

Brevard HEAT Academics
Course Information
Fall 2010

Rev. 7/8/10

In this document, the courses are grouped first according to duration (year-long vs. semester) and second according to the day of the week on which they occur (Tuesday and Wednesday classes, Tuesday classes, and Wednesday classes).

Please do not purchase curriculum for any class until you are notified that the class has met the minimum number of students required by the teacher in order to teach the class.

YEAR-LONG CLASSES

The following group of classes are year-long in duration. When you enroll your student(s) in one of these classes, please understand that you are making a commitment for your student(s) to be enrolled in the class for the entire year and to pay the tuition listed for both fall and spring semesters. Please keep this in mind if your student(s) also takes classes at BCC as their BCC class schedule will change for the spring semester but their HEAT Academics class schedule will not change if they are enrolled in year-long classes.

TUESDAY & WEDNESDAY (2-DAY) YEAR-LONG CLASSES:

ALGEBRA II

Joanne Barnhart
9th - 12th grades
Tuesday & Wednesday 10:00 - 11:00
Year-long course
Tuition: \$100 / student / semester
Additional fees: \$12 matls fee / student - pay at registration
Prerequisites: Successful completion of Algebra I
Supplies needed:
3rd Edition, Saxon Math Algebra 2 Text
3rd Edition, Saxon Solutions Manual
3rd Edition, Saxon Homeschool Testing Booklet
Scientific Calculator
Straightedge ruler
Protractor

Description: This Algebra 2 curriculum covers all topics that are traditionally covered in 2nd-year high school Algebra as well as a considerable amount of Geometry. Saxon integrates Geometry into Algebra 1, Algebra 2, and Advanced Math (which is a precalculus course). Students who have not had Saxon Math will probably not have any difficulty with the Geometry, since it is rather elementary and will be reviewed again and again. Real-world problems are included along with applications to physics and chemistry. Although Saxon recommends that 80% of the book be completed, the actual amount of material covered will be determined by the pace appropriate for the students and the effort they are willing to exert. As the parent, you will be determining much of the outcome. I will generally teach the lesson, do sample problems, go over questions the students have on homework and send home tests (about every 2 weeks). I would like the parent to grade the tests, marking only the incorrect problems. I will look at them to give partial credit where possible. We will attempt to do 3 ½ lessons per week.

CHEMISTRY

Joanne Barnhart
10th - 12th grades
Tuesday & Wednesday 9:00 - 10:00
Year-long course
Tuition: \$100 / student / semester
Additional fees: \$50 lab fee / student - pay at registration
Prerequisites: Successful completion of Algebra I
Supplies needed:
BJU *Chemistry for Christian Schools* (2nd ed.) student textbook
Scientific Calculator with exponential notation & logarithms
Graph paper
Duo-tang folder for insertion of lab matls

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Description: This is a college preparatory course in general chemistry. The student will study the order that our Creator has placed in the natural laws of the universe in relation to the structure of matter and the energy changes associated with matter. The student will learn the structure of the atom, the bonding of atoms to create molecules and compounds, and the interactions of atoms and compounds to form new kinds of matter. Students will write formulas and equations representing the changes in matter and will perform mathematical calculations relating to these changes. In the laboratory the student will observe physical and chemical changes and will calculate the quantities of materials interacting, observing the law of conservation of matter. Safety in the laboratory will be of primary concern in all laboratory activities. I will provide lab information, study guides, and testing materials.

PHYSICS

Ric Daly
9th - 12th grades
Tuesday & Wednesday 10:30 - 12:00
Year-long course
Tuition: \$100 / student / semester
Additional fees: \$20 supply fee / student - pay at registration
Supplies needed:
Apologia Exploring Creation with Physics (2nd ed.)

Description: This course will cover principles of physics, including: Newton's Laws of Motion; acceleration of gravity/universal gravitation; speed, velocity, and acceleration; momentum and inertia; orbital motion; forces; work, power, and simple machines; vectors; states of matter; nature of light; and electric energy/series and parallel circuits. The format of the class will consist of lecture/discussion and demonstrations, utilizing hands-on lab activities where possible.

