Full-time Session, Morning/Afternoon

10A01 Basic Portuguese in the Context of Mozambican Culture and History - CANCELED

Students will learn about the culture and history of Mozambique through a conversational introduction to its official language, Portuguese. Throughout the week, students will construct a Mozambican alter-ego for themselves, filling out their alter-ego's identity (lifestyle, family, education, beliefs, etc) as they learn about such topics as the country's history, food, the HIV epidemic, etc, as well as language basics.

Prerequisite: Familiarity with basic Spanish very helpful because much of the grammar and the vocabulary of the two languages are very similar.

$10.00 possible student cost

Susan Johnson, Class of 2000
* Staff Sponsored

10A02 Building a FIRST Robot

Are you interested in learning how to design and build a competitive robot and working together with students and adults? This intersession is the first week of a 6 week project to design, build, document via the web, and program IMSA's FIRST competitive robot.

The FIRST Robotics competition is an international 6 week project where high school students have to build a robot to complete a specified task. FIRST is an acronym For Inspiration and Recognition of Science and Technology, which is a non-profit organization looking to inspire students to investigate and use science and technology.

Prerequisite: Membership in the IMSA Robotics Club

James Gerry, IMSA Staff
Rachel Walker, Current IMSA Student

10A03 Create A Movie Of Your Family's History

Every family has a story to tell. Where did we come from and how did we get here? Who were the patriarchs and matriarchs, the war heroes and the villains, and how did they live? From the old photos in the trunk to the digital photos of the newest baby in the family, the story is usually preserved only in scattered bits and pieces. Let's gather those images and tell the story of your family. Using digital photo restoration techniques and simple but powerful movie-making software, students will create a documentary of their family's history in pictures. We will learn to apply special effects, integrate sound tracks...
into the movie, and burn the movie to DVD so that everyone in the family can enjoy it. An added bonus will be a digital portfolio of family images preserved for future generations.

Prerequisite: Students must bring in a collection of photos from their family. Scanning these photos before the course begins will be necessary. Specific scanning instructions can be obtained from the instructors.

Dr. Mark Horrell, IMSA Faculty
Diane Hinterlong, IMSA Faculty

**10A04 IMSA on Wheels: Your Guide to Amazing Magnetism**

Full-time Morning/Afternoon

IMSA on Wheels is a Magnetic Attraction! Come and get involved in the IMSA on Wheels traveling science show that presents to elementary and middle schools performing science shows, written by IMSA students. You will be trained in presentation skills as well as Magnets and Electromagnetism demonstrations and tie it all together around an exciting, engaging script. This year features a dynamic hands-on interaction with middle school students.

Prerequisite: None

Qi-Yuan Gou, Current IMSA Student
Tracy Miller, IMSA Staff

**10A05 Introduction to Clinical Medicine (Session Closed)**

Full-time Morning/Afternoon

Students will spend the week at Rush Medical College. They will be exposed to several areas of basic science and clinical medicine in sessions led by Rush students and staff. Additionally, they will read and discuss articles relating to ethical issues in medicine or humanism in medicine.

Prerequisite: None

Sharon Gates, Professor - Rush Medical College of Rush University
Christen Klochan, Class of 1999
* Staff Sponsored

**10A06 Is it Toe-May-Toe or Toe-Ma-Toe? That is the question. An Introduction to the Study of Linguistics**

Full-time Morning/Afternoon

A little scared of Beowulf? Do you wonder why words are pronounced differently? Why is it soda and not pop (or pop and not soda)? What is the origin in which English came from? If you have asked the same questions, then this class is for you. This class is basically an introduction to linguistics, the study of languages. You will learn about different sound uses and changes over time. You will explore the meanings of words and how they have changed over time. Also you will learn why I pronounce my name Sh-aw-
na instead of Sh-an-na. A sum up of the course materials: the basic topics will be phonetics, etymology and semantics.

Prerequisite: Students who decide to take this class must have an interest in languages and the perception of speech.

Shanna Wilcox, Class of 2004
Socorro Cintron, IMSA Faculty
Dr. Chris Colburn, IMSA Staff

10A07 Modern and Contemporary Dance: Which Way is Forward?
Full-time Morning/Afternoon

"That was pretty." "I liked it." "I didn't get it." Why can we speak intelligibly on other art forms - such as music, literature and painting - but are tongue-tied for dance? In order to investigate the ignorance and value systems through which an audience views concert dance, this intersession allows students to investigate historical and contemporary trends by participating in a modern dance technique course. We will also watch and discuss significant works of the 20th century including some artists who are currently creating. Our learning will culminate in a dance 'happening' (informal performance) and a subsequent talkback.

Prerequisite: None, though dance experience may be helpful.

Christopher Knowlton, Class of 2003
Phyllis Chestnut, IMSA Staff

10A08 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.

Students will be expected to provide, or to use already available materials and equipment, for their final projects. In addition each student will need $20.00 for dinner Thursday evening.

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

Dr. Christian Nøkkentved, IMSA Faculty
John Stark, IMSA Faculty
**10A09 Playwriting Workshop**  
Full-time  Morning/Afternoon

In this playwriting workshop we will learn the fundamentals of dramatic writing, story structure and dialogue. Through intensive writing exercises and workshopping sessions, students will develop an entire first draft of a one-act play during the course of the week. The skills we develop for playwriting will be of particular use for students who are also interested in screenwriting, and to some extent, fiction, as well. Activities will include freewriting, scene writing, reading examples of published plays (as well as viewing films) and workshopping. Students are expected to spend a significant amount of time each day writing, and much of our time as a group will be devoted to enjoying each other's work and giving feedback. During the course of the week, students should be able to make significant headway towards completion of a one-act play.

Prerequisite: An interest in theater or film is helpful, but not required. Participants will be asked to view a yet-to-be-determined film over winter break.

