



Undergraduate Colleges



Undergraduate Colleges
Course Offerings
Spring 2010

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Stony Brook University
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What are the 102 Seminars?

The Undergraduate College Spring Seminars are small, interactive courses designed to introduce first-year students to thought-provoking and interesting subjects. The seminars offer a unique opportunity to explore ideas, learn from peers and get to know faculty in small, intimate classroom settings. Faculty from departments across campus will instruct seminars that focus on a current intellectual interest. The primary goals of these courses are:

- To impart a strong sense of academic community
- To acquaint first-year students with a full-time tenure-track and tenured faculty members
- To provide students with an opportunity to engage directly with an academic topic in a small setting

How to choose your 102 Seminar:

Although timing and your overall course schedule will influence your choice of seminars, you should use this class as an opportunity to develop your overall academic experience. When you register for your 102 seminar, you should consider a few things:

- What are your academic interests?
- Would you like to meet faculty from a specific academic discipline?
- Do any of the seminar topics align with your research or career goals?
- Do any of the seminar topics intrigue you?
- Use this as an opportunity to explore an idea or project or topic.

What to expect from your 102 Seminar:

The 102 seminars will be different than most of the other classes in your schedule. Seminars are meant to be small and interactive.

- Attendance is essential to your overall success
- You will be expected to participate in discussions with your professor and the rest of the class
- Your discussions will be based on assigned readings, movies or activities
- You will be expected to share your opinions and questions about the seminar content

ACH 102 First-Year Seminars

ACH 102.1: Reading R. Crumb's Edition of Genesis

Meeting Pattern: TU 2:20pm-3:15pm

Location: Tabler 107

R. Crumb is the best known of the 'underground' comic book artists who emerged from the 1960's. More recently, he has turned in more mainline literary directions. For example, his work appears regularly in the New Yorker magazine. Crumb has devoted most of his the last five years to an illustrated version of the first book of the Old Testament, Genesis, containing the complete text of this central work of the monotheistic religious and literary tradition. We will read the book in its entirety and groups of students will prepare oral and written presentations on related topics.



Mark Aronoff, *Linguistics*

Mark Aronoff has been on the Stony Brook faculty since receiving his Ph D. His research touches on almost all aspects of morphology and its relations to phonology, syntax, semantics, and psycholinguistics. He has used a wide variety of methods in his work,

ranging from traditional morphological analysis of both primary and secondary data from a wide variety of languages to lexical decision experiments to dictionary-based counting. He maintains a secondary research interest in writing systems, especially how they relate to spoken language and linguistic awareness. He also has a strong commitment to promoting the teaching of linguistics at all levels and was the founding chair of the committee on language in the schools of the Linguistic Society of America. Recent morphological research projects and publications have dealt with suffix combinations in English and German; the morphology of sign languages; and Latin deponent verbs. For the last five years he has been a member of a team studying a newly-created sign language, Al-Sayyid Bedouin Sign Language. From 1995 to 2001, he served as Editor of *Language*, the Journal of the Linguistic Society of America. Professor Aronoff has long been involved in university administration and served from 1998 to 2007 as Associate Provost and Deputy Provost at Stony Brook. In 2005, he was President of the Linguistic Society of America. He is a Fellow of AAAS and LSA.

ACH 102.2: Talking Hands: How Sign Languages Work

Meeting Pattern: W 3:50pm-4:45pm

Location: Tabler 107

Until fifty years ago, it was thought that sign languages were just poor substitutes for real spoken languages. The standard attitude in schools for the deaf was to strongly discourage the use of signing in favor of speech. Since then, scientific research has revealed that sign languages are much more similar to spoken languages than anyone had thought, which has changed people's attitudes towards sign languages. *Talking Hands*, by Stony Brook graduate and New York Times reporter Margalit Fox, is a very accessible introduction to this research, and features the work of the instructor of this course, Mark Aronoff, a linguistics professor at Stony Brook. In this course, we will read *Talking Hands* and Prof. Aronoff will discuss his own experience in a Bedouin village whose people have created their own sign language, different from any other in the world.



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ACH 102 First-Year Seminars

ACH 102.3: Jazz and its Cultures

Meeting Pattern: TH 11:45am-1:45pm

Location: Staller 3317

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

An overview of the American-born but now world-wide music known as Jazz. The course will examine the esthetics and the history as well as the social and cultural influence of this unique art form. The format will be primarily listening and discussion; everyone will bring in music that they like and we will expand each other's musical horizons. Some concert attendance will be required.



Ray Anderson, Music
SBU's Director of Jazz Studies has 30 years of experience as a professional jazz performer on trombone. Named five straight years as best trombonist in the Down Beat Critics Poll and declared "the most exciting slide brass player of his generation" by

the Penguin Guide to Jazz on CD, Ray Anderson has shown remarkable range. He has led or co-led a daunting assortment of tradition-minded and experimental groups, big bands, blues and funk projects and even a trombone quartet. Anderson attended the University of Chicago Lab School, where one of his classmates was another notable trombone original, George Lewis. His teachers included Frank Tirro and Dean Hey. In 1973, Anderson moved to New York where he studied and played with composer and music theorist Jimmy Giuffre, joined drummer Barry Altschul's free-form trio and played for three years with the quartet of AACM saxophone hero Anthony Braxton. In the '80s, he garnered attention with collective bands including the funk-oriented Slickaphonics and the trio BassDrumBone, featuring bassist Mark Helias and drummer Gerry Hemingway. On a series of acclaimed recordings, he has ranged from Ellingtonia and jazz classics to striking originals.

ACH 102.4: Cobra: A Music Improvisation Game Piece

Meeting Pattern: W 2:20pm-3:15pm

Location: Tabler 110

For this class we will learn how to play/perform John Zorn's Cobra. The composition consists of a set of cues notated on cards, and rules corresponding to the cues that direct the players what to do. The number of players, instrumentation, and length of the piece is indeterminate. Because there is no traditional musical notation and the players improvise, the piece may sound radically different from performance to performance. You don't need to know how to play an instrument, but you do need an open mind!



Margaret Schedel, Music
Margaret Anne Schedel is a composer and cellist specializing in the creation and performance of ferociously interactive media. Her works have been performed throughout the United States and abroad. While working towards a DMA

in music composition at the University of Cincinnati College Conservatory of Music, her interactive multimedia opera, *A King Listens*, premiered at the Cincinnati Contemporary Arts Center and was profiled by apple.com. She is working towards a certificate in Deep Listening with Pauline Oliveros and has studied composition with Mara Helmuth, Cort Lippe and McGregor Boyle. She serves as the musical director for Kinesthetech Sense and sits on the boards of 60x60 Dance, the BEAM Foundation, the Electronic Music Foundation Institute, the International Computer Music Association, the New West Electronic Art and Music Organization, and Organised Sound. She contributed a chapter to the Cambridge Companion to Electronic Music and her article on generative multimedia was recently published in *Contemporary Music Review*. Her work has been supported by the Presser Foundation, Centro Mexicano para la Música y les Artes Sonoras, and Meet the Composer. In 2009 she won the first Ruth Anderson Prize for her interactive installation *Twenty Love Songs and a Song of Despair*. As an Assistant Professor of Music at Stony Brook University, she serves as Co-Director of Computer Music and is a core faculty member of cDACT, the consortium for digital art, culture and technology.

ACH 102 First-Year Seminars

ACH 102.5: Movies about Movies

Meeting Pattern: TH 2:20pm-3:20pm
W 7:00pm-9:00pm

Location: Tabler 107

Note: This class meets for 2 hours a week for the first 7 weeks of the semester. Additionally, this class requires a 2-hour movie screening for the first 7 weeks of the semester.

In this course we'll look at what happens when films turn the lens on themselves, by examining different aspects of the film industry (pre-production, production, distribution, exhibition, etc.) and how they are represented in the films in question.



Jacqueline Reich,
Comparative Literary and Cultural Studies

Jacqueline Reich is Associate Professor of Comparative Literary and Cultural Studies at Stony Brook University. She is the author of *Beyond the Latin Lover: Marcello Mastroianni, Masculinity, and Italian Cinema* (Bloomington: IUP, 2004) and co-editor of *Re-viewing Fascism: Italian Cinema, 1922-194* (Bloomington: Indiana UP, 2002).

She has published articles on Italian cinema, Italian-American cinema, and masculinity.

ACH 102.6: Rock and Relevance

Meeting Pattern: TU 12:50pm-1:45pm

Location: Tabler 107

Political and social commentary in the lyrics of popular music from the 1960's to the present



Howard Gimple,
Communications

Howard majored in English with a concentration in creative writing at Brooklyn College. In his spare time he sang lead and played bongos for an extremely unsuccessful rock-folk-funk band and was active in politics. Shortly after he graduated in 1972, Howard marched in Washington as part of Martin Luther King's Poor People's

Campaign. He then hitchhiked across the country to Haight Ashbury in San Francisco with a copy of Jack Kerouac's "On the Road" in his back pocket. Upon his return he was a campaign volunteer for George McGovern in Brooklyn – it was the first time in half a century that the Democrats didn't win that borough in a presidential election. He feels he was only partly responsible for that result.

Howard then left politics and used his creative writing expertise to land himself a job on Madison Avenue writing ads and jingles, the most famous of which is "You've Got the Look" for Jordache Jeans. His other songwriting credits include "Relax, Have a Cigar," which was featured in the horror film "Rejuvenators," and the Stony Brook University Fight Song.

Howard is currently a Senior Writer in the Stony Brook University Office of Communications. He is the author of two novels "Deadly Refuge" and Tiebreak."



Chris Filstrup, *Library*

Chris earned his B.A. in political science at Haverford College (1965) where he was elected to Phi Beta Kappa. He earned an M.A. in Middle East Studies at Harvard (1967) where he specialized in Islamic studies. He earned his Master of Library Science degree at Columbia (1974).

He began his library career at the Research Libraries of the New York Public Library as assistant chief and then chief of the Oriental Division. From the New York Public Library, he went to the Library of Congress as chief of the Overseas Operations division.

He served as director of the Cairo office for one year. Chris's first university library position was at George Washington University where he was Associate University Librarian in charge of collection development, special collections, technical services, and Friends of the Library. From GWU, Chris headed south to North Carolina State University where he was in charge of collection development, special collections, technical services, preservation and for two years of branch libraries serving the colleges of Textiles, Veterinary Medicine, Design, and Forestry. Chris took on his current position as Dean of Libraries at SBU in August 2000.

ACH 102 First-Year Seminars

ACH 102.7: Rock and Relevance

Meeting Pattern: TH 12:50pm-1:45pm

Location: Tabler 107

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ACH 102.8: Witchcraft: three approaches

Meeting Pattern: TU 2:20pm-4:10pm

Location: Social and Behavioral Sciences S-513

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

This course is about how witchcraft has been approached in their different ways by anthropologists studying this phenomenon in live communities ("ethnography"), historians working with archival materials, and dramatists (in plays and on film). Salem in late seventeenth century colonial New England and the Azande of twentieth century central Africa provide our two case studies.



David Hicks, Anthropology

David Hicks is professor of anthropology and teaches courses on introductory cultural anthropology, ritual and belief, and Insular Southeast Asia.

ACH 102 First-Year Seminars

ACH 102.9: Cultural Enigmas

Meeting Pattern: TH 5:20pm-6:15pm

Location: Library E5340

Why can you get a coffee refill but not one for tea; why do women shave the stubble on their legs and males hope it will grow on their face; why do a number of religions avoid pork? These and other enigmas of American/Western culture and society will be considered and explained.



William Arens, *International Academic Programs*
Professor of Anthropology and
Dean of International
Academic Programs

ACH 102.10: Script Development and Play Reading Workshop

Meeting Pattern: TH 12:50pm-1:45pm

Location: Library S1410D

This seminar invites young playwrights and dramaturgs to participate in the new play development process by developing ideas, while giving and receiving feedback on a weekly basis.



Steve Marsh, *Theatre Arts*

Steve Marsh is the Literary Manager of the John Gassner New Play Festival, a national playwriting competition that he helped found in 2003. He is a professional actor (AEA, SAG, AFTRA), who has trained with Lee Strasberg, Uta Hagen, and John Styx in New York City. He has worked in film, television, and on the

professional stage and is a founding member of the Asylum Theatre Company, bringing professional Equity theatre productions to Long Island. Marsh directed the first production of the Stony Brook Cabaret, *Out of the Kitchen* by Franz Xaver Kroetz, and has helped to support the ongoing efforts of the Cabaret as faculty advisor and occasional director.

Marsh is a member of The Literary Managers and Dramaturgs of the Americas; he is researching and writing about literary management in the American theatre.

ACH 102 First-Year Seminars

ACH 102.11: Introduction to Drawing and Painting

Meeting Pattern: W 2:20pm-3:15pm

Location: Staller 4222

We will explore and experiment with various painting and drawing mediums in order to introduce the student to the range of possibilities in the Art Department's courses investigating traditional 2D media in drawing and painting. There will be hands-on projects, slide presentations, and class visits to galleries on campus such as the Lawrence Alloway Gallery in the Melville Library, the Staller Center Art Gallery and the SAC Gallery. This will introduce the students to the variety of exhibition venues available on campus.



Howardena Pindell, Art

Howardena Pindell received an MFA from Yale University's School of Art and Architecture in 1967 and a BFA in Painting from Boston University's School of Fine and Applied Arts in 1965. She has two Honorary Doctorates, one from the Massachusetts College of Art in Boston Massachusetts and

one from Parson School of Design/The New School University, New York She worked for 12 years at the Museum of Modern Art in New York and was an Associate Curator of Prints and Illustrated Books. She has taught at Stony Brook in the Art Department since 1979. She was a visiting Professor of Art at Yale University's School of Art from 1995 to 1999. She has received numerous grants and awards including the Guggenheim Fellowship, two National Endowment for the Arts grants, a Joan Mitchell Grant, a Studio Museum in Harlem Artist Award as well as the Most Distinguished Body of Work or Performance Award in 1990 from the College Art Association. Her work is in the collection of the Metropolitan Museum of Art, New York, The Museum of Modern Art, The Whitney Museum of American Art, The Yale Art Museum, New Haven, The Fogg Art Museum, Harvard University, The Rhode Island School of Art Museum among many others. A book of her writings " The Heart of the Question," was published in 1997 by Midmarch Arts Press, New York.

ACH 102.12: Cowboy Ecology: Exploring the environmental issues of the American West through Cowboy Poetry and Song

Meeting Pattern: F 11:45am-12:40pm

Location: Library N3090

Cowboys (men and women) have been relating their experiences with their work, each other, and the natural world through poetry, song, and prose since the mid-1800s. Cowboy poetry and song is both entertainment and an oral tradition that transmits shared experiences and values within the Western cattle culture. Using the cowboys' own words to spark discussion, we will look specifically at how they currently and historically place themselves within Nature. We will compare the nostalgia for a previous era with the reality of current environmental issues such as land use and water rights in the West.

Aimée deChambeau, Libraries

Aimée deChambeau is an Associate Librarian at Melville Library. She holds a CAS in Systems Design, an MLS with a specialization in agricultural information, and a BS in Education. She is currently studying issues related to Sustainability Education and is interested in the development of ecological identities.

ACH 102 First-Year Seminars

ACH 102.13: Beethoven, Basie, Bjork: Or why I like the music I like.

Meeting Pattern: TU 2:20pm-3:20pm
Location: Staller 2310

What kind of music do you like and why? The issue of aesthetic taste has for centuries been a mystery. In this seminar, we will listen to a wide variety of different types of music and consider how people develop their musical preferences. Students will be required to attend concerts in the Staller Center.



Judith Lochhead, *Music*
Professor Judy Lochhead teaches in the Department of Music and does research in the history and theory of contemporary musical practices.

ACH 102.14: Songs of Orpheus: Love and Death in Literature & Film

Meeting Pattern: M 10:40am-12:40pm
Location: Humanities 2052

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

What is the function of literature & film? Why do writers and filmmakers invest in the themes of love and death in their works? Seeing human existence as being-toward-death, Heidegger notes that although we fear death, we desire to glamorize our existence in our challenge to and denial of mortality. Writing is one medium where this desire is manifested; and, where love (romantic, kinship, patriotic or friendship love) functions as the motivation to demystify mortality. Freud writes, "the meaning of the evolution of civilization is no longer obscure to us. It must present the struggle between Eros and Death, between the instinct of life and the instinct of destruction, as it works itself out in the human species." If existence is a negotiation between life and death, writing then is the process of this negotiation in which love and mortality are put into question in opposition to each other. This seminar will survey works by writers and filmmakers from different cultures traditions to evaluate how different texts manifest the relationship between love and death.



E.K. Tan, *Comparative Literary and Cultural Studies*
E.K. Tan is an assistant professor at the State University of New York at Stony Brook in the Department of Comparative Literary and Cultural Studies. He received his Ph.D. in Comparative and World Literature from the University of Illinois at Urbana-Champaign in 2007. At present, he is working on a

book manuscript entitled *Translational Identity: Articulations of Chineseness in Narratives of the Nanyang Diaspora*.

ACH 102 First-Year Seminars

ACH 102.15: Islam and Beauty

Meeting Pattern: W 3:50 PM - 4:45 PM

Location: Humanities 1043

One of the more neglected sayings of Muhammad nowadays is "God is beautiful, and He loves beauty." In fact, over Islamic history beauty has played an essential role in art, architecture, poetry, and literature, not to mention theology and spirituality. We will look at Islamic notions of beauty, its relation to love, and various ways in which it has become manifest in cultural forms.



Sachiko Murata, *Asian and Asian American Studies*

Sachiko Murata completed her BA in family law at Chiba University in Japan, worked for a year in a law firm in Tokyo, and then went to Iran to study Islamic law. She completed a Ph.D. in Persian literature at Tehran University in 1971, and then transferred to the faculty of

theology, where she was the first woman and the first non-Muslim to be enrolled. She finished her MA in Islamic jurisprudence in 1975, and then became a research associate at the Imperial Iranian Academy of Philosophy. Her work on a PhD dissertation in comparative law was cut short by the revolution. Since 1983 she has taught religious studies at Stony Brook.

Murata has been director of Japanese Studies since its founding in 1990 and regularly teaches Introduction to Japanese Studies, Japanese Buddhism, Feminine Spirituality in World Religions, and occasionally other courses such as Islam or Islam and Confucianism. For the past few years her research has focused on the writings of the Hui-ju or "Muslim Confucianists," who wrote books on Islamic theology, cosmology, and spiritual psychology in the Chinese language while borrowing the terminology of the Neo-Confucian philosophers.

Besides many scholarly articles, Murata has published, among others, *Isuramu Hôriron Josetsu* (Iwanami, 1985), the translation of a major text on the principles of Islamic jurisprudence from Arabic into Japanese; *The Tao of Islam: A Sourcebook on Gender Relationships in Islamic Thought* (SUNY Press, 1992); and *Chinese Gleams of Sufi Light: Wang Tai-yü's Great Learning of the Pure and Real and Liu Chih's Displaying the Concealment of the Real Realm* (SUNY Press, 2000).

ACH 102.16: Understanding Television News

Meeting Pattern: TH 9:50pm-10:45am

Location: Library S1410D

Local news, national news, network morning shows, network news magazine shows, 24 hour cable news... millions of Americans tune in to some form of television news programming every day. This class will examine the different forms of television news programming with the goal of identifying the strengths and weaknesses of medium. News stories of the day will be analyzed for accuracy, fairness, truth, worth, sensationalism, bias and effect. Discussions will include the editorial decisions that dictate what is seen on the air as well as practical and business decisions that impact today's television news industry.



