

## The Attic Learning Community

**High School 2 (~Ages 16-18)****Course Descriptions 2008-09***Schedule, Course Descriptions, Required and Optional Texts***Schedule Overview**

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>
9:00-10:00	Science: Two options	Walkabout	Science: Two options
10:05-11:05	Persuasive Writing	Persuasive Writing	Persuasive Writing
11:15-12:25	Math	Math	Math
12:25-1:00	Lunch	Lunch	Lunch
1:00-2:10	History	History	Electives
2:15-3:15	Foreign Language	Foreign Language	Foreign Language

**Course Descriptions****Science****Human Anatomy and Physiology****M, W, 9:00-10:00**

HS1 and HS2

Instructor – Liz Hunter

**Prerequisites:** Previous biology desirable, but not necessary.

This class will study the structure and function of the human body through reading and writing, class discussion, small group projects, presentations, and labs. Topics covered will include cells and tissues, skin and body membranes, the skeletal system, the muscular system, the nervous system, the endocrine system, the cardiovascular system, the lymphatic system, the respiratory system, the digestive system, the urinary system, and the reproductive system. The class will culminate with a fetal pig dissection.

This class will support entry into the Student Biotech Expo in the spring.

**Required Materials:** Lab fee -- \$40**Required Text:***Essentials Of Human Anatomy & Physiology: 8<sup>th</sup> edition (Paperback)*

Author: Elaine Marieb

Please come to the first class with textbook in hand. It can be ordered used from Amazon (49 used from \$61.00). To order a copy from Amazon, type in "0805373284" into the search engine of Amazon. There are 35 used copies available from \$34.

Please bring a composition quadrille notebook to class the first day. These can be purchased from Office Max or Rite Aide, or anywhere that sells office supplies.

**Human Anatomy and Physiology – Advanced****M, W, 9:00-10:00**

HS1 and HS2

Instructor – Liz Hunter

Advanced option prerequisites: Previous coursework in human anatomy and physiology, or solid background in biology, and desire to work at level described below.

This class will integrate with the above class, will use the same textbook as listed above, and has the same course

description and lab fee. Students choosing this option will be expected to work at a deeper, higher level, and will be expected to participate in the Student Biotech Expo in the spring (classwork will support this.) Please bring in any other textbooks you have on human anatomy and physiology, to use as an additional class resource.

### **Geology of the Northwest**

**M, W, 9:00-10:00**

HS1 and HS2

Instructor: Micheala Ranz

What was Washington State like before the last ice age, before humans, before Mt. Rainier dominated our landscape? While today's climate is temperate, Washington State has seen much warmer and much colder periods throughout its history. Massive glaciers carved out the topography we see today. Volcanoes and earthquakes are, and always have been, a driving force in the formation of our region. Beginning with the basics of Plate Tectonics and the theory of Continental Drift, we will discover the chronological story of our beloved state from beginning to end. From explosive volcanoes to ancient tsunamis, we will attempt to uncover the complex history of the Northwest through the geological record. On several occasions, the class will venture out into the field to conduct its own face-to-face investigations of the area.

**Required Text:** TBD

## **English**

### **Persuasive Writing**

**M, T, W, 10:05-11:05**

HS2

Instructor: Lee Rottweiler

This course will focus on building and refining our ability to think and write logically. It will begin with a general exploration of logic - basic principles, common logical fallacies, and construction of sound arguments. Socrates and the Socratic method will also be examined to further our understanding and enhance our logical thinking skills. We'll then apply our understanding to arguments found in print and visual media, analyzing speeches and essays in an effort to identify their strengths and weaknesses. As our understanding of logic grows, we'll begin constructing our own persuasive essays, articles, letters, and stories. We'll also have lots of opportunities for debate, guest speakers and instructors, letters to editors of local newspapers, letters to state and national politicians, etc.

**Note:** Wednesdays will be a little different. In the fall, Brandon will join us for "Intro to Everything", where we'll discuss and debate a wide range of interesting topics and ideas...a bit like an intellectual tea time. Beyond simply being fun and intellectually stimulating, our chats will allow us to consider and write about a wider range of topics than would otherwise be covered in our persuasive writing course. Later in the year, Wednesdays will be used to support your interest project, Biotech, and History Day papers.

