

INTERSESSION 2008
Updated 10/31/2007

FULL TIME SESSIONS, Morning / Afternoon

10101 African Cooking

Full-time Morning/Afternoon

On each day of Intersession, participants will prepare a complete meal with dishes representative of some African country or region. At the end of the day, all participants will sit down and have a meal together. Countries will likely include Morocco, Ethiopia, Nigeria, Ghana, but are not necessarily limited to these countries. (Final decisions regarding country selection depends on availability of ingredients, recipes, and cooking equipment needs.) There will also be focus on basic cooking and food preparation techniques (such as knife/cutting skills), and safe food handling and hygiene. We will be aided in this area by Liz Gavigan, who is Sodexho's Manager at IMSA. Participants with cooking experience are encouraged to join this Intersession class, but novice cooks are also welcome. The essential thing is that participants be open to eating foods that they have not had before.

Prerequisite: None - However, participants will split the cost of the food. The total estimated cost for food is \$75.00 - \$100.00

Jonathan Besancon, IMSA Faculty
Liz Gavigan, Sodexho Manager

10102 Exploring the Meaning of Life: Why It All Matters

Full-time Morning/Afternoon

We all have our favorite books, movies, and songs. What are yours? Further, why do they matter to you? This Intersession will focus upon the individual's personal search for meaning in the world, including the modern arts of literature, film, meditation, photography, and song. An emphasis will be placed on deep thought, intense discussions, spiritual growth, and personal philosophy. Participants are encouraged (and expected) to contribute to the course of study by recommending their own favorite books and movies that they would like to watch, read, and discuss as part of this Intersession. The list will be decided upon by the participants and the sponsors together. Overall this Intersession will actively involve the participants in putting themselves in the shoes of fictional characters and encountering the characters' trials and triumphs alongside them. Assessment will be based upon a presentation of the student's choice a portfolio of original or compiled art, a written reflective work, or some other piece that demonstrates creative license and personal development.

Prerequisite: Possible readings (to be decided by the sponsors and participants).
Students may be required to purchase 1 - 2 books.

Everett Brokaw, Class of 2007
Maximus Schwanebeck, Class of 2007
John Stark, IMSA Faculty

10103 FIRST Robotics

Full-time Morning/Afternoon

The FIRST Robotics Competition is an annual international competition that partners high school students with corporate mentors to make a robot. In this Intersession, the students will participate in the first of six weeks of FRC. This stage of the competition will involve designing, drafting, and prototyping a robot that will fulfill the task given this year. We will work with professional engineers and college students to come up with a successful design. Students are encouraged to participate in the rest of the competition in the five weeks following Intersession.

Those five weeks will involve the building, programming, and testing stages of the competition. Students who show commitment throughout the six weeks will be invited to go to the regional competition held in Chicago, and if our robot is good, to the championship in Atlanta.

Prerequisite: Preferably, member of robotics club

Rachel Walker, Class of 2007
Kat Kononov, Current IMSA Student
Jim Gerry, Information & Technology Services

10104 HORSE!

Full-time Morning/Afternoon

This Intersession explores all things equine: the history, ecology, art, and romance of Equus Caballus and his sometimes tenuous relationship with Homo Sapiens. An organizing theme of the experience is the ethical nature of the human/equine bond. As a source of power, a vehicle of war, a spiritual and artistic inspiration, even in some times and places a food source, the horse has served mankind well for millenia. The Greek general Xenophon wrote the first sympathetic manual on the training and care of horses, yet we have not always lived up to his imperative to never treat a horse roughly. How have people around the world viewed the horse? How do we view him today in our post-industrial era when we are no longer dependent on his services, yet horses are kept in larger numbers as companions in sport and leisure than during their days as work animals? What does this teach us about human nature? In return, what do we owe the horse?

Prerequisite: Just a love of horses (even in the abstract!) and the desire to learn more about them.
Student should bring art supplies they choose (paints, clay, camera, etc).
\$6.00 tour fee at Tempel Farms
Spending money for Saddler's Row - horse goods emporium

Dr. Jean Kadel, IMSA Faculty

10105 Inquiring Minds Want to Know

Full-time Morning/Afternoon

This would be a full-time Intersession for students engaged in research and development of History Fair topics or the La Salle Project for the History Department.

Prerequisite: Declared History Fair topic. Membership in the La Salle Project research team.

Dr. Clay Skinner, IMSA Faculty

10106 Matsubayashi-Ryu Karate Training Camp

Full-time Morning/Afternoon

This Intersession is designed for anyone with an interest in martial arts, regardless of previous experience. While the course will focus primarily on teaching the techniques and history of Matsubayashi Shorin-Ryu, techniques and ideas from other styles of martial arts may be included. Traditional techniques, kata (traditional set patterns of movements), kumite (sparring), and basic self-defense will be studied. Examples of the martial arts in movies will also be explored and discussed. Additionally, there will be a field trip Wednesday evening to watch a formal class at a local martial arts school, followed by an optional dinner outing. The Intersession will conclude with a friendly tournament. The costs associated with this Intersession will be: \$30.00 for a traditional, white uniform (mandatory, unless you already own one), a \$10.00 equipment fee (mandatory), and an optional \$5.00 for a pizza party on Friday afternoon.

Prerequisite: Although no previous experience in martial arts is necessary, students must have a basic level of physical endurance in order to complete the workouts and exercises each morning. Additionally, students will be required to wear a traditional white uniform to the classes, which will be available for purchase prior to the start of Intersession.

Cynthia Dang, Class of 2003

Dean Dieker, Class of 2003

Amanda Townsend, Class of 2004

Dr. David Evenson, Student Life

10107 Philosophical Perambulations

Full-time Morning/Afternoon

Long hikes combined with readings, discussion and the perusal of works of art will explore the connections between landscape, the person and collective memory. In the process we will place our academic and personal work in context. At the end of the Intersession, each participant will have produced "A Landscape" in words or pictures, including photography. These works will be shared with the community as a whole in an exhibit.