Rick Ricioppo, *School of Journalism*

Rick Ricioppo spent 16 years working in the television industry, shooting and editing news, sports and public affairs programming. He currently teaches broadcast journalism classes in the School of Journalism.

ACH 102 First-Year Seminars

ACH 102.18: Contemporary Spain

Meeting Pattern: W 5:20pm-6:15pm

Location: Tabler 107

The purpose of this seminar is to identify and analyze the principal characteristics of life in Spain today. We will try to understand how Spaniards see themselves and their place in Europe and the broader world community. We will try to increase our understanding of what is involved in learning about a society different from our own. There will be a common text: *Ghosts of Spain*, Giles Tremlett.

Jim McKenna, *Hispanic Languages and Literature*

Jim McKenna first went to Spain in 1954 and he has spent many years in a wide variety of activities working, traveling and living in many areas of the country. A member of the Department of Hispanic Languages, he has also served as Associate Provost and Director of the Federated Learning Communities.

ACH 102.19: The Telepresent Self

Meeting Pattern: TU 11:20am-12:15pm

Location: Tabler 105 (Mac Computer Lab)

Through the use of open source, social media sites, blog sites, graphic novel software, filmmaking software, 3-d software, and other methods of 'getting on the onramps of the e highway' the student will explore the notion of identity, human computer interface, and the pure joy of expressing the self online through various media including experiments in human computer interface.



Philip Baldwin, *Theatre Arts*

Is a scenographer, immersive environment designer. Has current research and authorship in the relationship of space to telematics and telepresence. Conducts SB study abroad programs in Rome, and Seoul. Integrates the 'zero distance' telematics

with public installation. Conducts a campus and Brooklyn based grant writing group and NGO: 'Global Civic Media'. MFA from Yale University in design, FAAR, Fellow of the American Academy in Rome 1994. Worked and lived in Seoul, Tokyo, Rome, Singapore on various scenographic and digital media/telematics projects. Recipient of numerous yearly awards, grants, and prizes including the Japan Foundation Prize 1996 for work in Design, Performance, and Information Technology, Recipient of the National Endowment for the Arts Award, Jerome Foundation Grant for Collaboration, Japan-US Partnership for the performing arts, Korea Industrial development grant, Singapore Interactive media grants, and other grants and research in Art and Technology. Is interested in the relationship of human computer interface and the performing arts. Maintains a design practice and business in New York City. Lives in Brooklyn.

ACH 102 First-Year Seminars

ACH 102.20: Fractal Design: A Technology for Fashion, Art and Culture

Meeting Pattern: TU 12:50pm-1:45pm

Location: Gray College A04 (ITS College Activity Center)

Fractal geometry has become an exciting frontier bordering between mathematics and information technology and has impacts in many aspects of society such as fashion design, art and culture. Fractals are characterized by the repetition of similar patterns at ever-diminishing scales. In this course, an overview of various fractal geometries such as scaling fractals, non-scaling fractals, self-mapping fractals along with the various properties of fractals will be presented. The applications of fractal geometry in fashion design, movie industry, and artistic expression will be explored. The evidence of fractal design in various cultures such as African, Celtic, Chinese, Ukrainian, and Maori will be covered. A project in which students design simple fractal geometry in various applications is required.



Wendy Tang, *Electrical and Computer Engineering*

Wendy Tang is an Associate Professor at the Department of Electrical and Computer Engineering in Stony Brook University. She received her B.S., M.S. and Ph. D in Electrical Engineering from the University of Rochester. Her current research interests are in Wireless Sensor Networks, Communication

Networks and Graph Theory Applications. Her research effort is supported by the National Science Foundation. She and her colleagues are the recipients of two best paper awards in 1997 and 1998. She is also an accomplished educator who has dedicated considerable efforts in promoting entrepreneurship in engineering education and increasing women students in engineering. Her dedication in promoting women in engineering was recognized by an IEEE Region 1 Award in 1998, an IEEE Regional Activity Board Achievement Award also in 1998 and an IEEE Third Millennium Medal Award in 2000. In 2006, the IEEE Long Island Section awarded Dr. Tang and her colleague, Dr. Serge Luryi, the Athanasios Papoulis Education Award for their pioneering contributions in incorporating entrepreneurship in engineering education. She is currently the Project Director for the National Science Foundation funded Project EXCE2L (Excellence in Computer Education with Entrepreneurship and Leadership skills) with a goal of enriching engineering curricula in general and computer engineering curriculum in particular through the incorporation of entrepreneurial and leadership skills.

As the new Faculty Director for the Information and Technology Studies (ITS) College, her goal is to continue the vision of the College to emphasize how information and technology impact our daily lives in different aspects such as personal development, arts, sciences, communications, global impacts and culture.

GLS 102 First-Year Seminars

GLS 102.1: Belief and Skepticism

Meeting Pattern: TU 2:20pm-4:20pm

Location: Harriman Hall 218

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

Probably for the first time in US history, the 2009 Presidential inaugural address by Barak H. Obama mentioned the category of 'non-believers' as a group with state-protected rights. Religious belief is a worldwide phenomenon that affects people's behavior in dramatic, bizarre, or constructive ways. Philosophers and psychologists have interesting and surprising things to say about religion and religiosity. Many (not all) of them are atheists. You will read one essay per week (provided by me) and write a couple of reviews of films. Essays and films are centered on various forms of religion and atheism. You are expected to formulate questions and/or objections pertaining to this material and you will submit them for in-class discussion. By course's end you will deliver a brief paper (three pages, single spaced) on the argument you have found best or worst in the readings and discussions from this class.



Allegra De Laurentiis,

Philosophy

I have studied philosophy in Italy and Germany before moving to the U.S. I specialize in nineteenth century European philosophy (especially Hegel and Marx) and in ancient Greek philosophy (especially Aristotle). In my undergraduate classes, however, I teach a

much wider range of topics from the history of Western philosophy, and I am particularly interested in the history of political thought.

GLS 102.2: Global Women's Literature

Meeting Pattern: TUTH 8:20am-9:15am

Location: Social and Behavioral Sciences S218

Note: This class meets for 2 days a week for the first 7 weeks of the semester.

Global Women's Literature seeks to introduce students to the various types of oppression experienced by women across the globe. Through short essays, documentaries, and fiction, students will learn about both the triumphant and tragic experiences of women who encounter physical, psychological, and emotional victimization.

Tracey Walters, *Africana Studies*

Associate Professor of Literature. Affiliate professor in comparative literature, english, and women's studies. Areas of interest: African American Literature and Culture, Black British Literature, Global Women's Literature.

GLS 102 First-Year Seminars

GLS 102.3: Understanding Globalization

Meeting Pattern: M 12:50pm-1:45pm

Location: Library S1410D

This course introduces you to the contemporary world-system. It presents the global economy as a complex network of power relations. Special consideration will be given to the ways in which nation-states are being incorporated into this network through capitalist ventures that disrupt nations' domestic lives and threaten their stability. But the course also addresses the opportunities that globalization presents and the transformation of people's lives and self-understanding around the world.

Georges Fournon, *Africana Studies*

I am a Professor of Education and Social Sciences and Interim Chair of the Africana Studies Department. I was born in Haiti, where I graduated in International Relations. I then conducted postgraduate work in International Relations at the University of the West Indies in Trinidad. My publications center on Haitian transnational migration, education, sociolinguistics, and bilingualism. In 1991, I co-authored a book entitled *Georges Woke Up Laughing: Long-distance Nationalism and the Search for Home*.

GLS 102.4: Migrations Local and Global

Meeting Pattern: TU 8:20am-10:20am

Location: Library W4530

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

An Introduction to Migrations as a social, cultural, historical and political issue



Peter Carravetta, *European Languages, Literatures, and Cultures*

Carravetta has taught cultural studies, postmodernism, critical theory and migrations in history.

GLS 102 First-Year Seminars

GLS 102.5: What in the world should we do with radioactive wastes?

Meeting Pattern: TU 9:50AM-11:50AM

Location: Library N3090

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

The build-up of radioactive wastes around the world has posed enormous environmental challenges to both developed and developing nations. This course will consider the many societal, technological, toxicological, and political problems associated with this issue and explore possible solutions.



Nicholas Fisher, *School of Marine and Atmospheric Sciences*

Nicholas Fisher is a Distinguished Professor of Marine Sciences at Stony Brook. His research concentrates on aquatic pollution matters.

GLS 102.6: Exploring the music of Bob Dylan

Meeting Pattern: W 9:35AM-11:35AM

Location: Library S1410

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

Bob Dylan has produced one of the most influential bodies of work in music and writing since the 1960's. His work has changed music and has influenced how millions of people think and arguably will continue to do so. In this course, students will be introduced to his major works and learn about the influences of key individuals and societal changes that shaped Dylan's work.



Nicholas Fisher, *School of Marine and Atmospheric Sciences*

Nicholas Fisher is a Distinguished Professor of Marine Sciences at Stony Brook, and a life-long fan of Bob Dylan.

GLS 102 First-Year Seminars

GLS 102.7: International Games, Game Theory, and Global Politics

Meeting Pattern: TH 3:50pm-4:45pm
Location: Harriman 243

The mathematician John von Neumann (1903-1957) and the economist Oskar Morgenstern (1902-1977) in their revolutionary book *Theory of Games and Economic Behavior* (1944) argued that economics and social behavior “when they are examined by the methods of modern mathematics...are strictly identical with—not merely analogous to—games of strategy.” This seminal work gave birth to game theory. In this course you’ll be invite to enjoy (and to share) with others a variety of international games—simple games such as tic-tac-toe generalized to four dimensions or quantum mechanical variations as well as more complex games like Western chess (played with partners, known as “Siamese chess” or “bug house”, Chinese chess, and Go and Go-mo-ku. We will explore how these games, besides their obvious recreational values, through the basic concepts of game theory, can give us insight into selfish accounts of altruism and the logic behind the seemingly irrational realm of global politics.



Gary Mar, *Philosophy*
Professor Gary Mar is a mathematical logician, member of the Suffolk County Human Rights Commission, and founding director of the Asian American Center at Stony Brook University.

GLS 102.8: Globalizing Measurement

Meeting Pattern: TU 2:20pm-4:20pm
Location: Library N3090

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

How do you know what the weight, or length, or temperature of something really is? Do you assume that there is some unchanging thing somewhere, and that some utterly trustworthy person uses some absolutely reliable instrument to make comparisons? In truth, there are only networks. These networks are global, pretty much invisible, depend on circles of trust, are always changing, and govern everything from international trade and agreements to postal meters and bathroom scales. This course is about those networks.



Robert Crease, *Philosophy*
I am the chairman of the Department of Philosophy. As a philosopher and historian of science I have published books on breakthroughs in science from Pythagoras to Heisenberg, on Robert Oppenheimer’s Life, and on ‘The Ten Most Beautiful Experiments in Science’—the subtitle of my latest book. I write a monthly column for *Physics World* on the social dimensions of science. I also write on jazz and dance, since I am a jazz dancer myself.

GLS 102 First-Year Seminars

GLS 102.9: The Languages We Use at Home

Meeting Pattern: W 10:40am-11:35am

Location: Humanities 1043

Do you speak or hear a language other than English at home? Do you know of someone who does? Does using a home language delight, enrich, comfort, embarrass or annoy you? Should immigrant languages be maintained? Is the loss of ethnic languages part of the price to be paid for becoming American? What roles do home languages play in families and communities? In what ways can home languages become valuable national resources? This course explores an ecological vision of home languages in the U.S.



Agnes He, Asian and Asian American Studies

Agnes Weiyun He received her B.A. in English (Beijing Foreign Languages Institute), Diploma in Education (National Institute of Education, Singapore), M.A. in English as a Second Language (University of Arizona) and Ph.D. in Applied Linguistics (UCLA). Her

research interests are centered on discourse linguistics and language development. Her major publications include *Chinese as a Heritage Language: Fostering Rooted World Citizenry* (edited with Y. Xiao, University of Hawaii Press, 2008), *Reconstructing Institutions: Language Use in Academic Counseling Encounters* (Greenwood, 1998), *Talking and Testing: Discourse Approaches to the Assessment of Oral Proficiency* (co-edited with R. Young, John Benjamins, 1998) and over twenty research articles in edited volumes and refereed journals. Her work has been supported by a research grant from the Spencer Foundation and a Spencer Postdoctoral Fellowship from the National Academy of Education. She is currently co-PI of a federal Title VI grant in support of the development of a teacher training program for Asian languages at Stony Brook University. She has served as consult, advisor, and evaluator for a number of public and private funded projects dedicated to the improvement of Chinese language education. Dr. He regularly teaches courses in Chinese linguistics, intercultural communication, introduction to Chinese language and culture as well as Chinese language. She is Associate Professor and Director of Undergraduate Programs in the Department of Asian and Asian American Studies at Stony Brook University.

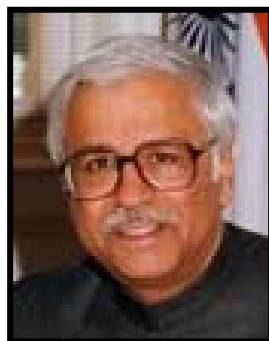
GLS 102.10: Critical Issues in International Relations

Meeting Pattern: W 2:20pm-4:20pm

Location: Humanities 1049

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

This seminar will address itself to a critical examination of certain key issues in international relations that have defied solution over the years such as terrorism, ethnic cleansing, nuclear proliferation, the Arab-Israeli conflict etc. The issues will be identified by the seminar participants themselves, with the instructor providing guidance for discussion & debate.



Harsh Bhasin, Asian and Asian American Studies

I am a Visiting Professor of International Relations at Stony Brook and currently serve as Chair of the Department of Asian & Asian-American Studies. Before joining Stony Brook, I served as a career diplomat with nearly four-decades of field experience in Asia, America

and Africa. My work and interests center on the role of diplomacy in foreign affairs. I currently teach upper-level undergraduate courses on the politics and diplomacy of Contemporary India and of Contemporary China and have recently authored a book on the emerging relationship between the US, China & India in the 21st Century.

GLS 102 First-Year Seminars

GLS 102.11: The Climate Debate

Meeting Pattern: TU 12:50pm-1:45pm

Location: Library S1410D

Opposing views of global climate change are contrasted in this course. Is the current pattern of global change a harbinger of great danger for humanity? Is it driven by human activity or is it a natural fluctuation? Do benefits of climate change outweigh the damage? These questions are explored by the students with their own analyses of climate data. Students will be guided in statistical analyses of data on temperature, precipitation, sea level and other climate variables using Excel.



Sultan Hameed, *School of Marine and Atmospheric Sciences*

I am a professor in the School of Marine and Atmospheric Sciences at Stony Brook. My research interests are in investigating the nature and causes of climate change in different parts of the world.

GLS 102.12: Science and "The Revenge of Gaia"

Meeting Pattern: TU 2:20pm-3:15pm

Location: Roth Café 103 (Center for Science and Society)

This class will discuss the concept of Gaia (the earth as a living being) using one of James Lovelock's latest book "The Revenge of Gaia". We also will discuss some of the science behind discussions of global warming and implications for the earth system as a whole.



Mary Scranton, *School of Marine and Atmospheric Sciences*

My research focuses on the carbon cycle in the Cariaco Basin, a large oxygen-depleted basin on the continental shelf of Venezuela. Together with collaborators from US and Venezuelan universities, I am

trying to understand the processes that control the amount and composition of material sinking in the Cariaco system. Because the sediments in the Cariaco preserve a record of deposition over more than 100,000 years, studying this system gives us a unique understanding of fluctuations in tropical climate and ocean life. My specialty is marine biogeochemistry and I study the relationships between distributions of chemical species in the water column and the microbes that control these distributions.

GLS 102 First-Year Seminars

GLS 102.13: History of Modern Occupation of Western Asia (The Middle East)

Meeting Pattern: M 10:40am-11:35am
Location: Humanities 1043

The seminar will be discuss the history of the occupation of the Middle East, starting just after the WWI untill the time being, and will include all the states in that part of the world including Libanon, Syria, Jordan, Egypt, Palstine/Israel, Saudi Arabia,Iran, and Iraq, with more concentration on Iraq because it is an on going subject untill now.

Donny Youkhanna, *Asian and Asian American Studies*

I have a PhD in Archaeology from the University of Baghdad, Iraq, worked in Iraq, my home country for over 30 years, became the director of the Iraq National Museum 2003-2005, the Cahirman of the Iraqi state board of antiquities and heritage, a lecturing professor at the department of archaeology, and department of architecture in the university of Baghdad, and in Babylon College for theology and philosophy in Baghdad. Published two books, and a large number of articles in archaeology and the preservation of Cultural Heritage.

GLS 102.14: Human Rights and Torture

Meeting Pattern: W 3:50pm-4:45pm
Location: Library S1410D

In this seminar we will explore the relationship between the legal and moral dimension of human rights and how torture is an assault on our moral intuitions but also our legal order. The analysis of torture will be taken as a litmus test for the janus face of human rights. We will read the so-called torture memos and some recent work by Mark Danner



Eduardo Mendieta, *Philosophy*

Eduardo Mendieta is professor of philosophy. He works in social and political philosophy with a focus on questions dealing with globalization and social justice

GLS 102 First-Year Seminars

GLS 102.15: Russia Through Foreign Eyes

Meeting Pattern: TH 12:50pm-2:50pm

Location: Library N3090

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

Following the dissolution of the Soviet Union in 1991, Russia ceased to occupy popular opinion to the degree it once did as the world's greatest "Evil Empire." More recently, this country, whose natural resource deposits are the richest in the world, and which in spite of its post-imperial losses still spans the immense space of Eurasia over eleven time zones has been – for a variety of reasons – attracting more attention. "Russia Through Foreign Eyes" invites students on a journey to Russia alongside some renowned non-Russian travel writers. The texts, photographs, and short documentary films analyzed in the seminar will lead to broader questions of representation as well as to a discussion of what the constituent elements of Russia's representation are and whether we can see elements of a stereotype emerge from them.



Izabela Kalinowska,
*European Languages,
Literatures, and Cultures*

I have an M.A. in English philology from the Adam Mickiewicz University in Poznan and a Ph.D. in Slavic literatures from Yale. I specialize in Polish and Russian nineteenth-century

literatures as well as in East-Central European cinema. I teach courses in film studies, cultural studies, and literature.

GLS 102.16: Introduction to Global Health

Meeting Pattern: TH 3:50pm-4:45pm

Location: Library N3090

This is a lecture designed to introduce the students to the important topics in Global Health

John Shanley, *Preventive Medicine*

Dr. Shanley, MD, MPH is the Associate Dean of International Programs in the School of Medicine.

GLS 102 First-Year Seminars

GLS 102.17: Global Issues of Race, Gender, and Culture

Meeting Pattern: M 10:40am-12:40pm

Location: Social and Behavioral Sciences 224

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

An Historical and Cultural worldview of race, Gender and Culture that Extends beyond national borders. It seeks to enhance competencies students need in a rapidly globalizing world.

Floris Cash, *Africana Studies*

Associate Professor and Chair

Department of Africana Studies.

African American History,

Gender Studies, and Diaspora Studies.

