How do I decide which class to take?
Consider courses that interest you and are in your areas of academic strength.

How do I know if a class is right for me?
Within each subject area, courses generally are arranged from classes with the fewest prerequisites, meant for younger students, to classes most suitable for students with more advanced skills or who are at a higher grade level.

**Writing & Literature**

### Course Descriptions

#### The Writing Process (AM or PM)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>3100.1</td>
<td>MTh</td>
<td>8:30–12:00</td>
<td>J. Villanueva Nepomuceno</td>
</tr>
<tr>
<td>3100.2</td>
<td>MTh</td>
<td>1:00–4:30</td>
<td>J. Villanueva Nepomuceno</td>
</tr>
<tr>
<td>3100.3</td>
<td>MTh</td>
<td>8:30–12:00</td>
<td>Dan Guerrero</td>
</tr>
<tr>
<td>3100.4</td>
<td>MTh</td>
<td>1:00–4:30</td>
<td>Dan Guerrero</td>
</tr>
<tr>
<td>3100.5</td>
<td>TuF</td>
<td>8:30–12:00</td>
<td>Lisa Griffin</td>
</tr>
<tr>
<td>3100.6</td>
<td>TuF</td>
<td>1:00–4:30</td>
<td>Lisa Griffin</td>
</tr>
</tbody>
</table>

Recommended credit: 5 units
Homework per class meeting: 3-5 hrs.
Tuition: **$530**

**FOR STUDENTS COMPLETING GRADE 7 OR 8 IN JUNE 2011**
This course is meant for students who are transitioning from middle school to high school. Students will investigate the purposes for which authors write and will ask students to become purposeful readers and writers. Lessons and activities will focus on the process of writing—pre-writing, drafting, editing, and revising. Students will work in editing groups, help each other revise drafts, and learn the qualities of good writing. They will learn techniques for crafting well-written sentences, logical paragraphs, and coherent essays. Students will read, study, and discuss writing styles, and they will practice what they have learned in numerous writing assignments.

#### Reading for Creative Writing (AM or PM)

<table>
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<th>Course Code</th>
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<th>Instructor</th>
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</thead>
<tbody>
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<td>Paul Heller</td>
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<td>3102.2</td>
<td>TuF</td>
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<td>Paul Heller</td>
</tr>
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</table>

Recommended credit: 5 units
Homework per class meeting: 3-5 hrs.
Tuition: **$530**

**FOR STUDENTS COMPLETING GRADE 7 OR 8 IN JUNE 2011**
This class will focus on reading critically and passionately and on fostering creative writing skills. Students will read poetry, short stories and other works of literature, and write responses to the readings. They will visualize the imagery and explore the themes of literature in relation to their own lives. For more inspiration, class activities may include drawing and art, campus explorations, and a visit to a local museum. Students will share their insights into the mind of the author and seek to understand their own writing processes. Through improvisation, class discussion, and writing exercises, students will learn to identify and experiment with various narrative techniques. They will develop a portfolio of their own creative writing and will also write one analytic essay that will reflect their growing expertise as readers and writers.
Writing for High School (AM or PM)

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<th>Course</th>
<th>Days</th>
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<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>3103.1</td>
<td>MTh</td>
<td>8:30–12:00</td>
<td>Matt Amaral</td>
</tr>
<tr>
<td>3103.2</td>
<td>MTh</td>
<td>1:00–4:30</td>
<td>Matt Amaral</td>
</tr>
<tr>
<td>3103.3</td>
<td>TuF</td>
<td>8:30–12:00</td>
<td>Amelia Sitter</td>
</tr>
<tr>
<td>3103.4</td>
<td>TuF</td>
<td>1:00–4:30</td>
<td>Amelia Sitter</td>
</tr>
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<td>3103.5</td>
<td>TuF</td>
<td>1:00–4:30</td>
<td>Staff</td>
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</tbody>
</table>

Recommended credit: 5 units
Homework per class meeting: 3-5 hrs.
Tuition: $530

Recommended for students completing grade 8 or 9 in June 2011.

This class will provide a vehicle for students to fortify high school level reading and writing skills. Students will mold facts, speculations, beliefs, and opinions into cogent, powerful statements. Through reading, class discussions, and group work, students will investigate different styles and forms of writing that provide a range of models for approaching thinking and writing. Emphasis will be on learning to refine thinking and on improving writing through editing and rewriting. Students will be assigned approximately 2-4 pages of writing, in addition to regular reading assignments, per class.