Prerequisite: Participants must be physically capable of doing the activity, and must have and use appropriate boots and outerwear.

Students will, or provide, available materials for their final project.
\$20.00 cash for dinner Thursday evening at Starved Rock.

Dr. Christian D. Nøkkentved, IMSA Faculty

10108 Public Urban Education

Full-time Morning/Afternoon

How can you help to improve public urban education? Whether you want to be a computer programmer developing educational software, an executive director for the College Board, a bilingual educator, an administrator, or the next Bill Gates-- funding America's schools, this Intersession will introduce you to ways you can help improve Chicago's public schools. You'll take a first-hand, critical look at different aspects of public education by visiting two Chicago Schools, a vocational high school and a bilingual elementary school. By end of Intersession, you will propose specific suggestions for education reform!

Prerequisite: None

Jessica Fritzsche, Class of 1997 - (Currently a bilingual teacher at Telpochalli Elementary School, Chicago, IL).

Beth Greiner, Class of 1997 - (Currently a teacher at Prosser Career Academy, Chicago, IL).

* Staff Sponsored

10109 Social Justice I: The Civil Rights Movement

Full-time Morning/Afternoon

An exploration of the sociological and historical roots of the Civil Rights movement from 1954-Present. Focusing in part on what made that particular convergence of history and political agency different. Were there particular intellectual and ethical resources that were summoned in this epoch of struggle such that the outcomes were different than a different age? What role did individuals as such play in this moment of transformation? Was this period an accident of history or does it offer lessons for how we can attempt to create a just society?

Prerequisite: None

Kazi Joshua, Admissions
Quintin Backstrom, Admissions

10110 Student Inquiry and Research

Full-time Morning/Afternoon **or**
Half-time Morning, Afternoon, or Evening - **Please mark form Full-time or Half-time**

Students who are in good standing in the SIR program may pursue their investigations full-time or half-time. Students will need to submit a brief plan of what they intend to accomplish.

Prerequisite: Students must have an approved SIR investigation and approval of the SIR office and the SIR advisor to pursue their investigation during Intersession.

Dr. Judy Scheppler, Grainer Center for Imagination & Inquiry

10111 The Many Aspects of Healthcare

Full-time Morning/Afternoon

Students will have the opportunity to learn about the many aspects of healthcare through the combined efforts of the University of Illinois Medical Center, College of Medicine, College of Dentistry, College of Pharmacy, College of Nursing, School of Public Health, and College of Applied Health Sciences. Students will take part in a variety of activities including lectures, discussions, and activities to better understand the many aspects of healthcare. Lectures will be focused on the future of each field, discussions will provide students the opportunity to participate in current hot-topics, and activities will provide the opportunity for students to learn what being in each profession entails. Students will also have discussions on healthcare ethics, safety and quality for patients, and healthcare financial operations. On one day, students will also have a catered lunch where they will have the opportunity to network with IMSA alumni currently in different healthcare fields and from the six health science colleges.

Prerequisite: Complete assigned readings before the discussions.

Postrequisite: Compare and contrast two fields of healthcare, their importance to our current healthcare system, and which field you feel would be a strong fit for you based on your strengths and interests. (2 pages, single spaced minimum)

Derrick Tung, Class of 1998 - (Currently Administrative Fellow, University of Illinois Medical Center, Chicago, IL).

* Staff Sponsored

10112 The Physiology of Laughter

Full-time Morning/Afternoon

"The Physiology of Laughter". Topics for this session will include student presentations concerning the biochemistry and physiology of laughter. What makes something funny? What is funny to one person might be an insult to another. This session will include such movies as "Young Frankenstein" and other comedies that only a few students would have seen. The Physiology of Laughter will be a full session with comedies presented during the PM and research, presentations and discussions of what the general public considers to be funny during the AM.

Prerequisite: None

Dr. Richard Dods, IMSA Faculty

10113 The Science of Global Warming

Full-time Morning/Afternoon

An examination of the science of global warming using scientifically skeptical analysis of the case made by both the proponents and opponents to the theory that human created greenhouse gases are significantly warming the earth's atmosphere. It will not be the purpose of this class to discuss the politics or the economic issues, but rather to focus clearly on the issues that can be examined using science and the scientific method.

Prerequisite: Sophomore chemistry. Prior to the start of class, the students should read, at a minimum, the "Summary for Policy Makers and the "Technical Summary" form the IPCC 2007 report which can be found at: <http://ipcc-wg1.ucar.edu/wg1/wg1-report.html> They should also read either "Cool it - The Skeptical Environmentalist's Guide to Global Warming" by Bjorn Lomborg, or "State of Fear" by Michael Crichton.

David Gossman, Former IMSA Mentor/Parent

* Staff Sponsored

10114 The Teapot: Aesthetic or Cultural Icon?

Full-time Morning/Afternoon

The consumption and use of tea as a medicinal and an everyday drink has cultural as well as historical significance dating back several thousands of years. The teapot, an often overlooked, yet under appreciated object, is the focus of this Intersession. An emphasis will be placed on aesthetic, historical and cultural notions of the teapot (and tea) along with the fabrication of ceramic teapots. Participants will use technical and aesthetic considerations to create their own functional teapots reflecting their own cultural identity.

Prerequisite: Pre-Intersession: One meeting in December (TBA) in preparation for the Intersession. Post-Intersession: Two required meetings to glaze teapots. Previous clay experience is not required, but would be helpful.

