a full year course.

**MS**

## **CHOIR**

*6th-8th Grades Semester Course*

This elective course is available to 6th - 8 th students interested in exploring the basic elements of choral singing. Students are encouraged to enjoy singing and use their God given abilities to glorify him while learning within a choral rehearsal setting. Evaluation is based on student participation in all performances and special events as set on the choir calendar throughout the school year.

# ARTS AND FINE ARTS

*All courses are a length of one semester.*

**MS**

## **DRAMA**

*6th-8th Grades Semester Course*

This interactive course focuses on the fundamentals of acting, with an emphasis on the development of imagination, improvisation, and the ability to perform on stage.

**HS**

## **ART**

*9th-12th Grades Semester Course - 0.5 Credits*

This course continues the exploration of art in both two dimensional and three-dimensional mediums. Students will learn the elements and principles of art while communicating their personal ideas through assigned projects. Students will integrate a Christian world view through their art. Students will have the opportunity to participate in art exhibitions and field trips throughout the semester.

**HS**

## **DIGITAL ART**

*9th-12th Grades Semester Course - 0.5 Credits*

This course is designed to introduce students to production of electronic media. Specifically, the student will learn video and audio recording, video postproduction with the Adobe Creative Cloud Suite, and the skills necessary for production of a live news broadcast. Students will be involved in pre-production, script, set, lighting, microphone, camera, camera support, directing, computer graphics, audio, music, switcher, recording, post production, editing, and web application.

**HS**

## **CONCERT BAND**

*9th-12th Grades Semester Course - 0.5 Credits*

Students will continue to build on past experience from instrumental instruction and refine their abilities by performing even more challenging music in concerts, assessments, competitions, field trips and solo and ensemble events. Students are exposed to many styles and genres of music in order to enhance their understanding of and ability to play music.

# ARTS AND FINE ARTS

*All courses are a length of one semester.*

**HS**

## **CHOIR**

*9th-12th Grades Semester Course - 0.5 Credits*

This elective is available to 9th -12th grade students desiring to excel vocally in a rehearsal setting while bringing praise to God using our talents and abilities for Him. Student performances are required throughout the school year as well as participation in the Florida Vocal Association and Association of Christian Schools International choral festivals.

**HS**

## **PIANO LAB**

*9th-12th Grades Semester Course - 0.5 Credits*

This elective is offered to high school students desiring to develop their piano skill at a beginning level or for students desiring to independently work at a more advanced skill level. Students are evaluated by their weekly progress. Piano lab may be selected each semester.

# PERSONAL FITNESS/HEALTH

*All courses are a length of two semesters unless otherwise specified.*

**MS**

## **PHYSICAL EDUCATION**

*6th-8th Grades*

Middle school students will apply movement, concepts, and principles to the learning and development of motor skills. Students will understand that regular participation in physical activity provides a component of personal fitness and wellness.

**HS**

## **PERSONAL FITNESS**

*9th-12th Grades Semester Course - 0.5 Credits*

The goal of Personal fitness is to equip the students with the knowledge and skills of participating in cardio endurance, muscular strength and flexibility activities. The main focus is to incorporate a healthy lifestyle with Godly concepts. \*Class of 2026: Personal Fitness can be satisfied by participating in the same Varsity/JV sport two-consecutive years during High School.

**HS**

## **HEALTH**

*9th-12th Grades Semester Course - 0.5 Credits*

This course is designed to challenge each student to understand the importance of living a healthy lifestyle. Students will survey the components of living a well-balanced life spiritually, physically, mentally, emotionally and socially. Current views will be examined and compared to the Christian world view as is taught in the Bible. The students will be able to analyze and improve their health in these areas and learn the importance of being involved in helping the community to achieve total health.

**HS**

## **WEIGHT TRAINING**

*9th-12th Grades Semester Course - 0.5 Credits*

The students will develop their strength index and gain an understanding of the physiological principles which are incorporated in a weight training program



**IndianRocks**  
CHRISTIAN SCHOOL

## MISSION STATEMENT

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The mission of Indian Rocks Christian School is to lead every student to a saving knowledge of Jesus Christ while providing the highest quality Christian education in an environment of genuine love and concern for each student and parent.