Tom Leger, Class of 1999  
* Staff Sponsored

**10A10 Shorin-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 $5.00 for an optional 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, IMSA Staff
**10A11 2007 Spring Break Intersession in St. Petersburg (Session closed)**

Full-time  Morning/Afternoon

IMSA Russian 2 and 3 students will spend one week in St. Petersburg during Spring Break, visiting sites of historic and cultural interest, interacting with Russian people, and experiencing everyday life in St. Petersburg.

Prerequisite:  Open to current Russian 2 and 3 students. Students will attend mandatory orientation sessions during the January intersession in order to prepare for the trip.

The estimated cost is $2,100. This includes airfare, visas, hotel accommodations, meals, sightseeing, local transportation, travel insurance, and guides. All costs will be covered by students.

Paavo Husen, IMSA Faculty

**10A12 Student Inquiry and Research**

Full-time  Morning/Afternoon

Students who have an approved SIR investigation may pursue SIR for Intersession for half-time or full-time. Advisors/mentors must be willing to assist with monitoring attendance.

Prerequisite:  Written and approved proposal for accomplishments during Intersession. Approval of advisor and Coordinator of SIR. Students must provide their own transportation for off-campus site visits.

Dr. Judith Scheppler, IMSA Staff

**FULL TIME SESSIONS, Afternoon/Evening**

**10B01 Hands of Conversion and More....**

Full-time  Afternoon/Evening

To enlighten, engage and encourage IMSA students to learn about the world of the Deaf and Hard of Hearing by studying the history of sign language and practice expressive and receptive conceptual sign language and fingerspelling. Intertwined within the lessons, students will learn of famous deaf individuals, technological advancements made for deaf individuals to enjoy, and some aspects of Deaf culture. I would like to have the afternoon session focus on learning conceptual sign language, fingerspelling and the history of sign language. During this time, students will also prepare their final project which will require them to interpret a song or a children's storybook using sign language. These projects will be performed in front of the class and videotaped for their future enjoyment.

The evening session's focus will be on different aspects of deaf culture. For example, we will learn of famous deaf individuals, the influence technology has had on deaf culture and its impact on individuals. Also, I would like to show movies that incorporates sign language and reinforces topics we discuss. If time is left, students will continue to master sign language by practicing with one another and by working on their final projects.

(Continued on next page).
Prerequisite: 10B01 Hands of Conversion and More - continued
No previous experience necessary. However, full participation will be required to obtain the most the sessions have to offer.

Tammy Larson, IMSA Resident Counselor

10B02 Networks, Surfaces, Knots, and Colors
Full-time Afternoon/Evening

We will explore several topics in non-Euclidean geometry, including network graphs, stretchy surfaces, knots, and coloring problems: What is a dual graph and what is the dual of a dual graph? What is the difference between a sphere and a donut, from an ant's perspective? What bizarre shape do we get if we sew the edge of a disk to the edge of a Mobius strip? When is a knot not a knot? If time allows, we will also explore symmetry and experiment with coloring using cellular automata.

Prerequisite: None

Pranav Kiran Parekh, Class of 1992
* Staff Sponsored

10B03 The Coming Plagues (Crash Course in Patho)
Full-time Afternoon/Evening

This intersession will examine the potential negative interactions between microbes and humans. We will look at 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: General Microbiology or Microbes and Disease.

Dr. Ed Goebel, IMSA Staff

10B04 The Heirs of Prometheus: A History of Technology and Culture
Full-time Afternoon/Evening

The Heirs of Prometheus: A History of Technology and Culture Technology defines culture; it shapes human interactions and mediates the relationship of humanity to the physical environment. Conversely, culture defines technology; existing social structures and intellectual systems determine the nature of technical innovation. This course will examine the complex dialogue between technology and culture through a series of case studies, distributed in time and space. In the process, we will explore a number of dominant themes in the history of technology: the role of science, the impact of warfare, the significance of economic forces, and the importance of custom and class. (Continued on next page).
Prerequisite: 10B04 The Heirs of Prometheus - continued
Discernment and breeding, or, a pulse

Dr. Rob Kiely, IMSA Faculty
Dr. Clay Skinner, IMSA Faculty

HALF TIME SESSIONS, Morning

05A01 Anatomy and Physiology of the Voice
Half-time Morning

Are you a singer or actor who has always wanted to know how your voice works, how you use it and how you can take care of it? What do those mysterious vocal folds in your throat really look like? This intersession will be partly instructional and also will contain opportunities for discussion and demonstration of concepts, and singing! Students will have some input into topic selection including: the physiology behind imagery and vocal tasks used in vocal warm-ups for drama, choir and voice lessons, the acoustics of speech, vocal fold histology, vocal hygiene, and much much more. Presented by: Maria Wilson, M.A. Speech-Language Pathology, IMSA Class of 2000

Prerequisite: Some experience or interest in singing is recommended.

Maria Wilson, Class of 2000
Jennifer Spuehler, IMSA Staff

05A02 Efficiency of Movement: An Introduction to Taiji
Half-time Morning

The only person who can figure out how to move your body efficiently is you. In that way, Taiji is always problem-based learning. Bad habits of structure and movement are easy to acquire doing hour upon hour of sitting, standing, reading, writing, typing and not sleeping. Participants will learn to recognize some of their inefficient habits, as well as methods for correction. I am not a master, but I do assist with beginning level classes, and have been allowed to teach what I know. I would like to share Taiji since I wish I had known it during my high school days.

Prerequisite: None

Kurt Gimbel, Class of 1993
* Staff Sponsored

05A03 Exploring Famous Geometry Theorems and Relationships Dynamically
Half-time Morning

Join us as we use dynamic geometry software to explore a variety of famous (and somewhat less famous) Geometry theorems. The software will allow us to conjecture about and "discover" (for yourself) relationships not easily noticed without the aid of the software. Come have some fun exploring geometry (no, fun and geometry are not oxymorons) in a different and exciting way. (Continued on next page).
Prerequisite: 05B03 Exploring Famous Geometry Theorems - continued
A willingness to try different things with software and get your hands 'dirty' playing with mathematics in order to discover relationship that may not be readily apparent at first.