\$4 -\$8 material fees

\$12 train & bus fare for possible field trip

Clay Sewell, IMSA Faculty

10115 Vets, Pets, and Modern Medicine - An Introduction to Veterinary Medicine

Full-time Morning/Afternoon

Frogs and snails and puppy dog tails? There's more to veterinary medicine. Not just for those who've wanted to be a veterinarian since the age of 2, this Intersession will introduce you to basic principles of medicine & surgery. From clinical skills like x-ray interpretation and suture tying to the epidemiology of the recent pet-food recall, you'll open your eyes to the diverse fields of veterinary medicine and public health. And in true CSI fashion, by the end of the week, you'll find out what really killed Fluffy.

Prerequisite: None

Dr. Tamara McArdle, Class of 1998

Dr. Lyn Miller Wancket, Class of 1999 - (Currently a graduate student and veterinary anatomical pathology resident at The Ohio State University where she studies human respiratory syncytial virus. * Staff Sponsored

FULL TIME SESSIONS, Afternoon / Evening

10201 The Coming Plagues

Full-time Afternoon/Evening

This Intersession will examine the potential negative interactions between microbes and humans. We will look at a few 'plagues' from history (The Black Death, Influenza of 1918, Cholera pandemics), and then spend most of our time talking about microbes which might cause epidemics and/or pandemics in the future. We will spend some time talking about the microbe's ability to cause disease (pathogenicity) as well as the human's ability to resist disease (immune response). The social and economic implications of epidemics will also be explored.

Prerequisite: Scientific Inquires - Biology and at least one course in biology (pre-IMSA or biology elective at IMSA). 'Helpful' elective: MAD (Microbes and Disease).

Dr. Ed Goebel, Former IMSA Staff

10202 "Who Let the Dogs Out?": Canines on Campus

Full-time Afternoon/Evening

This is an Intersession experience for those who know or who want to learn the absolute truth of Kafka's statement: "All knowledge, the totality of all questions and answers, is contained in the dog." Our gathered concentration and inquiry will introduce us to the literature of the dog penned by writers as varied as Plato, Shakespeare, Wordsworth and Dickens, as well as modern authors. Film will also expand our appreciation of notable canine achievement. We will visit a nearby "no kill" shelter for homeless dogs and write about what our dogs mean to us. At the end of the week, we will bring our best canine friends onto the campus. "Who Let The Dogs Out" will culminate with a Grande Promenade of our dogs to the Academic Pit.

Prerequisite: Kennel cost for one night paid by the student.

Michael Casey, IMSA Faculty
Dr. Dennis Czerny, IMSA Faculty

HALF TIME SESSIONS, Morning

05101 A Glimpse of Indian Culture through Media, Literature, and Art

Half-time Morning

In this Intersession we will explore, experience, and learn about various aspects of Indian culture. We will learn about the history of Indian art, clothing, cuisine, and dance. We will also discuss the Pulitzer-prize winning Jhumpa Lahiri's "The Namesake" in coalition with the recently released film. Lastly, we will screen both an atypical and typical Hollywood film to discuss the similarities and differences.

Prerequisite: Read "The Namesake" by Jhumpa Lahiri prior to Intersession week.

Soumya Gogula, Class of 2007 - (Currently a freshman studying chemical engineering at the University of Illinois Urbana-Champaign).

Sivali Boddu, Class of 2007 - (Currently a freshman studying biomedical engineering at Case Western Reserve University).

Dr. Sowmya Anjur, IMSA Faculty

05102 AMC/AIME Intersession

Half-time Morning

Each year, nationwide contests are used to determine the US team at the International Math Olympiad. The first contest, the AMC 10 or 12, is required for all IMSA students. Typically, over a hundred of IMSA's students pass this 75 minute, 25 question multiple choice exam to qualify for the AIME. The American Invitational Math Exam is a 3 hour, 15 question test. Only about 250 high school students from across America qualify for the USA Math Olympiad, a 9 hour, 6 question proof-based test to be taken over the course of two days. From here, students are selected to train and compete at the international level. In this Intersession, we'll prepare for the AMC and AIME by practicing past problems and discussing test-taking strategies. We will cover a range of topics, from geometry, logarithms, etc. This intersession will prepare students of all aptitude, helping those competing at the AMC, AIME, and USAMO levels. At the end, we will administer a practice at the AMC or AIME test and provide constructive feedback.

Prerequisite: Preferably MI III or above with some problem solving experience

Jenny Iglesias, Current IMSA Student
Jeok Choi, Current IMSA Student
David Chang, Current IMSA Student
Dr. Steve Condie, IMSA Faculty

05103 AP Biology Test Preparation

Half-time Morning

Students will work with each other to prepare for the AP Biology exam with IMSA teachers serving as a resource. Students are required to bring an AP Biology test preparation book to this Intersession. Students may choose any test preparation book.

Prerequisite: High School level biology course.

Students to purchase AP test Preparation Book, costing approximately \$20

Joe Traina, IMSA Faculty
Dr. Sue Styer, IMSA Faculty

05104 Beginning Swimming

Half-time Morning

This class is designed for those who did not pass one or more elements of the swim test during Moving and Learning class. It is also open to those who passed the test, but would like to improve their swimming ability. A progression of skill drills will be utilized for each of the basic swim strokes (elementary backstroke, freestyle, backstroke, sidestroke, and breaststroke). Students will be video-taped pre and post class for the purpose of measuring improvement. Mechanical principles will be discussed and utilized as they pertain to movement in the water. Instructor and student analysis of the video-tapes will serve as the class assessment.

Prerequisite: Students need to bring suit, towel, and goggles.

John Martin, IMSA Faculty

05105 Building and Analyzing Rockets

Half-time Morning

Students will build a standard rocket and analyze its flight. Then build a custom rocket to their own set of parameters. They will then fire and evaluate.