TUESDAY YEAR-LONG CLASSES:

BIOLOGY

Joanne Barnhart
9th – 12th grades
Tuesday 11:00 – 12:30
Year-long course
Tuition: \$ 100 / student / semester
Additional fees: \$ 40 lab fee / student – pay at registration
Supplies needed:
BJU Biology for Christian Schools 3rd Edition

Description: This is a general biology course with some laboratory. It includes an introduction to biology, a study of the chemistry of living systems and of the processes of life (such as metabolism, energy flow, and photosynthesis; components of the cell and their functions; and mechanisms of heredity). Students learn about systems of classification as well as characteristics of common living organisms in major groups. All these are studied with reference to God as Creator and Designer.

BRITISH LITERATURE

Diane Welch
10th – 12th grades
Tuesday 10:30 – 12:00
Year-long course
Tuition: \$ 35 / student / semester
Supplies needed:
The Mentor Book of Major British Poets

Description: We will begin with an overview of British Literature and then concentrate on major poets of the romantic, Victorian, and modern periods, and read five novels from these periods: *Frankenstein*, *Pride and Prejudice*, *A Tale of Two Cities*, *The Time Machine*, and *Animal Farm*. We will finish the year with an introduction to Shakespeare and a closer look at *A Midsummer Night's Dream*, including an optional trip to Orlando Shakespeare to see a performance of this play. All you will need

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to purchase is *The Mentor Book of Major British Poets*. The novels can be purchased or checked out of the library if they are not already on your shelf. Please bring paper and pen to class as you will be expected to take notes.

CHARACTER FIRST – THE SECOND YEAR

Deborah Solid
4th – 7th grades
Tuesday 12:30 – 1:30
Year-long course
Tuition: \$ 35 / student / semester
Additional fees: \$ 3 matls fee / student – pay at registration
Supplies needed: *None*

Description: Responsibility, patience, initiative, self-control, punctuality, resourcefulness, discretion, creativity, and tolerance are the nine character qualities that will be taught in Character First – The Second Year. Each character quality will include the study of an animal in nature as well as a person in history who demonstrates the quality. Students will be challenged to adopt five “I will” statements of each quality as they purpose to develop the character quality in their life. Games, crafts, and object lessons are used to enhance the teaching of each character quality.

CREATIVE WRITING

Sarah Dugan
6th – 8th grades
Tuesday 9:00 – 10:00
Year-long course
Tuition: \$ 75 / student / semester
Supplies needed:
Binder or folder for assignments and note-taking

Description: This class teaches the basics of creative story writing, including plot, character development, conflict, and vivid descriptions. Students will learn to write fiction and non-fiction by conveying human experience in weekly writing assignments and through lecture. Each assignment will receive detailed feedback and suggestions for improvement, and will be graded based on creativity and execution of the assignment. Notetaking and tests are part of this course, and students will submit completed stories to a writing contest at the end of the year.

CREATIVE WRITING

Sarah Dugan
9th – Adult grades
Tuesday 10:00 – 11:00
Year-long course
Tuition: \$ 100 / student / semester
Supplies needed:
Binder or folder for assignments and note-taking

Description: Students in this class will learn how to convey human experience and emotion through creative fiction and non-fiction writing. This class is discussion-based, but includes analysis of conflict, characterization, plot, and vivid description. Notetaking and lecture are part of this course, and students will be required to complete weekly writing assignments and occasional tests. Assignments must be typed and proofread and will be graded based on creativity and execution of the assignment. Students will submit completed stories to a writing contest at the end of the year.