Affiliate Faculty, History and Women's and Gender Studies

GLS 102.18: Difficulties of Nation Building: the Case of East Timor

Meeting Pattern: TU 9:50am-11:50am

Location: Library S1410D

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

The course examines Indonesian rule, the indigenous resistance and eventual independence of East Timor (Timor Leste). Violations of international law and of human rights during the Indonesian occupation are reviewed as are attempts to hold perpetrators accountable. Special attention is paid to the destabilizing effects, on the political and economic development of the new nation, of persistent impunity for these crimes. Implications for conflict resolution in other countries are considered.

Jakob Schmidt, *Biochemistry and Cell Biology*

PhD Biochemistry 1970 UC Riverside; Postdoctoral

work Neurobiology 1971-1973 Cal. Inst. Technology

Pasadena CA; member of Dept. Biochem. & Cell Biol.

USB 1973-2006

GLS 102 First-Year Seminars

GLS 102.20: Latin American Feminist Writers

Meeting Pattern: TU 3:50pm-4:45pm

Location: Library S1410D

This section of GLS 102 will introduce students to several feminist writers from Latin America. Although feminism is generally considered a European and American phenomenon, feminist writers, organizations, and movements have been significant within many Latin American countries. For the purposes of this seminar, we will focus on Mexico, Argentina, and Brazil.



Ritch Calvin, *Women's and Gender Studies*

Ritch Calvin teaches in the Women's and Gender Studies Program. His areas of research and publication interest include Latin American and Latina literature and culture, feminist science fiction, and representations of women in U.S. popular culture.

GLS 102.21: This Course Contains Graphic Language: Semiotics and Comics

Meeting Pattern: W 11:45am-12:40pm

Location: Library S1410D

Do we read comics or do we watch them? How does the grammar of comics function? What is semiotics and what does it have to do with comics? How does this mode of simultaneous seeing and reading complicate conventional approaches to a text? In this course we will examine a number of twenty- and twenty-first century graphic novels, as well as animated films, focusing on their use of signs, colors and rhetorical tropes. The list of works analyzed includes Calvin and Hobbes, Watchmen, Joe Schuster's lost art, and American Born Chinese.

Giuseppe Gazzola, *European Languages, Literatures, and Cultures*

I have studied Italian literature and film in Italy and the U.S., and am particularly interested in the historical and political impact of canonical texts in the nineteenth and twentieth centuries. This seminar looks at a different kind of text: the American comic or graphic novel. The mix of pictures and words provides a unique challenge to a reader of literature, pushing us to see how analytic skills can be fruitfully employed to interpret any body of texts, and ultimately even the body of texts we call "reality."

Claire Burrows, *Comparative Literary and Cultural Studies*

A doctoral student from the Department of CLCS writing a dissertation about the self-representation of the author in graphic novels, will co-teach the course.

GLS 102 First-Year Seminars

GLS 102.22: This Course Contains Graphic Language: Semiotics and Comics

Meeting Pattern: TH 11:20am-12:15pm
Location: Library S1410D

Do we read comics or do we watch them? How does the grammar of comics function? What is semiotics and what does it have to do with comics? How does this mode of simultaneous seeing and reading complicate conventional approaches to a text? In this course we will examine a number of twenty- and twenty-first century graphic novels, as well as animated films, focusing on their use of signs, colors and rhetorical tropes. The list of works analyzed includes Calvin and Hobbes, Watchmen, Joe Schuster's lost art, and American Born Chinese.

Giuseppe Gazzola, *European Languages, Literatures, and Cultures*

I have studied Italian literature and film in Italy and the U.S., and am particularly interested in the historical and political impact of canonical texts in the nineteenth and twentieth centuries. This seminar looks at a different kind of text: the American comic or graphic novel. The mix of pictures and words provides a unique challenge to a reader of literature, pushing us to see how analytic skills can be fruitfully employed to interpret any body of texts, and ultimately even the body of texts we call "reality."

Claire Burrows, *Comparative Literary and Cultural Studies*

A doctoral student from the Department of CLCS writing a dissertation about the self-representation of the author in graphic novels, will co-teach the course.

GLS 102.23: Making Sense of Globalization

Meeting Pattern: TU 12:50pm-1:45pm
Location: Social and Behavioral Sciences N405

What is globalization? What are its historical antecedents? The goal of the course is to historicize globalization, but at the same time identify what is new in its present its expression. We will clarify its relationship to similar and older terms such as internationalism and transnationalism.



Oyeronke Oyewumi, *Sociology*

In her award-winning book *The Invention of Women: Making an African Sense of Western Gender Discourses* (University of Minnesota Press, 1997), Oyeronke Oyewumi makes the case that the narrative of gendered corporeality that dominates the Western

interpretation of the social world is a cultural discourse and cannot be assumed uncritically for other cultures. She concludes that gender is not only socially constructed but is also historical. Furthermore, she points out that the current deployment of gender as a universal and timeless social category cannot be divorced from either the dominance of Euro/American cultures in the global system or the ideology of biological determinism which underpins Western systems of knowledge.

Born in Nigeria and educated at the University of Ibadan and the University of California at Berkeley, Oyewumi has been widely recognized for her work. The monograph *Invention* won the 1998 Distinguished Book Award of the American Sociological Association and was a finalist for the Herskovits Prize of the African Studies Association in the same year. She has garnered a number of research fellowships, including Rockefeller Fellowships, a Presidential fellowship, and a Ford Foundation grant. Oyewumi's most recent research support was a Rockefeller Humanities Fellowship on Human Security (2003/2004), managed by National Council for Research on Women. (NCRW).

GLS 102 First-Year Seminars

GLS 102.24: World Without Us

Meeting Pattern: F 10:40am-11:45am

Location: Roth Café 103 (Center for Science and Society)

Participants in this seminar will explore the science and politics behind Global Climate Change by reading Alan Weisman's book and discuss assigned readings in class. Mr. Wiseman uses his great talent in stretching our imagination through a realistic quasi-scifi to show the effect man has on earth's ecosystem Discussion leaders will use 15-minute powerpoint presentations followed by general discussion.



Kamazima Lwiza, *School of Marine and Atmospheric Sciences*

I am a marine physicist. I study ocean processes that affect transport (e.g., currents and tides) and density distribution (e.g., mixing and heat balance). My research interests are climate change, structure and dynamics of the coastal seas, and remote

sensing. I design field experiments to observe these processes by incorporating modern technology, with a particular emphasis on the acoustic Doppler current profiler (ADCP), GPS-tracked Lagrangian drifters, and ocean gliders, and satellites.

HDV 102 First-Year Seminars

HDV 102.1: Ethics and College Student Life

Meeting Pattern: W 3:50pm-5:50pm

Location: Hamilton 010

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

This course will use case studies of ethical dilemmas commonly faced by college students to challenge students to use critical thinking and problem-solving to recognize ethical issues, build understanding and work toward the resolution of ethical problems. An examination of common ethical problems will provide a framework within which students can develop their own code of ethics.



Deborah Firestone, School of Health Technology & Management

Deborah Firestone is the Faculty Director of the College of Human Development (HDV). She views her position as an opportunity to involve students in a variety of learning experiences devoted to exploring the physical, social and cultural

aspects of 'What It Means to be Human'. It is her hope that the range of experiences provided to students in the College of Human Development will provide a window through which each student can look at the different components that comprise humanity and begin to develop their own personal vision of 'What It Means to be Human'. She has over twenty-five years of academic experience in the School of Health Technology and Management where she has served in teaching and administrative capacities. She is currently the Associate Dean of the School of Health Technology and Management.

HDV 102.2: Science: How People Produce Knowledge

Meeting Pattern: M 11:45am-12:40pm

Location: Life Sciences 022

Rediscover your natural passion for learning and the quest for knowledge. Refine your skills of pragmatic, creative doubting, identifying falsifiable questions, and the social and communications skills of presentation of ideas and debate. We will collaborate each week to critique and debate important scientific claims presented in brief written pieces or short videos. These skills have interdisciplinary and professional application for you now and for the future.

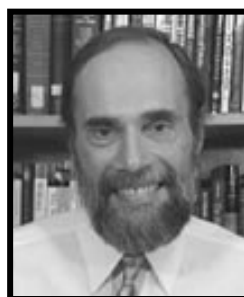


Joanne Souza, Biochemistry and Cell Biology

Joanne Souza is a Stony Brook Psychology Alumna with a strong interest in evolutionary biology. She graduated Summa Cum Laude and was the recipient of various research awards. She recently co-authored a book for a general audience regarding human evolution, behavior, and history, *Death from a Distance and the Birth of a Humane*

Universe. She continues to pursue her interest in human behavior from both the social and health psychology perspectives with her focused research interest being the evolution of social fear. She earned her Master's degree from Walden University in Research and Evaluative Psychology and has continued toward her PhD in health psychology.

One of the many assets Joanne brings to Stony Brook is a strong and successful previous background in the business world in the area of communications and technology. She has worked for both large and small companies including AT & T, ITT, General Dynamics, and Penske Corporation. She was extensively trained by AT&T as an industry consultant in the areas of health and education culminating in the prestigious award of Council of Leaders.



Paul Bingham, Biochemistry and Cell Biology

Paul's long scientific career has been unusual. He has consistently pursued the most important scientific questions available to be answered rather than narrowly specializing, as most professional scientists do. By the end of the 1960's the basic molecular biology of Earth's organisms had been defined. Paul trained as a young

investigator with the makers of this first "molecular revolution" – completing a PhD in Biochemistry and Molecular Biology at Harvard with Matt Meselson in 1980. Beginning his own career, Paul pursued the next great series of questions in biology – how genes build complex organisms. In the late 1970's Paul was among the small *avante garde* who moved into new experimental systems, helping to build our contemporary picture of how genomes build creatures. Among his many earlier contributions are the following: Organized the discovery of the P element transposon (recruiting collaborators Margaret Kidwell and Gerry Rubin; Bingham, et al., 1982, see references below).

Developed the cloning strategy of P element transposon tagging (recruiting ollaborators Arno Greenleaf and Bob Voelker to demonstrate its effectiveness; Searles, et al., 1982). These two contributions revolutionized the molecular cloning of genes in animals and helped drive the intellectual revolutions of the 80's and 90's in biology.

HDV 102 First-Year Seminars

HDV 102.4: Great Cases in US Legal History

Meeting Pattern: TH 2:20pm-3:15pm

Location: Social and Behavioral Sciences N405

Susan Hinely, *History*

HDV 102.5: Bioethics and Society

Meeting Pattern: TH 9:50am-11:50am

Location: Social and Behavioral Sciences N405

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

This course debates the controversial issues surrounding science and its impact on society.



Neta Dean, *Biochemistry and Cell Biology*

Neta Dean is a Professor in the Biochemistry and Cell Biology Department. Her research focuses on the biochemistry and genetics of membrane protein structure and function.

HDV 102 First-Year Seminars

HDV 102.6: Big Science versus Small Science

Meeting Pattern: M 3:50pm-4:45pm

Location: Physics P-119

Ever since the Manhattan Project that developed the atomic bomb a number of very large and centrally managed science projects have been proposed and executed, mostly with great success. A prominent example is the Human Genome project that deciphered the human genetic "book".

This Big Science, defined as projects costing many billions of dollars and involving thousands of scientists, is contrasted by Small Science, defined as the work of one or a few scientists in a laboratory following their own intuition. Many of the great steps forward have been produced by Small Science: Electricity, the transistor, the double helix and the genetic alphabet. We will discuss a number of Big Science Projects, past and future and ask the question: Are these large projects needed for science or the development of the Nation? Are they a good investment for the Nation, and what do they do for work force development, all in contrast to Small Science.



Peter Paul, *Physics and Astronomy*

Peter Paul is a nuclear physicist who came to Stony Brook in 1967 and rose to the rank of Distinguished Service Professor. From 1997 to 2007 he was Deputy Director and Acting Director of Brookhaven National Laboratory.

He is a Fellow of the American and the British Physical Societies and has played prominent roles as advisor to many foreign governments, and in forming the national nuclear physics programs of the U.S.

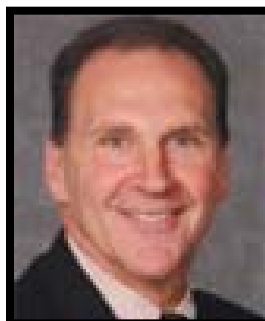
He was a founding member of the Nuclear Structure Laboratory at Stony Brook, and one of the leaders of the construction of a superconducting accelerator on campus, then only the second in the world. His current research interest focuses on the properties of neutrinos.

HDV 102.7: Rituals, Ceremonies and Traditions

Meeting Pattern: F 10:40am-11:35am

Location: Library N3090

Rituals, ceremonies and traditions play an important role in the lives of individuals and the development of communities. Many give meaning to life helping us interpret the world around us. Some mark the rites of passage and others enable us to make the transition to something new. They express an organization's culture and convey values and practices that are significant to the membership of that group. Rituals, ceremonies and traditions are quite common on the college campus starting prior to the point of entry and continue well after Commencement Day. This course will look at events and customs through the lens of both the individual and the university community.



Jerrold Stein, *Student Affairs/Dean of Students*

Dr. Jerrold Stein serves as the Associate Vice President for Student Affairs and the Dean of Students. Dr. Stein has a doctoral degree in Educational Leadership, a Masters degree in College Student Development and an MBA.

During his 33 year tenure at Stony Brook, he has been involved in the creation and development of many campus events and traditions.

HDV 102 First-Year Seminars

HDV 102.8: The Way We Eat Now: Food Facts and Fallacies

Meeting Pattern: M 10:40am-11:35am
Location: Library N3090

What should I eat? Protein? Low Carbs? No fat? How are our foods made? What is a genetically modified food? How have the changes in our food production in the last 30 years influenced the obesity epidemic in this country? Do food subsidies enrich MacDonald's? What happened to the public water fountains? Are vitamin supplements the answer? Do sports drinks make me faster? What should I eat?

This seminar will explore the sociological implications of what we eat, how our food is grown and produced, and why we are eating more yet benefitting less from our meals.

Theresa Tiso, *Physical Therapy/SHTM*

Theresa Tiso, Associate Professor in Physical Therapy Department, SHTM is the former volleyball coach and physical education chairperson and founding director of the Wellness Living Learning Center at Stony Brook. For almost 30 years, has taught courses in sports and exercise nutrition, wellness, sociology of sports, sociology of the body, and exercise physiology.

HDV 102.9: The World According to Google

Meeting Pattern: W 10:40am-11:35am
Location: Library N3090

A look at how Google and the internet have changed the way we live and how we think for better and for worse



Steven Reiner, *Journalism*

Steven Reiner is an Associate Professor of Journalism, a former producer for CBS News' 60 Minutes, and a former Executive Producer at National Public Radio.

HDV 102 First-Year Seminars

HDV 102.10: Script Development and Play reading Workshop

Meeting Pattern: TH 12:50pm-1:45pm
Location: Library S1410D

This seminar invites young playwrights and dramaturgs to participate in the new play development process by developing ideas, while giving and receiving feedback on a weekly basis.



Steven Marsh, Theatre Arts

Steve Marsh is the Literary Manager of the John Gassner New Play Festival, a national playwriting competition that he helped found in 2003. He is a professional actor (AEA, SAG, AFTRA), who has trained with Lee Strasberg, Uta Hagen, and John Styx in New York City. He has

worked in film, television, and on the professional stage and is a founding member of the Asylum Theatre Company, bringing professional Equity theatre productions to Long Island. Marsh directed the first production of the Stony Brook Cabaret, *Out of the Kitchen* by Franz Xaver Kroetz, and has helped to support the ongoing efforts of the Cabaret as faculty advisor and occasional director.

Marsh is a member of The Literary Managers and Dramaturgs of the Americas; he is researching and writing about literary management in the American theatre.

HDV 102.11: Software User Interfaces - Getting the Design Right and the Right Design

Meeting Pattern: TH 9:50am-10:45am
Location: Computer Science 1306

This course will offer an introduction to the design of software user interfaces. Topics include: how to design high-quality user interfaces for desktop, web, and mobile/handheld software applications; common mistakes that we make when designing user interfaces; what is human computer interaction (HCI) and why it is important; serious game interfaces; virtual reality and augmented reality; and natural language interfaces. During the semester we will also tour the labs in the Center of Excellence in Wireless and Information Technology (CEWIT) and see demos of different software systems developed at CEWIT.



Rong Zhao, Computer Science

Dr. Rong Zhao is the Director of Software Systems Division of the New York State Center of Excellence in Wireless and Information Technology (CEWIT) and a faculty member of Computer Science Department at Stony Brook University. He has more than 15 years of software research

and development experience and more than 8 years of project management and technology commercialization experience. His areas of expertise include data mining, machine learning, user interfaces, software engineering, medical informatics and healthcare technology. Dr. Zhao has provided consulting and training services to several Fortune 500 companies and served as an advisor, consultant or expert witness for companies in many industries.

HDV 102 First-Year Seminars

HDV 102.12: Social, Legal, and Ethical Issues for Information Technology

Meeting Pattern: TU 9:50am-10:45am

Location: Computer Science 1310

This course deals with the impact of computers on us as individuals and on our society. Rapid changes in computing technology and in our use of that technology has changed the way we work, play and interact with other people. These changes have created a flood of new social and legal issues that demand critical examination. For example, technologies such as Gmail, FaceBook, MySpace, along with music sharing sites and Wikis create new social, ethical, and legal issues.

Here are a few examples of the issues we will be talking about:

* There is a great deal of information about all of us recorded in computer databases. What rules should govern how this information is used? (We all get privacy notices in fine print from our banks, credit card companies, etc. -- what do they really mean?) Hacking, identity theft and credit card fraud has increased in recent years. What are responses to these types of fraud and what precautions can we take to prevent this from happening?

* New encryption methods make it possible to keep e-mail and phone conversations secret from others. How should our desire for privacy be balanced with the need of law-enforcement agencies to intercept communications of suspected criminals or terrorists?

* How serious are the problems created by Web sites that contain pornography, 'hate' material directed at various groups, bomb-making information, etc? Should there be any restrictions on material that is put on the Web?

* It is easy to use computers to copy music, software, books, etc., in violation of copyright law. What is the extent of this problem? What can or should be done about it? What is free software? Should all software be free?

There are (at least) two sides to almost all of the questions we will consider in this course. We will spend much of our class time discussing the issues and exploring different points of view.



Robert Kelly, Computer Science

As Associate Chair of Computer Science, he has primary responsibility for the undergraduate Computer Science and Information Systems programs at Stony Brook University. He has taught classes in Software Engineering, Internet Programming, User Interface Programming, Introduction to Programming, Electronic Commerce, Introduction to

Information Systems and Legal Issues in Computer Science, many of which he has also developed. His research interests include medical informatics, software engineering, image processing, Internet programming, and parallel programming. The primary research focus has been on systems to reduce the incidents of medical errors in acute health care facilities. This work includes a system for a high-level interface to medical monitors, representation techniques for clinical guidelines as system-independent documents, an Anesthesiology clinical support system, a rule-based system for discharge planning, and a system to associate monitor data with outcome data to improve prediction of changes to a patient's condition in critical care settings. He is also developing systems to process marine science sensor data with the goal of developing inquiry systems for marine features. He has published papers on these topics in major journals and conferences. He has been on program committees or chaired invited sessions of a number of international conferences. He is also the graduate director of the

college level program in Information Systems Engineering. Collaborating with an industry partner, he has developed a software application that received the Long Island Software Award for Internet-based software. He is also the recipient of the State University of New York Promising Inventor Award. Prior to joining Stony Brook University in 1999, he was Vice President of Global Professional Services at Computer Associates, and prior to that, he was Director of Research & Development at Northrop Grumman Data Systems. He also serves as Vice Chair of the Board of Directors for the Bethpage Federal Credit Union, a \$ 3.5B financial institution.
(631) 632-7543, Robert.Kelly@stonybrook.edu,
www.cs.sunysb.edu/~robkelly/

HDV 102.13: Parliamentary Debating

Meeting Pattern: W 5:20pm-7:20pm

Location: Endeavour 113

Note: This class meets on South Campus. This class meets for 2 hours a week for the first 7 weeks of the semester.