Prerequisite: None

Branson Lawrence, IMSA Faculty

05106 Climate Change 101

Half-time Morning

Is the climate warming? How fast? Will it affect us during our lifetime? What can we do about it? This course will introduce you to the controversial topic of climate change. We will investigate the science of global warming through discussion, movies, and data analysis. We will also examine the human dimension of climate change, including the impact of our lifestyle choices and policy decisions. This class will give you the information you need to form and defend your opinion on global warming.

Prerequisite: None

Katja Meyer, Class of 1998
Dr. Don Dosch, IMSA Faculty

05107 Drama on Wheels

Half-time Morning

The perfect match - The Drama Club and IMSA on Wheels! Participants will learn the mad skills of IMSA's drama club and the explosive demonstrations of IMSA on Wheels. Join us every morning for exercises in: improvisation, presentation skills, stage direction, scientific demonstrations, and so much more. The week will wrap up with your enhanced performances.

Prerequisite: None

Tracy Miller, Kids Institute
Nathan Kafka, IMSA Resident Counselor

05108 How People Play and Eat in Other Cultures: What Can We Learn From Our Global Neighbors?

Half-time Morning

During this Intersession, students will explore and experience games, food and dance from other cultures. Students will engage and lead physically active games as well as identify and prepare healthy food choices of a region. America has been traditionally identified as a culture of "baseball and apple pie." Our country also has declining fitness levels and an obesity epidemic. This learning experience will enable students to discover how other cultures play and eat.

Prerequisite: \$10 fee for food costs.

Mary Myers, IMSA Faculty
Nancy Todnem, IMSA Faculty

05109 Kids Institute IMSA ALLIES Boot Camp

Half-time Morning

If you like teaching and interacting with younger students, you will love this Intersession! This is a half-day session for people who are currently (or seriously considering) taking part in the Kids Institute IMSA ALLIES program. The session will cover basic teaching and presentation techniques, how to write fun inquiry-based activities and hour planners, and how to handle problem-campers and students. As part of this Intersession, participants will also get a chance to teach in front of local elementary school students on a field trip to IMSA.

Prerequisite: Prerequisite: Commitment to participate in IMSA ALLIES through summer programs, field trips, and/or FUNshops. Interest and enthusiasm required!

Sulochana Mutha, Current IMSA Student
Naomi Morphis, Current IMSA Student
Kelly Zhang, Current IMSA Student
Kit Pfeifer, Kids Institute

05110 Major Choral Works of the 20th Century

Half-time Morning

During the week, we will listen to 5 major choral works of the 20th century. In each, we will investigate the relationship between the text and the music, look at how each enhances the other. The selection of works will also partially demonstrate variety of sound resources at the disposal to a composer. We will also discuss some of the hidden features a great composer can draw upon to unify a large scale work.

Prerequisite: Interest in music

Dr. Michael Keyton, IMSA Faculty

05111 Rap, Hip-Hop, and Social Critique

Half-time Morning

This Intersession will examine hip-hop as a movement that began as a mode of social and political critique. We will investigate the cultural circumstances that led to the beginnings of hip-hop in the late 70s/early 80s and analyze how forms, themes, and political content have changed since then. Major topics will include violence, women in hip-hop, hip-hop imagery (including visual conventions in videos, album covers, etc.), white rappers, breakdancing, and graffiti. Artists studied will include Grandmaster Flash, The Native Tongues (including A Tribe Called Quest and The Roots), Notorious B.I.G, Eminem, and others dictated by student interest.

Prerequisite: Student may incur some cost in downloading music needed for class.

Dr. Grace Glass, IMSA Faculty

05112 "Revolutionizing Global Education: One Laptop Per Child"

Half-time Morning

The One Laptop Per Child project was created to provide children around the world with new opportunities to explore, experiment and express themselves by the creation of a children's machine designed for "learning learning". Find out more about this project, the amazing laptop that is fueling it, and how you can become personally involved with this world-shaping revolution. We will be doing five intensive, hands-on days of work with OLPC machines, technologies, and concepts. The session will be co-presented by Mel Chua (Class of '03), the University Affiliate Liaison for OLPC.

Prerequisite: Must be comfortable with technology. Must be willing to learn to program in Python. Must be creative and willing to think outside the box. Must have a desire to improve the human condition.

Scott Swanson, Information & Technology Services & Class of 1990
Mel Chua, Class of 2003

05113 Shakespeare in Opera and Ballet

Half-time Morning

This Intersession will examine the use of several of Shakespeare's plays in opera and dance. We will examine the treatment of five Shakespearean plays (Othello, Romeo & Juliet, A Midsummer Night's Dream, Macbeth,) and The Merry Wives of Windsor, by composers and choreographers and try to identify the elements of the plays that inspired their treatment in opera and ballet.

Prerequisite: None

Michael Sloan, IMSA Faculty
Richard Stalmack, IMSA Faculty

05114 The Art of Spectator Sports: Figure Skating

Half-time Morning

Ever wondered about the sport of figure skating? Enjoyed watching it? Experience the sport for yourself and develop your skills as a spectator and skater.

Prerequisite: Estimated cost would be \$12/student for the week which covers the cost of ice time and skate rental fees.

Sarah Quick, IMSA Resident Counselor
Cari Peterson, Current IMSA Student
Renny O'Connor, Current IMSA Student

05115 Visual Data and Quantitative Data - The mechanics of blending two mediums

Half-time Morning

This session will focus on blending materials developed in GimpShop and Excel. We will tackle the basics of using a visual editor (Gimpshop) and then combining that material with Excel, digital photos, and online resources accessed over the Internet.

Prerequisite: A lap top or tablet computer.