Analytical Writing (AM or PM)

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<th>Course</th>
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<tbody>
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<td>Jonathan Shelley</td>
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<td>3104.2</td>
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<td>1:00–4:30</td>
<td>Alex Franklin</td>
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<td>3104.3</td>
<td>MTh</td>
<td>1:00-4:30</td>
<td>Staff</td>
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</table>

Recommended credit: 5 units
Homework per class meeting: 3-5 hrs.
Tuition: $530

Recommended for students completing grade 9 or 10 in June 2011.

This course, taught at the advanced high school level, will allow students to strengthen their analytical reading and writing skills. Students will practice reading with care and will hold meaningful discussions about the texts they study. They will learn to produce well-organized, well-written, well-developed, and intellectually complex essays. They will perform the stages of writing from clarification of the assignment to final revision, working on grammar, composition, and editing.

Question

I'm having trouble figuring out which writing class is most appropriate for my skill level, age, and grade. What advice can you give me?

Answer

After carefully reading the course descriptions, list your course selection and alternate choices on your application. Then include a note with your application saying that you would like to have your selection reviewed for appropriateness. Based on your writing sample, grade, and age, we can then direct you to the most appropriate class.
Writing for College (AM or PM)

**3105.1** MTh 8:30-12:00 S. Jeung & S. McDonald

**3105.2** MTh 1:00-4:30 Kelly Mogilefsky

**3105.4** TuF 1:00-4:30 Jonathan Shelley

Recommended credit: 5 units
Homework per class meeting: 4-6 hrs.
Tuition: $530

Recommended for students completing grade 10 or 11 in June 2011.

Students in this course will prepare for college-level work by applying their critical reading, thinking, and writing skills to a range of topics. Studying literature in high school teaches students to read carefully, think analytically, and write persuasively, and in college, they will need to apply these well-practiced skills to coursework for each discipline that they encounter. Students in this course will synthesize information from a variety of sources in order to arrive at thoughtful and original conclusions. Through focused revision and editing, students will be able to craft clear, purposeful contributions to their fields of study.

Advanced Reading and Writing (AM)

**3107** MTh 8:30-12:00 Christina Buchmann

Recommended credit: 5 units
Homework per class meeting: 4-6 hrs.
Tuition: $530

Prerequisite: Students must have completed grade 10 or 11.

This course will be taught at the freshman college level. It will allow students to practice and advance their reading and writing skills by thinking about and responding to rich and complex works of literature. They will learn to explore the meanings of a literary work: what the author says and how she or he uses effective and powerful language to say it. In preparation for reading literature in college, students will study styles, voices, points of view, and narrative strategies. As students strengthen their composition and editing skills, as well as deepen their understanding of grammar, their own writing will emerge more fluidly, with greater clarity and impact. By reading literature, writing essays and engaging in intense discussions, students will receive practice in skills needed for the Advanced Placement exams as well as writing papers for any of their academic subjects.

**Question Answer**

Who teaches ATDP classes?

We choose ATDP instructors from a pool of exceptionally talented public school, private school, and university instructors. If a course lists the faculty as “Staff,” that means we were still finalizing arrangements at press time. Faculty listed are subject to change.
Beginning Acting 1
Improvisational Theater and Acting

Recommended credit: 5 units
Homework per class meeting: 2 hrs.
Tuition: $530

Nobody hands you a script for life—you have to improvise your way through it. In this course, through improvisational scene work, theater games, and storytelling, students will develop their ability to act and interact freely and perceptively. They will have the opportunity to study acting techniques and work at short scenes, learning to trust their abilities in new, untried situations, and taking risks that help develop confidence in their ability to think on their feet, whether in school, social, or dramatic situations. They will also discover how to become more aware of their environment and how to be supportive of others. Improvisational theater helps students expand their creativity and, therefore, influences every area of life and studies. This course may be taken concurrently with Beginning Acting 2. (Please see important notes about credit in 3113: Beginning Acting 1 & 2.)

Beginning Acting 2
Further Adventures in Improv and Performance

Recommended credit: 5 units
Homework per class meeting: 2-4 hrs.
Tuition: $530

Prerequisites: Beginning Acting (from ATDP during a previous summer), concurrent enrollment in Beginning Acting 1 (see 3113: Beginning Acting 1 & 2), or permission of the Director.

This fun, interactive course is the continuation of Beginning Acting 1 and provides the equivalent of second semester introductory dramatic arts. Building on lessons around the performance of monologues, scenes, and improvisation, students will learn to delve into the study of acting at a deeper level. From script analysis to building a character, this course will tackle the basic challenges of acting on stage, while continuing to explore the exciting world of improvisational performance.

