



## 2016-17 Course Catalog

Dear Upper School families,

Please use the basic descriptions provided on these pages to guide your choices on our [Course Selection Survey](#). The survey will close on July 1, 2016.

Survey Link: <http://tinyurl.com/EBIACourseSignup>

We will allow for an add/drop period at the start of the school year, so students will have the opportunity to shift their course choices if necessary.

Department	Course	Description	Prerequisites
English	English I	This course is the first in our four-year sequence. It is required for all incoming freshmen.	--
History	Human Geography	Human Geography brings together the studies of population growth and makeup, culture (language and religion), and politics. We look at these elements on a map and consider the environments in which the world's societies operate.	--
	Advanced Studies in Human Geography	This course addresses the same content as the other version of the course, but digs more deeply into the topics at hand with the purpose of preparing students to sit for the AP Human Geography exam at the end of the school year.	--
Math	Algebra 1	In Algebra I, students learn to reason symbolically, and the complexity and types of equations and problems they are equipped to solve increase dramatically as a consequence. The key content of Algebra I involves understanding, writing, solving, and graphing linear and quadratic equations, including systems of two linear equations and two unknowns. Quadratic functions will be solved by graphing, factoring, completing the square, or by applying the quadratic formula. Students will also solve problems using monomial and polynomial expressions, employing a variety of algebra techniques. Emphasis will be placed on preparing students for success in Geometry and Algebra II courses.	--
	Geometry	Geometry is designed to develop the student's power to use geometric ideas and tools to interpret and represent two- and three-dimensional situations. This course will include the study of distance and direction through work with lines and angles, parallel and perpendicular lines, slopes, and reflections as well as the study of size through work with area, perimeter	Successful completion of Alg. 1 based on 8th grade final transcripts

		and volume. Also studied will be similarities, constructions, the Pythagorean Theorem, explorations of circles, transformations, and principles of logical reasoning.	
<b>Science</b>	Environmental Science	This course is an incredibly interesting, complex, and applicable science that is constantly changing and expanding. Environmental issues are in the news every day, and it is more important than ever to understand the science behind the stories. It is a rigorous laboratory science course that also provides opportunities to explore the many social, political, economic and ethical issues that are relevant to the environmental topics studied.	--
	Advanced Studies in Environmental Science	This course addresses the same content as the other version of the course, but digs more deeply into the topics at hand with the purpose of preparing students to sit for the A.P. Examination in Environmental Science in May.	--
<b>Foreign Language</b>	Spanish I	Spanish I will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. There are two main objectives to the course. Foremost is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.	--
	Spanish II	Spanish II builds upon knowledge gained in Spanish I. This course will also reinforce the skills learned in Spanish I: listening, speaking, reading and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary is expected. Students will be exposed to the past tenses, future, conditional and subjunctive mood. Students will be expected to apply them in their writing and speaking.	Successful completion of a Spanish I course as evidenced by final transcripts, or adequate performance on placement exam.
<b>Computer Science</b>	CS I	This course teaches the foundations of computer science and programming. Completion of this course or CS II is required for all EBIA students.	--
	CS II	This course builds on the first course and teaches advanced features of different programming languages.	Successful completion of EBIA's middle school course or another introductory course as evidenced by transcripts.