This seminar will teach formal parliamentary debating as a means of promoting discourse, better awareness and responsible advocacy on the great issues facing humankind. The seminar will be run as a weekly series of debates on controversial topics. The class will be broken down into teams of two, who will debate each other in a round- robin series of debates. The class votes on who wins each debate and by how much. The overall winning team will be selected to participate in a cross-college debating challenge at EarthStock 2009 in April.



Malcolm Bowman, School of Marine and Atmospheric Sciences

This seminar will teach formal parliamentary debating as a means of promoting discourse, better awareness and responsible advocacy on the great issues facing humankind.

The seminar will be run as a weekly series of debates on controversial topics. The class will be broken down into teams of two, who will debate each other in a round- robin series of debates. The class votes on who wins each debate and by how much. The overall winning team will be selected to participate in a cross-college debating challenge at EarthStock 2010 in April.

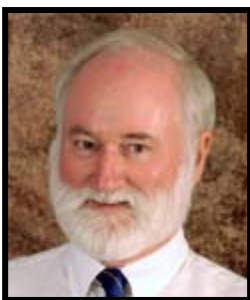
HDV 102 First-Year Seminars

HDV 102.14: The Baked Apple: NY City in the Greenhouse

Meeting Pattern: TU 5:20pm-7:20pm
Location: Endeavour 113

Note: This class meets on South Campus. This class meets for 2 hours a week for the first 7 weeks of the semester.

Abrupt climate change would have profound effects on the infrastructure of New York City, aka the Big Apple, and hence its livability (accommodation, jobs, transportation, security, communications, water, energy use, waste management, etc.). This infrastructure supports the life of the city as a world center of finance, science, medicine, culture, performing arts and international affairs. The seminar will investigate how people and the city must adapt to future challenges as climate changes and sea level rises. All students will gain experience in public speaking by preparing short oral presentations on a relevant topic, delivered during each session.



Malcolm Bowman, *School of Marine and Atmospheric Sciences*

Abrupt climate change would have profound effects on the infrastructure of New York City, aka the Big Apple, and hence its livability (accommodation, jobs, transportation, security, communications, water, energy use, waste management, etc.). This infrastructure supports the life of the city as a world center of finance, science, medicine, culture, performing arts and international affairs. The seminar will investigate how people and the city must adapt to future challenges as climate changes and sea level rises. All students will gain experience in public speaking by preparing short oral presentations on a relevant topic, delivered during each session.

HDV 102.15: Medicine and the Media

Meeting Pattern: TU 9:50AM-11:50AM
Location: Social Behavioral Sciences N405

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

Two very powerful social institutions, Medicine and the Media have grown in prominence both apart, as well as alongside, one another in the US particularly as of late. Just think of the numerous television series and special feature films dedicated to physicians, addiction disorders, forensic pathology and even the numerous doctor-directed self-help shows set in an “almost” clinical talk show format. No matter whether in television, newsprint, documentaries, feature films or radio programs, it is clear the language of all that is medical is pervasive and persuasive both on a pure informational level as well as for our own entertainment. This seminar will create, a dialogue about the development of these institutions as mingled, as well as the consequences to the culture so clearly shaped with and by them.

Catherine Marrone, *Sociology*

This course explores the politics of representation, identity, difference, race, class, gender and other socio-cultural issues that beset Asian Americans through the critical inquiry and practice of expressive forms of performance, dance, theater, music, stand-up and sketch comedy. An important component of this course is the attendance and appreciation of these expressive forms through required readings, watching programs, and substantive response papers. Throughout the course, students participate in theatrical exercises which provide the basic skills of stagecraft and dramatic expression for the creation of a performance piece that is part of a culminating project entitled “Who is Asia American?” to be performed in the Wang Center. Thus, you will be required to watch four performances, three of which I will assign, one you can choose from a prescribed list. A three page paper is required for each performance. There is no textbook as such since you will be required to watch ticketed performances. There will be a list of references which you can read on your own and use for your papers. Your active participation in the class discussion and classroom exercises are also required. Your active attention and critique of your classmates’ presentations are also required. Please wear comfortable clothing that you can move in such as sweat pants, sneakers for the exercises.

HDV 102 First-Year Seminars

HDV 102.16: The Great Debate: Current Issues in Public Health

Meeting Pattern: TU 2:20pm-3:15pm
Location: Schick 035

This course will introduce students to the concept of public health and will explore current controversial issues in public health. Topics are determined each semester by student interest; issues such as mandatory vaccinations, mandatory testing for HIV/AIDS and STDs, laws that permit the quarantining of ill people, banning junk food and soda in schools, and mandating smoke free campuses are a few of the possible topics discussed during the course. Students will actively participate in large and small group discussions, gather credible evidence that supports a strong position on a topic, develop persuasive arguments based on individual exploration, and engage in structured debates. This course will assist students in developing information literacy, public speaking, and interpersonal communication skills.



Debbie Zelizer, Health Sciences Program
Debbie Zelizer is program director of the Health Science major in the School of Health Technology and Management at Stony Brook University. She is also an alumna of the School of Social Welfare where she received a master's degree in social work.

Prior to joining the Health Science major, Professor Zelizer was involved in the field of HIV/AIDS for fifteen years. She provided extensive education and training to health and human service providers on Long Island regarding the behavioral and social aspects of health. Professor Zelizer has presented nationally and internationally on topics such as allied health education, HIV/AIDS testing, and addictions treatment. In 2006, she was funded by the Robert Wood Johnson Foundation to disseminate educational strategies nationally to alleviate allied health workforce shortages. In 2008, she became faculty director of the Living Learning Center minor in Health and Wellness. The interdisciplinary minor is designed to give students a foundation in the concepts of healthy living and helps students select future studies or careers in the health professions.

HDV 102.17: Health Care and the US Political Party System

Meeting Pattern: M 2:20pm-3:15pm
Location: Library N3090

In this seminar we will explore public health and the problem the United States is experiencing around building a political consensus for change. We will endeavor to understand the problem of consensus building as a problem directly related to the political party system in place.

We will explore what it is to be human in societies in which there is increasing social and economic inequality, and in which health care is not judged by many as a human right.

This course will proceed through group discussion and dialogue. In part the focus will be comparative--examining the US health care and party system compared to other political systems which are achieving greater social and economic equality and in which health care is approached as a human right.

Janet Youngblood, School of Health Technology & Management

Dr. Youngblood is a Woodrow Wilson Fellow and graduate of Reed College with a BA in English Literature. She attended Stony Brook to complete her Ph.D. in English Literature and was side-tracked by life! She went on to complete an MBA and then her Doctorate in Organization and Leadership from Columbia University/Teachers College. Her published dissertation examined adult learning in the US political party system and was published. She teaches on the Adjunct Faculty at Columbia University/Teachers College, on the volunteer faculty in Political Science at Stony Brook and in the Basic Health Sciences major at Stony Brook.

HDV 102 First-Year Seminars

HDV 102.18: The Human Connection

Meeting Pattern: TH 5:20pm-7:20pm

Location: Hamilton 010

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

Exploring the web of human relationships can prepare you to develop needed skill sets to meet the challenges of an increasingly complex yet smaller world community. Discovering the dynamics of interpersonal interaction and connectedness, through concepts related to communication and conflict resolution, will inform future personal growth and transformation.



Kathy Bratby, *School of Nursing*

Dr. Bratby is a faculty member and the Assistant Dean for Students in the Stony Brook University School of Nursing. She has a background in leadership and management, as a former nurse executive in hospital administration, and teaching experience in

various levels of nursing education. She is a graduate of the University of Pittsburgh and University of Pennsylvania Schools of Nursing, and a Doctor of Education degree in Leadership and Educational Administration at Dowling College.

HDV 102.19: What It Means to Be Human

Meeting Pattern: TU 5:20pm-7:20pm

Location: Hamilton 010

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

This course offers students the opportunity to work in small teams with classmates and some of the University's best faculty in mastering approaches to solving real-world problems in diverse areas. The central tool of the knowledge enterprise is critical doubt and students will work together in learning to question, explore and add to the knowledge base. Students will work towards developing critical thinking and advanced communication skills as well as the most important skill of all, mutually respectful debate and disagreement. We will focus on topics from philosophy and science and will use formal presentations as a means to share information and initiate discussions.



Andreas Mayr, *Chemistry*

Andreas Mayr studied chemistry in Munich and spent two years as a postdoctoral fellow at UCLA. His research is concerned with the chemistry of metal-carbon multiple bonds and with the synthesis of molecular materials. Current efforts focus on the creation of polyhedral

molecular frameworks made of transition metal complex corners and linear organic units as the edges. Such frameworks may find applications in such diverse areas as separations, molecular storage, catalysis, and molecular electronics.

HDV 102 First-Year Seminars

HDV 102.20: Surviving the First Year

Meeting Pattern: M 10:40am-12:30pm

Location: Health Science Center

Level 2 Seminar Room 1B

Note: This class meets in the Health Science Center.

This class meets for 2 hours a week for the first 7 weeks of the semester.

The purpose of this course is to not only discuss things you need to do to not only survive your first year of college, but to thrive in college. And many of the tools, skills, and habits you develop through this article can not only be used to help you succeed in college, but in your future career as well.



Barbara Messina, School of Nursing

Dr. Barbara Ann M. Messina is a Clinical Associate Professor at Stony Brook University School of Nursing, Department of Adult Health, and an Adjunct Clinical Associate Professor in the Department of Pharmacology in the School of Medicine. Dr. Messina is also

associated with the North Shore University Hospital/Long Island Jewish Hospital – Health Care Alliance and is a member of the North-Shore Long Island Jewish System Nursing Research Council. Dr. Messina received her Bachelor of Science from Long Island University: C.W. Post, her Master of Science in Nursing in the adult health nurse practitioner specialty from the Stony Brook University, and her Doctor of Philosophy from Adelphi University.

Dr. Messina's scholarly interests incorporate both teaching and practice. During the past three years Dr. Messina has assisted in the development of a pilot project designed to maximize faculty productivity in the clinical setting during senior clinical practicum for undergraduate nursing students and has a clinical program designed to introduce nurses to the peri-operative environment. Both of these new and innovative programs have been presented at nationally and the results of the senior clinical pilot project were published in the National League for Nursing's journal, *Nursing Education Perspectives*.

HDV 102.21: The Constitution: Individual Liberties and Social Justice in the United States

Meeting Pattern: M 3:50pm-4:45pm

Location: Library N3090

The U.S. Constitution is the highest law of the land and is referred to as a living document. This course will examine the history of the Constitution and the impact on modern day events through the lens of important Supreme Court decisions. The course will take a "law school" approach, that is, through analysis and discussion of case law to understand current concepts of liberty and justice.

This course will assist the student to gain insight in the area of law through a focus of social justice. The course will aid the participant to knowledgeably engage in discussions on issues of first amendment rights, affirmative action, reproductive rights, economic rights, voting rights, equal protection, due process, and many other critical issues that shape our nation and our lives.



Denise Snow, School of Nursing

Denise Snow, JD, RN, CNM, NP is a Clinical Associate Professor in the School of Nursing. She is also a nurse attorney and provides legal services to those with cancer through a grant sponsored program.

HDV 102 First-Year Seminars

HDV 102.22: Your Dental Health and Society and What Can We Do.

Meeting Pattern: TH 12:50pm-2:50pm

Location: Rockland 111

Note: This class meets at the Dental School (South Campus). This seminar will meet the first week of school and not meet again until April. Class meeting times are as follows: January 28, April 1, 8, 15, 22, 29, and May 6, 2010.

The object of the course is to provide undergraduate students with an introduction to oral health profession and translation of individual oral health needs and problems to society.

Alice Urbankova, General Dentistry

DDS, MUDr., Department of General Dentistry SDM.

Alice Urbankova is Assistant Professor and Division Director of the Operative Dentistry. Her teaching area is preclinical and clinical Operative Dentistry, Dental Materials, Prevention and Minimally Invasive Dentistry. Her research interest involves area of manual dexterity and skill development, and learning in related to dentistry using innovative techniques such as virtual reality.

ITS 102 First-Year Seminars

ITS 102.1: Fractal Design: A Technology for Fashion, Art and Culture

Meeting Pattern: TU 12:50pm-1:45pm

Location: Gray College A04 (ITS College Activity Center)

Fractal geometry has become an exciting frontier bordering between mathematics and information technology and has impacts in many aspects of society such as fashion design, art and culture. Fractals are characterized by the repetition of similar patterns at ever-diminishing scales. In this course, an overview of various fractal geometries such as scaling fractals, non-scaling fractals, self-mapping fractals along with the various properties of fractals will be presented. The applications of fractal geometry in fashion design, movie industry, and artistic expression will be explored. The evidence of fractal design in various cultures such as African, Celtic, Chinese, Ukrainian, and Maori will be covered. A project in which students design simple fractal geometry in various applications is required.



Wendy Tang, *Electrical and Computer Engineering*

Wendy Tang is an Associate Professor at the Department of Electrical and Computer Engineering in Stony Brook University. She received her B.S., M.S. and Ph. D in Electrical Engineering from the University of Rochester. Her current research interests are in Wireless Sensor Networks, Communication Networks

and Graph Theory Applications. Her research effort is supported by the National Science Foundation. She and her colleagues are the recipients of two best paper awards in 1997 and 1998. She is also an accomplished educator who has dedicated considerable efforts in promoting entrepreneurship in engineering education and increasing women students in engineering. Her dedication in promoting women in engineering was recognized by an IEEE Region 1 Award in 1998, an IEEE Regional Activity Board Achievement Award also in 1998 and an IEEE Third Millennium Medal Award in 2000. In 2006, the IEEE Long Island Section awarded Dr. Tang and her colleague, Dr. Serge Luryi, the Athanasios Papoulis Education Award for their pioneering contributions in incorporating entrepreneurship in engineering education. She is currently the Project Director for the National Science Foundation funded Project EXCE2L (Excellence in Computer Education with Entrepreneurship and Leadership skills) with a goal of enriching engineering curricula in general and computer engineering curriculum in particular through the incorporation of entrepreneurial and leadership skills.

As the new Faculty Director for the Information and Technology Studies (ITS) College, her goal is to continue the vision of the College to emphasize how information and technology impact our daily lives in different aspects such as personal development, arts, sciences, communications, global impacts and culture.

ITS 102.2: Nanotechnology: Fact and Fiction

Meeting Pattern: TU 2:20pm-3:15pm

Location: Gray College A04 (ITS College Activity Center)

Nanotechnology is the research, design and manufacture of functional materials or devices which rely on the unique properties materials have at a size scale of a few billionths to a few tenths of a millionth of a meter. Nanotechnology has not only begun to open new doors for engineering solutions, but has also been a major plot device for science fiction over the last thirty or so years. We will examine nanotechnology from the point of view of science fiction, and contrast that with the science, technology, risks and promise of nanotech research today.



Gary Halada, *Materials Science and Engineering*

Gary Halada is an associate professor in the Department of Materials Science and Engineering. He is the Undergraduate program Director for the Engineering Science (ESG) degree program, as well as coordinator of the Minors in

Nanotechnology Studies (NTS) and Environmental Engineering (ENE). A graduate of Stony Brook University, Dr. Halada is a past faculty director for the Undergraduate College of Information and Technology Studies (ITS). His research focuses on designing bio-inspired materials for environmental remediation and nanoscale engineering.

ITS 102 First-Year Seminars

ITS 102.3: Artificial Life: Fact and Fiction

Meeting Pattern: TU 3:50pm-4:45pm

Location: Gray College A04 (ITS College Activity Center)

Emerging technologies in genetics, robotics, artificial intelligence and nanotechnology (the GRAIN technologies), as well as bioengineering and bio-inspired engineering, are often looked to as a pathway to the development of "artificial life". Whether this is a realistic outlook or pure imagination (or somewhere in between), science fiction writers have been at the forefront of speculation on both the promises and risks of such a technology. From "Frankenstein" to modern tales of cloning and autonomous robots, we will look at how popular media has considered both the benefits and potential hazards of artificial life, and discuss how this compares to current technology and what this can teach us about ethics in science and engineering.



Gary Halada, *Materials*

Science and Engineering

Gary Halada is an associate professor in the Department of Materials Science and Engineering. He is the Undergraduate program Director for the Engineering Science (ESG) degree program, as well as coordinator of the Minors in

Nanotechnology Studies (NTS) and Environmental Engineering (ENE). A graduate of Stony Brook University, Dr. Halada is a past faculty director for the Undergraduate College of Information and Technology Studies (ITS). His research focuses on designing bio-inspired materials for environmental remediation and nanoscale engineering.

ITS 102.4: Energy and Technology

Meeting Pattern: F 10:40am-11:35am

Location: Gray College A04 (ITS College Activity Center)

In this ITS102 course, students will have an opportunity to conduct research and perform analysis in the topics of energy and technology. This will be a guided study in which you will interact with the professor directly to choose the topic, conduct study and literature survey, and put together a professional presentation on the topic of your choice. Issues and case studies include topics in "Energy and Technology" pertaining to: environment, daily life, transportation, power plant, energy production, energy consumption, reserve on earth, drinking water, biosystem, biodiversity, ... etc. Students are expected to produce a video podcast presentation, as the term project, to document and present their work and finding on a chosen topic.



Imin Kao, *Mechanical*

Engineering

Dr. Imin Kao is a professor of Mechanical Engineering and Associate Dean of College of Engineering and Applied Sciences. His research interests include robotics, manufacturing, intelligent diagnosis, and sensing technology.

ITS 102 First-Year Seminars

ITS 102.5: Garbage in Your World

Meeting Pattern: W 2:20pm-3:15pm

Location: Gray College A04 (ITS College Activity Center)

We will look at the kind of garbage we make, in particular here on campus. Many people draw conclusions about the very nature of our society from our garbage, and we will look at some of those points of view. The class will explore some ways we currently manage our wastes, and examine some alternatives that may lead to entirely different approaches to materials use. The potential for such changes to lead to a more "sustainable" way of life will be discussed.

David Tonjes, *Technology and Society*

Dr. Tonjes conducts research on environmental management. His primary areas of research are solid waste processes and management, and estuarine and coastal management. Solid waste research topics have included waste generation and management methodologies, including assessments of local programs and helping local governments plan and implement effective strategies. Landfill impacts on the environment are another topic of interest, including assessments of leachate quality and treatment methodologies, and tracing impacts to groundwater and surface water systems following releases of leachate to the environment, including creating and maintaining groundwater models of the affected systems.