Beginning Acting 1 & 2
Two Semesters of Visual & Performing Arts

Recommended credit: 10 units
Homework per class meeting: 4-8 hrs.
Tuition: $760

This combination course should be selected by students wishing to apply for concurrent enrollment in Beginning Acting 1 & 2. Completion of Beginning Acting 1 & 2, whether together or over two summers, carries a recommendation of credit to fulfill the UC (f) Visual & Performing Arts (VPA) eligibility requirement for a year-long course. Beginning Acting 1 alone cannot be used to satisfy the UC VPA requirement, but we suggest that you check with your school counselor for specifics on how one or both may be used toward graduation requirements. There is discounted tuition for concurrent enrollment in Beginning Acting 1 & 2.
Drawing and Design

Recommended credit: 10 units
Homework per class meeting: 2-4 hrs.
Tuition: $780

FOR STUDENTS COMPLETING GRADE 7 OR 8 IN JUNE 2011
In this course, students will learn how to understand, discuss and create artwork. Students will develop skills in drawing a variety of subjects such as portraits, landscapes and still-lifes. Using a range of media including pencil, charcoal, pastel, colored pencil, and watercolor; students will learn to observe and depict form, light and color. Students will work from nature, models, and their imaginations. Course assignments include exercises in contour, gesture, and tone techniques, as well as a few graphic design exercises using collage and/or block prints. The highlight of the course is a field trip to the San Francisco Museum of Modern Art, during which students observe and discuss the art on display. Using the art seen at the museum, as well as lectures on art history presented in class, students will apply art concepts in creative assignments that experiment with style. These later projects include abstract self-portraits, a comic book, and an advertisement. No previous drawing experience is necessary.

Architectural Design

Recommended credit: 10 units
Homework per class meeting: 4-5 hrs.
Tuition: $830

FOR STUDENTS WHO HAVE COMPLETED GRADE 8 & UP
This course explores the built environment and introduces students to the architectural profession. The class focuses primarily on the formal principles of architectural design by examining examples from lectures and by visiting buildings on and off campus. Students will also develop an understanding of concepts in two-dimensional composition, furniture design, landscape architecture, and urban planning. Students will express their ideas in scaled models and drawings. The course consists of several weeklong projects, including architectural drawings of existing buildings, abstract sculptural design, furniture design, and designing new landscape and architectural structures. While working individually and in teams, students will be able to explore their creative potential and test their ability to work effectively in groups. Knowing how to draw or build models is not a prerequisite for this course.

Advanced Placement Art History

Recommended credit: 10 units
Homework per class meeting: 6-8 hrs.
Tuition: $760

Prerequisite: For students who have completed Grade 9 or higher. Completion of sophomore year is recommended.

In this fast-paced course, students will acquire the knowledge, vocabulary, and critical thinking skills to respond intelligently to art. The course provides an opportunity to prepare for the AP Art History exam in May 2012. Encompassing sculpture, painting, architecture, and other creative forms, the class will cover Western art from the cave paintings at Lascaux to the Impressionists to the 4-dimensional multimedia innovations of the 21st Century, as well as topics from the great artistic traditions of Asia, Africa, Oceania, and the Americas. In class, students will view and analyze an extensive collection of images, striving to understand the artworks within their historical contexts—for instance the Roman conquest of Europe, the expansion of the Mughal Empire, the French Revolution, or the US-Soviet Cold War. At the same time, students will consider cultural context: Why was a particular piece of art made? With whose money, and for what purpose? How do the ethnic identity and the gender of the artist influence the style or content of a work of art?
First-Year Latin

FOR STUDENTS WHO HAVE COMPLETED GRADE 9 & UP
First-Year Latin, the equivalent of a full year of high school Latin (one semester of college Latin), will introduce students to the fundamentals of classical Latin with specific attention paid to vocabulary, morphology, and syntax. Throughout the course, students will also be introduced to the historical and literary cultures of ancient Rome and the development of the Latin language into its modern descendants, including Spanish, Italian, and French.

First-Year Japanese (AM or PM)

Recommended credit: 10 units
Homework per class meeting: 5-6 hrs.
Tuition: $760

This course is based on a fun, relaxed, playful, and effective approach to learning Japanese. This method is a synthesis of many innovative teaching techniques developed to help accelerate students’ language learning. The two major components of this course are: (1) acquisition of basic communication skills of elementary Japanese and (2) learning hiragana and katakana syllabaries as well as some kanji characters. The language is taught multimodally: lots of physical movement, use of pictures and graphics, conversation practices, story telling, and some story creating. Students also learn about modern Japanese life. This course is equivalent to one year of high school Japanese.