Dr. Don Porzio, IMSA Faculty

05A04 Go For Baroque - An Introduction to Baroque Music
Half-time Morning

This course will explore the music of three famous composers born in 1685. Bach, Handel and Scarlatti. No musical ability is required but we encourage students with musical and instrumental skills to join us and help us perform some of the music of these composers.

Possible concert ticket cost for students.

Prerequisite: None

Richard Stalmack, IMSA Faculty
Dr. Janice Krouse, IMSA Faculty

05A05 IMSA Model West Wing: Science Policy and the White House
Half-time Morning

Numerous role-playing activities exist for modeling the Legislative Branch of the U.S. government. As the second branch of government, the Executive Branch has just as much power, if not more so. In this class, students will be introduced to the role that the Executive Branch plays in developing, marketing, and carrying out policies that affect so-called STEM issues (science, technology, engineering, and mathematics). After surveying several examples from the “West Wing” TV show, students will be matched to a variety of roles in federal agencies and policy shops in order role-play the development of a Presidential Budget Request. This process requires tactical and strategic negotiation, coalition building, reading the minds of Congress, and good old-fashioned persuasion, to name just a few skills that we will practice.

Prerequisite: None

Timothy Meyer, Class of 1992
* Staff Sponsored

05A06 Kids in Their Environment
Half-time Morning

This spring Lorax Environmental Club and Kids Institute are teaming up to pilot a new environmental education program for a class of fifth-graders in the Aurora area. The focus will be climate change, with special emphasis on the science and possible solutions. The program will comprise a series of biweekly off-campus workshops and perhaps a final exhibition of the class's findings at IMSA’s Earth Day celebration in May. During
intersession week, a group of innovative IMSA students will learn about global warming and use their creativity and knowledge to design entertaining, interactive curricula for four 45-minute workshops. Participants are encouraged, but not required, to follow up with the program by facilitating the program during the spring semester.

Prerequisite: None

Stephanie Chang, Current IMSA Student
Yuxi Ji, Current IMSA Student
Michelle Kolar, IMSA Staff

**05A07 Kids Institute Boot Camp for Counselors**
Half-time Morning

If you love teaching and interacting with younger students (or think you would love it), you will love this Intersession! This is a half-day session for people who currently are or are considering taking part in Kids Institute programs. The session will cover basic teaching and presentation techniques, how to write appropriate FUN! activities and hour planners, and how to handle problem-campers/students. Participants will also run field trips for local elementary school groups at IMSA.

Prerequisite: Be willing to participate in Kids Institute summer programs, field trips, and/or workshops. Interest and enthusiasm required!

Kit Pfeifer, IMSA Staff
Claudia Kim, Current IMSA Student

**05A08 Learning to Swim for Fun and Fitness**
Half-time Morning

Beginning level swim class for non-swimmers and low level beginners (IMSA students AND staff welcome). Buoyancy/Balance/Breathing/Relaxation in the water will be experienced through a series of drills that will have even the most hesitant waterphobe swimming at least one propulsive stroke the length of the pool by weeks end.

Prerequisite: Enthusiasm to learn to swim or swim better. Students need to bring own suit, towel, goggles to class.

John A. Martin, IMSA Faculty

**05A09 Listening to Concertos**
Half-time Morning

We will investigate the constructions of famous concertos, discuss significant features, listen to several, identify performers, and research the current state in performance.

Prerequisite: Interest in listening to music.

Michael Keyton, IMSA Faculty
**05A10 Literature and Psychology**
Half-time Morning

This course will exam the inter-relation between literature and psychology. We will look at psychological systems such as family therapy as applied to works by Dostoyevski, who deals with dysfunctional families in many of his stories, personality theories as applied to the works of Ken Kesey, and gender differences as applied to the works of Doris Lessing, Kate Chopin, and Margaret Atwood.

Prerequisite: None

Dr. Dennis Czerny, IMSA Faculty

**05A11 Math Explorers**
Half-time Morning

Students will create and refine curriculum for the summer math program. "Math Explorers", which is a one-week summer program for seventh and eight grade students offered through the Kids Institute. Students will be active in learning topics from number theory, mathematical games and puzzles, knots, and probability in preparation for teaching in the summer program.

Prerequisite: Students may choose to teach in the summer program

Dr. Steven Condie, IMSA Faculty
Michelle Kolar, IMSA Staff

**05A12 Portfolio Theory**
Half-time Morning

We will apply familiar math (algebra, geometry, trigonometry, matrices) to quantify the risk and return profiles of individual stocks, measure correlations, hedge risks, and find the "optimal" mix of assets in an investment portfolio. We will see how triangles can be used to describe many of the concepts in portfolio analysis, including correlation, covariance, and the decomposition of risk into independent factors.

Prerequisite: Geometry, trigonometry, matrix multiplication and inversion, logarithms

Pranav Kiran Parekh, Class of 1992
* Staff Sponsored

**05A13 The Indian American Experience**
Half-time Morning

This course will highlight various works written by Indian American female authors. The discussion and analysis will focus on issues faced by ethnic women of various ages. These issues include the clash between two cultures, gender roles, and the struggle to define one's identity. (Continued on next page).
Prerequisite: None

Sital Bhargava, Class of 1994
Neha Shah
Peg Cain, IMSA Faculty

05A14 The Physics, Politics, and Uses of Nuclear Weapons
Half-time Morning

Nuclear weapons are in the news again. The Iranian nuclear program, WMDs used as justification for war, and new tests and designs proposed by the U.S. have pushed nuclear weapons back into the spotlight. This course will explore how these weapons work, what they're capable of, who has them or might soon get them, what exists to protect us, and several other facets of nuclear weapons. We will give special attention to Iran and the confrontation over their nuclear program. This intersession is based on a college undergraduate-level course taught at the University of Illinois, and is offered every other year.