**Required texts:**

[Being Logical: A Guide to Good Thinking](#)

Author: D. Q. McInerney

ISBN: 0-8129-7115-9

Amazon.com [51 Used & new](#) from \$6.96

[Great Dialogues of Plato](#)

ASIN: B000E6IJJ4

Amazon.com [37 used & new](#) available from \$1.95

## **Math**

### **Visual Math Course III, Volumes 2 & 3**

**M, T, W 11:15-12:25**

Instructor: Jeanie Iida

**Prerequisite:** Completed Visual Mathematics coursework through Visual Math II Lesson 6, or Attic assessment placement. Completed summer work packet.

Through the exploration of visual math models, daily engaged discussions, and rigorous cooperative and independent work, students will develop the following mathematical concepts: operations and algorithms, reasoning and radicals, introduction to quadratics, continuous graphing, modeling situations algebraically, and analyzing graphs. A graphing Calculator TI-83 or TI-84 will be required for this course. This class will meet for one additional lesson per week as an extension of the normal Attic schedule.

**Required materials** Please bring a composition quadrille notebook to class the first day. These can be purchased from Office Max or Rite Aide, or anywhere that sells office supplies.

### **Integrated Math Program 2/3**

**M, T, W, 11:15-12:25**

Instructor Liz Hunter

**Prerequisites** – completion of Visual Math Course 3, or placement by Attic math assessment. Completion of summer math packet.

Through the exploration of visual math models, logical thinking, discussion, and rigorous coursework, we will move into higher level math, as we start the Integrated Math Program curriculum! Using IMP 2, we will delve into the Pythagorean theorem and trigonometry, graphing systems of linear inequalities and solving systems of linear equations, and the basic principles for working with exponents. We will then start IMP 3, investigating at a deeper level quadratics, factoring and solving equations, coordinates and distance, circles and properties, linear programming and matrices.

**Required materials:** Please bring a composition quadrille notebook to class the first day. These can be purchased from Office Max or Rite Aide, or anywhere that sells office supplies. Also bring a 1" binder for classwork.

## **History**

### **Survey of World History: 20<sup>th</sup> Century-Present**

**M, T, 1:00-2:10**

HS2

Instructor: Lee Rottweiler

Why does today's world look the way it does? What might it look like tomorrow? In this course we will explore these questions through the lens of 20<sup>th</sup> century history. We'll look at the trends, movements, patterns, technologies, ideologies and events that shaped the last century, placing particular emphasis on those with the greatest impact on today's world. As a survey course, the primary goal will be to build a broad foundation of knowledge, one that provides a clear context for future inquiries into history and social science.

Clearly though, understanding history requires much more than a cursory knowledge of major events, important historical characters, or dominant ideologies. Really, it is about people; their lives, struggles, and personal decisions. It is the relationships, dreams, and frustrations of individuals, families, and communities which allow us to understand the "why's" of history. Ideally then, a survey course would strike a balance between breadth of coverage and depth of understanding. With this in mind, we'll choose points in our survey to slow down and delve deeper. Through a series of fiction and nonfiction works, we'll explore the individual, personal side of history. We'll put ourselves in the shoes of people who lived through significant historical events or who continue to be affected by them long after the fact.

The course will be very reading intensive. The primary text provides breadth, while a series of novels and articles provides depth. Below, the primary textbook and our first six novels are listed. Throughout the year, as we move through different cultures and regions, it will be necessary to purchase several other books.

#### **Required Texts:**

[The Heritage of World Civilizations: Volume Two since 1500 \(7th Edition\)](#)

Author: Craig, Graham, Kagan, Ozment, and Turner.

