

SPECIAL PROJECTS  
2007

Title: American Studies through Film and Activities  
Instructor: Derek Barry and Diane Gerard  
Cost: \$100.00 (covers all meals, fees, and transportation costs for the week).  
Minimum: 8  
Maximum: 18

Description: Come join your ASMS history instructors for a look at American politics, culture and society through film....American pride, cynicism, patriotism, humor and of course materialism are all on display in Hollywood movies and independent films selected to entertain and inform. Movies will be shown in morning or afternoon to be followed by classroom discussion, guest speakers or field trips related to the day's theme with lunch or dinner vents also planned each day. Specially-themed evening activities include outings, informal debate, and trivia competition for fun and prizes.

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Title: Art Who II  
Instructor: Jane Allgood  
Cost: \$150.00  
Minimum: 7  
Maximum: 7+ (permission of instructor for more than 7 due to transportation)

Description: This project is designed to showcase the art museums of the Gulf Coast. Students will visit museums and studios from New Orleans to Pensacola exploring the treasures found in sites such as the Ogden Museum in New Orleans, the Lauren Rodgers Museum in Laurel, and the Walter Anderson Museum in Ocean Springs. The day trips will focus on the artistic, cultural and historical aspects of the art and the area.

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Title: Chinese Language and Culture  
Instructor: Li Li  
Cost: \$30 (including books about Chinese history and culture, supplies for practicing Chinese calligraphy and Chinese crafts as well as the expense for the field trip.

Minimum: 8  
Maximum: 14  
Description: This special project aims to introduce students to Chinese Language (Mandarin and ancient Chinese civilization). During this special project, students will learn daily Chinese terms and basic principle of Chinese phonetic system, experience to write simple Chinese characters and understand the main differences between Chinese and English. Students will also study magnificent Chinese historical sites and important values, religious beliefs, and traditions. Through a field trip to visit a local Chinese family, students will see a demonstration of writing beautiful Chinese calligraphy personally, cook and enjoy Chinese food.

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Title: Coastal Adventures  
Instructor: Orren Kickliter and Kevin Dolbeare  
Cost: \$225.00  
Minimum: 8  
Maximum: 14+

Description: The Coastal Adventures special project is composed of a series of five day field trips and one night trip to explore the environs of the Gulf Coast and Mobile Bay. Highlights include: surf fishing, day hikes, and Estuarium visit and sailing on Perdido Bay Students will be trained on how to keep a nature journal including drawing, identification and digital photography. Students will gain insight to the cultural natural uniqueness of the South Alabama area.

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Title: Computer Applications of Boolean Algebra  
Instructor: Nasrullah Aziz  
Cost: \$0  
Minimum: 8  
Maximum: 14

Description: This project is designed to have some introduction to the Logic gates on the basis of Boolean algebra. The students will learn the construction of Logic Gates with truth tables, which will enable students to see the output in-terms of SOP or POS. Finally, a circuit environment will be constructed on Computer to finalize the project. We will use circuit maker software for construction of the Logic Gates.

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Title: Creative Arts with German  
Instructor: Muriel Hoequist  
Cost: \$5  
Minimum: 8  
Maximum: 14

Description: This project offers a variety of creative tasks for every taste. Students can choose one or several options and work individually or in groups on music, art, poetry/speaking, reading/spelling, children's book writing/illustrating and video production. All projects can serve as preparation for German Day later in the school year, but are also available to students who want a different experience with German without competing. Students not currently taking German are welcome to participate in the instrumental music, art and video components, while students currently enrolled in German class will have priority for signing up. This project, while under native speaker guidance, will draw on collaboration across class levels, individual originality and freedom to experiment with alternative approaches. Have fun with a burst of creative activity and expect to be surprised by how it all comes together! Lunch will be available at the cafeteria or can be organized (Dutch treats) at area restaurants within walking distance.

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Title: Dark Adventures in Film Noir  
Instructor: Donald Bloom  
Cost: \$10  
Minimum: 8  
Maximum: 18

Description: Tough detective, shady beauties, ominous gangsters, psychotic killers and the wealthy with something to hide – mix them together in a shadowy world where morality, romance and honesty get lost in a confusion of greed, lust, fear and cynicism and you have a Hollywood phenomenon that the French call *film noir*. We will watch and discuss eight representative movies from the genre including such classics as *The Maltese Falcon*, *Rififi*, *The Third Man*, *Sunset Boulevard*, *The Asphalt Jungle* and *The Big Sleep*.