Prerequisite: None

Eric Engelhard, Class of 1996
Dr. David Workman, IMSA Faculty

05A15 What Should We Do About Global Warming?
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 about global warming. May include field trips.

Prerequisite: None

Katja Meyer, Class of 1998
Dr. Don Dosch, IMSA Faculty
** 05A16 Conversational Mandarin Club Movie Spree  
Half-time Morning

We will enrich students' understanding of the Chinese language and culture through movies, discussion, and interactive activities.

Prerequisite: None

Wei Lou, Current IMSA Student  
Meng Kang, Current IMSA Student  
Tianyu Du, Current IMSA Student  
Dr. David Abler, IMSA Staff

HALF TIME SESSIONS, Afternoon

05B01 Altered Book Workshop  
Half-time Afternoon

Students will create two altered books of their own, an experimental book and one themed book as well as create a collaborative sculpture that the school can display. Students will learn about artist acrylic paints, beeswax, collage, assemblage, design and color theory and using images to invoke their artistic message.

Prerequisite: An interest in expressing yourself visually, glee at getting your hands full of paint, and the ability to see yourself burning a book for the sake of art without self-loathing.

Students will need access to scissors, rulers, pencils, cutting mats or cardboard, craft knives and blades.

Beth Cote, IMSA Parent  
Michael Hancock, IMSA Faculty

05B02 AMC/AIME Intersession  
Half-time Afternoon

Every year, the American Math Competitions (AMC) hold nationally administered contests to determine the six-person US team to participate in the International Math Olympiad. The AMC 10 & 12 are 75-minute, 25-question multiple choice examinations which all IMSA students are required to take. Approximately 12,000 students (about 180 from IMSA last year) qualify to take the next contest – the American Invitational Math Exam (AIME), a 3-hour, 15-question test where answers are integers from 0 to 999, inclusive. About 250 students across the nation qualify for the next stage – the USA Math Olympiad (USAMO), a 9-hour, 6-question essay/proof exam to be done over two days. High-scorers are subsequently invited to attend an all-expense-paid trip to the Math Olympiad Summer Program (MOSP), where the team selection takes place.

In this intersession, we'll prepare for the AMC and AIME by discussing problems and test-taking strategies, in addition to answering any questions you may have. We'll hold
sessions at two different levels – one geared towards the AMC and the other more focused on the AIME. Depending on student interest, we may also hold sessions for USAMO preparation. At the end, we'll administer a practice test at each level, and provide feedback. [Note: new material this year, so returning participants will not be bored!]

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

Tony Liu, Current IMSA Student
Jenny Iglesias, Current IMSA Student
Luke Moryl, Current IMSA Student
Kevin Tao, Current IMSA Student
Je-ok Choi, Current IMSA Student
David Chang, Current IMSA Student
Dr. Steven Condie, IMSA Faculty

**05B03 Book to Reel**
Half-time Afternoon

This course will study the transfer of a literary work to the big screen. Such things as the changes made in a work of literature in going from print to screen will be studied. We will look at The DaVinci Code, the most recent Harry Potter book/movie, and Stephen King's story "The Body" and the movie version Stand by Me.

Prerequisite: Students must have read books under consideration before the class starts.

Dr. Dennis Czerny, IMSA Faculty

**05B04 Do Students Get in the Zone?**
Half-time Afternoon

Athletes sometimes experience "the Zone;" can students? Perhaps, if we consider tests to be like high stakes sporting events, and "the Zone" to be what Csikszentmihalyi termed "flow." Learn about how flow may be a part of your own life, and how to conduct a research study to see if it is a part of your peers'.

Prerequisite: None

Jacob Marszalek, Ph.D., Class of 1990
Chris Kolar, IMSA Staff

**05B05 Ethical Leaders Need Ethical Theories**
Half-time Afternoon

When can you act out of self-interest? When are you obliged to give to others? Are the lives of family members worth more than outsiders? What are good and evil? What is the good life? Philosophers, both classical and contemporary, have posed a variety of answers to these questions. Come tell them all they're wrong.
We will read from a text outlining the theories and I will lecture a bit, but the majority of class time will be discussion-driven. Everyone will be asked to write a short paper defending, refuting, or extending a view of their choice. Topics of interest include: externalism vs. internalism (shame vs. guilt), the categorical imperative, objectivism vs. relativism, virtue ethics and the good life, sources of ethical theories, utilitarianism, and applied ethics.

You may know what you would do in a particular ethically murky situation, but do you know why? Stand up and defend your viewpoint, challenge others to do the same, and learn something about ethical leadership.

Prerequisite: None

Jason Kahn, Class of 2003
* Staff Sponsored

05B06 Explorations in Virtual Teaching
Half-time Afternoon

Come along on an exploration of teaching kids virtually. From the physics of rocketry to the math behind the kaleidoscope, IMSA students will connect with middle school students around Illinois. During the week 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, IMSA Staff
Dr. Susan Bisinger, IMSA Staff

05B07 Good in a Room
Half-time Afternoon

Want to nail that college interview? Land the perfect job? Learn how to work a room? This intersession focuses on perfecting your pitch of a one of a kind product -- you. Participants will learn how to finesse their presentation of themselves, both in person and on paper. Throughout the course of the week, students will learn how to set specific, attainable goals for themselves and develop a plan to achieve them. Activities will include mock interviews, resume workshops, and a capstone networking event.

Prerequisite: None

Lavina Jadhwani, Class of 2001
* Staff Sponsored
05B08 Hands-On Engineering: Design, Build, Compete
Half-time   Afternoon

Teams of students will design and build structures to solve pre-defined problems, and then compete with other teams. 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: Flexible thinkers interested in any of the following: engineering, design, business strategy, competitive markets, game theory.