EARTH SCIENCE

Ric Daly
7th – 12th grades
Tuesday 9:00 – 10:30
Year-long course
Tuition: \$ 85 / student / semester
Additional fees: \$ 40 supply fee / student – pay at registration

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Supplies needed: *None*

Description: Earth Science will examine earth processes, including: Earth's Structure (Earth's size & shape, rock cycle, geologic features); Destructive Processes (weathering & erosion, glaciation); Constructive Processes (plate tectonics, earthquakes & volcanism); Oceans (properties of sea water, sea floor structures, currents); Earth in Space (stars & galaxies, Earth's motions); Earth's Atmosphere (composition & structure, air masses & fronts, tropical systems); Earth's History (geologic time). This course will cover our present understanding and general interpretations of the processes that shape and maintain the Earth as a unique part of our universe. While we will study accepted theories, these concepts will be presented from a Christian perspective and will aid students in seeing coexistence of Biblical and secular perceptions, such as looking at the earth with a 4.5 billion year history, but recognizing God as the Creator and Maintainer of it all. *Colossians 1:16-17*

INTRO TO ECONOMICS

Amy Nagawiecki

6th – 8th grades

Tuesday 11:00 – 12:00

Year-long course

Tuition: \$ 35 / student / semester

Additional fees: \$ 10 matls fee / student – pay at registration

Supplies needed:

Whatever Happened to Penny Candy? by Richard Maybury

Description: Topics such as: money (its origin and history), the dollar (its origin and history), the law of supply and demand, the business cycle, specialization of labor, inflation, recession, depression, foreign currencies, and government (its economic behavior) will be studied. Through class discussion, comprehension exercises, and application activities, students will begin to understand the importance of economics in our everyday lives. Expect some homework in this class.

LEADERSHIP TECHNIQUES

Pastor Shannon England

9th – 12th grades

Tuesday 12:30 – 1:30

Year-long course

Tuition: \$ 25 / student / semester

Additional fees: \$ 7 matls fee / student – pay at registration

Prerequisites: Read *Do Hard Things* by Alex & Brett Harris

Supplies needed:

3-ring binder

Pocket calendar or electronic organizer (ipod, phone, etc.)

Bible

Pen or pencil

Paper

Description: Designed to equip students to influence others and make a difference in the world we live in. We will dig deep into God's Word and discover fundamental elements of strong leadership, moral courage, selflessness, honesty, dependability, enthusiasm, initiative, preparation, and endurance. The students will demonstrate: (1) an advanced understanding of leadership, (2) decision making, (3) leading meetings, (4) communication (written and verbal), (5) time management, (6) conflicts, (7) planning, goal setting, and strategizing, and (8) team building and motivation.

SPANISH I

Michelle Clough

8th – 12th grades

Tuesday 9:00 – 11:00

Year-long course

Tuition: \$ 80 / student / semester

Supplies needed:

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ABeka *Por Todo el Mundo Spanish I* Books A & B
ABeka *Spanish I* Vocabulary Book
ABeka *Spanish I* Test Booklet

Description: Meets high school requirements for a foreign language. Since Spanish is the second most popular language in the world, learn how to speak the language.

WEDNESDAY YEAR-LONG CLASSES:

ADVANCED WATERCOLOR

Dan Wukits
4th – 12th grades
Wednesday 12:30 – 1:30
Year-long course
Tuition: \$ 70 / student / semester
Supplies needed:
Masonite board 16" x 20"
1-inch chisel brush
Water container
1 Fine Liner
Masking tape 1" width
Tube water colors

AMERICAN GOVERNMENT & U.S. CONSTITUTION

Liz L'Allier
9th – 12th grades
Wednesday 9:00 – 10:30
Year-long course
Tuition: \$ 45 / student / semester
Additional fees: \$12 matls fee / student for textbook – pay at registration
Supplies needed: *None*

Description: Have you ever read a book which literally changed the course of your thinking and your life? That is the nature of this course which uses *The 5,000-Year Leap* as the text. It is a study of the United States Constitution from a principle-based approach. In short, your student will learn where the Founding Fathers got their ideas for sound government and how a return to these ideas *can solve our nation's problems today*. Your student will gain a working knowledge of the **only** correct and proven political, economic, and social principles for freedom, prosperity, and peace. In short, this course studies the principles that every civilization **must** follow in order to become (or *remain*) a free people. These principles provide positive answers to nearly every problem now confronting our nation. Can any other knowledge be more helpful to the rising generation in America today? America desperately needs better and stronger leaders. We need leaders who know correct answers and will step forward and make a positive difference in this world.