ITS 102.6: Complex systems, emergence of behavior and prediction

Meeting Pattern: TU 2:20pm-3:15pm

Location: Gray College A04 (ITS College Activity Center)

Complex systems are composed of a large number of components and are characterized by an even larger number of interactions among the components. A common feature of complex systems is that they are not amenable to exact descriptions. Examples of complex systems include the climate, patterns in nature (meandering rivers, mountain ranges, ridges on the surface of sand dunes), formation of animal aggregations (fish schools, ant colonies), nervous systems, biological systems (cells with their signaling pathways), economies (interdependence among financial markets), and engineering systems (telecommunication infrastructures, power grids). Complex systems constantly evolve in time, often seemingly in an unpredictable way. In this course various important issues of complex systems are addressed including ways of understanding how structures and behavior emerge from the individual components of the systems and how the systems unfold with time.



Petar Djuric, *Electrical and Computer Engineering*

Petar M. Djuric; received his B.S., M.S., and Ph.D. degrees in electrical engineering. Since 1990 he has been with Stony Brook University, where he is Professor in the Department of Electrical and Computer Engineering. He works in the area of statistical signal analysis and processing.

ITS 102 First-Year Seminars

ITS 102.7: Technology Intellectual Property: How to protect your technology ideas and avoid stealing others? an Introduction to Intellectual Property Law

Meeting Pattern: M 5:20pm-6:15pm

Location: Gray College A04 (ITS College Activity Center)

Intellectual Property Law is the body of law devoted to protecting intangible assets. Defining laws to protect your house or your car is easy. How do you protect your new design? Your company name? Your software code? We will discuss the various types of intellectual property law and how they can be used to protect your valuable research and development. The prime focus will be on patent law as it protects "inventions". The course will survey the major cases and issues in patent law including protecting your intellectual property and learning how to avoid infringing the intellectual property of others. Half of the semester will be in a lecture format where cases will be presented by the instructor and the other half will be presentations by students.

Steven Rubin, *Dilworth & Barrese, LLP*

Steven Rubin has over 10 years experience in counseling clients on patent related matters. He advises clients throughout all phases of a patent's life from conception by an inventor to enforcement. He drafts and prosecutes patent applications and has managed large patent portfolios, identified potential patent infringement assertions and potential cross-licensing opportunities and provides infringement opinions as needed. He represents clients in patent enforcement and litigation matters domestically and internationally. Mr. Rubin also reviews patent portfolios and pending patent litigations in relation to corporate mergers, acquisitions and investments.

Mr. Rubin is the Chairman of the IEEE (Institute of Electrical and Electronics Engineers) Long Island Section Power & Energy and Industrial Applications Joint Societies Chapter, and the Legal Affairs Section Officer for the Long Island Chapter. He has also taught patent law to students and faculty at Brooklyn Law School, Fordham Law School, Stony Brook University, and Farmingdale State College.

Mr. Rubin is a prolific author and lecturer on patent law. Mr. Rubin is frequently called upon by the media to comment on recent events in patent law. Recently, he has been quoted by IP Law & Business, Forbes, Information Week, macnewsworld.com, ecommercetimes.com, TechNewsWorld, Linuxinsider, EE Times, IPLaw360.com and Information Display magazine.

Mr. Rubin is a member of Eta Kappa Nu (the electrical and computer engineering honor society), a senior member of IEEE and a corresponding member of IEEE-USA Intellectual Property Law Committee.

ITS 102.8: Nanomedicine

Meeting Pattern: TU 3:50pm-4:45pm

Location: Gray College A04 (ITS College Activity Center)

Recent advances in the field of nanotechnology have made major medical breakthroughs. They have been possible because scientists with vastly divergent areas of expertise have worked together in a cooperative and integrative manner. The challenge new scien



Mary Frame McMahon, *Biomedical Engineering*

Research Interests : " Our emerging understanding of oxygen delivery to the tissues is that the blood flow within the smallest arterioles is tightly organized within repeating networks across the tissue. Central to this new paradigm are the concepts of va

ITS 102 First-Year Seminars

ITS 102.9: Visualize This!

Meeting Pattern: W 3:50pm-4:45pm

Location: Irving/O'Neill 170

Over 50% of the brain is dedicated to the processing of visual information, including the abstract visual representation of non-visual concepts. Visualization is the gateway to deeper and more complex structures in the brain, such as those dedicated to reasoning and creative problem solving, which are still hard to replicate on machines. This seminar will give an overview of the effective use of visualization in fields as diverse as medicine, science, engineering, biology, and business. It will also investigate, in simple terms and highly visual, some of the specific graphics algorithmic techniques and concepts in use, and it will discuss what's behind today's popular graphics boards and how they can be used in more "serious" applications. Finally, it will explore issues in human visual perception, computer vision, and the physics of image generation.



Klaus Mueller, Computer Science

Klaus Mueller received the MS degree in biomedical engineering in 1991 and the PhD degree in computer science in 1998, both from The Ohio State University. He is currently an associate professor in the Computer Science Department at Stony

Brook University, where he also holds co-appointments in the Biomedical Engineering and Radiology Departments. His current research interests are computer and volume graphics, visualization, visual analytics, medical imaging and computer vision. He won the US National Science Foundation CAREER award in 2001 and has served as a co-chair at various conferences, such as IEEE Visualization, Volume Graphics Symposium, and the Fully 3D Workshop on High-Performance Image Reconstruction. He has authored and co-authored more than 100 journal and conference papers, and he has participated in 15 tutorials at international conferences on various topics in visualization and medical imaging. He is a senior member of the IEEE and the IEEE Computer Society. For more information, see <http://www.cs.sunysb.edu/~mueller>

ITS 102.10: Opportunities in Science and Engineering

Meeting Pattern: M 11:45am-12:40pm

Location: Irving/O'Neill 170

A survey of the various science and engineering disciplines. Guest speakers describe their respective fields of research and study and the opportunities for students entering the field today. Other topics include ethics, intellectual property and entrepreneurship. The interdisciplinary nature of science and technology is emphasized.



Monica Bugallo, Electrical and Computer Engineering

Monica Bugallo is an Assistant Professor at the Department of Electrical and Computer Engineering. Her research interests lie in the area of statistical signal processing and its applications to different disciplines including communications and biology.

ITS 102 First-Year Seminars

ITS 102.11: Software User Interfaces - Getting the Design Right and the Right Design

Meeting Pattern: TH 9:50am-10:45am
Location: Computer Science 1306

This course will offer an introduction to the design of software user interfaces. Topics include: how to design high-quality user interfaces for desktop, web, and mobile/handheld software applications; common mistakes that we make when designing user interfaces; what is human computer interaction (HCI) and why it is important; serious game interfaces; virtual reality and augmented reality; and natural language interfaces. During the semester we will also tour the labs in the Center of Excellence in Wireless and Information Technology (CEWIT) and see demos of different software systems developed at CEWIT.



Rong Zhao, Computer Science

Dr. Rong Zhao is the Director of Software Systems Division of the New York State Center of Excellence in Wireless and Information Technology (CEWIT) and a faculty member of Computer Science Department at Stony Brook University. He has more than

15 years of software research and development experience and more than 8 years of project management and technology commercialization experience. His areas of expertise include data mining, machine learning, user interfaces, software engineering, medical informatics and healthcare technology. Dr. Zhao has provided consulting and training services to several Fortune 500 companies and served as an advisor, consultant or expert witness for companies in many industries.

ITS 102.12: Social, Legal, and Ethical Issues for Information Technology

Meeting Pattern: TU 9:50am-10:45am
Location: Computer Science 1310

This course deals with the impact of computers on us as individuals and on our society. Rapid changes in computing technology and in our use of that technology has changed the way we work, play and interact with other people. These changes have created a flood of new social and legal issues that demand critical examination. For example, technologies such as Gmail, FaceBook, MySpace, along with music sharing sites and Wikis create new social, ethical, and legal issues.

Here are a few examples of the issues we will be talking about:

- * There is a great deal of information about all of us recorded in computer databases. What rules should govern how this information is used? (We all get privacy notices in fine print from our banks, credit card companies, etc. -- what do they really mean?) Hacking, identity theft and credit card fraud has increased in recent years. What are responses to these types of fraud and what precautions can we take to prevent this from happening?

- * New encryption methods make it possible to keep e-mail and phone conversations secret from others. How should our desire for privacy be balanced with the need of law-enforcement agencies to intercept communications of suspected criminals or terrorists?

- * How serious are the problems created by Web sites that contain pornography, 'hate' material directed at various groups, bomb-making information, etc? Should there be any restrictions on material that is put on the Web?

- * It is easy to use computers to copy music, software, books, etc., in violation of copyright law. What is the extent of this problem? What can or should be done about it? What is free software? Should all software be free?

There are (at least) two sides to almost all of the questions we will consider in this course. We will spend much of our class time discussing the issues and exploring different points of view.



Robert Kelly, Computer Science

As Associate Chair of Computer Science, he has primary responsibility for the undergraduate Computer Science and Information Systems programs at Stony Brook University. He has taught classes in Software Engineering, Internet Programming, User Interface Programming, Introduction to Programming, Electronic Commerce, Introduction to

Information Systems and Legal Issues in Computer Science, many of which he has also developed. His research interests include medical informatics, software engineering, image processing, Internet programming, and parallel programming. The primary research focus has been on systems to reduce the incidents of medical errors in acute health care facilities. This work includes a system for a high-level interface to medical monitors, representation techniques for clinical guidelines as system-independent documents, an Anesthesiology clinical support system, a rule-based system for discharge planning, and a system to associate monitor data with outcome data to improve prediction of changes to a patient's condition in critical care settings. He is also developing systems to process marine science sensor data with the goal of developing inquiry systems for marine features. He has published papers on these topics in major journals and conferences. He has been on program committees or chaired invited sessions of a number of

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international conferences. He is also the graduate director of the college level program in Information Systems Engineering. Collaborating with an industry partner, he has developed a software application that received the Long Island Software Award for Internet-based software. He is also the recipient of the State University of New York Promising Inventor Award. Prior to joining Stony Brook University in 1999, he was Vice President of Global Professional Services at Computer Associates, and prior to that, he was Director of Research & Development at Northrop Grumman Data Systems. He also serves as Vice Chair of the Board of Directors for the Bethpage Federal Credit Union, a \$3.5B financial institution. (631) 632-7543, Robert.Kelly@stonybrook.edu, www.cs.sunysb.edu/~robkelly/

ITS 102.13: Societal Impact of Nanotechnology

Meeting Pattern: TU 9:50am-10:45am

Location: Gray College A04 (ITS College Activity Center)

This course will focus on the applications and societal implications of nanotechnology. After a brief introduction to research in nanotechnology (applied science and technology at the molecular level), attention will turn to the myriad of potential applications of nanotechnology. Special consideration will be given to scientific, social, political, economic, behavioral, legal and ethical aspects of the development and applications of nanotechnology.



David Ferguson, *Technology and Society*

David Ferguson is a Distinguished Service Professor of Technology and Society and Applied Mathematics and Statistics at Stony Brook University. Currently, he is chair of the Department of Technology and Society. His research and teaching are intertwined and focus on issues of quantitative reasoning;

problem solving; use and assessment of educational technologies; technology in mathematics, science and engineering education; and decision making. Dr. Ferguson has held many funded research and special projects. He co-directed the NSF-supported Algorithm Discovery Development project and two NSF-funded Faculty Enhancement workshops on the teaching of introductory computer science courses. Under support from the Sloan Foundation, he developed a course in Applications of Mathematics for liberal arts students. He also co-designed and co-taught a multidisciplinary course, jointly offered by Biological Sciences and the College of Engineering and Applied Sciences, on Computer Modeling of Biological Systems. He was a co-PI on a multi-campus project, funded by NSF, on Mathematical Sciences and Their Applications Throughout the Curriculum. Currently, he is co-PI on two NSF-funded educational technology projects: 1) MathThread project to study the learning and teaching of mathematics via distance learning, and 2) Project on Innovative Approaches to Computer-Human Interfaces. In addition, he has developed a variety of curricular materials to help undergraduates improve their quantitative reasoning. At the graduate level, Professor Ferguson teaches courses in educational technology and decision making. He supervises projects in such areas as advanced technologies in the learning and teaching of mathematics, science and engineering; problem solving in a variety of content areas;

computer-human interfaces; quantitative models in decision making; and teacher and faculty development.

In 1992, Professor Ferguson received the State University of New York Chancellor's Award for Excellence in Teaching. He is a New York State and national leader in programs to enhance the participation of underrepresented minority students in undergraduate and graduate science, mathematics, engineering, and technology programs. Dr. Ferguson was a member of the executive committee of the NSF- supported Recognition Award for the Integration of Research and Education (RAIRE). From 1998 until 2002, Dr. Ferguson directed Stony Brook's Center for Excellence in Learning and Teaching (CELT). He enjoys the very diverse learning environment where educators, engineers, environmental professionals, and current, as well as emerging managers, learn collaboratively.

ITS 102.14: Computer Security: Attacks and Defenses

Meeting Pattern: F 10:40am-11:35am

Location: Library S1410D

Computer security is an increasingly important and difficult issue in our society. Why is it so hard to make a secure computer system? This course will explore some of the challenges, by looking at various kinds of attacks and how they can be prevented or mitigated. In the process, we will also learn about the design of modern computer hardware and software.



Scott Stoller, *Computer Science*

Professor Stoller's primary research interests are analysis, optimization, testing, and verification of software, with emphases on concurrency and security.

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ITS 102.15: Engineering and Technology Ethics

Meeting Pattern: TU 12:50pm-1:45pm

Location: Library N3090

In order to function in a society driven by technology and innovation, understanding the basics of the legal system on which it is based is as important for the lay person, as for the scientist or engineer.

In this course we introduce the concept of critical and independent thinking about moral issues and how to apply this moral thinking to situations that arise in the course of professional business practices. We will define the laws pertaining to it, the business drivers behind it, and the ethical responsibilities associated with it.

Ethical conduct in the workplace is discussed.

Subjective terms and relations to societal norms are discussed and legal definitions and terminology is introduced. Analysis of complex problems and resolving these problems in the most ethical manner. Ethical cases involve issues of public safety, bribery, fraud, environmental protection, fairness, honesty in research and testing, and conflicts of interest.

Donna Tumminello, *Office of Technology Licensing and Industry Relations*

Assistant Director, Office of Technology Licensing and Industrial Relations at Stony Brook University

Responsible for coordinating intellectual property management and technology transfer activities for the College of Engineering and Applied Sciences. Expertise in analyzing inventions, promoting partnerships with corporations and business, and developing and executing strategic licensing contracts

ITS 102.16: From Microelectronics to Nanoelectronics

Meeting Pattern: W 10:40am-11:35am

Location: Gray College A04 (ITS College Activity Center)

Since the early days of microelectronics, there was a drive to build more complex and faster circuits and systems in a chip. According to the well known Moore's Law, circuit complexity (roughly the number of transistors) and computer performance doubles every 24 months. This has been achieved mainly by scaling down the dimensions of the building blocks (MOS transistors) from several microns to less than 0.1 micron or 100 nm (nanometer) at present. At this scale, new physical effects start to manifest themselves and change the behavior of conventional devices. In addition, completely novel nanoscale devices are being proposed that could hasten the transition from microelectronics to nanoelectronics. This course will give a general overview of microelectronics and introduce a number of novel nanoscale devices being pursued.



Ridha Kamoua, *Electrical and Computer Engineering*
Ridha Kamoua (S'88–M'90) received the B.S. degree in electrical engineering from the University of Rochester, Rochester, NY, in 1985, and the M.S. and Ph.D. degrees in electrical engineering from the University of Michigan at Ann Arbor, in 1987 and 1992, respectively. In 1992,

he joined the Department of Electrical and Computer Engineering, State University of New York at Stony Brook, where he is currently an Associate Professor and the undergraduate program director. His research interests include development of computer models for high-frequency millimeter- and submillimeter-wave devices, design and modeling of high-performance Gunn oscillators, investigation of novel semiconductor sources for the terahertz region, wide bandgap semiconductors, and neural recording sensors and circuits. Dr. Kamoua is a member of Eta Kappa Nu.

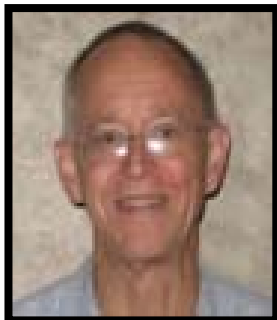
ITS 102 First-Year Seminars

ITS 102.17: Mathematical Puzzles

Meeting Pattern: M 10:40am-11:35am

Location: Physics P129

In this seminar, students will play with a number of mathematical puzzles and learn some pieces of elementary mathematics that provide insight into solving the puzzles.



Alan Tucker, *Applied Mathematics and Statistics*
Prof. Tucker is Applied Mathematics and Statistics Director of Undergraduate Program and is a Distinguished Teaching Professor. His specialty is combinatorial mathematics, an area in which he has written the best selling textbook.

ITS 102.18: Imagination in Engineering

Meeting Pattern: TU 11:20am-12:15pm

Location: Gray College A04 (ITS College Activity Center)

Everyday we hear about the litany world's problems: global warming, energy, poverty, clean water, health care etc. While powerful, monetary solutions can only solve some of these problems. For most, no solution is evident. For these the power of creative engineering is the only hope. Everyone has a unique prospective, ability, and motivation to seek solutions through constructive, creative enterprise. In this course we will seek to strengthen our creative ability through discussion and practical applications. As a solar photovoltaic energy and structural biology researcher the discussion will begin from this prospective and evolve according to the interests of the class.



Charles Fortmann, *Materials Science and Engineering*
Main Research Topics:
Computer modeling and simulation of protein shape change, secondary structure and neural systems

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ITS 102.19: Having Fun With Polymers

Meeting Pattern: TU 6:50pm-7:45pm

Location: Engineering 236A

Polymers are rapidly replacing natural materials. For example, we used to have drinks in glass bottles, cars were made of metal, and furniture from wood. Today, all these objects are created from man made plastics. Learn how plastics are made, what are the benefits and the risks...and get your hands wet, making your own.



Miriam Rafailovich, *Materials Science and Engineering*

Miriam Rafailovich directs a center sponsored by the National Science Foundation which is dedicated to polymer research. The center is a pilot study on research through education, which means that students of all ages--from high school through the post-

doctorate can work together in teams, solving problems related to polymers.

ITS 102.20: Engineering Success Through Failure

Meeting Pattern: TH 12:50pm-1:45pm

Location: Gray College A04 (ITS College Activity Center)

Engineering failures play an important role in the evolution of design. We will consider some famous (and a few not-so-famous) engineering failures such as the Tacoma Narrows Bridge, Three Mile Island nuclear reactor, and the various Hagia Sophia roof collapses and their impact on subsequent designs. Life does not consist of failure alone, so we will also look at a few exceptional designs that have quietly exceeded expectations and saved lives in the process.

David Westerfeld, *Electrical and Computer Engineering*

David worked as an engineer in the aerospace industry for ten years before returning to school to pursue his Ph.D. in Electrical Engineering he has had some successes (and a few failures) but nothing bad enough to make the news...

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ITS 102.21: Managing Technology Programs

Meeting Pattern: M 10:40am-11:35am

Location: Gray College A04 (ITS College Activity Center)

A common mistake made in technology-driven organizations is to promote the finest technologists/engineers to positions where they are responsible for managing projects and other technologists. The skill set required to lead development programs to successful conclusion can be very different from those required to develop technology. This course will explore technology management - from the role of the manager to basic project management skills; from steering and understanding what the customer wants to defining the product both the company and customer need; from influencing company/customer expectations to the ethical dilemmas that plague those who are responsible for managing scope, resources, schedule, and end customer satisfaction.