Second-Year Japanese

Recommended credit: 10 units
Homework per class meeting: 5-6 hrs.
Tuition: $760

Prerequisite: Completion of First-Year Japanese or permission of the Director.

Using a multi-modal approach, the class will begin where First-Year Japanese left off. The course will include a comprehensive review of katakana and kanji that students have already learned, and the introduction of much more kanji. Emphasis will be placed on consolidation of listening and speaking skills; the additional grammar and constructions will advance students’ understanding even further. In addition to our focus on learning the language, students will learn about culture and customs in contemporary Japanese life. This course covers the full content of second-year high school Japanese.
LANGUAGES, cont’d.

Third-Year Japanese

**3126** MWF 1:00-4:30 Kazumi Yahata-Pettersson

Recommended credit: 10 units
Homework per class meeting: 5-6 hrs.
Tuition: **$760**

**Prerequisite:** Completion of Second-Year Japanese or permission of the Director.

In addition to further development of listening and speaking skills, this course will also review grammar for advanced reading and writing. Students will add to their vocabulary of kanji and will study literary works. Cultural presentations will provide additional opportunities to learn about Japanese life as well as to practice language skills and conversation. This course covers the full content of third-year high school Japanese.

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Fourth-Year Japanese

**3128** MWF 1:00-4:30 Kazumi Yahata-Pettersson

Recommended credit: 10 units
Homework per class meeting: 5-6 hrs.
Tuition: **$760**

**Prerequisite:** Completion of Third-Year Japanese or permission of the Director.

Fourth-Year Japanese will continue to build and develop language skills in conversation and writing. Speaking activities will explore the formal, informal, humble, and honorific forms. Literacy and vocabulary will focus on further mastery and acquisition of new kanji. As in preceding courses in the sequence, activities will revolve around lectures, discussions, skits, and literature. Students will also learn more about Japanese culture through films, games, and history. Class will be conducted primarily in Japanese. This course covers the full content of fourth-year high school Japanese.
The Internet Classroom

**3133**  MWF  8:30–12:00  Sam Pierce

Recommended credit: 10 units
Homework per class meeting: 2-3 hrs.
Tuition: **$870**

In this class, students will become familiar with the underlying technologies of a computer network, learn to use client software as part of a publishing and programming workflow, design and code standards-based websites, and acquire a meaningful context within which to place our “information age,” with its diverse array of online services and communities. Students will create websites using XHTML and CSS, with an eye towards coding according to web standards. They will be introduced to various common technologies that make up today’s Internet and will be experimenting with off-the-shelf programs such as Adobe Photoshop. Students will investigate the technical, sociological, and even philosophical issues regarding the impact of the Internet, information technology, and related gadgetry on students and their families, on schools and their communities, and on society at large.

**Note:** Access to a computer and to the Internet outside of class is required to complete homework.

Introduction to Java (AM or PM)

**3137.1**  MWF  8:30–12:00  Abraham Liao

**3137.2**  MWF  1:00–4:30  Abraham Liao

Recommended credit: 10 units
Homework per class meeting: 2-3 hrs.
Tuition: **$870**

**Prerequisite:** Algebra—students must be comfortable with mathematical thinking, particularly the ideas of a variable and a function. It is preferable that students be able to access the Internet from outside of class in order to submit homework assignments.

This course will introduce students to object-oriented programming in Java. In the first half of the course, students will be introduced to essential programming building blocks, beginning with the idea of a variable. From there, students will learn about common control structures, including “if” statements and “for” loops. Students will also learn about simple data structures, such as the Array. With this knowledge, students will move on to study object-oriented programming concepts and how to apply these to their work. During the second half of the course, students will demonstrate their creative potential by authoring artificial intelligence agents for two simple two-dimensional computer games.

Interested in Computer Science? Volunteer to be an ATDP Internet TA!

(see Wednesday Explorations guide, available March 30)

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See Game Design on p. 18 if you have completed 8th grade and are interested in using math and logic to design games.
Students choose from two kinds of math courses:

1. Accelerated courses covering a full year of material in six weeks—Algebra I, Geometry, Algebra II/Trigonometry, Precalculus, and AP Calculus AB. Students must be prepared to learn at a rigorous and intensive pace and to do many hours of demanding homework daily. Classes meet three days per week.

2. Enrichment courses focusing on specific topics and areas—Foundations of Algebra, Introduction to Game Design, and Introduction to Geometric Thinking. The class pace is challenging but not rushed. These courses, which carry a recommendation of one semester of credit, help students gain a deeper understanding of math, become more well-rounded, and be better prepared for math classes at school. Classes meet two days per week.