Students will read assigned chapters weekly, listen to DVD lectures in class, participate in class discussion, memorize the 28 Principles of Liberty, and keep a notebook of current events and how they relate to each principle. Quizzes and exams will be included as well.

BEGINNING WATERCOLOR

Dan Wukits
4th – 12th grades
Wednesday 11:00 – 12:00
Year-long course
Tuition: \$ 70 / student / semester
Supplies needed:
Masonite board 16" x 20"

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1-inch chisel brush
Water container
1 Fine Liner
Masking tape 1" width
Tube water colors

BIOLOGY

Joanne Barnhart
9th – 12th grades
Wednesday 11:00 – 12:30
Year-long course
Tuition: \$ 100 / student / semester
Additional fees: \$ 40 lab fee / student – pay at registration
Supplies needed:
BJU *Biology for Christian Schools* 3rd Edition

Description: This is a general biology course with some laboratory. It includes an introduction to biology, a study of the chemistry of living systems and of the processes of life (such as metabolism, energy flow, and photosynthesis; components of the cell and their functions; and mechanisms of heredity). Students learn about systems of classification as well as characteristics of common living organisms in major groups. All these are studied with reference to God as Creator and Designer.

BUILDING ON THE ROCK – BIBLICAL CHRISTIAN WORLDVIEW FOR ELEMENTARY STUDENTS

Deborah Solid
4th – 7th grades
Wednesday 9:00 – 10:00
Year-long course
Tuition: \$ 35 / student / semester
Additional fees: \$15 matls fee / student for workbook – pay at registration
Supplies needed: *None*

Description: This course will teach students how to think Biblically by teaching them to apply the timeless truths of God's Word to our 21st-century living. They will learn to articulate and apply the Biblical worldview in their daily lives. The curriculum is called *Building on the Rock* and was developed by Summit Ministries. It is currently being taught in Christian schools throughout our nation. (I met several elementary teachers who teach this course and they all said it is their students' favorite class!)

CREATIVE WRITING I

Lisa Cannon
7th – 12th grades
Wednesday 9:00 – 10:00
Year-long course
Tuition: \$ 35 / student / semester
Additional fees: \$ 15 matls fee / student for book – pay at registration
Supplies needed: *None*

Description: This course is designed to instruct students how to take their thoughts out of their minds and properly transfer them to paper through stimulating creative thinking, introducing "writing tools of embellishment", and reviewing practical rules of English Grammar. Some of the projects produced through this class will be original fictions, persuasive essays, autobiographies, book reviews, and critiques. The final class project will be binding a collection of the students' writings into a hardbound, class book.

ELEMENTARY SPANISH

Michelle Clough
4th – 7th grades
Wednesday 9:00 – 10:00

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Year-long course
Tuition: \$ 40 / student / semester
Additional fees: \$ 10 matls fee / student – pay at registration
Supplies needed:
3-ring binder

ENGLISH GRAMMAR

Lisa Cannon
7th – 12th grades
Wednesday 12:30 – 1:30
Year-long course
Tuition: \$ 35 / student / semester
Additional fees: \$ 15 matls fee / student for book – pay at registration
Supplies needed: *None*

Description: This course will present a variety of teaching methods in covering topics such as parts of speech, parts of a sentence, diagramming, and vocabulary. (This class can fulfill the requirements of an English credit.)

FLORIDA & ITS HISTORY

Amy Nagawiecki
4th – 7th grades
Wednesday 11:00 – 12:00
Year-long course
Tuition: \$ 35 / student / semester
Additional fees: \$ 10 matls fee / student – pay at registration
Supplies needed:
From Sea to Shining Sea: Florida by Barbara A. Somervill 978-0-531-18802-6

Description: A thorough look at Florida will take place in this course. We'll not only study the events that have occurred over the centuries on the soil of Florida, we'll also learn about the geography, topography, climate, industries, famous people, and places of Florida. Over the course of the year, students will need to read at home, either *Strawberry Girl* by Lois Lenski or *The Yearling* by Marjorie Kinnan Rawlings to help enrich their study. At home, they will also work on a project to bring to class for the book they've read. There will be some homework but no grades will be given. If time permits, we may go on a few field trips outside of class to discover some of the places we're studying.