ISBN: 0-13-192622-5

Amazon.com [94 Used & new](#) from \$4.36

[They Thought They Were Free: The Germans, 1933-45](#)

Author: Milton Mayer

ISBN: 0226511928

Amazon.com [32 Used & new](#) from \$15.59

[Twelve Stories of Russia: A Novel, I Guess](#)

Author: A.J. Perry

ISBN: 5-7172-0055-2

Amazon.com [8 used & new](#) available from \$12.94

[One Day in the Life of Ivan Denisovich](#)

Author: Alexander Solzhenitsyn

ISBN-10: 0451531043

Amazon.com [25 used & new](#) available from \$3.64

[The New Great Game: Blood and Oil in Central Asia](#)

Author: Lutz Kleveman

ISBN: 0-87113-906-5

Amazon.com [13 used & new](#) available from \$9.50

[The Kite Runner](#)

Author: Khaled Hosseini

ISBN-10: 1594480001

ISBN-13: 978-1594480003

Amazon.com [780 used & new](#) available from \$1.94

[Midnight's Children: A Novel](#)

Author: Salman Rushdie

ISBN: 0-14-013270-8

Amazon.com [56 used & new](#) available from \$3.49

*Buy Parts 1 & II separate:*

Maus I: A Survivor's Tale: My Father Bleeds History

ISBN: 0394747232

Amazon.com [225 used & new](#) available from \$7.40

**AND**

Maus II: A Survivor's Tale: And Here My Troubles Began (Maus)

ISBN: 0679729771

Amazon.com [185 used & new](#) available from \$5.95

**OR** *purchase the complete version*

The Complete Maus: A Survivor's Tale

ISBN: 0679406417

Amazon.com [56 used & new](#) available from \$21.81

## Foreign Language

### Introduction to Modern Chinese – Level 1

**M, T, 2:20-3:15**

(High school students taking this course will join the Chinese II class on Wednesdays from 2:15-3:15)

MS, HS1, HS2

Instructor: Hui Chen

This is an introductory course to modern standard (Mandarin) Chinese. It will introduce students to Mandarin Chinese pronunciation, tones, grammar, conversation, reading, and writing, with an emphasis on basic oral proficiency. Through learning the language, the students will also have the opportunity to learn about daily life in China and to explore, discover, and develop an appreciation of Chinese music, arts, literature and culture. The course will be taught in a very entertaining environment in a highly interactive manner, with the goal of inspiring the students to discover the enjoyment of learning another language and exploring another culture.

**Required text:**

*Chinese Made Easy Textbook: Level 1 (Simplified Characters)*

Author: Yamin Ma

ISBN: 9620425847

Amazon.com 8 used & new available from \$29.95

www.childbook.com \$29.95

*Chinese Made Easy Workbook: Level 1 (Simplified Characters)*

Author: Yamin Ma

ISBN: 9620425855

Amazon.com 4 used & new available from \$19.95

www.childbook.com \$21.95

**Elementary Modern Chinese II****M, T, W, 2:15-3:15**

HS1, HS2

Instructor: Liang Denton

This course is a continuation of Chinese I. Students will continue to learn to communicate effectively in Chinese by asking and answering questions, narrating events, describing likes and dislikes, and making short oral presentations. While the emphasis continues to be on basic oral proficiency as students learn to speak within familiar contexts and situations, students will also learn to read and write basic Chinese characters, to recognize these in context, and to engage in short reading and writing activities. Students will learn to use a Chinese-English dictionary. Later in the spring, students will have the opportunity to exchange pen-pal letters with middle school students in China.

**Required texts:***Communicating in Chinese: Listening & Speaking*

Author: Cynthia Ning

Publisher: Yale University Far Eastern Publications

ISBN: 0-88710-175-5

Amazon.com [20 used & new](#) available from \$25.00

(This is the book most of you should still have from last year)

*Communicating in Chinese: Student's Book for Reading and Writing*

Author: Cynthia Ning

Publisher: Yale University Far Eastern Publications

ISBN: 088710178X

Amazon.com [13 used & new](#) available from \$23.50

Note: The text is normally available *new* through both Amazon.com and Yale University Press, but seems to be temporarily out of stock. There are more than a dozen *used* copies currently available through Amazon.

**Recommended text:***Concise English-Chinese/Chinese-English Dictionary* (Third Edition)

Author: Martin H. Manser

Publisher: The Commercial Press & Oxford University Press; 3<sup>rd</sup> edition (June 2004)

ISBN-10: 7100039339

ISBN-13: 978-7100039338

Amazon.com [22 used & new](#) available from \$8.80

Note: The dictionary is available through Amazon and is currently in stock. If you already own a Chinese dictionary, you may choose not to purchase this one.