APPLICATION PREREQUISITES
If you are applying for Algebra I, Geometry, Algebra II/Trigonometry, Precalculus, or AP Calculus AB:
(1) you MUST have a GRADE OF A in your current mathematics class;
(2) you cannot repeat a math course you have already taken;
(3) your Teacher Recommendation Form must be completed by your current mathematics teacher;
(4) you can enroll in only one course; and,
(5) you must take and pass the diagnostic examination given on the afternoon of Sunday, May 22, 2011.

PLACEMENT REQUIREMENTS
For Algebra I, Geometry, Algebra II/Trigonometry, Precalculus or AP Calculus AB:
Final course placement is contingent upon your diagnostic examination score. If you are unable to take the test on Sunday, May 22, the acceptance letter will provide instructions on scheduling a make-up test.

FAQ

Is it a good idea for me to take a math course at ATDP when I’m planning to repeat the same course for credit next year back at my school?

We strongly recommend against doing so. It usually is not in a student’s best interest to repeat the same material twice. The student’s time and effort are better spent in taking a course for credit.
I'm applying for a math class that has a placement test. What are my chances of passing the exam?

Students who meet the prerequisites listed above and who have strong applications usually earn a passing score. If your score is too low or too high, we will help you find a more suitable course placement.
Prerequisites: Completion of Algebra I in addition to the prerequisites listed on p. 17.

This fast-paced course completes all topics of first-year Geometry: points, lines, planes, and angles; deductive reasoning; parallel lines and planes; congruent triangles; quadrilaterals; inequalities in geometry; similar polygons; right triangles; circles; constructions and loci; areas of plane figures; areas and volumes of solids; coordinate geometry; transformations; and an introduction to trigonometry. Because the course covers a full year of Geometry, students will spend at least eight hours outside of class preparing for each class session.

Recommended credit: 10 units
Homework per class meeting: 8-10 hrs.
Tuition: $760

Is the time listed for homework accurate, or is that just how long it takes other students who aren’t as smart as I am?

The homework hours listed represent the homework time reported by the previous year’s classes. It is safe to expect that the amount of homework you do will be somewhere within the range given.
Advanced Placement Calculus AB

**Prerequisites:** Completion of Precalculus in addition to the prerequisites listed on p. 17.

This extremely fast-paced, one-year AP Calculus course will cover all of the material for the Calculus AB AP examination in May 2012: introduction to differential and integral calculus of functions of one variable, with applications and an introduction to transcendental functions; techniques of integration; applications of integration; infinite sequences and series; first-order ordinary differential equations; second-order ordinary differential equations; oscillation and damping; and series solutions of ordinary differential equations. For an additional fee, students in this class may take Saturday review classes in the spring of 2012 to prepare for the AP examination in May of 2012.

**Recommended credit:** 10 units
**Homework per class meeting:** 6-10 hrs.
**Tuition:** $760

**3147** MWF 8:30–12:00 Philippe Henri

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**Question**

I didn’t learn as much as I would have liked in my math class this year. Can I repeat a math class at ATDP that I have already taken at my regular school?

**Answer**

No, we do not allow ATDP students to repeat math classes. Instead, we suggest that you consider taking a math elective for which you have completed the prerequisites or a course in another field of study.
Introduction to Psychology

**FOR STUDENTS WHO HAVE COMPLETED GRADE 8 & UP**

The word psychology comes from the Greek *psyche*, which means “soul,” and -ology, which has come to mean “the study of.” This course will focus on the nature, dimensions, methods, and issues of this study of human behavior. As this is an introductory course in psychology, the syllabus is rather broad. Course topics will include learning and memory, language and thought, emotion and motivation, mental abilities, and cognitive processes. Students will be required to lead classroom discussions and will work in research teams to develop and conduct original studies.

**Recommended credit:** 5 units  
**Homework per class meeting:** 3-5 hrs.  
**Tuition:** $530

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**Introduction to Sociology**

**FOR STUDENTS WHO HAVE COMPLETED GRADE 8 & UP**

What if psychology alone still leaves you with questions about how your and others’ experiences are connected with the society you live in? Where can you seek such knowledge? In this course, we will examine such relationships by exploring “the sociological imagination,” to use a term coined by sociologist C. Wright Mills. For example, we will use Durkheimian theory to investigate why so many people paint themselves in school or other team colors, why they chant in unison, and why they think that it is so much fun. We will learn how these and other acts function to ensure social solidarity, define the in-group, and maintain a collective identity. We will also learn how such phenomena affect persons and groups, to their benefit or detriment. Over the course of the class, students will collect data on the sociological phenomenon of their choice and analyze it using three theoretical lenses to reshape the way they see that phenomenon. Our final project will include an oral presentation of research findings, in the same way that other sociologists present their new knowledge to their colleagues.