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Title: Dress Rehearsal for Alabama Spanish Convention  
Instructor: Patricia O’Farrill & Jennifer Rose  
Cost: \$60.00  
Minimum: 8  
Maximum: 14  
Description: The purpose of this Special Project is to allow students the opportunity to prepare for the annual Federation of High School Spanish Clubs Convention held at the University of Alabama in Tuscaloosa. The Convention will be held in the spring of 2008. Students will engage in hands-on, interactive activities as well as participate in classroom discussion to work on the following areas of competition: Vocabulary, Verbs, Grammar Usage, Sight Reading, Arts, Posters, and Exhibits, culture Bowl, Scrapbook, skits, talent show and costumes. All levels of Spanish are encouraged to participate in this Special Project. This project should also prove a valuable workshop for those not attending the convention for students will be able to exercise all of the various aspects of the Spanish language in different expressions (written, oral, and performative). Students are not required to have any prior artistic and/or theatrical experience for this project.

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Title: Game Theory and Strategy  
Instructor: Natalya Prokhorova  
Cost: \$0  
Minimum: 8  
Maximum: 14  
Description: In recent years game theory has developed rapidly. It now has a central place in economic theory, and it has contributed important insights to all areas of social science. The purpose of this project is to introduce student to game theory. Topics: Two-person Zero-Sum Games and Two-person Non-Zero Games.

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Title: Habitat for Humanity  
Instructor: Albert Lilly and Jamie Lugo  
Cost: Students are expected to pay for their lunch each day (\$10.00)  
Minimum: 10  
Maximum: 14  
Description: Students will volunteer their time to Habitat for Humanity International which has a goal to make housing affordable to families in need. Our target location will be within Mobile County. This will be a continuation of a worldwide effort that has reached over 3,000 communities worldwide. More than 200,000 houses have been constructed in order to shelter over 1,000,000 persons.

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Title: Italy Trip  
Instructor: Deborah Hoffman and Malcolm Donalson  
Cost: \$2000  
Minimum: 12  
Maximum: 30  
Description: We will journey through Italy, visiting Venice, Florence, Assisi, Rome and Pompeii.

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Title: Lasers and Holography  
Instructor: Garvin Wattuhewa  
Cost: \$40  
Minimum: 8  
Maximum: 14  
Description: Starting with wave theory, the students will learn the concept of “duality of light” and the theory of lasers. Then the optical filters and different types of interference patterns will be discussed with examples to understand the concepts of holography. Theory of lasers and different types of lasers and their applications will be discussed. After learning the theory holography, students will learn different types of holograms and their applications. Reflection and transmission holography will be discussed in details before they start making holograms. The majority of the project will be hands-on experiences in making holograms. Students will learn to make holograms which include: reflection, transmission and multi-channel.

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Title: The Most Powerful Force in the Universe  
Instructor: Thomas Carnevale  
Cost: \$0  
Minimum: 8  
Maximum: 14  
Description: Albert Einstein once described compound interest as the most powerful force in the universe. In this mini-course we'll look at the mathematics of compound interest with applications to both the world of finance and other areas.

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Title: Mystery and Chemistry, Part II  
Instructor: Elisa Rambo and Joe Rambo  
Cost: \$55  
Minimum: 8  
Maximum: 14  
Description: This special project will introduce students to the techniques of forensic science. Students will learn the techniques of forensic diction such as fiber and finger print analysis, poison diction, foot print and tire casting, chromatography, blood typing and splatter analysis, an observation technique, all of which will be utilized to as ASMS whodunit.

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Natural History Adventure of Florida's Wilderness Coast  
Instructor: Barry McPhail and Karen Palazzini  
Cost: \$600  
Minimum: 8  
Maximum: 12  
Description: In six days by van we will explore Florida's Wilderness Coast. We will trace Florida's least-developed coast from Crystal River to Port St. Joseph. The focus will be direct, hands-on experiences in nature. We will swim with manatees in Crystal River, kayak the Lower Suwannee River, visit the giant freshwater spring at Wakulla Springs and view it by glass bottom boat, see handle, and learn about marine organisms at the Gulf Specimen Laboratory in Panacea, and snorkel the clear, shallow salt waters of St. Joseph's Bay. We will camp three nights (showers and restroom available). We recommend that each participant carry \$100 for snacks, souvenirs, and emergencies.