**Introduction to Conversational Spanish****M, T, W, 2:15-3:15**

MS, HS1, HS2

Instructor: Micheala Ranz

In this introductory Spanish course, emphasis will be on building effective listening, speaking, and conversational skills. Students will practice basic conversational skills in simulated real life situations, such as ordering food in a cafe or introducing a friend in Spanish. We'll also begin to explore reading and writing. Through language study, students will also be exposed to the geography and cultures of Latin America, inspiring a greater interest in that vast and exciting region.

**Required text:** TBD**Spanish III****M, T, W, 2:15-3:15**

HS1, HS2

Instructor: Elizabeth Meza

**Prerequisite:** Completion of Spanish II or equivalent Spanish understanding

In this advanced level class we will continue to work on grammar and verb conjugation. Research and essays will be a new requirement for developing language skills. We will use literature and poetry as well as music to better understand the Spanish culture. In an effort to practice communicating in Spanish, students will be required to volunteer in the community. As always, holidays will be studied and celebrated.

**Required text:** TBD

**Walkabout****Walkabout****T, 9:00-10:00**

HS2

Instructor: Lee Rottweiler, supported by Maggie Kaye

What are your goals after the Attic - social, academic, and professional?

This course focuses on the future. We'll explore a wide range of exciting colleges and other post Attic options including travel, study abroad, internships, volunteer opportunities, and gap year adventures. We'll discover which ones are best for you, and examine what you need to do to get there. Beyond introducing you to a wide range of post Attic options, this class will provide the time and support you'll need to explore and pursue them.

**Electives**

Additional elective choices will be offered. Feel free to choose one of the following if you know you will be taking it. Or, you can wait until the complete elective list is sent out in late September.

**Video Editing****W, 1:00-2:10**

MS, HS1, HS2

Instructor: Micheala Ranz

This course will give students a basic overview of some of the visual media production technologies available today. Students will become familiar with the basics of iMovie and/or Movie Maker by using photos, video footage, and other media to present an idea. Students will eventually work together in a cooperative process of production, including story boarding and script writing. Student participation, leadership, and ownership are essential to the success of this dynamic course.

**Chess****W, 1:00-2:10**

MS, HS1, HS2

Instructor: Lee Rottweiler

Chess is really, really cool. If you agree, maybe you should join us for a couple games.

P.S. When it's really nice outside we might decide to play a game of football, Wiffle ball, volleyball, badminton, basketball, etc.

Fun, fun!

**Computer Programming in C# 1 and 2****W, 1:15-2:15**

MS, HS1, HS2

Instructor: Jeff Bernhardt

**Prerequisite:** Enrolled in Visual math 1 and 2 or higher

The digital computer is the first human tool that extends our minds instead of our hands. The critical step to move from one who can use that tool toward someone who can build a new tool, from user to maker, from consumer to inventor, is learning to program a computer.

This split class is for both beginning programmers and those with some experience. The beginners will start with learning the basics of input and output, datatypes and variable, math and logical expressions. We'll move on to conditional branching, looping, and functions. Students will frame their learning by building simple but fun computer games or math problem, solving programs that introduce and exercise the important skills of learning to organize thoughts into a plan and then executing the plan. With these basic ideas as tools, we will work with windows forms and simple graphics.

The experienced students will help the beginners while brushing up on their own skills and will continue to expand their own abilities to express the solution to a problem in the language of a computer. We will work with more advanced graphics, classes and types, and object oriented design while modeling real world phenomenon like genetics and the laws of motion.

Learning is demonstrated through in-class participation, homework on programming projects, and occasional take home work sheets to reinforce newly learned ideas.

**Hardware/software requirements:** Students will need a laptop running Windows and Microsoft Visual Studio 2005 or 2008. Jeff can purchase software at a steep discount (for about \$50) but he needs to know a few weeks before class starts.

**Other Electives and Art options TBD**

MS, HS1, HS2