**Recommended credit:** 5 units  
**Homework per class meeting:** 3-5 hrs.  
**Tuition:** $530

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**Question Answer**

What’s the difference between the 5-unit Psychology course and AP Psychology?

Introduction to Psychology is a survey course intended to introduce students to selected topics. In intensity, they can be compared to one-semester courses. AP Psychology covers a full-year curriculum and prepares students for the AP examination in May 2012.
The Practice of Law (AM or PM)

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<tr>
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<td>3158.2</td>
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<td>Gary Kitajo</td>
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Recommended credit: 5 units  
Homework per class meeting: 3-5 hrs.  
Tuition: $530

FOR STUDENTS WHO HAVE COMPLETED GRADE 8 & UP
This course will provide an overview of social institutions and functions addressed in the practice of law. Students will participate in each of the lawyer’s roles: investigation, research, advocacy, negotiation, trial preparation, and dispute resolution. In the process, students will examine the nature and history of law, interrogate parties, argue hypothetical cases, arbitrate conflicts, and draft legal documents. This class will require active participation in lively classroom activities and projects, which will include simulated trials, oral argument, and case briefing. Students will be encouraged to participate freely in robust classroom discussions and debates, with a premium placed on the open exchange of ideas and opinions. The course will culminate in a mock trial conducted in a local courtroom before a judge. College-level texts will be used.

Introduction to Business & Finance

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<td>3159</td>
<td>MTh</td>
<td>8:30–12:00</td>
<td>Jennifer Lyons</td>
</tr>
</tbody>
</table>

Recommended credit: 5 units  
Homework per class meeting: 4-6 hrs.  
Tuition: $530

Prerequisite: Completion of Algebra II/Trig. or higher course in mathematics.

This course is designed as a concise introduction to business for high school students. Students will explore fundamental principles of finance and economics, including the basics of valuation, risk and return, and demand and supply. The course will emphasize real-world application through applied problems and projects, guest speakers, and a visit to UC Berkeley’s Haas School of Business. We will study how firms make decisions, the role of banks and markets, and timely topics such as the underlying causes of the current financial crisis. Throughout, students will increase their financial literacy and gain tools for personal financial planning, including an understanding of how interest accumulates and understanding residential mortgage terms and risks. Students will find that they can make exciting connections between these topics and the mathematical concepts they have learned in their math classes.

Philosophy

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<td>3160</td>
<td>MTh</td>
<td>1:00-4:30</td>
<td>Alex James</td>
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</table>

Recommended credit: 5 units  
Homework per class meeting: 4-5 hrs.  
Tuition: $530

FOR STUDENTS WHO HAVE COMPLETED GRADE 8 & UP
‘Philosophy’ derives from the Greek “philosophia,” meaning love of wisdom. Philosophy is the activity devoted to understanding and clarifying the nature of mind, reality, knowledge, meaning, happiness and virtue. It divides into five major branches, metaphysics, epistemology, ethics, esthetics and logic, each with its own distinct subject matter. This course will serve as an introduction to some of the classics of Western philosophy and to some of the central issues facing philosophers today. Students will gain practice reading, analyzing and discussing selections of primary source material and reflecting on philosophical theories and problems. Some of the authors we will read include Plato, Aristotle, Descartes, Kant, Nietzsche, Kierkegaard, and Wittgenstein. By the end of the course, students will have a deeper appreciation of the nature and importance of philosophical inquiry and of our own place within the philosophical tradition.
Advanced Placement Psychology

**3161**  MWF  8:30–12:00  Zach Rosner

- **Recommended credit:** 10 units
- **Homework per class meeting:** 8-10 hrs.
- **Tuition:** $760

**Prerequisite:** Completion of at least freshman year of high school or permission of the Director. Completion of at least sophomore year is recommended.

This course provides an opportunity for students to prepare for the May 2012 AP examination in Psychology. The course is guided by the AP Psychology syllabus and covers the following areas: history of psychology as a science, research methods, statistics, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, testing and individual differences, abnormal psychology, treatment of psychological disorders, and social psychology. The course uses a college textbook and will require a lot of reading, active participation in classroom activities (discussions and labs), completion of an independent research project, and completion of examination questions similar to those given in the actual AP examination.