Dr. Jim Victory, IMSA Faculty

05116 Wild Places: an intellectual and experiential study of wilderness

Half-time Morning

"A wilderness, in contrast with those areas where man and his own works dominate the landscape, is hereby recognized as an area where the earth and its community of life are untrammelled by man, where man himself is a visitor who does not remain ..." - The Wilderness Act, September 3, 1964

Experience the Boundary Waters Canoe Area Wilderness, a 1.2-million-acre federally designated wilderness in northern Minnesota in which no motorized or mechanized transport is allowed. This is one of the only places in the world where it is safe to drink directly from the lakes, which, connected by footpaths, have formed the "roads" in this area for thousands of years. Learn

about and then explore for yourself the rich ecosystem, geology, history, and literature of this unique natural resource. Along the path of your experience, you will also be trained in canoeing, camping, and navigation techniques; you will become an integral part of a team working toward a common goal; and you will learn to slow down the pace of life and appreciate natural beauty.

This course consists of two components: a half-time classroom session during Intersession 2008, and a subsequent summer canoe-camping trip for seven days in the BWCAW.

Prerequisite: Physical fitness: ability to paddle a canoe, swim, walk carrying 50 lbs of canoes and equipment, and sleep on the ground for a week. No previous experience required.

Some pre-reading will be assigned. Students must complete a short application and interview to be considered for participation in this session.

A maximum cost of \$650 per person will be required for the canoe trip, plus spending money for souvenirs and food during travel to and from Minnesota.

Molly Breslin, IMSA Resident Counselor

05117 IMSA Swings! - NEW PROPOSAL

Half-time Morning

Want to have a great way to meet people, get some exercise, and show off a bit on the dance floor? Come learn to swing dance!

We'll be starting from the basics, so even if (especially if!) you've never danced before, don't hesitate to join us. By the end of the class, you'll be able to go out to swing dances anywhere and join in. And I do mean "anywhere": there are swing scenes in every major U.S. city, at tons of colleges, and in many foreign locales as well. Plus, many of the core ideas you pick up here (frame, lead/follow, connection) will be useful if you decide to learn another style of dance somewhere down the road. We'll be finishing off the week with a trip to one of the Chicagoland's swing venues, so you'll have a chance to put your new skills to use and see other swing dancers doing their thing.

Look forward to seeing you in January!

Prerequisite: Entry fee for dance venue not to exceed \$15.00

Neal Groothuis, Former IMSA Staff & Class of 1997

HALF TIME SESSIONS, Afternoon

05201 Choosing the Next "Leader of the Free World": A Closer Look at the 2008 Presidential Election

Half-time Afternoon

On the first day of Intersession, there will only be 301 days left until Election Day 2008. After a year of campaigning, what have we learned? One candidate gets \$300 haircuts, another is the first "clean and articulate African-American" to run, another has been criticized for mentioning 9/11 every time he speaks. Will this election bring us our first Black, Latino, Mormon, or female president? This Intersession class will examine the candidates, their positions, and the ongoing primary and election process. We'll examine several types of media, including TV, radio, newspapers, and the Internet, and form our own opinions about the race, the candidates, and the issues.

Prerequisite: None

Heidi Gross, IMSA Resident Counselor

05202 Computer Science - The Art Beyond Programming

Half-time Afternoon

We will help you understand more of the underlying beauty of computer science which will probably, hopefully help you write better programs. This session is not about programming, there is no programming experience required, but rather to teach you about the theory and the abstraction of computer science.

Prerequisite: None

Wit Riewrangboonya, Class of 2005

Sean Clarke, Class of 2006

* Staff Sponsored

05203 Curtain Time in London

Half-time Afternoon

This Intersession will combine classroom learning with a spring break trip to London. While at IMSA students will study different historical approaches to the dramatic arts; modern day production techniques; historical figures of theatrical performance and regional differences in theatrical productions. While abroad, participants will spend 7 full days in London.

The trip general itinerary includes tours of: The Strand, Trafalgar Square, Leicester Square, Covent Garden, Big Ben and Houses of Parliament, Piccadilly Circus, St. Paul's Cathedral, Changing of the Guard, Tower of London, Stonehenge, City of Bath, Oxford College,

The Theatrical Itinerary includes: Shakespeare's birthplace, Gardens of Anne Hathaway's cottage, 3 full length professional theatrical performances, Tour of the recreated Globe Theatre, Professional Theatrical workshop with Globe Theatre artisans, Tour of Drury Lane Theatre (England's oldest)

Prerequisite: \$2,400 US student provided funds

Nathan Kafka, IMSA Resident Counselor

05204 Effective Presentation of Data

Half-time Afternoon

Many scientists, engineers, and analysts spend a tremendous amount of time collecting and analyzing data, yet fail to synthesize their findings in a way that can be clearly and concisely understood by their peers, superiors, or the general public. For the purpose of this session, we'll assume that the obfuscation is not intentional (sometimes it is) and look for ways to present information more effectively. We'll learn how to organize ideas logically, how to write clearly, how to visualize ideas in graphs and diagrams, and how to package it all into a persuasive document. We'll see why it's usually a bad idea to use the templates in many software applications. And we'll also become better (that is, more skeptical) consumers of presentations.

Prerequisite: Students should bring their laptops.

Pranav Kiran Parekh, Class of 1992

* Staff Sponsored

05205 Explorations in Teaching Virtually: Take 2

Half-time Afternoon

If you enjoy working with younger students and chatting online with others - Explorations in Virtual Teaching is for you! Throughout this week participants will connect with middle school students around Illinois and engage them in a dynamic two way conversation on a topic of your choice. In addition, you will experience and learn about designing and teaching in a virtual classroom and using a web based product called Elluminate. In the spring, you can stay involved and get community service hours.