Kyle Wild, Class of 2002
Ryan Spraetz, Class of 2002
Branson Lawrence, IMSA Faculty
Professor Brian Lilly, University of Illinois, Urbana-Champaign

05B09 Introduction to Linux
Half-time   Afternoon

In this Intersession, the basics of Linux will be taught primarily from the vantage-point of the command-line interface. Students will study the use of commonly used commands, redirection, the filesystem, the bash shell, and simple scripting. Near the end of the week, students will use Linux running off of live CDs.

Prerequisite: None

Daniel Geiger, Current IMSA Student
Steve Terrell, IMSA Staff
Neal Groothuis, IMSA Staff

05B10 LaTeX, Python, and You
Half-time   Afternoon

We will teach the basics of useful utilities that will enhance your papers and will generally be useful in anything engineering. Subjects include: LaTeX (a high-quality typesetting system), Python (a very useful scripting language), text editor (VIM), UNIX shells (bash, zsh), regular expressions, and other useful utilities that will make your papers look significantly better and much more professional.

Prerequisite: None

Wit Riewrangboonya, Class of 2005
Dennis Griffith, Class of 2005
Joe Re, Class of 2005
* Staff Sponsored
05B11 Music Composition and Technology (Session Closed)
Half-time  Afternoon

Have you had a melody in mind that you want to write down but just don't know where to begin? This class is for you! We will be learning the current version of Sibelius, the most popular music composition software available today. Through Sibelius, you can sit at a music keyboard and play your melody while the software transcribes your playing to the screen. Then come and listen to current composers discuss their composition techniques such as use of dissonance and consonance, how to take your melody and expand it harmonically, and orchestrating your melody for various instruments.

Prerequisite: A prior knowledge of basic music theory (notes and scales)

Dr. James Priovolos, IMSA Faculty

05B12 Science Olympiad Intersession
Half-time  Afternoon

The Science Olympiad intersession this year is open to both experienced competitors and those who just want to get a taste of what it’s like to be on the team. Everyone will experience a lab event and a building event, with teams of six preparing for a six-event contest on Friday. Chemistry of gases and nuclear reactions will be offered as a lab event along with physics of rotational motion and an introduction to forensics. Participants will have the choice of building a 7-gram balsawood airplane, a cart which safely and accurately transports eggs a fixed distance, or a balsawood lever capable of lifting many times its weight. Those new to SciOly will get a sense of the competition on Friday, when all of the built designs will be tested against each other and lab tests will be administered. The winners of the competition will be announced at the end of Friday. Friendly and exciting competition, as well as constructive criticism, can be gained from the contests. Those on the Science Olympiad team will have a whole week to perfect their study event efficiency or building designs.

Prerequisite: None

Hon Lung Chu, Current IMSA Student
Dennis Kriventsov, Current IMSA Student
Vicki Burgholzer, IMSA Staff
Josie Wallmuth, IMSA Faculty
Ray Urbanski, IMSA Staff
05B13 Shall We Dance--Latin Style? YES!
Half-time       Afternoon

This is an intense half day intersession focusing on latin rhythms and style of merengue, salsa, cha-cha and more. A professional teacher from MAY I HAVE THIS DANCE will be with us part of the time to get dancers off on the right foot (or left foot).

There is a fee of $50 for the week.

Prerequisite: None

Nancy Todnem, IMSA Faculty

05B14 Swimming Forum on Speed Work: Theory and Practice
Half-time       Afternoon

This year's intersession on competitive swimming focuses on speed work as an integral part of the training cycle for both distance swimmers and sprinters alike. The course will have both on-deck discussions and a practical component. While swimmers cover topics such as strength work, reaction time, recovery, and stroke mechanics, they will both have the opportunity to discuss theory and practice with an experienced coach and be able to try out those ideas both in and out of the pool in a problem-based learning environment.

Prerequisite: A background in competitive swimming is required. The ability to swim at least 2000 yards per hour is required. Members of the Boys' and Girls' Swimming teams are highly encouraged to enroll. Other students may enroll with permission of the instructor. Costs should be minimal, other than training supplies (suits, caps, goggles) that students will need to supply themselves. If they meet the course prerequisites, they should have these items.

Dr. Chris Colburn, IMSA Staff

05B15 The Graphic Novel
Half-time       Afternoon

"Comic books" have long suffered from a variety of stigma (that they aren't serious, aren't "real" literature, or are just for kids) which have kept them out of the classroom and largely out of "serious" academic minds. In truth, graphic storytelling is one of the most creative, vital, and expressive of the modern literary genres, endowed with the power to reach readers across boundaries of age, gender, and culture. In this course, we'll take a closer look at graphic storytelling, and the graphic novel in particular, by reading a wide array of these texts and some literature about the theory behind the genre. Our artists and storytellers will include Alan Moore, Dave Gibbons, Art Spiegelman, Neil Gaiman, Will Eisner and many others. From superheroes to the Sandman, fantasy to science-fiction, memoir to political polemic, and beyond, we'll explore the breadth of this exciting genre. Whether graphic storytelling is new to you or something you've already enjoyed, this course will offer you a unique opportunity to look closely at a genre all too often relegated the magazine racks.
Once the roster is determined, students will be provided a short list of books they are to buy and instructions for what to read before Intersession begins. The total cost for these books will not exceed $60 per student.

Prerequisite: None

Tracy Townsend, IMSA Faculty

**05B16 3D Game Design and Development: An Introduction**
Half-time Afternoon

As an IMSA student, you've probably seen or played video games, but have you ever thought about creating one? In this intersession we will explore different aspects of creating a game, from creating objectives and missions, to designing a 3D world, to interacting with the player. To accomplish this, we will be utilizing a number of tools. Second Life, a 3D development environment, will allow us to create 3D objects, share them with each other and provide a base upon which we build. Using Photoshop, we will give our creations texture and appeal and make them move using Avimator, an animation designer. We will learn how to give our creations behavior using a programming language called LSL. The kind of game we develop will be a culmination of the contributions each team or individual make to our project.

Prerequisite: We simply ask that participants bring a desire to create and a willingness to contribute ideas.