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Instructor: Susan Rouillier  
Cost: \$20  
Minimum: 8  
Maximum: 14  
Description: Students will learn Photoshop fundamentals as well as advanced artistic techniques, starting with cropping, changing mode, resizing, and file formats. Students will use selection tools and multiple filters, and learn typesetting basics. Also a Taiji component will be added: fan form to allow for some body movement.

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Title: Play Wrighting  
Instructor: Jeff Goodman  
Cost: \$0  
Minimum: 8  
Maximum: 14  
Description: Students will write and act out their own plays. Instructions will be given, and models provided as to how to write an original short play. Requirements: finish a short play.

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Title: Propeller Microcontroller: Eight bit processing power.  
Instructor: Don Wheeler  
Cost: \$50  
Minimum: 8  
Maximum: 14  
Description: Most microcontrollers can do only one thing at a time. As a result, for systems like robots, you can not move and sense your environment at the same time. The single brain of the microcontroller has eight parallel processors which can do simultaneous processing. In this special project we will investigate the eight bit microcontroller and apply it to several applications. See instructor for detailed itinerary.

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Title: Raising the Roof for "Fiddler on the Roof"  
Instructor: Rita Wright  
Cost: \$20 Also, students will bring \$15-\$20 for dinner on Thursday.  
Minimum: 8  
Maximum: 14  
Description: Students will design and build the set for the upcoming production of "Fiddler on the Roof". We will spend the first day meeting local set designers and gathering ideas for our ASMS set. We will design our set and then choose and deliver materials to ASMS. We will spend the rest of the week building and painting. We will also watch the DVD of "Fiddler" to better acquaint ourselves with the sets used in the movie version. It will be a super fun and busy week.  
**Prerequisite:** Students must have **previously** signed up with Mrs. Rita to work on the set. Music department students are preferred unless you have experience in construction. Absolute fun and fabulous attitude are a must!!!

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Title: Short Film Production  
Instructor: Danny Mollise  
Cost: \$0  
Minimum: 8  
Maximum: 14  
Description: Over the course of five days students will create a film from conception to a final edited feature. **A signed note from Mr. Mollise has to be presented at sign-up giving the student permission to participate in this special project. Note: Mr. Mollise's signature only will be accepted.**

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Title: Trebuchet: Medieval Physics  
Instructor: Pam Quintana, Sponsor; Larry Hyland, Historian  
Cost: \$70  
Minimum: 8  
Maximum: 14  
Description: Using elementary physics concepts, the trebuchet was used in medieval times as a weapon similar to the catapult. Today, the trebuchet is built for range throwing competitions. Each student will be able to build and keep their own trebuchet with a demonstration and competition to be held at the end of special projects week. By the end of the special projects week, a power point presentation including the history and the physics behind the trebuchet will be presented.

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Title: Wall Street  
Instructor: John Petty  
Cost: \$15  
Minimum: 8  
Maximum: 14  
Description: So you want to get rich, live high on expensive things, have politicians grueling at your feet? Then us this week to learn the tricks of the trade for making money buying and selling on Wall Street. Listen while the experts offer their advice on how to pick the stocks which will "skyrocket" you to wealth. Learn about the many diverse kinds of financial options which you have to choose from, their risks and returns. Learn how to research companies read the stock and option pages and follow the business news. You'll have a chance to do some or your own "market research" and we'll finish the week with a high powered "businessman's" lunch.

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Title: Super Weird Food Science  
Instructor: James NJenge're  
Cost: \$40  
Minimum: 8  
Maximum: 14  
Description: Going above and beyond the normal to the EXTRA weird this special project will explore work cuisine and the biochemistry behind the action. Each day will examine a different food theme and the global approach to its agricultural, ecological, anthropological and chemical significance. This is no ordinary cooking class as most of the food experiments will be done in a laboratory setting, but we will investigate outside the lab to cook and taste some of the assignments.