David Hernandez,

David Hernandez launched his interest in multiple different aspects of engineering early, simultaneously earning a B.S. in Computer Engineering and an M.S. in Electrical Engineering. His graduate work led him to prototype work with OFDM communications - the basis for the IEEE 802.11a/g wireless standards. To complement design "know-how" with analytical expertise, he pursued a doctorate in EE, focused on signal processing and communications.

Dr. Hernandez has viewed engineering from a variety of perspectives. As a process engineer, he gained valuable insight into how design decisions affect individual product life cycles. Later, he worked on integration of full vehicular platforms, aircraft, and hovercraft, giving him exposure to increasingly complex designs from the "line engineer" perspective. As his skills evolved, he was expected to make business decisions and took on responsibility for advanced technology demonstrations to customers. He learned to balance the technologist's need to "push the envelope" with making tangible contributions to the customer's mission. His work in homeland security began as part of a working group tasked with improving FDNY equipment after Sept. 11th. This led to Dr. Hernandez being selected as integration lead for Nassau County's component of the Homeland Security Exercise & Evaluation Program. He led a team of 10 Long Island companies responsible for design, development, testing, and one-time field deployment of a survivable situational awareness and response system for first responders. Later, as the head of Space Sciences and Operations, at Northrop Grumman, he led a team working on the design of the next lunar module, as well as developing a research agenda addressing lunar settlement as part of NASA's Project Constellation.

Dr. Hernandez has launched and headed-up Research/Advanced Development organizations at multiple companies of varying size and scope. This varied experience, from individual technology contributions to managing personnel and company strategic vision, is what Dr. Hernandez enjoys bringing to the classroom.

LDS 102 First-Year Seminars

LDS 102.1: Social Entrepreneurship

Meeting Pattern: M 2:20pm-3:15pm

Location: Library S1410D

Learn the how to start and lead a social entrepreneurship venture for the benefit of society and as a possible source of livelihood for yourself and others. The course covers leadership characteristics of social heroes and learning from model social entrepreneurship efforts, locally and globally. You will select a cause about which you feel passionate and, as practice for developing your own leadership skills, develop a business plan, set goals, formulate strategies for action (e.g., for advocacy, fund raising, and recruiting and retaining volunteers), design an organizational structure, create a marketing plan, including advertisements, a Web site, and an elevator pitch, and develop an assessment design to evaluate your goal accomplishments.



Manuel London, College of Business

Manuel London is Associate Dean of the College of Business and Faculty Director of the Undergraduate College of Leadership & Service. He is also Director of the Center for Human Resource Management and has an appointment in the department of psychology. He

has a PhD in industrial and organizational psychology. His areas of research and practice focus on how people evaluate themselves and others in organizations applied to performance appraisal, performance management, feedback, career development, and continuous learning for individuals and groups. He is also active in a variety of community service initiatives on and off campus. See his Web site: <http://Manuel.London.Googlepages.com>

LDS 102.2: Leading Virtual Teams

Meeting Pattern: M 3:50pm-4:45pm

Location: Library S1410D

Considerable work today gets done in teams. Often, these are teams of subject matter experts in different functions who are geographically dispersed. Emerging technologies make this possible including social networks, shared drives, web sites, and virtual meeting spaces that use videos, blogs, wikis, voice-over internet, and other communication methods together with a wide range of internet-based information sources. These technologies expand opportunities for group interaction but also present challenges such as language, culture, and time differences and difficulties in developing effective working relationships. How do leaders create and communicate a vision, develop shared goals, and accomplish work in virtual space? In this course, students will explore elements of group leadership in a virtual environment by identifying ways to overcome these challenges and creating their own virtual team leadership experiences.



Manuel London, College of Business

Manuel London is Associate Dean of the College of Business and Faculty Director of the Undergraduate College of Leadership & Service. He is also Director of the Center for Human Resource Management and has an appointment in the department of psychology. He

has a PhD in industrial and organizational psychology. His areas of research and practice focus on how people evaluate themselves and others in organizations applied to performance appraisal, performance management, feedback, career development, and continuous learning for individuals and groups. He is also active in a variety of community service initiatives on and off campus. See his Web site: <http://Manuel.London.Googlepages.com>

LDS 102 First-Year Seminars

LDS 102.3: Creating Social Change

Meeting Pattern: TU 3:50pm-4:45pm

Location: James College 170

This seminar will give students the opportunity to redefine service as well as to explore avenues for potential leadership. The seminar will be divided into units. Each unit will focus upon an issue that requires service – and ultimately social change. Using each topic as an example, you will increase your understanding of the specific issues and determine which, if any, you might be interested in addressing either as a career or as a service pursuit throughout your life.



Charles Robbins, *School of Social Welfare*

Associate Dean and Associate professor in the School of Social Welfare. Faculty director of the Community Service Living Learning Center and the Leadership Development Living Learning Center.

LDS 102.4: Immigrant Identity in New York

Meeting Pattern: M 10:40am-11:35am

Location: Library S1410D

This seminar addresses realities of post-World War II immigrants to the United States in their attempts to create their own identities in the maelstrom of the U.S. population. As people continue to migrate, issues that pertain to transnational migration, globalization, ethnic group formation, and the politics of citizenship will continue to be among the most provocative areas of social sciences and humanities research. You will explore the recent history of these immigrants and consider ways immigrants create value for themselves and the country.

Georges Fournon, *Africana Studies*

LDS 102 First-Year Seminars

LDS 102.5: Service & Success

Meeting Pattern: M 6:50pm-7:45pm

Location: Library S1410D

The greatest successes in life come through service, whether money, fame... How to help the world while helping yourself.

Kent Gustavson, *European Languages*

Dr. Kent Gustavson is a composer, musician, & author. His expertise is roots music, but he earned his PhD in classical music composition from SUNY Stony Brook in New York in the spring of 2007. Dr. Kent also has more than a dozen audio recordings to his name, available from his small independent record label Ninety and Nine Records. His version And Am I Born to Die was nominated for a Just Plain Folks award, and his album Stolen Shack was featured on NPR's All Songs Considered.

Dr. Gustavson is the author of *Blind But Now I See: The Biography of Music Legend Doc Watson*, coming out in the Fall of 2009. He currently teaches at SUNY Stony Brook on Long Island, and does workshops around the world.

Author, publishing expert, industry consultant, professor, speaker, entrepreneur, professional musician, and PhD classical composer, Dr. Kent Gustavson is also the owner of independent publisher Blooming Twig Books and www.skeletonmethod.com, its subsidiary provider of top-end and award-winning author services. He is a sought-after industry consultant, branding coach and ghostwriter, and speaks around the world on publishing and music. Dr. Kent hosts the radio show www.soundauthors.com on Blog Talk Radio, formerly syndicated to World Talk Radio and Voice America, and has interviewed hundreds of bestselling authors and award-winning musicians. He was recently (as @drkent) named one of Twitter's Top 100 Edu-Tweeters for his use of Twitter in his university teaching. Find out more about Dr. Kent at www.kentgustavson.com

LDS 102.6: Making Data Talk

Meeting Pattern: W 10:40am-11:35am

Location: Library N4000

This course is designed to help students learn ways to analyze data quickly and accurately and to help them make sense of data presented in news and articles.



Michael Kamins, *College of Business*

Michael Kamins is a Full professor of Business at the Harriman College of Business. his research interests include Price Bundling and Rumor.

LDS 102 First-Year Seminars

LDS 102.8: Organ and Tissue Donation Awareness

Meeting Pattern: TU 5:20pm-6:15pm

Location: Library S1410D

Every day in the United States, an average of 18 people die while awaiting organ transplants because of a critical shortage of donors.

During the past 10 years, the transplant waiting list has more than doubled with more than 98,000 men, women and children now awaiting heart, kidney, liver, lung and pancreas transplants.

Each person who decides to become an organ and tissue donor has the potential of saving and enhancing more than 50 lives and taking up to eight people off the organ transplant waiting list.

The focus of this LDS 102 course is two-fold: (1) students in the course will learn the facts and issues surrounding organ and tissue donation in the United States; and (2) they will help establish, plan, implement and carry out various projects aimed at increasing organ and tissue donation awareness within the University and the surrounding community.

Scott Smolka, *Computer Science*

Scott Smolka is a professor of computer science who does research on cardiac cell modeling. He is also the faculty advisor to the undergraduate student club on organ donation awareness (ODAC). This is the third time he has taught the LDS 102 course on organ donation.

LDS 102.9: Leadership in Sports

Meeting Pattern: M 11:45am-12:40pm

Location: Library S1410D

This course will discuss the current controversial issues in sports such as Racism, Steroid Use, Violence, Fan Hostility, etc., and the impact of leadership, both good and bad, on these issues. Students will be expected to review three sports articles weekly from the newspapers and type a brief report regarding the leadership demonstrated by the person, team, or organization discussed in the article.



Richard Laskowski, *College of Business*

Dr. Richard Laskowski was Director of Athletics at Stony Brook for 10 years, and before that had director and faculty roles at St. Johns. He is now on the Stony Brook College of Business faculty specializing in sports management.

LDS 102 First-Year Seminars

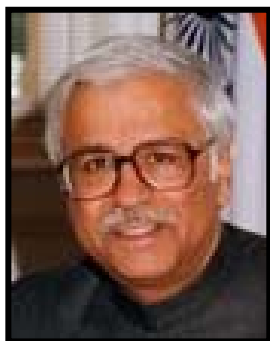
LDS 102.10: Critical issues in International Relations

Meeting Pattern: W 2:20pm-4:20pm

Location: Humanities 1049

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

This seminar will address itself to a critical examination of certain key issues in international relations that have defied solution over the years such as terrorism, ethnic cleansing, nuclear proliferation, the Arab-Israeli conflict etc. The issues will be identified by the seminar participants themselves, with the instructor providing guidance for discussion & debate.



Harsh Bhasin, Asian and Asian American Studies

I am a Visiting Professor of International Relations at Stony Brook and currently serve as Chair of the Department of Asian & Asian-American Studies. Before joining Stony Brook, I served as a career diplomat with nearly four-decades of field experience in Asia, America

and Africa. My work and interests center on the role of diplomacy in foreign affairs. I currently teach upper-level undergraduate courses on the politics and diplomacy of Contemporary India and of Contemporary China and have recently authored a book on the emerging relationship between the US, China & India in the 21st Century.

LDS 102.11: Great Speeches

Meeting Pattern: M W 5:20pm-6:40pm

Location: Harriman 304

Note: This section is reserved for students in the Business Leaders Program (BLP). This class meets 2 days a week for the first 5 weeks of the semester.

This course will examine the speeches of leaders -- political leaders, business leaders, religious leaders and military leaders. We will look at speeches to defend the accused, to praise the dead, to inspire the living, to apologize for wrongdoing, to say farewell and to persuade a community to pursue a particular course of action. We will be particularly interested in learning how leaders persuade through character, argument, style and adaptation to an audience.



Joseph McDonnell, College of Business

Dr. McDonnell serves as the Dean of the College of Business. He is interested in business education, particularly the development of business leaders. Before coming to the college of business, he served in senior management positions in large organizations as well as entrepreneurial ventures. He

began his managerial career as Associate Director of Stony Brook University Hospital, where he was part of the senior management team that opened the hospital. He then went on to become Director of Business Administration for Applied Digital Data Systems, followed by nearly fifteen years in ascendant positions for the Long Island Lighting Company, concluding his service as Senior Vice President for Marketing and External Affairs. Following the merger/sale of the Long Island Lighting Company, Dr. McDonnell worked on Wall Street, where he served as Managing Director for Broadgate Consultants, assisting companies through high-profile crises. He assisted one of his clients with a venture in China and for nearly two years was President and CEO of Chinex International, a joint venture trading company, during which he resided in Beijing.

LDS 102 First-Year Seminars

LDS 102.12: Getting the Most Out of Stony Brook

Meeting Pattern: W 3:50pm-4:45PM

Location: Humanities 3020

Are you getting the most out of Stony Brook? What did you learn in your fall semester that will on reflection help you this semester. Have you become familiar with the attitudes, norms and skills needed to succeed? Have you recognized the academic skills and study habits needed to meet your potential? Have you recognized the advantages of integrating academic and social experiences? Do you know that it's not too early to think about what comes next...getting a job, getting into graduate or a professional school? Will you be ready? Stony Brook is a challenging environment that gives you a wide array of opportunities that prepare you for success. This seminar will help you understand Stony Brook: its role in society, how it functions and how you can take advantage of it's attributes.



Peter Baigent, *Vice President of Student Affairs and Associate Provost for Enrollment & Retention Management*

LDS 102.13: Finances Matter: A Financial Literacy Primer

Meeting Pattern: TU 3:50pm-4:45pm

Location: Langmuir College 170

Students in this course will be exposed to some fundamental financial information that may help in personal financial responsibility. This includes discussing how values and background impact financial decision-making, developing personal spending plans, understanding the importance of savings, learning about savings plans, understanding credit cards, evaluating credit card offers, understanding credit reports and credit scores, protecting against identity theft, and understanding the life cycle of financial planning. Much time will be spent on learning about and discussing the development of our credit card society and the impact that it has on personal financial decisions.

Barbara Fletcher, *Enrollment Management*

Barbara Fletcher has been an administrator at Stony Brook University for over 29 years and has had a variety of responsibilities during that time, including Director of Orientation and Director of Scholarships. Her academic background is in the area of Sociology and she obtained her Master's degree at York University in Toronto, Canada. She taught Sociology at the college level before coming to Stony Brook in 1980. Currently at SBU she is the coordinator of the National Student Exchange program and involved in the Financial Literacy initiative, along with other functions in Enrollment Management.

LDS 102 First-Year Seminars

LDS 102.14: Making Change: Lessons in bringing about change in a organization, culture, or society.

Meeting Pattern: W 3:50pm-4:45pm
Location: Benedict College 123

The course will look at the factors that either inhibit significant change or enable it. The course will help you develop strategies for bringing about effective and meaningful change; as well, as identifying those situations where efforts to make change are likely to fail. As a team, we analyze selected significant contemporary issues and devise strategies for enabling change.

Philip Doesschate, DoIT Information Systems

Phil Doesschate is Stony Brook's Director of Information Systems. He has over 30 years of experience bringing about change in organizations.

LDS 102.15: Exploring recent initiatives to Develop Spirit and Pride at Stony Brook

Meeting Pattern: TU 10:40am-11:35am
Location: Langmuir College 170

What are our Stony Brook traditions? How have our traditions been developed? This class will explore the history and developments of traditions at Stony Brook University. We will discuss the role of Athletics in developing traditions and trace the evolution of Athletics from our Division III days to our recent move to NCAA Division I. We will research traditions from other colleges and universities and compare them with our own. Class discussions will include ways the university can initiate and spread new traditions.



John Leddy, Athletic Bands

John Leddy taught music in the Connetquot school district for thirty-three years where he conducted concert band, jazz ensemble and marching band at all levels. Currently, he is the Director of Athletic Bands at Stony Brook University. At Stony Brook, Mr. Leddy oversees the Athletic Bands program, which includes the

“Spirit of Stony Brook” Marching Band and the Pep Band.

Mr. Leddy has a Bachelor of Music degree from the Crane School of Music at Potsdam College, and a Master of Arts from Stony Brook University. He studied percussion with James Peterscak at the Crane School, timpani with Morris Lang of the New York Philharmonic Symphony Orchestra, and jazz drum set with Jim Chapin, Joe Morello and Ed Shaughnessy. Mr. Leddy was the recipient of a Summer Fellowship for music educators from Northwestern University where he studied conducting with Mallory Thompson and Don Owens. He also served as the Director of Jazz Studies at the Usdan Center for the Creative and Performing Arts.

Mr. Leddy has guest conducted at numerous SCMEA, Hamptons, and North Fork festivals. He served as the NYSSMA Chairman for Instrumental Jazz, as the SCMEA Chairman of Instrumental Jazz and SCMEA Jazz Day Coordinator

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LDS 102.16: Leadership and Service

Meeting Pattern: W 3:50pm-4:45pm

Location: Library N3090

Identifies knowledge, skills, and strategies for making not-for-profit organizations culturally competent and the role of the leader, in achieving this goal. The course content and format will teach students various historical virtues divided into personal and social, character traits. This course will also introduce students to techniques as to how to train organizational leaders to focus on, and to practice cultural pluralism, thereby incorporating a cultural consciousness in their strategic planning, vision, mission, and goals. We will deal with the issue of cultural competence beyond its role among diverse groups of people. We will examine the cultural behavior of organizations, agencies, courts, nations, and how they behave and how they carry out their leadership mandate within its organizational culture. Students will be taught how to train others to use a specific model of cultural competence and ways to integrate parts of the curriculum model for the Bakeman Leadership Institute within their TOT training.



John Colon, *School of Social Welfare*

LDS 102.17: Leadership for the Common Good

Meeting Pattern: TH 3:50pm-4:45pm

Location: Old Chemistry 226

Bringing groups together is a central and unrelenting task of leadership. CEOs must nudge their executives to rise above divisional turf battles. Mayors must try to cope with gangs in conflict. Leaders of many countries face the realities of sectarian violence. This seminar will introduce students to cutting-edge research and insight into the problems and possibilities for leadership in a world of difference. Readings and discussion will bring together two powerful scholarly disciplines -- intergroup relations and leadership -- to examine both theoretical frameworks and practical tools and specific case studies as well. Examples from around the world and from every sector (corporate, political, and social) will bring to life the art and practice of intergroup leadership for the common good.

Todd Pittinsky, *Technology and Society*

Todd L. Pittinsky is Associate Professor of Technology and Society in the College of Engineering and Applied Sciences. His research examines allophilia (positive intergroup attitudes) and how leaders can use them to bring groups together. Prior to joining the SBU faculty, he was an Associate Professor of Public Policy at the Harvard Kennedy School where he served as the Research Director of the Center for Public Leadership.

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LDS 102.18: Leadership as Innovation

Meeting Pattern: F 10:40am-11:35am

Location: Library N4000

Business Week has a new section on Innovation in firms around the world. We shall read Business Week each week and discuss the major articles about leaders who create innovation. Students will write a paper about leaders and innovation.



Gerrit Wolf, *College of Business*

Dr. Wolf is an industrial and organizational psychologist who has focused on entrepreneurship. His students have started or joined growing technology-based businesses in New York, where he started entrepreneurship courses 20 years ago; in Budapest, where he held Fulbright's

Alexander Hamilton Chair of entrepreneurship in 1993; and in Stockholm, where he was the first Fulbright Chair of Wireless E-Commerce in 2001. He and his students have also consulted for a range of firms including Symbol Technologies and Ericsson. He has published more than 60 academic articles on conflict management, managerial decision-making, and leadership. He presently researches wireless impact on organizations and consumers. He is a past Dean of the Harriman School for Management and has had academic and administrative appointments at Georgia Tech, University of Arizona, and Yale. Dr. Wolf is currently is Director of the College's Honors Program.

LDS 102.19: American Civil War Leadership Styles

Meeting Pattern: M 12:50pm-1:45pm

Location: Library N3090

The American Civil War (aka the War Between the States or the War of Northern Aggression) Leadership Styles Seminar has been developed for students interested in this crucial time in American history. The seminar will address lectures on both military and civilian leadership styles and then students will do comparisons between northern and southern generals and government officials during this time period. The students will get a better appreciation of research approaches, Civil War history and how leadership influenced the outcome of the conflict. Students will present their research to the instructor and their colleagues so this will enhance their professional communication skills. This is an opportunity to learn history, research skills, leadership styles communication skills and have fun doing so.