Francisco Saldana, Current IMSA Student  
Dr. Rob Flemming, IMSA Faculty

**05B17 Learning Devnagari Script through Hindi Conversation**
Half-time Afternoon

This intersession encompasses the apprehension of Devnagari script through the form of modern formal and informal Hindi conversation. Devnagari script is used by over a billion people, particularly in South Asia, for the languages of Hindi, Sanskrit, Marathi, and Nepali among others. Devnagari script is a very scientific and logical script that can be easy and fun to learn.

This course emphasizes Devnagari learning through conversational Hindi. Vocabulary, basic conjugations, and grammar will be taught. The conversational Hindi used will include standard formal Hindi, regional informal forms (such as Bombay Hindi), and a little "Hinglish" which is also commonly used. To encompass all three of these types of conversational Hindi, a Hindi movie will be shown.

Prerequisites: Previous knowledge of conversational Hindi or an Indic language helps, but is not required.

Harry Thompson, Class of 2005  
Raman Nohria, Class of 2006  
Dr. Lee Eysturlid, IMSA Faculty
**05B18 Japan: Land of the Rising Sun (Spring Break Trip)**

Half-time     Afternoon

This trip will combine an opportunity to visit Japan with an educational, sociologically focused examination of cultural differences between cities on our tour. Classes meet half days during intercession to study Japanese culture and to work in student teams to prepare the whole group for our activities. Students will be expected to pick a theme from regional Japanese culture that interests them and to share that interest with the group. During our spring break trip (March 31-April 9) students will tour at least 3 major cities in Japan. Our trip includes stops at some of Japan's most famous landmarks.

Registrations must be received by November 15th. Costs for the trip are estimated to be $3,300.00 and includes all transportation, lodging, admissions, 2 meals per day, the services of a private tour guide and comprehensive insurance while abroad. Additional expenses for lunch daily, souvenirs, and activities during free time should be taken into consideration. Also, you will be required to obtain a passport if you do not already own one.

Prerequisite: Japanese Language skills are NOT a requirement. Students are asked to bring enthusiasm for diversity and cultural exploration. Should the need arise a selection process using an essay and recommendations shall be used to select the tour group. Students must attend an information session in October to receive tour materials.

If for some reason, students are unable to travel, an individualized learning plan will be required.

Nathan Kafka, IMSA Resident Counselor
Pat Polk, IMSA Resident Counselor
Julie Dowling, IMSA Resident Counselor

**HALF TIME SESSIONS, Evening**

**05C01 Advanced Volleyball**

Half-time     Evening

Students will engage in practical sessions that will teach and develop the advanced skills & tactics of volleyball. These will include but are not limited to jump serving, jump setting, swing blocking, diving/rolling, and hitting approach angles for various hitting techniques, defensive rotations and offensive plays. Students will learn these skills with the focus on the biomechanical principles behind them. Students will be analyzing their own performance through the use of video analysis. Students will also watch and analyze the game of volleyball at a high level (the collegiate level) This intersession will also include a trip on Saturday to a collegiate volleyball game in Chicago.

Prerequisite: Students will be expected to have:
1. Knowledge of the basic and intermediate skills and strategies of volleyball.
05C01 - Advanced Volleyball continued
3. A high level of fitness that will allow participation in intense physical activity.

Elaine McCulloch, Former IMSA Staff
John Holmstrom, Class of 2006

05C02 America's Boating Course - Earn your boating license!
Half-time Evening

This course allows students ages 12 - 18 to earn their Boating Safety Education Certificate which will allow them to operate a motorized vessel, including personal watercraft. America's Boating Course is a joint project between the United States Coast Guard Auxiliary and the United States Power Squadrons. In addition, the course has been approved by the National Association of State Boating Law Administrators, and is accepted by most states (including Illinois) to meet boating license or safety certification requirements.

Student fee of $50 per person to cover the cost of the textbooks.

Prerequisites: None

John Kane, IMSA Resident Counselor
Rob Gill, IMSA Resident Counselor

05C03 Introduction to Intellectual Property Law
Half-time Evening

Do you like math and science but are not sure what you can do with it? Or maybe you just really like to be on the cutting edge? Learn what it's like to be an intellectual property lawyer, and get an inside view of the practice of law from three practicing alumni. Students will also learn the basics of patent, trademark, copyright, and advertising law and see how their interest in science, math, or technology can be channeled into a fun and challenging career as an intellectual property attorney.

Prerequisites: None

Ann Chen, Class of 1993
Christopher Kaiser, Class of 1992
Joanna Gunderson, Class of 1997
Nick Scholtes, IMSA Staff

05C04 Matrices in Motion: American Folk Dancing
Half-time Evening

Forms of American Folk Dancing are set up and danced in a basic matrix form. It is not surprising that a remarkably high percentage of contra dancing's practitioners are highly educated, often involved in mathematics, computers, or engineering. These mathematical dances and the associated traditional music embody fundamental values of great worth to our culture and our nation. It traces its roots back to Renaissance England and has been
evolving ever since. There are several forms of traditional American Folk dancing, including Squares, Contras, Waltzes and Circle Dances. American Folk dancing is a great way to meet people, listen to good music, get some exercise, and have a blast dancing. You don't have to know a thing about dancing: every single step will be taught to you. We will start at a beginning level of dancing and advance from there. A highlight of our week is that we will have a live caller and band. LIVE MUSIC!!! Musicians are welcome to perform with the band!

Prerequisites: Students must be able to walk. People interested in playing music instead of or in addition to dancing are also welcome, but should contact us ahead of time.

$25.00 fee (only $5/day!), depending upon caller or musicians brought in for dances.

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

05C05 Swing It Out: Introduction to Lindy Hop and Charleston
Half-time Evening

With its roots going all the way back to Charleston in the 1920s, the many styles of swing dancing have been some of the most popular dances in this country for the better part of a century. That's because it's a great way to meet people, hear fantastic music, get some exercise, and show off your mad dance skills.