Prerequisite: None

Michelle Kolar, Kids Institute
Dr. Susan Bisinger, Excellence 2000+

05206 Hands-On Engineering: Design, Build, Compete

Half-time Afternoon

A project-driven course where students work in small teams to create products that solve problems, such as launching a given mass over a measured distance, or elevating an object to measured height. The projects emphasize creative problem solving, because many people see engineering as a purely analytical field that does not allow for creativity. In the marketplace, however, innovative companies prevail, while others suffer from what is known as "paralysis by analysis". In today's product development climate, it is increasingly important for engineers and designers to understand the market forces that affect their products, customers, and organizations. The projects in this course will be completed in an environment designed to simulate real-world business concepts such as supply & demand, competition vs. cooperation, and intellectual property.

Prerequisite: \$5 materials fee

Kyle Wild, Class of 2002
Ryan Spraetz, Class of 2002
Dan Kador, Class of 2002
* Staff Sponsored

05207 Intro to Aerospace

Half-time Afternoon

A basic class introducing students to the principles of flight. Covered areas will include ground school, basic engineering principals behind flight, aerospace history, and construction techniques for homebuilt aircraft. Ending with a weather dependent flight on Saturday.

Prerequisite: \$5 course fee.

Roy Fisher, Current IMSA Student pursuing his private pilot's license.
Adam Leemans, Current IMSA Student pursuing his private pilot's license.
Mark Schnoor, IMSA Resident Counselor

05208 Introduction to Alternative Medicine

Half-time Afternoon

An overview of current alternative medicine methods and modalities will be presented, along with more in-depth reviews of example topics. Course topics will include Western traditional methods, Western adaptations of Eastern methods, Western modern methods, public policy and current political issues surrounding the industry. The approach will be centered from a

holistic/naturopathic approach and will compare and contrast to current allopathic approaches. Course content will be fluid to some degree based on the interests.

Prerequisite: Prior to class, students should compose a list of alternative medicine methods that they personally have either experienced or been exposed to in their lifetimes.

Scott Swanson, Information & Technology Services & Class of 1990
Julia Colby, Class of 1996

05209 Introduction to the Theory of Pricing Options, Futures and Other Financial Derivatives

Half-time Afternoon

Financial derivatives of all kinds, from simple stock options to more complicated securities, make up the vast majority of the securities traded in financial markets, yet the methodology for pricing these securities is well-understood by relatively few. This course will provide an introduction to the fundamental concepts of option pricing theory, with a focus on the economic basis for these principles and a brief look at the advanced mathematics used to derive the most basic model for pricing stock options. An introduction will also be given to the kinds of financial derivatives traded in the market place, and the types of models that are typically used to value each. This course will examine some of the limitations and shortcomings of using these models in a trading environment (in particular, why standard assumptions of how stock and other prices change over time underestimate the frequency of crashes in the stock market and related markets).

Prerequisite: BCI or ABI recommended, as the final day will briefly introduce some of the higher level mathematics used in analyzing financial derivatives, and will involve (calculus) derivatives. Exposure to integral calculus and familiarity with probability a plus. Pre-exposure to financial derivatives NOT required.

John McFerrin, Class of 1998 - (Currently a quantitative analyst and financial software developer for Derivative Solutions, the Fixed Income division of Factset Data Services).

* Staff Sponsored

05210 Lens and Film: An Introduction to Photography

Half-time Afternoon

If you're interested in learning some basics about photography this course is for you. Over the course of the week, you will learn a brief history of photography and basic techniques to help you take better and more artistic pictures. On Wednesday, we will take a field trip to downtown Aurora where everyone will be able to shoot their very own roll of film. The rest of the week will be spent learning techniques to develop film and produce your first print. By the end of the week, everyone will have prints of their favorite photographs to take with them along with their negatives. Sign up for a busy week filled with lots of photography.

Prerequisite: \$10 to cover the cost of film, chemicals, and paper

Michael Schmitt, Class of 2007
Stuart Henn, IMSA Resident Counselor

05211 Lord of the Rings and Philosophy

Half-time Afternoon

This Intersession will make use of the three books from the Lord of the Rings series (and The Hobbit) to gain insight into actual philosophy. We will be using the text, "The Lord of the Rings and Philosophy: One Book to Rule Them All" to facilitate discussions and other interactions that will build a good beginners knowledge for more complex philosophical ideas.

Prerequisite: Students coming into the class MUST have read the three LOTR books: The Fellowship of the Ring, The Two Towers, The Return of the King, and The Hobbit. Finally, all students will also have read, prior to the start of the class, the text: "The Lord of the Rings and Philosophy".

Dr. Lee Eysturlid, IMSA Faculty

05212 Nemo for Novices: A Crash Course in Marine Biology

Half-time Afternoon

From underwater dragons and goblins, to sea fireflies, to double-jawed creatures straight out of Alien, sea animals have evolved weird and exciting adaptations. This class will use the movie, Finding Nemo, as a diving- off point to learn what it takes to survive in the deep blue and to explore sea creatures great and small. We'll follow Marlin and Dory on their adventure through their cozy coral reef home to the deep abyss and all the niches in between. We will also touch upon how the ocean affects your everyday life and the harmful impact humans can have on this important ecosystem.

Prerequisite: None

Kit Pfeifer, Kids Institute
Vicki Burgholzer, Science IPA

05213 Programming Perl

Half-time Afternoon

In this class, I'll introduce students to the Perl programming language. We will learn the basic syntax, and then move on to object-oriented and functional programming. After this, we'll learn about higher-order functions and Perl's dynamic nature, and see how to apply these programming techniques to application development in Perl. Along the way, we'll also cover testing and software design patterns.

Prerequisite: An IMSA programming course.

Jonathan Rockway, Class of 2004
* Staff Sponsored

05214 Psychology in a Nutshell

Half-time Afternoon

Have you ever wondered what makes people do what they do? Or think what they think? Do you ever wonder how emotions affect learning or how stress affects your health? These are questions that psychologists continue to ask themselves and the world. This Intersession will attempt to cover in brief some of the largest topics in psychology in a broad overview as a guide to the discipline as a whole. Topics will range from brain structure to childhood development to thoughts and emotions and the latest theories on what makes people "crazy" and what is simply normal. Take this Intersession if you're curious about yourself and the world around you, especially if you are entertaining the notion of studying this area of science. Look forward to a whirlwind of information and lots of fun.