Robert Ettl, *College of Business*

Although Professor Ettl teaches in the College of Business he is a life long American Civil War enthusiast. His personal library consists of hundreds of Civil War publications, he has visited and studied every major battle site in the major eastern and

western campaigns and many of the minor sites as well. Prof. Ettl has participated in Civil War seminars and round tables and is an active member in the Friends of Gettysburg. Integrating his personal hobby with his business and military leadership experience will produce an enjoyable learning opportunity.

LDS 102 First-Year Seminars

LDS 102.20: Using Technology to Implement Virtual Meetings

Meeting Pattern: TH 3:50pm-4:45pm
Location: Harriman SINC Site 320

As with previous technological creations, beginning with the optical telegram (fire and smoke), then the electrical telegram (impulses), the acoustic telegram (phone), the visual telegram (fax) and now the network of networks (Internet) society has had to integrate these new communication methodologies into the fabric of business and social interactions. It is the intention of this course to describe the newest virtual collaboration tools and their benefits in overcoming distance, time and culture.



Aristotle Lekacos, *College of Business*

Professor Lekacos brings more than 25 years business and technical experience to the classroom. He founded and managed for 20 years a software company that developed enterprise wide business systems for Retailers, Wholesalers and Manufacturers. He guided the firm into a Multinational

Corporation expanding the scope and breath of the product line. During that period Mr. Lekacos also provided consulting services to many Fortune 100 corporations including IBM, JC Penny, AT&T, EDS, Sunbeam, Radio Shack, Honeywell and Xerox. He also provided services to various government agencies including CO-OP's of Ontario (Canadian Agriculture department), Canadian Postal Authority and NY State Court System. In addition to his business background he has extensive technical experience in software and systems. He has published articles and made presentations on business, innovations and technology. Prior to founding his company Mr. Lekacos worked at Grumman Aerospace Corporation in Advanced Systems and Business Proposals. He has received numerous awards including various Who Who's, International Distinguished Leadership, Personality Of The Year to name a few. Current areas of pursuit are the integration of Wireless devices into the business process.

LDS 102.21: The Role of Athletics in Leadership and the Community

Meeting Pattern: W 9:35am-10:30am
Location: Goldstein Center (Indoor Sports Complex)

A college athletic program is often considered to be the front porch of a University. This seminar will explore how a Division I Athletics Department operates within a University such as Stony Brook while also examining the role Athletics play within the larger extended community outside of the boundaries of the campus. The course will include discussions, readings, guest lectures, and attendance at athletic contests as tools to learn how athletics can impact those who participate as athletes as well as those who cheer from the stands, work on the campus or live in the surrounding communities.



Jim Fiore, *Athletics/Student-Athlete Development*

Jim Fiore is the Stony Brook University Director of Athletics. After serving in a variety of administrative roles at Princeton University, Dartmouth College, Fordham University and the National Invitation Basketball Tournament, Fiore was named to his current position as Director of Athletics in July

2003. Since his arrival at Stony Brook, the Department of Athletics has experienced unprecedented growth. The football program was elevated to the full scholarship division I level, multiple conference championships have been won in several sports, the academic success of the student-athletes has soared with the overall grade point average standing at 3.05, fundraising efforts have multiplied, staff development opportunities are supported, student-athlete welfare initiatives implemented and community connections have been strengthened. Under Fiore, Stony Brook's local, regional and national presence has grown significantly through development of multi-year television agreements, selection to host NCAA quarterfinal and national championships, and involvement in multi-million dollar fundraising efforts. As the Director of Athletics, Fiore also supports participation by his staff and student-athletes in a wide variety of community service initiatives including relationships with the Walk for Beauty, Lacrosse for Autism, free youth sports clinics, food drives, Soles4Souls, and National Girls and Women in Sports Day events. A native of Long Beach, NY, Fiore graduated from Long Beach High School and went on to attain his Bachelor of Arts degree from Hofstra University where he played free safety for the football team. Fiore also went on to receive a master's degree in education from Springfield College and received a certificate from the Sports Management Institute held at the University of Notre Dame and University of South Carolina.

LDS 102 First-Year Seminars

LDS 102.22: Pity the Poor Reader

Meeting Pattern: TU 11:45am-12:40pm

Location: Langmuir College 170

Learn how to write a blog (or email, tweet, Facebook posting, novel - whatever) that people will really want to read. The sad fact is that 35% of all blogs never have a single reader outside the author and 10% of all blogs receive 90% of all readership. This course is about how have your blog among that golden 10%. The professor is an accomplished writer (he's written everything from online computer column to novels) and he will teach students how to write effectively. That is, work that is interesting and compelling. The course will work like a workshop, with students writing short, weekly assignments that are then critiqued by the class and professor based on the principals taught.



Charles Haddad, *Journalism*

For 25 years, Charles Haddad worked as an award-winning editor and writer at many news organizations, including the St. Louis Post-Dispatch, the Atlanta Journal-Constitution and Business Week magazine. He has also taught nonfiction writing at Emory University and served as director of a

Knight Fellowship that promoted excellence in medical and public health journalism. As part of that fellowship, he ran training programs for journalists from around the world, including conferences in India and China. He's a graduate of Harvard University and Sarah Lawrence College and has written three children's novels, all published by Random House. At present, Haddad is an associate professor of journalism at Stony Brook University.

LDS 102.23: Body/Mind Performance for Leadership Training

Meeting Pattern: TH 10:40am-12:40pm

Location: Nassau Hall 104

Note: This class meets for 2 hours a week for the first 7 weeks of the semester. This class meets in South Campus.

This course will examine the dynamic interplay of imagination, creativity and critical thinking revealed through physical presence, action and performance. Industry, education and business are eager to find cooperative employees who are capable of invention and leadership. This course is based on the premise that physical, creative work requires and enhances the engagement of both independent thinking and collaboration. The practice of physical, creative work will be the focus of the course. The goal of the course is to provide the student with a number of techniques and tools in order to help develop the leader within you. Join us as you find ways to tap into your own human potential, as well as ways to play an important role in collaborations with others.

Amy Sullivan, *Center for Dance, Movement and Somatic Learning*

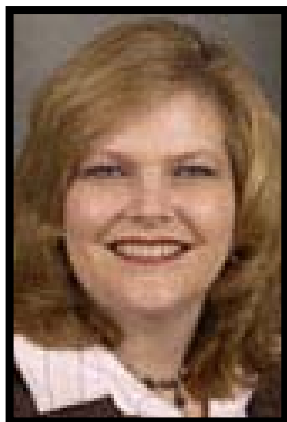
LDS 102 First-Year Seminars

LDS 102.24: Learning and Leading in Diverse Communities

Meeting Pattern: TH 11:20am-12:15pm

Location: James College 170

Diversity is a distinguishing feature of our campus and our global society. In this class, we will explore the different dimensions of diversity and the skills necessary to successfully live, learn, and lead in diverse communities.



Suzanne Velazquez, *School of Social Welfare*

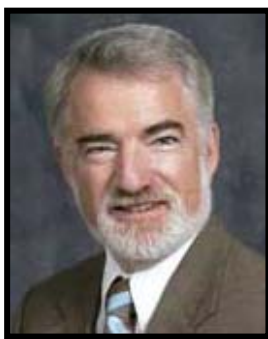
SSO 102 First-Year Seminars

SSO 102.1: Science in the Weekly News

Meeting Pattern: W 2:20pm-3:15pm

Location: Roth Café 103 (Center for Science and Society)

This seminar will involve discussion of current science news as presented weekly in the Science Section of the Tuesday edition of the New York Times and Newsday. Each week we will read and discuss these articles in the Science sections. Emphasis will be placed on understanding and clarifying the basics behind each story, why it is newsworthy and the effects that the science has on society.



Stephen Yazulla,
Neurobiology and Behavior
Stephen Yazulla graduated from the University of Scranton with a B.S. in Psychology. He continued at the University of Delaware, receiving an M.A. and Ph.D. in Physiological Psychology in 1969 and 1971, respectively. After two postdoctoral fellowships at the

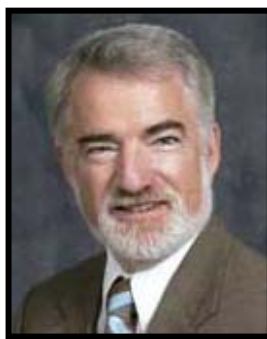
University of Delaware and Harvard University, he joined Stony Brook University in 1974. Since 1986 he holds the position of Full Professor of Neurobiology & Behavior, with a concurrent position of Professor of Ophthalmology since 2005. Professor Yazulla has served on the Editorial Boards of Visual Neuroscience (Associate Editor from 1993 to 1998) and the Journal of Neurocytology.

SSO 102.2: Science in the Weekly News

Meeting Pattern: TH 2:20pm-3:15pm

Location: Roth Café 121 (Center for Science and Society)

This seminar will involve discussion of current science news as presented weekly in the Science Section of the Tuesday edition of the New York Times and Newsday. Each week we will read and discuss these articles in the Science sections. Emphasis will be placed on understanding and clarifying the basics behind each story, why it is newsworthy and the effects that the science has on society.



Stephen Yazulla,
Neurobiology and Behavior
Stephen Yazulla graduated from the University of Scranton with a B.S. in Psychology. He continued at the University of Delaware, receiving an M.A. and Ph.D. in Physiological Psychology in 1969 and 1971, respectively. After two postdoctoral fellowships at the

University of Delaware and Harvard University, he joined Stony Brook University in 1974. Since 1986 he holds the position of Full Professor of Neurobiology & Behavior, with a concurrent position of Professor of Ophthalmology since 2005. Professor Yazulla has served on the Editorial Boards of Visual Neuroscience (Associate Editor from 1993 to 1998) and the Journal of Neurocytology.

SSO 102 First-Year Seminars

SSO 102.3: Environmental Psychology

Meeting Pattern: M 12:50pm-2:50pm

Location: Roth Café 103 (Center for Science and Society)

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

This course will introduce environmental psychology, an interdisciplinary field that looks at many aspects of the interaction between humans and their environment. Topics will range from discussions of human views of nature to perceptual processes and human-designed environments. Our discussions will be integrative and pragmatic, drawing upon the resources of many related disciplines, including neuroscience, sociology, architecture, ecology, and urban planning.



John Robinson, Psychology

Dr. Robinson is a biological psychologist whose expertise is in animal behavior and neuroscience. He received his Ph.D. from the University of New Hampshire and did postdoctoral work at the University of Hampshire and did postdoctoral work at the University of Health. Dr. Robinson has been on the faculty of Stony Brook University

since 1994 and is a recipient of the President's and Chancellor's Awards for Excellence in Teaching.

SSO 102.4: Stem Cells: What is all the fuss?

Meeting Pattern: TU 5:20pm-6:15pm

Location: Roth Café 103 (Center for Science and Society)

Stem cell research has become increasingly prominent as an item in the news as the potential for stem-cell-based therapies becomes closer to reality. The discussions in this seminar will try to clarify what stem cells are and outline their potential therapies.



J. Peter Gergen, Biochemistry and Cell Biology

Research in the Gergen laboratory uses the developmental genetic framework of the *Drosophila* embryo to investigate the regulation of gene expression, with a primary focus on the Runt transcription factor. Runt is

the founding member of the Runx family of transcriptional regulators. Runx proteins are present in all animal species examined, but not in plant or microbial eukaryotic systems. Runt is best characterized for its role in the *Drosophila* embryo where it has vital roles in several pathways, including sex determination, segmentation, and neurogenesis. Mutations in all three human Runx genes are associated with genetic disease, and targeted mutagenesis experiments in the mouse indicate that these genes have vital roles in several pathways, including hematopoiesis, neurogenesis and osteogenesis. A unifying aspect of Runx function in these many different pathways is a role in cell fate specification. An intriguing aspect of regulation by Runt and the vertebrate Runx proteins is that they function both as transcriptional activators and repressors, depending both on the specific target gene and the developmental context. Indeed, this context-dependence is central to the Runt-dependent regulation of the segment-polarity genes during segmentation.

SSO 102 First-Year Seminars

SSO 102.5: Pharmacology and Society

Meeting Pattern: TH 5:20pm-6:15pm

Location: Roth Café 103 (Center for Science and Society)

The Impact of Drug Development and Drug Use/Abuse on Current Society. We will discuss the significance of new drug discovery on the practice of medicine and the role of the pharmaceutical Industry and in the current efforts toward reforms in Medical Care.



Joav Prives, *Pharmacology*

Joav Prives is a professor in the Department of Pharmacological Sciences. His research interests include the mechanisms responsible for the formation, function and programming of synapses. His medical interests include the molecular basis of Alzheimer's disease as well as 2 muscle

diseases- myasthenia gravis and muscular dystrophy.

SSO 102.6: The Biology and Politics of Fat

Meeting Pattern: M 8:20pm-9:15pm

Location: Roth Café 103 (Center for Science and Society)

Topics we will touch upon include: 1. digestion and absorption of fat 2.) fat cells in the laboratory, 3.) tale of two fat mice - leptin and the leptin receptor 4.) fat in literature Dickens to Weird Al Yankovich 5.) fat and healthcare policy, 6.) fat and the workplace.



Ellen Li, *Medicine*

Ellen Li, Professor of Medicine/Gastroenterology and Molecular Genetics and Microbiology. Dr. Li completed her undergraduate degree in chemistry at Stanford University. She obtained her MD and Ph.D. in Biochemistry at Washington University ST. Louis. After

completing her medicine residency at Massachusetts General Hospital she returned to St. Louis for subspecialty training at Washington University. She rose through the ranks to Professor of Medicine and was Director of the Digestive Diseases Research Core Center until 2009. This fall she joined the faculty at Stony Brook University after her husband, Dr. Samuel Stanley was appointed President of Stony Brook University. Her clinical and research interests center on inflammatory bowel diseases.

SSO 102 First-Year Seminars

SSO 102.7: Changing the World with \$20 Microloans

Meeting Pattern: W 5:20pm-6:15pm

Location: Roth Café 103 (Center for Science and Society)

Note: This class requires a 1-page application sent to Turhan.Canli@stonybrook.edu. Department consent is required.

In 2006, economist Muhammad Yunus, founder of Grameen Bank, was awarded the Nobel Peace Prize for the major social changes he made possible by his invention of the "microloan". By lending out very small amounts (too small for normal banks to bother) to micro-entrepreneurs, he enabled millions to build sustainable futures for themselves and their families. KIVA is an organization that uses the internet to enable individuals to act as micro-lenders, starting with loans as small as \$25.

In this course, we will study Yunus' approach, reading his biography, and apply his lessons to KIVA's banking. This is no academic exercise! We will organize a fundraiser and use the money to make real loans to real people. You are going to be responsible for selecting applicants you support, by teaching the rest of the group about their loan request, and giving us background information on their business idea and the country in which they operate. I will donate up to my full compensation to match whatever money you raise for KIVA. Due to limited enrollment, you will need my permission to take this course. Permission will be based on your ability to express in a 1-page essay your motivation for taking this course.



Turhan Canli, Psychology

Dr. Canli is the founding director of the SCAN (Social, Cognitive, and Affective Neuroscience) Center, an MRI imaging facility funded by the National Science Foundation in a grant to him. He was educated at Tufts (B.A., summa cum laude, summo cum honore in thesis, Psychology) and Yale (Ph.D., Biopsychology), and was a postdoctoral research fellow at Stanford University. In 2001, he joined the Psychology faculty of Stony Brook

University. He is also a member of the Stony Brook Graduate program in Genetics, and a Visiting Professor at the University of Würzburg, Germany.

Dr. Canli has two fundamental research interests. One is the "Biology of Personality and Individual Differences", on which he edited a book by the same title (Guilford Publications, 2006). In particular, he is interested in the molecular mechanisms underlying gene-environment interactions, and how these interactions shape neural circuits that regulate social and emotional behavior. His area of expertise covers psychology, neuroscience and neuroimaging, and molecular genetics. He plays many advisory roles, including as a Distinguished Senior Adviser in Positive Neuroscience to the Templeton Foundation, and as a Member of the National Advisory Council on Aging (NACA), Genetics Subcommittee. Dr. Canli's other interest is neuroethics. He is a co-founder of the Neuroethics Society, an international scholarly society concerned with the ethical implications of neuroscience

applications in the real world. He has served on the Executive Board of the Neuroethics Society since its inception in 2006, and also serves as a Senior Fellow in the Stony Brook Center for Medical Humanities, Compassionate Care, and Bioethics, as well as a member of the Advisory Council of the Brazilian Ethics and Bioethics Institute in Sao Paulo, Brazil.

Dr. Canli has lectured extensively in the U.S., Canada, Europe, and Asia and received several awards, including the 2008 James McKeen Cattell Sabbatical Award from the Cattell Fund and the Association for Psychological Science, the 2006 Alumni Recognition Award from Tufts University's EPIIC (Education for Public Inquiry and International Citizenship) Program "in recognition of your distinguished scholarly accomplishments, path-breaking ways to understand the brain, and your dedication to ethics in science and public policy", and a 2001 Young Investigator Award, National Alliance for Research on Schizophrenia and Depression (NARSAD). He advises the research foundations of the governments of the Austria, Canada, Germany, Israel, and the United Kingdom, as well as the National Science Foundation, the Veteran's Administration, and the National Institutes of Health of the United States.

SSO 102.8: Genes, Diversity & Destiny

Meeting Pattern: W 5:20pm-6:15pm

Location: Center for Molecular Medicine 485

"Know thyself" is old advice, but the human genome sequence has given us a completely new way to know ourselves. We now have both a complete "parts list" for Homo sapiens, and the ability to say exactly how each of us differs genetically from everyone else. Does this matter? Can our DNA really tell us anything new about ourselves, as humans and as individuals, that we didn't know before? Are there really "genes for" personality traits like shyness, aggression or sexual orientation as well as for cancer risk or heart disease? The human genome sequence is already affecting the practice of medicine and law, but the profoundest impact may be on how and whether people think of themselves and their fates as being under their own control, or dependent on their genetic inheritance. In this seminar, we'll explore and assess critically claims being made for genes and their role in human health, behavior and individuality, as they appear in the news.



Maurice Kernan,

Neurobiology and Behavior

Maurice Kernan attended the University of Dublin and received a B.A. in Genetics in 1984. He went on to obtain a Ph.D. in Genetics from the University of Wisconsin in 1990. He then spent three years as a Research Associate at the Howard Hughes Medical Institute, University of California, San Diego. He came to Stony Brook University in 1995 where he is currently

Associate Professor of Neurobiology & Behavior. He has served as the Director of the HHMI summer undergraduate research program since 2007.

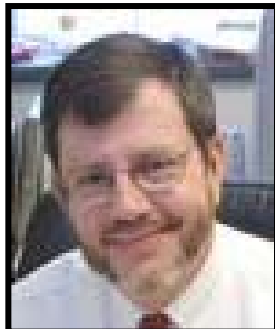
SSO 102 First-Year Seminars

SSO 102.10: Water - Chemistry, Society and Politics

Meeting Pattern: TU 9:50am-10:45am

Location: Administration 407

Students will examine a wide range of scientific, political, and societal issues related to water, water resources, and drinking water. Topics will include: the origin of water on Earth, the global water cycle, Long Island's aquifers and its water resources, water uses, supply and demand, climate change and water resources, drinking water standards, pollution of water resources, the Clean Water Act, water and diseases, water rights, water in developing countries, water purification technology.