You say you don't have mad dance skills? Well, then this is the class for you! We're going to start from the beginning and learn the core styles of modern swing dancing: Lindy Hop and Charleston. By the time you're done with this class, you'll be able to go to a swing event anywhere and join in the fun. For you who've had some exposure to swing before, great! We'll tighten down your fundamentals so that you've got extra spit and polish, and we'll cover nifty new material you haven't seen before.

The best part of the class, though, will be the final exam: we'll finish up the class with a trip to a local dance venue. You'll have a chance to try your newfound skills with real live local dancers!

Be there or be square!

$10.00 per student for possible trip to the Willowbrook Ballroom

Prerequisites: Two feet. (They may both be left feet.)

Neal Groothuis, IMSA Staff

**05C06 How to Start a Riot
Half-time Evening

Political scientists like Robert Putnam have claimed that American civic engagement has decreased over the past 50 years to the detriment of our democracy. This intersession is a
two-fold effort to remedy this situation. Firstly, students will learn about the role civil society plays in a healthy liberal democracy. Secondly, they will actively strategize about achieving their own political goals. Students will learn to create small to medium sized activist organizations that are designed to effectively accomplish specific political goals. Topics covered in this area include recruitment, administrative delegation, propaganda, and organizational schemata. Ultimately, students will create a fully functional civil vanguard capable of effective political action. Especially recommended for those already involved in student government!

Prerequisites: None

Justin Doran, Class of 2003
* Staff Sponsored

OFF CAMPUS TRIPS

OC01 Allons à Paris (Session Closed)
Off-Campus Trip
Full-Time

Students will spend 8 days in Paris in January visiting historically and culturally significant sites, interacting with French people, and experiencing everyday Parisian life.

Prerequisite: This experience will take place in Paris in January; however, the selected participants will be expected to attend 3 evening orientation meetings. Preparation includes lessons on cultural and travel expectations, and research. The Paris experience is open to students presently enrolled in a French course. An application essay (in English) and an RC recommendation will be used in the selection process.

$1,800 plus expenses for lunch and dinner, and some cultural events. Additional costs will vary according to the individual. Detailed information will be provided in the letter and itinerary sent to all French students and their parents. Additional costs may include the fee for a U.S. passport, if the student does not already have one.

Brenda Crosby, IMSA Faculty
Willa Shultz, IMSA Faculty

OC02 Analytical Environmental Chemistry
Off-Campus Trip
Full-Time

This full time intersession will take place at the Gossman farm in Jackson County Iowa. Students will learn sampling, field test methods and laboratory test methods for water and soils. Studies on farm soils and water samples from Buck Creek will be performed with an emphasis on learning proper sampling and testing techniques as well as comparing the accuracy and precision of field test methods vs laboratory methods for the same parameters. Field test kits are available at the Gossman farm. Lecture/discussion sessions
on instrumentation will occur at the farm and at ChemRight Laboratories, Inc. in Maquoketa, IA. Laboratory testing will take place at ChemRight Laboratories, Inc. owned by David and Susan Gossman and managed by Susan Gossman.

Arrival at the farm should be after 2pm on Sunday, Jan 7. Departure will be after 5pm on January 12 or any time on the 13.

Prerequisite: Basic high school level chemistry - either at IMSA or home school, a written statement (via email) from the student expressing his/her reason for wanting this mentorship and approval of the sponsor (David Gossman). Parental permission and a power or attorney for medical treatment will be required for each student prior to the end of first semester. (Continued on next page).

OC02 Analytical Environmental Chemistry - continued
Students will need to contribute $20-30 for food for the week.

David Gossman, IMSA Parent
* Staff Sponsored

OC03 Cultural and Educational Exchange to China
Off-Campus Trip
Full-Time

A cultural and educational exchange to China to visit museums, factories and major historical areas. To observe a way of life that is different than most are use to. To better prepare students for the rise of China as a formidable world power during their life time. To develop an understanding of the work ethics and habits that is changing lives in China.

Prerequisite: Passport with at least 1 year remaining and a Chinese Visa.

$2000 (?) (most being airfare) from students, parents and gifts from relatives. Maybe a corporate sponsor can be found (United??) to help offset the costs and cover admissions to museums and IMSA sponsor travel costs.

Donald India, IMSA Parent
* Staff Sponsored

OC04 Fine Arts Culture Trip 2007
Off-Campus Trip
Full-Time

Eight day Fine Arts Cultural Tour of London/Paris. Visit State Department, Parliament, general tour, as well as attend Shakespeare's Globe Theater and Exhibition. Tour the British Museum and the Mausoleum at Halikarnassos. Walking tour of Paris. Tour Centre Pompidou featuring modern art. Tour the Louvre. Also tour Musee D'Orsay. Attend Theatre/Concert one evening. Students will write a comparison paper on the Art
Museums, as well as a critical Review of the Theatre and or Concert. (This trip would leave the Saturday prior to Intersession and return the following Saturday.)

Prerequisite: Cost is $2,400.00 per student which includes airfare, all lodging, meals, and transportation to and from the airport. Deposit of $350.00 due October 5, 2006.

Open to the entire student body, but will only take 25 students - maximum.

Dr. Gregg A. Porter, IMSA Faculty
Clay Sewell, IMSA Faculty

**OC05 Habitat for Humanity Building Houses Building Hope (Session Closed)**
Off-Campus Trip
Full-Time

Students will participate in Habitat for Humanity's Collegiate Challenge program...traveling to Camden County Georgia to participate in a housing blitz.