Prerequisite: None

Amber (Kitty) Thompson, Class of 2003
* Staff Sponsored

05215 'Science' Without Experiments? How Economists Measure Cause & Effect in the Real World

Half-time Afternoon

Economists study how scarce resources are allocated. When a poor country has a limited budget for providing health care, should it focus on pre-natal clinics or drugs for HIV-positive citizens? Should land be set aside as natural preserves or used for mining & logging? When there aren't enough jobs for everyone, who ends up unemployed? In this course, we will discuss *how* economists come up with answers to these questions using data from the real world.

Unfortunately (or fortunately, depending on your perspective), economists usually can't do an experiment that will help them find the effect of a certain policy. It wouldn't be possible to randomly assign some countries stringent labor laws and others lax policies and see which countries grow faster. Instead, economists have to get clever. We'll talk about a few of their methods that emulate the scientific process, and also discuss the ethics (and practicalities) of making major policy decisions based on such studies.

This course is designed for students who are interested in activism, government, public policy, or the scientific method in general, and requires no knowledge of economics, per se. Nor will this be a math-oriented course; the methods we're going to cover are really just based on the simple principles of scientific experimental design. You might be surprised by how much this type of research has in common with your physics class! The instructor is a Ph.D. candidate in applied economics at the University of California, Berkeley.

Prerequisite: None

Clair Null, Class of 1997 - (Currently Ph.D. candidate in applied economics at the University of California, Berkeley).

* Staff Sponsored

05216 Speculative Fiction: Literature and Film

Half-time Afternoon

Sci Fi and Fantasy, or "speculative fiction," has been a rich and lively subgenre of prose literature since the dawn of the 20th century, and the advancement of film making has attracted writers, actors, and directors to adaptation of speculative fiction time and time again. In this brief course, we will focus primarily on the literature and films of Philip K. Dick, Arthur C. Clarke, and Isaac Asimov in the hopes of identifying what common themes in the genre appeal to our imagination and ignite the creativity of audiences and artists alike. Sample texts may include, time allowing, Dick's *Do Androids Dream of Electric Sheep?* and selected short stories; Asimov's *I, Robot*; and Clarke's *2001: A Space Odyssey*.

Prerequisite: None. However, student must purchase one or two texts, not to exceed \$20.

Tracy Townsend, IMSA Faculty

HALF TIME SESSIONS, Evening

05301 Fast, Easy, Accurate: Approximation Methods in Business and Finance

Half-time Evening

Many quantitative problems in business and finance don't require answers with the level of precision that comes from solving equations analytically (the pencil-on-paper math that yields exact solutions). And analytic solution methods can be too slow, too difficult, or perhaps even impossible given the information and time constraints in the real world. Fortunately, there are a variety of other ways to find reasonably accurate answers with limited information or limited time. We'll survey several such graphical and numerical methods, discuss some of the underlying mathematical theory, and practice with real problems in business and finance.

Prerequisite: MI IV required. (ABI or BCI is helpful but not necessary.)
Students should bring their laptops.

Pranav Kiran Parekh, Class of 1992
* Staff Sponsored

05302 Moments of Light: Art, Philosophy, and the Creative Spirit

Half-time Evening

A work of art exists in several dimensions: the culture that it springs from, the dominant systems of thought that shape it, the intentions and inner struggles of the artist, and the assumptions of those who experience it. In this Intersession, we will look at five individual works of western art in all their complexity, one on each day of the course. We will explore the relationship of each work with society, politics, religion, and philosophy; we will consider changing definitions of the beautiful, the sacred, and the sensual; and we will study the way that works of art reflect the experiences and struggles of the artist.

Prerequisite: Eyes

Dr. Rob Kiely, IMSA Faculty

05303 **The Fantastic Folk**

Half-time Evening

There is a long tradition of Folk Culture in American history, but four families of traditions have survived where others have fallen. These four have the power to connect the people of America through their long lasting heritage. The team of four consists of: The Contra Dance- typically a loud and fast folk, but succeeds at connecting many people in a short time. The Waltz- birthed from a boring box step into a graceful, passionate folk who deepens a connection between partners. The Cajun Dance (also known as Crazy Creole Zydeco) - the youngest member of the group, but certainly not one to ignore. The Crazy Creole Zydeco keeps everyone on their toes with a more modern swing about itself. The Storyteller- the age old sage committed to sharing the adventures of the Fantastic Folk. Together these four create a force to be reckoned with; spreading American Folk Culture to the world!

Prerequisite: Participants should be able to place one foot in front of the other in a forward walking motion. They should also be able to ace a quiz of "Which way is left? Which way is right?" by verbally communicating in an effective manner.

\$30 per participant to cover the costs of LIVE MUSIC! and guest teachers.

Valerie Young, Current IMSA Student
Ivy Bekker, Current IMSA Student
Molly Breslin, IMSA Resident Counselor

05304 Ethics in America - NEW PROPOSAL

Half-time Evening

This is about teaching students to look at the impact of ethical decision making from many different vantage points on the same issue.

A video instructional series on ethics for college and high school classrooms and adult learners; 10 one-hour video programs This series uses the Socratic method to build analytical skills and examine ethical questions. The programs aim to sharpen moral reasoning without favoring a particular position by exploring ethical dilemmas in legal, political, medical, corporate, and military arenas. Panelists include Antonin Scalia, Faye Wattleton, and Peter Jennings. Produced

by Columbia University Seminars on Media and Society. 1989. ISBN: 0-89776-526-5. Students will participate in discussions and write short essays from a point of view not represented in the videos.