ICC/CFC CHAPTER

Liz L'Allier
5th – 12th grades
Wednesday 12:30 – 2:00
Year-long course
Tuition: \$ 45 / student / semester
Additional fees: \$ 40 / student – pay at registration (This fee includes: 1. Chapter enrollment, 2. Membership fee (annual), 3. Young Speakers Guild – Phase I curriculum, 4. Notebook)
Supplies needed: *None*

Description: The Institute for Cultural Communicators (ICC) believes that every individual has a platform: causes, needs, and issues that are near to their heart. By joining an ICC Chapter, you can improve your communication skills and make an indelible impact in your community, with help from other like-minded youth. Chapters give students a purpose for speaking, and due to this motivation, ICC Chapters have accomplished amazing things. Supervised and facilitated by an adult Sponsor, students will be prepared for special events and opportunities. Our Chapter will be promoted in the community for many kinds of events and speakers will create programs individually and/or together to present to community organizations. Students will discover their sphere of influence broadening and communities will discover that our youth have a message to share through delighting, informing, and persuading audiences of all ages.

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INTRO TO ANATOMY & PHYSIOLOGY

Vicki Easterling and Joy Majewski
10th – 12th grades
Wednesday 10:30 – 12:00
Year-long course
Tuition: \$ 55 / student / semester
Additional fees: \$ 15 matls fee / student – pay at registration
Supplies needed:
Anatomy coloring book TBD (Estimate \$20 - \$25 cost)
Notebook

Description: This course will cover the cardiovascular system, respiratory system, nervous system, digestive system, endocrine system, urinary system, and musculoskeletal system. We are offering this course to those students who are looking for an alternative to Chemistry or Physics, but still need science. The students will watch a video published by The Great Courses in class, have discussion, work on their anatomy coloring books, and then be given topics to research for homework. This class should appeal to students who need an alternative to the traditional textbook method. There will also be some “hands-on” labs that are done in class. It will be up to the parent to determine if this class meets their requirements as a high school level science class. Supplementary work given by the parent could stretch the number of hours required.

PHYSICAL SCIENCE

Joy Majewski
7th – 8th grades
Wednesday 12:30 – 1:30
Year-long course
Tuition: \$30 / student / semester
Additional fees: \$35 supply fee / student – pay at registration
Supplies needed:
Apologia Exploring Creation through Physical Science

Description: We will follow the textbook for this course. We will do experiments in class as well as discussion of the material. Assignments will include the questions and study guides in the book and some reports. Some at-home experiments may be assigned. Parents may choose to do their own grading or have me do it for them.

SAT VERBAL PREP

Lisa Cannon
7th – 12th grades
Wednesday 11:00 – 12:00
Year-long course
Tuition: \$ 35 / student / semester
Additional fees: \$ 15 matls fee / student for book – pay at registration
Supplies needed: *None*

Description: This class is designed to prepare a student for taking the verbal section of the SAT. Included in the course will be lessons on vocabulary, SAT Essays, SATE Sentence Errors, and Critical Reading. (This class can fulfill the requirements of an English credit.)

SEMESTER CLASSES

TUESDAY SEMESTER CLASSES:

BEGINNING/INTERMEDIATE GROUP GUITAR

Sarah Dugan
7th – 12th grades

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Tuesday 11:00 – 12:00

Semester course

Tuition: \$ 50 / student for the semester

Supplies needed:

Use of a guitar to bring to class each week

Folder for music and handouts

Electronic guitar tuner (around \$10 - \$30)

Description: This class is an introductory and continuation course for learning guitar. Beginning students will learn how to form basic chords and strumming patterns, while intermediate students will expand on previous knowledge. This class is NOT intended for advanced or experienced guitarists. Students will learn a group song and a song of their choice to be performed at the end of the semester. Practicing at home for at least one hour each week is required. Grades are based on practice, participation, and final performance.