Prerequisite: Application

$250 per student: lodging, donation, food, tee-shirt, registration fee

Linsey Crowninshield, IMSA Staff
Michelle Zoellner, IMSA Resident Counselor

**OC06 Scuba Diving and Coral Reef Conservation (Session Closed)**

Off-Campus Trip
Full-Time

A weeklong live-aboard scuba diving adventure awaits students in this course. Coral reefs teeming with marine life will be our main "classroom", and we will be active participants in the Diadema Antillarum (spiny sea urchin) Recovery Project. Scuba specialty certifications such as Fish Identification, Coral Reef Conservation, Advanced Open Water Diver, Boat Diver, Night Diver, Rescue Diver and others will be available for interested students.

Prerequisite: Basic Open Water Scuba Diver Certification; current passport

$1,950 includes round-trip airfare, 4% Bahamas tax, 15% gratuity for crew, airport and hotel transfers, Bahamas Underwater National Park fee, all meals and beverages, all scuba diving including equipment, 1 night hotel stay on Nassau, 7 day/6 night accommodations on 65 foot catamaran, 4 professional crew members and 2 adult chaperones, ocean kayaks, fishing equipment

Susan Bernal, IMSA Staff
Gary Bonner, Berry Aqua Paradise
OC07 The Artist's Way in the Land of Enchantment
Off-Campus Trip
Full-Time

New Mexico is known as the Land of Enchantment and Taos is an area which has historically attracted artists of all kinds who find inspiration from the beauty of the area. Using elements of the book /The Artists Way/ by Julie Cameron, the course will give each participant the time and means to engage in personal reflection and the creative processing of experiences. Participants do not have to be artists. The Intersession will integrate learning the history, culture, and topography of the Taos area while doing writing, art, photography, and yoga. Field trips will include a tour of Earthship World Headquarters (www.earthship.com) to see off-grid creative architecture, hiking and snowshoeing in the mountains, a visit to Taos Pueblo, visiting art galleries, and possibly exchanging ideas with students at a Native American reservation school. We will be staying in the historic Mabel Dodge Luhan Inn(http://www.mabeldodgeluhan.com/).

Cost will be about $1,100 which includes airfare, housing for 6 nights, food, transportation in NM, materials, fees for activities and tours. We have no external source of revenue. Students will pay for their trip.

Prerequisite: None

Deb McGrath, IMSA Staff
Audrey Wells, IMSA Faculty

OC08 Trip to Puerto Rico (Session Closed)
Off-Campus Trip
Full-Time

Visit Puerto Rico, la isla del encanto: improve your Spanish, enjoy cultural activities, a visit to a school, local dining, swimming, etc. First, we will visit Old San Juan to sightsee and shop for a couple of days. Then, we will visit different regions of the island. Because you will be traveling with a science teacher, a highlight of the trip will be an all day hiking trip to El Yunque in the Caribbean National Forest. El Yunque is the only tropical rain forest in the United States National Forest System. Join us to enjoy the weather, the culture and the language.

Prerequisite: Open only to students enrolled in Spanish courses. Preference will be given to upper-level students. Native speakers will be considered.

$1,200.00

Dr. Aracelys Rios, IMSA Faculty
Jose Palos, IMSA Faculty
**OC09 Washington DC: An Insiders View of Politics**  
Off-Campus Trip  
Full-Time

Washington DC, it's our nation's capitol, but what really goes on there? Who works there other than politicians? This class will attempt to broaden the understanding of how the American political machine runs. We will spend 8 days/7 nights in our nation's capitol visiting various monuments and museums while also looking at who actually influences government. Topics covered will include how congressmen work in DC, what special interests are located in DC, and how people not in congress influence the policies made there.

Prerequisite: Contact Sponsors for application  
$200 down payment due by Wednesday, November 1st  
$275 balance due Friday, December 1st

Ryan Cavanaugh, IMSA Resident Counselor  
Heidi Gross, IMSA Resident Counselor

**OC10 What is Art?**  
Off-Campus Trip  
Full-Time

What is Art? Philosopher of art, Suzanne K. Langer said, "Art is the objectification of feeling." English film and documentary director, Lindsay Anderson stated, "Art is an experience, not the formulation of a problem." Novelist Thomas Berger wrote, "What is art but a way of seeing?" Who decides what can be considered art; the art community, artists, the viewer? "ART has not always been what we think it is today. An object regarded as art today may not have been perceived as such when it was first made, nor was the person who made it necessarily regarded as an artist. Both the notion of "art" and the idea of the "artist" are relatively modern terms."  
(http://www.arthistory.sbc.edu/artartists/artartists.html).

This intersession trip to Houston, Texas, (via Memphis, Tennessee) seeks to explore the idea of "art." Through examination of individual and societal perceptions of what art is, exposure to different types of art, and experimentation with different media and concepts, we hope to broaden each student's perception of what constitutes art. Students will gain experience in several media of their choosing and will have the chance to hone skills and concepts that they discover during the course of the trip. The students' journey will culminate with each student presenting an 'artist' journal in which they will have recorded their experiences through written thoughts, sketches, collage etc. over the course of the trip. Each student will also present 2-3 small works of art, produced during the trip, containing concepts or objects that the student may not have previously considered art.
Unfortunately this trip will be open to females only due to the fact that there are only female chaperones.

Prerequisite: No previous art experience required, though a healthy interest in art and the creative process is a MUST.

$500-$600 per student (depending on number of applicants)

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

**OC11 Youth Tutoring in Memphis, Tennessee (Session Closed)**

Off-Campus Trip
Full-Time

IMSA Students will engage in off-campus community service by tutoring and educating students during and after school hours in the neighborhood of the Memphis Advent Christian Church. The selected location is underprivileged and lacks resources for a stable post-school day educational environment. The Memphis Advent Christian Church has been a haven for Memphis students of all ages, regardless of religious orientation, and will assist IMSA students in providing an area for tutoring.

Prerequisite: Interest in tutoring other students and patience for a long car ride.

All major costs will be covered by the Aurora Advent Christian Church. Possible costs include 1-2 daily meals.

John Li, Current IMSA Student
Rachel Main, Current IMSA Student
Jon Marks, IMSA Staff

* IMSA Staff Sponsor to be assigned

** New session added