Advanced Placement Comparative Government

**3162**  MWF  1:00–4:30  Harlan Edleman

- **Recommended credit:** 10 units
- **Homework per class meeting:** 8-10 hrs.
- **Tuition:** $760

This course will prepare students for the May 2012 Advanced Placement examination in Comparative Government. Students will gain a deeper understanding of politics, economics, and culture in today's world, beyond the borders of the United States. We will explore the range of political and economic systems that operate around the globe, with particular attention to China, Great Britain, Iran, Mexico, Nigeria, and Russia. We will explore the ways that different governments balance individual liberty and national security, economic freedom and social welfare, centralized power and local autonomy, and old traditions and new realities, depending on the unique history, culture, and priorities of the society. We will also compare and contrast various approaches to problems such as political corruption, overpopulation, ethnic conflict, pollution, poverty, and globalization. Furthermore, we will consider how public policy is shaped by pressure from various groups. Finally, we will examine the power and significance of popular social uprisings, such as the 1979 Islamic fundamentalist revolution in Iran, the 1989 democratic movement in China that led to the crisis in Tiananmen Square, and the 1994 Chiapas revolt in Mexico.

**Note:** This course does NOT fulfill the American Government high school graduation requirement.

Advanced Placement Economics

**Macroeconomics & Microeconomics**

**3164**  MWF  1:00–4:30  Sean Byrne

- **Recommended credit:** 10 units
- **Homework per class meeting:** 6-10 hrs.
- **Tuition:** $760

**Prerequisite:** Completion of at least freshman year of high school or permission of the Director.

Derived from the title of an ancient Greek treatise on household management, the word “economics” now describes a field of study that attempts to answer questions from how the government should fight pollution to why finding an apartment in San Francisco can be a nightmare, and even why folks don’t floss more. This course prepares students for the May 2012 AP examinations in both Macroeconomics and Microeconomics. This course is guided by the AP syllabi for these subjects and covers the following areas: basic economic concepts; supply and demand models; consumer choice; the theory of the firm; factor markets (markets of the ingredients of production, including land, labor, and capital); market failure; measures of economic performance; national income and price determination; the nature and functions of the financial sector; inflation and unemployment; economic growth and productivity; international trade and finance; and the government's attempts (successful and unsuccessful) to make it all better.

**Recommended credit:** 10 units

**Homework per class meeting:** 6-10 hrs.

**Tuition:** $760

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**See Cognitive Neuroscience**

on p. 26 if you have completed an ATDP Psychology course and would like to learn more about the brain.

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**Question Answer**

**Will I be placed in my first choice of class?**

We always start by attempting to place students in their first choice. Make sure that your course choices are suitable to your grade level and experience and that you have met the prerequisites. Completed applications are evaluated in the order that they are received.

First preference is given to returning students; however, to increase their chances of being placed in their first choices, both new and returning students should submit their completed applications well before the deadline. If two similarly qualified students apply, the application completed first will be given first preference.
Introduction to Biotechnology (AM or PM)

**3171.1** MTh 8:30–12:00 Jena Mori Lee

**3171.2** MTh 1:00–4:30 Jena Mori Lee

Recommended credit: 5 units
Homework per class meeting: 4-6 hrs.
Tuition: $650

FOR STUDENTS COMPLETING GRADE 7 OR 8 IN JUNE 2011

In this course, students will be introduced to the principles and techniques of molecular biology that are used to study and manipulate DNA in basic research, medicine, forensics, and agriculture. We will begin by studying the structure and chemistry of DNA, and we will then learn about many of the laboratory techniques used in recombinant DNA technology, including restriction digests, PCR, bacterial transformation, and immunological assays. In each class meeting, students will conduct hands-on experiments and learn about the real-world uses and implications of biotechnology. Additionally, students will complete weekly current events reports and examine the ethical considerations raised by advances in the field.

Marine Biology

**3173.1** TuF 8:30–12:00 Jordan Malin

**3173.2** TuF 1:00–4:30 Jordan Malin

Recommended credit: 5 units
Homework per class meeting: 4-6 hrs.
Tuition: $650

FOR STUDENTS COMPLETING GRADE 8 OR 9 IN JUNE 2011

This course is an introduction to the major marine ecosystems. We will concentrate on laboratory investigations into the identification, behavior, and ecology of marine organisms, and we will use live local specimens when possible. The laboratory work will also consist of intensive individual and small-group activities to fully understand the complex anatomy and physiology of a variety of marine species. We will go on a field trip to Moss Beach tide pools near Pacifica, in the San Francisco peninsula, to study tide pool and intertidal ecology.