Prerequisite: None

Ann Goldston, Current IMSA Parent

* Staff Sponsored

OFF CAMPUS TRIPS

2001 Building Houses, Building Hope: Habitat For Humanity

Off-Campus Trip

Full-Time

Howdy!!! A home's foundation is much more than what it is built on. Join IMSA's Habitat for Humanity Campus Chapter as they explore El Paso, Texas for a week long build. Meet Habitat home-owners, see first hand the social issue of poverty, get the opportunity to build at an actual housing site and help in the planning and organization of The Collegiate Challenge Experience. Be a part of building hope for others.

Prerequisite: Students will be asked to provide a monetary fee of \$250.00. This covers: housing, transportation, all meals, commemorative tee-shirt, donation to El Paso HFH and additional social expenses.

Linsey Crowninshield, Student Life

Michelle Zoellner, IMSA Resident Counselor

2002 Exploring Your Creativity Self Through Art, Writing and Physical Activity in Historic Taos, New Mexico

Off-Campus Trip

Full-Time

Taos, New Mexico is a place which has historically attracted artists of all kinds who find inspiration from the beauty of the area. Each participant will be given the time, the guidance and the resources to express their creativity while experiencing various aspects of the rich culture of Taos. Activities will include writing, yoga, hiking in the mountains, producing artwork, touring an ancient pueblo and modern earthships, visiting museums and art galleries. We will be staying in the historic Mabel Dodge Luhan Inn.

Prerequisite: Cost will be about \$1100.00 per person which includes airfare, ground transportation, room and board, art materials, and fees for field trips. Students will pay for their trip out of pocket.

We must get at least 8 students to give us a deposit by Nov. 1st.

Airline tickets need to be purchased and hotel deposit made by

Nov. 15th. Van rental in Albuquerque must be reserved.

Parent letters and What to Bring list mailed out in November.

Deb McGrath, Student Life

Chris Kolar, Office of Research & Evaluation

2003 Honduras Service Intersession

Off-Campus Trip

Full-Time

Nuestros Pequeños Hermanos ('Our Little Brothers and Sisters') was founded in 1954 by Father William Wasson; since then over 15,000 children have grown up in the NPH family, which now operates homes in seven countries: Honduras, Haiti, Nicaragua, Guatemala, El Salvador, the Dominican Republic and Peru. Nuestros Pequeños Hermanos is a charitable organization serving orphaned and abandoned children in Latin America and the Caribbean. Its mission is to provide these children with shelter, food, clothing, healthcare and education in a family environment. Today, over 2,800 children are being cared for in a loving, secure environment. Located one hour from the nation's capital, Rancho Santa Fe is a thriving community. Almost 600 boys and girls reside in this little village nestled among the hills of the Honduras countryside.

Prerequisite: Approximately \$1500 per student (this will include plane ticket, lodging and food for the week)

Lauren Lutz, IMSA Resident Counselor
Sarah Blosser, IMSA Resident Counselor

2004 Scuba Diving and Lionfish Invasion Research

Off-Campus Trip

Full-Time

Voracious alien predators are threatening the native species in the Atlantic Ocean. A weeklong live-aboard scuba diving and research opportunity awaits students interested in investigating this situation. The sailing vessel Cat Ppalu and coral reefs teeming with marine life will be our "classrooms". A scientist from REEF (Reef Environment Education Foundation) will guide our lionfish invasion research: observation, specimen collection, analysis, and data recording. Our data will be shared with REEF and with the National Oceanic and Atmospheric Administration (NOAA).

Prerequisite: Basic Open Water Scuba Diver certification; current passport
PLEASE NOTE: trip begins on Saturday January 5th and ends on Friday January 11th

\$2,400.00 includes round-trip airfare between Chicago and the Bahamas; ground transportation in Nassau; 4% Bahamas tax; Bahamas Underwater National Park fee; 7 day/6 night accommodations on a 65 foot catamaran; all meals and beverages on the boat; all scuba diving equipment; 4 professional crew members, REEF scientist, 2 adult chaperons; ocean kayaks; fishing equipment; \$200.00 required tax-deductible donation to REEF; 15% gratuity for crew

Susan Bernal, Student Life
Gary Bonner

2005 The Eternal City: Rome and Italy

Off-Campus Trip

Full-Time

Students will travel to Rome after studying basic Italian to discover the beauty of the Eternal City and surrounding areas. We will participate in cultural activities, tour timeless monuments, advance our appreciation for Italian language and cuisine, as well as discover some of the most brilliant works of Western art and architecture. Local arrangements will be facilitated by hosts of the Notre Dame University Architectural program in Rome.

Prerequisite: Completion of application and interview with sponsors. Priority will be given to students participating in the Conversational Italian Study Group.

Estimated Cost: \$ 1,300.00 - Students will pay their own way and be responsible for lunch and dinner costs.

Jose Palos, IMSA Faculty
Rosemary Forni, Receptionist
Thomas Vandiver, Current IMSA Student

2006 Trip to Spain

Off-Campus Trip

Full-Time

'Vamos a España! 'Quieres practicar tu español fuera del salón de clase? ¿Quieres tener la oportunidad de aprender sobre otra cultura? Enjoy the language, culture and sites in Spain during this Intersession trip. We will visit places like museums, parks, castles and stores to give you the opportunity to learn about the culture as well as practice your Spanish skills. We will stay in Madrid but will take two one day trips. Ride a fast train and spend the day touring Toledo. Take a tour to Segovia and Avila and visit some magnificent sites. What about attending a soccer game, a flamenco dancing show or a cooking class?

Prerequisite: Student is Spanish classes. An opportunity for one or two native speakers to join in.

\$1350 per student

Dr. Aracelys Rios, IMSA Faculty
Minerva Juarez, Student Life