COLLEGE PREP: RESEARCH WRITING

Sarah Dugan

11th – 12th grades

Tuesday 12:30 – 1:30

Semester course

Tuition: \$ 80 / student for the semester

Supplies needed:

MLA Handbook

TBD

Description: Research Writing is a college prep course designed to teach students how to organize and write a research paper. This class will cover researching, bibliography, citation, and the writing process. Students will be graded on their ability to complete research exercises and write their own research paper. This class is for serious students only.

PERSONAL FINANCE

Amy Nagawiecki

9th – 12th grades

Tuesday 12:30 – 2:00

Semester course

Tuition: \$ 35 / student for the semester

Supplies needed:

Foundations in Personal Finance (School Curriculum) Student Workbook ISBN: 978-0-9816839-1-1

Description: This course is a DVD series starring none other than Dave Ramsey himself. It is geared specifically toward high school students. The course covers the following topics: Savings, Investment Options, Wealth Building and College Savings, Dangers of Debt, Consumer Awareness, Credit Bureaus and Collection Practices, Budgeting 101, Bargain Shopping, Relating with Money, Career Choices and Taxes, Ins and Outs of Insurance, and Real Estate and Mortgages. Each week will consist of watching Dave's instruction via DVD, as well as participating in classroom activities and discussions. This is one of the most important classes your student(s) will ever take as it will teach them how to handle their money, teach them how to stay debt-free, and motivate them to do so!! Through this course, Dave will be sure to have your student well on their way to financial peace.

SAT MATH PREP

Pam DeRuiter

10th – 12th grades

Tuesday 9:00 – 10:00

Semester course

Prerequisites: Algebra I and Geometry

Tuition: \$ 30 / student for the semester

Additional fees: \$ 20 matls fee / student for the text – pay at registration

Supplies needed:

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3-ring Notebook or Duotang
Notebook paper

Description: This course is NOT a crash course in high school mathematics. The instructor will facilitate a review of previously learned math concepts as students work through the math portions of the SAT review book in preparation for taking the SAT or ACT tests.

WEDNESDAY SEMESTER CLASSES:

INTRODUCTION TO COMPUTER TECHNOLOGY

Ann Ramsaran / Justin Ramsaran
6th – 9th grades
Wednesday 10:00 – 11:00
Semester course
Tuition: \$ 25 / student for the semester
Supplies needed:

IF the student has a laptop, it is requested they bring it to class

Description: Students will learn full knowledge on: (1) Powerpoint – create and use, (2) Microsoft Word – create and use, (3) Excel – create and use, (4) Basic PC repair, (5) Understanding PC hardware, (6) Understanding PC software, (7) How PC hardware/software works together.

LIFE SKILLS

Vicki Easterling
10th – 12th grades
Wednesday 12:30 – 1:30
Semester course
Tuition: \$ 40 / student for the semester
Additional fees: \$ 10 matls fee / student – pay at registration
Supplies needed:

Life Prep for Homeschooled Teenagers by Barbara Frank
3-ring Binder for homework and handouts

Description: This class will cover the following topics: how to get organized, grocery shopping and meal planning, renting your first apartment, the cost of utilities in the home, how to budget, learning about the wise use of credit cards and avoiding the dangers, and how to make wise financial decisions as a young adult. Many of the assignments are “hands-on” and will benefit the moms!

MAKE-A-BOOK WORKSHOP

Lisa Cannon
4th – Adult grades
Wednesday 10:00 – 11:00
Semester course
Tuition: \$35 / student for the semester
Additional fees: \$ 15 matls fee / student for book – pay at registration
Supplies needed: *None*

Description: This course is designed as a workshop in which each student will be accountable to keep a weekly writing schedule in order to finish a complete written, and illustrated, piece that will be bound into their own, hard-bound book.