**Question**

Will any ATDP science courses take the place of a high school science course?

**Answer**

Most ATDP natural science courses are 5-unit, college-preparatory elective courses intended to prepare you for high school science courses, not to replace them. The exception is AP Biology, a 10-unit class which takes the place of the high school course of the same name and prepares students for the AP exam; however, AP Biology does not take the place of regular or honors high school Biology.
Introduction to Chemistry (AM or PM)

**Prerequisite:** Completion of Algebra I.

**FOR STUDENTS WHO HAVE COMPLETED 8th GRADE & UP**
Throughout this course, laboratory activities and discussions will focus on how chemists describe matter and its changes within the context of alchemy and early chemists. Understanding the periodic table, the particulate nature of matter, ionic compounds, and solution chemistry will provide the basis for students to think about the world in terms of particles and their interactions. This course provides a grounding in scientific principles, which will prepare students to continue on to a high school chemistry class.

**Recommended credit:** 5 units  
**Homework per class meeting:** 4-6 hrs.  
**Tuition:** $650

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Introducing Physics

**Prerequisite:** Successful completion of Algebra I and Geometry.

**FOR STUDENTS WHO HAVE COMPLETED 9th GRADE & UP**
Physics is the study of how phenomenon in the world works through building and investigating models. This project-based class will survey several major topics in Newtonian Mechanics, such as projectiles, motion, momentum, collisions and energy, in order to prepare students for a final project of designing a model of an amusement park ride. Relevant mathematical and analytical skills for physics will be taught.

**Recommended credit:** 5 units  
**Homework per class meeting:** 4-6 hrs.  
**Tuition:** $650

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Advanced Placement Environmental Science

**Prerequisite:** Completion of Algebra I, high school biology and high school chemistry. A course in earth science is helpful but not required.

**FOR STUDENTS WHO HAVE COMPLETED 9th GRADE & UP**
In this course, students will build on their knowledge of natural and physical sciences while rigorously preparing for the AP Environmental Science exam. The course will cover a broad range of topics including ecosystem ecology, energy use, waste and pollution, population growth, land and water use, and climate change. Students will use their growing understanding of scientific principles and reasoning to explore, analyze, and propose solutions to a series of current environmental problems. Inquiry-based labs and occasional field trips allow students to apply course concepts to real world scenarios.

**Recommended credit:** 10 units  
**Homework per class meeting:** 7-10 hrs.  
**Tuition:** $880
Advanced Placement Biology

**3179 MWF 8:30–4:30 G. Martinez & E. Thiel**

Recommended credit: 10 units
Homework per class meeting: 8-10 hrs.
Tuition: $1,220

**Prerequisites:** Completion of Algebra I and high-school Biology and a background in Chemistry. Completion of at least freshman year of high school or permission of the Director is required. Completion of at least sophomore year is recommended.

This course provides an opportunity for students to accelerate their study of biology with an introductory college-level biology course, and to prepare for the May 2012 AP examination in Biology. The course uses a college-level textbook and follows the College Board course outline. Laboratory work is extensive and will be included in each class session. Topics include Molecular and Cellular Biology (biochemistry, cells, energy transformations), Genetics and Evolution (genetics, molecular genetics, evolution), Population Biology (plant biology and animal biology, including that of humans), and Ecology.

Cognitive Neuroscience

**3181 MWF 8:30-12:00 Paul Bulakowski**

Recommended credit: 10 units
Homework per class meeting: 5-6 hrs.
Tuition: $880

**Prerequisite:** Completion of at least one of the following courses: A high school or ATDP Psychology class, an AP or honors Biology class, or AP or honors Chemistry class.

This course provides the aspiring student a chance to jump-start future college studies in Neuroscience, Psychology, or Cognitive Science. Cognitive Neuroscience is a rapidly growing field, as it integrates knowledge gained from physiology, psychology, chemistry, physics, and biology. Cognitive neuroscientists aim to answer one of the last remaining fundamental questions of science: How does a three-pound lump of organic material—the brain—support such a wide array of functions, such as thinking and reasoning, emotion, perception, movement, and consciousness? We will explore modern theories of adult and developmental neuroscience, as well as experimental methods (i.e., fMRI, ERP, psychophysics).

We will use a college-level textbook along with supplementary readings to introduce several key topics of Cognitive Neuroscience as well an opportunity to learn how to read and evaluate primary research articles directly from the scientists in the field. This course will culminate in an opportunity for students to research and present on a brain topic of special interest.