Eric Kaler, Provost

Eric W. Kaler, Provost and Vice-President for Brookhaven Affairs earned a B.S. degree in Chemical Engineering (with honors) from the California Institute of Technology in 1978 and a Ph.D. in Chemical Engineering from the University of Minnesota in 1982 working with L.E. Scriven and H.T. Davis. Dr. Kaler joined the faculty of the

Department of Chemical Engineering at the University of Washington in 1982 and was promoted to Associate Professor in 1987. He moved to the Department of Chemical Engineering at the University of Delaware in 1989, became a Professor there in 1991, Department Chairman in 1996, and was appointed the Elizabeth Inez Kelley Professor of Chemical Engineering in 1998. He became Dean of the College of Engineering in 2000. In 2007 he became the Provost and Senior Vice President for Academic Affairs at Stony Brook University, and in 2008 assumed the duties of Vice President for Brookhaven Affairs. He was also a Visiting Professor at the Universität of Graz in 1995. His research interests are in the area of surfactant and colloid science, statistical mechanics, and thermodynamics. Dr. Kaler received one of the first Presidential Young Investigator Awards from the National Science Foundation in 1984, the Curtis W. McGraw Research Award from the American Society of Engineering Education in 1995, the 1998 American Chemical Society Award in Colloid or Surface Chemistry, and the 1998 ACS Delaware Section Award. He was elected a fellow of the American Association for the Advancement of Science in 2001 and received the Chilton Award from the Wilmington AIChE Section in 2002. In 2005, Dr. Kaler was awarded the E. Arthur Trabant Institutional Award for Women's Equity by the University of Delaware and received the Lectureship Award from the Division of Colloid and Surface Chemistry of the Chemical Society of Japan. He received the Kash Mittal Award from the Surfactants in Solution Symposium in 2006. He has chaired three Gordon Research Conferences and serves or has served on the editorial boards of the journals *Langmuir*, *Colloids and Surfaces*, *Journal of Colloid and Interface Science*, and *AIChE Journal*, and was an associate editor of the *European Physical Journal*. He is also the founding co-editor-in-chief of the international journal *Current Opinions in Colloid and Interface Science*. He has authored or co-authored over 200 peer-reviewed papers and holds ten U.S. patents. He has been a consultant to numerous companies, and has served in a variety of positions in several professional societies.

SSO 102.11: The Climate Debate

Meeting Pattern: TU 12:50pm-1:45pm

Location: Library S1410D

Opposing views of global climate change are contrasted in this course. Is the current pattern of global change a harbinger of great danger for humanity? Is it driven by human activity or is it a natural fluctuation? Do benefits of climate change outweigh the damage? These questions are explored by the students with their own analyses of climate data. Students will be guided in statistical analyses of data on temperature, precipitation, sea level and other climate variables using Excel.



Sultan Hameed, School of Marine and Atmospheric Sciences

I am a professor in the School of Marine and Atmospheric Sciences at Stony Brook. My research interests are in investigating the nature and causes of climate change in different parts of the world.

SSO 102 First-Year Seminars

SSO 102.12: Science and "The Revenge of Gaia"

Meeting Pattern: TU 2:20pm-3:15pm

Location: Roth Café 103 (Center for Science and Society)

This class will discuss the concept of Gaia (the earth as a living being) using one of James Lovelock's latest book "The Revenge of Gaia". We also will discuss some of the science behind discussions of global warming and implications for the earth system as a whole.



Mary Scranton, *School of Marine and Atmospheric Sciences*

My research focuses on the carbon cycle in the Cariaco Basin, a large oxygen-depleted basin on the continental shelf of Venezuela. Together with collaborators from US and Venezuelan universities, I am

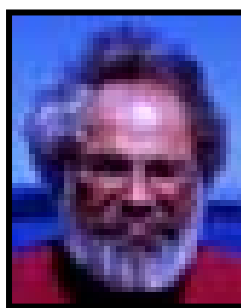
trying to understand the processes that control the amount and composition of material sinking in the Cariaco system. Because the sediments in the Cariaco preserve a record of deposition over more than 100,000 years, studying this system gives us a unique understanding of fluctuations in tropical climate and ocean life. My specialty is marine biogeochemistry and I study the relationships between distributions of chemical species in the water column and the microbes that control these distributions.

SSO 102.13: The Coral Reef Crisis

Meeting Pattern: M 3:50pm-4:45pm

Location: Roth Café 103 (Center for Science and Society)

Coral reefs are the most beautiful and probably the most diverse of all marine communities. We will use collaborative learning to study and discuss the biology of coral reefs but also the environmental dangers they face from climate change, ocean acidification, and habitat disruption by human activities.



Jeff Levinton, *Ecology and Evolution*

Jeffrey Levinton is a marine ecologist, interested in the biology of organisms living on the sea bed. He teaches Bio 353 (Marine Ecology) and Bio 371 (Restoration of Aquatic Environments). He does research on functional biology of

feeding of marine animals, ecotoxicology, bivalve mollusk and crab ecology.

SSO 102 First-Year Seminars

SSO 102.14: The Science and Society Cookbook

Meeting Pattern: TH 11:20am-12:15pm

Location: Roth Café 103 (Center for Science and Society)

In this seminar we will cultural, historical, and scientific factors that contribute to the foods we eat and the ways we cook them. Student will give oral presentations of recipes, describing origins, transfer of ingredients, and cooking styles. Recipes will be compiled into a Science and Society Cookbook.



Glenn Lopez, *School of Marine and Atmospheric Sciences*

My scientific training in marine ecology and oceanography have little to do with this course. However, I love to cook and have explored food history for my own pleasure.

SSO 102.15: Neuroscience in the News

Meeting Pattern: M 5:20pm-6:15pm

Location: Roth Café 103 (Center for Science and Society)

This seminar will involve discussion of timely science news on topics of neuroscience, neurology, psychiatry, neurological disease and mental illness as presented in newspapers and news programs. Emphasis will be placed on understanding the basics behind the story, why it may be newsworthy and the effects that the science reported may have on society.



Mary Kritzer, *Neurobiology and Behavior*

My laboratory uses a variety of techniques to study the effects of gonadal hormones on brain substrates of cognition, memory and emotion. Many disorders that adversely affect these functions occur disproportionately in males

and females. We hope that by understanding more about how the hormones that make men and women different influence the brain, we may gain insights into the neurobiology of what may be going wrong in disease and new strategies things therapeutically.

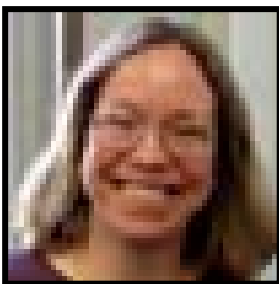
SSO 102 First-Year Seminars

SSO 102.16: Critical Issues in the Environment

Meeting Pattern: W 10:40am-11:35am

Location: Roth Café 103 (Center for Science and Society)

The natural world is impacted by—and also affects—humans in multiple ways. We will examine current environmental issues as they affect human well being, as well as how humans affect the well being of their environments, including climate and the biodiversity of other species. We will critically read and discuss popular sources of information, including current events media (newspapers, the web, radio and TV), looking at the science behind the news. In addition, we will introduce the use of scientific databases (such as the Web of Science) and read original scientific papers. The seminar will emphasize discussion based on critical reading as well as developing skills for finding, understanding and evaluating information on these topics.



Jessica Gurevitch, Ecology and Evolution

Prof. Gurevitch is the chairperson (from Sept. 2006) of the department of Ecology and Evolution. My research spans several traditional categories within the field of ecology. Most of my work involves the experimental

investigation of fundamental ecological questions at the level of plant populations and communities. I am also interested in statistical applications in ecology, particularly in the design and analysis of ecological experiments. While my work has always been concerned with addressing questions of basic scientific interest, I have attempted to connect the basic research to issues with applied and conservation relevance.

SSO 102.17: Science in the Weekly News

Meeting Pattern: TH 9:50am-10:45am

Location: Roth Café 103 (Center for Science and Society)

This seminar will involve discussion of current science news as presented weekly in the Science Section of the Tuesday edition of the New York Times. Each week we will read and discuss these articles in the Science section. Emphasis will be placed on understanding and clarifying the basics behind each story, why it is newsworthy and the effects that the science has on society.



Lorna Role, Neurobiology and Behavior

Central cholinergic systems, which provide important modulatory control of synaptic excitability, have been strongly implicated in neuropsychiatric diseases including attentional disorders, schizophrenia, depression, and Alzheimer's dementia. The Role laboratory studies the generation, plasticity, and

maintenance of cholinergic and cholinergic synapses in the mammalian brain. Recent work tests the hypothesis that novel classes of signaling molecules, which are products of the neuregulin-1 gene, are important in the susceptibility to such diseases. Neuregulin-1-signaling is essential to the maintenance of normal cholinergic circuits. The role of neuregulin-1 signaling in synaptic function is being studied with in vivo and in vitro electrophysiological approaches as well as in behavioral tests of mice genetically altered to express reduced levels of functional neuregulin-1 protein. The Role lab, in collaboration with the laboratories of Dr David Talmage has demonstrated that neuregulin-1-signaling is bi-directional, and that neuregulin-1-expressing neurons require such signaling to survive.

Current work also employs molecular and biochemical approaches to further examine the signaling cascades and target genes activated by interactions of neuregulin-1 with its receptor (erbB), in both pre- and postsynaptic neurons. As the neuregulin-1 gene has been strongly implicated as a susceptibility locus for schizophrenia, current work could provide important insight into the role of Nrg1 at synapses and circuits whose function and dysfunction may underlie this and other neuropsychiatric disorders.



David Talmage, Pharmacological Sciences

I have a long standing interest in how cells respond to their environment – mechanistically, a process commonly known as signal transduction. The current focus of our studies is on how one pair of molecules, Nrg1 and ErbB4, interact to regulate synapse formation and maintenance. The Nrg1 gene encodes a family of ~20

different proteins that serve as ligands for members of the ErbB family of receptor tyrosine kinases. These proteins have long been recognized as playing important roles during vertebrate development, and inappropriate Nrg1 – ErbB signaling plays key roles in such diverse diseases as breast cancer and schizophrenia.

SSO 102 First-Year Seminars

SSO 102.18: Modern Biology and Ethics

Meeting Pattern: TH 3:50pm-4:45pm

Location: Center for Molecular Medicine 485

The rapid pace of advances in biomedical research presents society with new ethical challenges and dilemmas. This seminar will explore issues that confront society as a result of these developments. We will explore both the biology and ethics of a series of topics including stem cell research, the human genome project, abortion, end of life decisions and the definition of gender.



Howard Sirotkin, *Neurobiology and Behavior*

In the long studied, but poorly understood process of embryonic development, a single cell divides and differentiates to form the multitude of cell types found in a mature organism. The research in Dr. Sirotkin's laboratory is directed toward

elucidating the signaling interactions that induce and pattern the three germ layers and the mechanisms that govern proliferation and differentiation of neural stem cells and progenitors. These processes generate the diverse cell types found within the nervous system. The laboratory utilizes the zebrafish as a model organism. Several attributes make the zebrafish an ideal system for this analysis: embryos are transparent which allows for observations of cells in vivo, development occurs external to the mother which facilitates cellular manipulations (transplants and gain/loss of function assays) and most importantly, it is a powerful genetic system. Because all vertebrates share fundamental similarities in the organization of their body plans, understanding the genetic networks that control zebrafish neural development will provide important insights into development of other species including humans.

SSO 102.19: The End of Cheap Oil

Meeting Pattern: M 11:45am-12:40pm

Location: Roth Café 103 (Center for Science and Society)

Although geologists have long predicted increasing shortages of drillable oil, many in the U.S. continue to see expanded oil drilling as the answer to problems such as the current high cost of gasoline. We'll look at the past and future of oil exploration, and consider alternatives to petroleum-based energy, and explore what the future might hold for our society's use of energy resources.



Christiane Stidham,
Geosciences

Christiane's research has focused around tectonic and structural modeling, and simulation of earthquake wave propagation: in other words, computer simulations of earthquakes, which require construction of computer Earth models.

These research topics include:

- 3-D simulations of wave propagation and generation of strong ground motion in the San Francisco Bay region and in the Los Angeles Basin
- Development of L.A. basin density model based on oil industry measurements
- Construction of 3-D velocity model of Taiwan and offshore region

Construction of Earth models has been through 'in-house' 3D-generation programs in C, and through academic/oil industry program Gocad. Computer simulations were conducted on supercomputing facilities at Lawrence Livermore Lab, and on parallel computing clusters constructed at Caltech.

SSO 102 First-Year Seminars

SSO 102.20: Water Science and Technology

Meeting Pattern: M 3:50pm-4:45pm

Location: Roth Café 121 (Center for Science and Society)

With global warming and a rapid population growth in certain regions, there is simply not enough usable water for many parts of the world, especially for people to lead a standard of living that one aspires to because the distribution of usable water on earth is extremely uneven and most people do not live only in regions where there is plenty of accessible usable water. In this seminar series, new advances in water science and technology and related issues to address this major problem will be discussed.



Benjamin Hsiao,
Chemistry

Professor Benjamin S. Hsiao was born in Taipei, Taiwan. He received his B.S. in Chemical Engineering at National Taiwan University and his Ph.D. in Materials Science at the University of Connecticut in 1987. Currently, he is the Chair and Professor in the

Chemistry Department at the Stony Brook University. He is on the editorial advisory boards of several scientific journals and has authored and coauthored over 350 scientific papers and reviews, 2 books, 25 patents and applications. He has become the fellow of the American Physical Society in 2002. Currently, he is the Spokesperson of the X27C Beamline at National Synchrotron Light Source, Brookhaven National Laboratory; Cheung-Kong Scholar Professor at Donghua University in Shanghai, and Guest Professor of Changchun Institute of Applied Chemistry, Chinese Academic of Sciences. His research interests are mainly focused on the use of nanostructured materials for environmental, energy and medical applications.

SSO 102.21: Huntington's Disease

Meeting Pattern: W 3:50pm-4:45pm

Location: Roth Café 103 (Center for Science and Society)

Huntington's Disease is a progressive, neurodegenerative, genetic disease that affects about 1/20,000 individuals in the population. It is a fatal disease with death occurring approximately 15-20 years after the first symptoms are detected. There is currently no known treatment. Over the last 15 years there has been enormous progress in understanding the nature of this terrible disease. This seminar will explore the medical, genetic and ethical issues associated with Huntington's Disease.



Eugene Katz, *Undergraduate Biology*

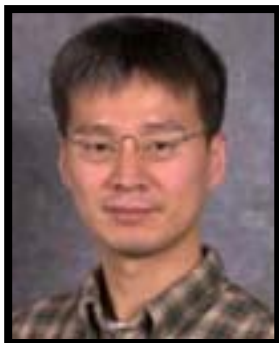
SSO 102 First-Year Seminars

SSO 102.22: Statistics in Real Life

Meeting Pattern: TH 2:20pm-3:15pm

Location: Roth Café 103 (Center for Science and Society)

Statistics has been playing an increasingly important role in virtually all professions. Some degree of familiarity with this subject is essential in college education. In this course, some basic statistical concepts and useful examples in relation to real life will be introduced. Through this course students will obtain idea concerning when and how the statistical methods can be applied in their lives, and a willingness to think statistically in relevant situations. A goal of this course is to provide a positive view of statistics and an appreciation for the potential uses of statistics and its role in each student's college life and future professional work.



Hongshik Ahn, Applied Mathematics and Statistics
Hongshik Ahn, Professor, Department of Applied Mathematics and Statistics. I received my Ph.D. degree in statistics from University of Wisconsin, Madison. My research area is biostatistics.

SSO 102.23: Understanding Family Issues and the Affect on Children

Meeting Pattern: TU 9:00am-11:00am

Location: Roth Café 103 (Center for Science and Society)

Note: This class meets for 2 hours a week for the first 7 weeks of the semester.

What is a family? The debate continues. It is important for the helping professional to understand the debate, to understand the differences in culture and values and the affect these differences have on those working with families and children. It is also important to understand the external influences such as the portrayal of family in film and television.

Anne Raybin, Psychology

Currently a Visiting Scholar. Taught Child and Family Studies at Stony Brook University, developed programs for professionals working with families and children, lectured to parent and professionals who wished to explore the specific concerns.

SSO 102 First-Year Seminars

SSO 102.24: World Without Us

Meeting Pattern: F 9:35am-10:30am

Location: Roth Café 103 (Center for Science and Society)

Participants in this seminar will explore the science and politics behind Global Climate Change by reading Alan Weisman's book and discuss assigned readings in class. Mr. Wiseman uses his great talent in stretching our imagination through a realistic quasi-scifi to show the effect man has on earth's ecosystem. Discussion leaders will use 15-minute powerpoint presentations followed by general discussion.



Kamazima Lwiza, *School of Marine and Atmospheric Sciences*

I am a marine physicist. I study ocean processes that affect transport (e.g., currents and tides) and density distribution (e.g., mixing and heat balance). My research interests are climate change, structure and dynamics of the coastal seas, and remote

sensing. I design field experiments to observe these processes by incorporating modern technology, with a particular emphasis on the acoustic Doppler current profiler (ADCP), GPS-tracked Lagrangian drifters, and ocean gliders, and satellites.

SSO 102.25: The Eye of the Storm: Devastating Weather Events of the Past and Future

Meeting Pattern: TU 3:50pm-4:45pm

Location: Roth Café 103 (Center for Science and Society)

This class will investigate some of the biggest weather storm events (hurricanes, blizzards, tornado outbreaks, nor-easters, etc) during the past century, and how society has been impacted from the local to the global scale. Some of the inner-workings of these storms will be discussed using some of the latest tools and technology available. Finally, how these storms may change in the future will be reviewed in light of global climate change.



Brian Colle, *School of Marine and Atmospheric Sciences*

My group focuses on improving our understanding of the meteorology around the coastal margins of North America and the atmospheric predictability in these regions. Many near-shore phenomena such as coastal fronts, land/sea breeze circulations, marine clouds/fog, and cyclonic storms interacting

with coastal terrain are frequently difficult to forecast. This difficulty arises because of inadequate understanding of the physical mechanisms, deficiencies in model physics, relatively coarse resolution in operational model ensembles, and relatively sparse observations over the oceans. Using conventional data, field observations, and mesoscale models (Penn State-NCAR MM5 and Weather Research and Forecasting model), my research has explored many types of coastal atmospheric circulations and precipitation structures over both the West and East coasts of the U.S.

SSO 102 First-Year Seminars

SSO 102.26: Anesthesiology - My World and Welcome to it!

Meeting Pattern: TU 1:00pm-3:00pm

Location: Health Sciences Center, Level 2, Room 108

Note: This class meets in the Health Sciences Center.

This class meets for 2 hours a week for the first 7 weeks of the semester.

Seminar will discuss the application of physiology and pharmacology principles to clinical practice and more specifically the practice of anesthesiology. Seminar will incorporate an introduction to the use of human patient simulators and their application to pharmacology and physiology



Steve Vitkun,

Anesthesiology

Dr. Vitkun is Professor and Vice Chairman (Special Projects) in the Department of Anesthesiology and Professor of Pharmacological Sciences and Clinical Health Sciences