

EXPLORATIONS



Freshman Seminars Fall 2007

**Office of the Senior Vice President for
Academic Affairs and Provost**

University of Minnesota

**YOUR TELEVISION WILL BE COLORIZED:
BLACK TV COMICS' RIFFS ON RACE**
**Walt Jacobs, African American & African
Studies**

AFRO 1902, Section 001

3 credits

CLE: Cultural Diversity

Tuesday and Thursday, 9:45 – 11:00 a.m.

**225 Blegen Hall, West Bank, Minneapolis
47531**

In this seminar students will learn to identify and decode racial critiques of American society found in TV shows featuring African American comics. From the overt commentary offered in sketch comedy shows such as *Chappelle's Show* and *In Living Color*, to the more subtle discourse of a situation comedy like *The Cosby Show*, African American comics have a long history of using television as a stage to address the continuing significance of race in the United States. We will explore both historical and contemporary uses of humor to explain and reorganize our understandings of American racial dynamics. Using a variety of cultural studies methods and online technologies (including blogs, podcasts, and WebCT), students will develop "critical media literacy" – the ability to be rigorously analytical about the information and understandings we draw from the mass media – without diminishing the pleasure gained. For the seminar's final project, students will create, perform, and analyze comedic skits.

Walt Jacobs is the author of *Speaking the Lower Frequencies: Students and Media Literacy*, which examines how students use popular culture to form critical understandings of their social world.

BLACK RADICAL THOUGHT & POLITICS
**Yuichiro Onishi, African American & African
Studies**

AFRO 1902

3 credits

CLE: Cultural Diversity

What would democracy look like if we put Black oppositional culture and activity front and center in our political analysis? In this seminar we will explore the unfinished struggle for democracy in America and try to render visible the contours of the Black radical imagination. We are concerned with how intellectuals, artists, writers, and ordinary folks have historically articulated both the limits and possibilities of Black radicalism. Our aim is two-fold: to unearth from the past a wide range of political visions and ideologies that informed Black radical politics and to reconstruct democracy for the future.

Specifically, we will analyze various texts including Ida B. Wells-Barnett, W. E. B. Du Bois, C. L. R. James, and Angela Davis, as well as cutting-edge contemporary social science and humanities literature. We will also listen to the blues and jazz, as well as the oration of Martin Luther King, Jr. and Malcolm X; and study the creative works of Black writers.

Yuichiro Onishi teaches courses that foreground the comparative, global, and transnational study of race and ethnicity. He is particularly interested in Black radicalism, the diasporic study of African American history, and Asian/Pacific/American studies. Currently, he is working on a book-length manuscript titled *Transpacific Racial Strivings: How Black Americans, the Japanese, and Okinawans Found Solidarities*.

EARLY FILM: STORY AND SPECTACLE

Jason McGrath, Asian Languages and Literatures

ALL 19xx

3 credits

In the years immediately following the invention of the moving picture in the late nineteenth century, thousands of films were made on a wide range of subjects. With a few notable exceptions however, these films did not tell stories. Instead, they simply showed things to the audience, from the mundane to the strange, and indeed, part of the attraction was the foregrounding of the cinematic apparatus itself, the novelty of a new technology and its uncanny ability to present the illusion of real objects in motion.

This seminar will explore the world of early film from two perspectives: on the one hand, the capacity of cinema to deliver pure visual spectacle to an (in)credulous audience fascinated by the new technology; and on the other hand, the developing ability of cinema to convey complex stories that evolve over time and follow a narrative arc, causing the spectator to suspend disbelief, "forget" film's illusory nature, and become willingly absorbed in the story world.

Jason McGrath's research specialty is modern Chinese film, literature, and culture. His forthcoming book examines the changes in China's cultural scene since market reforms were extended to the cultural sectors in the early 1990s. A newer project concerns styles of cinematic realism in Chinese film from the silent era until the present. He teaches classes in modern and contemporary Chinese literature and culture, Chinese and Hong Kong film, and themes in cinema, including the nation, revolution, and gender and sexuality.

RELIGION AND MODERN SOCIETY

Guriqbal Sahota, Asian Languages and Literatures
ALL 1904, Section 001

3 credits

CLE: International Perspectives

Tuesday and Thursday, 2:30 – 3:45 p.m.

108 Folwell, East Bank, Minneapolis
56202

The rise of science, rationality, and liberal-secularism in Western Europe presented several challenges to existing religious orders over the late 18th and 19th centuries. Yet religious conceptions of transcendence were reinvented and assimilated to the new conditions, whether in traditional or in new and unrecognizable guises. In the colonial world, the subordination of traditional societies to the dictates of imperial capitalism pushed writers and thinkers toward a reformulation of the principles of their religious belief. The revival and reform of Hinduism and Islam, for example, arose in response to Western domination and the transformations underway in modern society, especially those that potentially contradicted matters of faith and community.

This seminar looks at the different ways in which religion became modern in different parts of the imperial world. We will study how Enlightenment thinkers conflicted with the Church, how the status of old models of authority in the colonial world was shaken, and how religious thinking and being were revived and made a feature of modern politics and society. Readings for the seminar will include history, philosophy, theology, and literature from different geographical locations and diverse traditions of the modern world.

Bali Sahota works on the relationship between the world of literature and the arena of politics in twentieth century Indian society. His interests center on the rise of modern forms of conservatism and revolutionary thinking, especially as these marked the end of the imperial period. His education has included training in photography, literary journalism, translation, and has involved much travel around the world.

THE ANIMAL

Christine Marran, Asian Languages and Literatures
ALL 1905, Section 001

3 credits

Monday, 3:35 – 7:00 p.m.

3:35 – 4:25: 16 Folwell, East Bank, Minneapolis

4:40 – 7:00: 350 Folwell, East Bank, Minneapolis

Wednesday, 3:35 - 5:30 p.m.

208 Folwell, East Bank, Minneapolis
37195

Recently the animal has come into focus as a subject of intellectually varied and stimulating scholarly attention in the humanities. It is, in a sense, a time of the animal. But for the animal it is also a time of unprecedented extinctions and abuses. In this seminar, we will follow the turn to the animal, asking along the way some fundamental questions: What is an animal? What makes the difference between the human and the animal? What constitutes human ethical treatment of animals? How have philosophers engaged the animal and to what ends? If this is a time of the animal, how are we to understand the fact that for the animal time is proving forever shorter and even more brutish? And finally, how has the animal been understood differently over time? Pursuing such questions, we will read a variety of material, watch various films (*Grizzly Man*, *Balthazar*, *The Eel*, *The Cow*), and possibly take fieldtrips to sites of human-animal interaction.

Christine Marran's very eclectic interests are in early Meiji writing, especially newspapers and gesaku literature; gender and representation in Japanese fiction, especially by women writers; Japanese and Asian film; Japanese popular culture from the 1870s to the present; ecocriticism; animal rights; and pond building.



ENDTIME CONSPIRACY THEORIES

Hoon Song, Anthropology

ANTH 1907W, Section 001

3 credits

Thursday, 9:05 – 11:30 a.m.

389 Hubert H. Humphrey Center, West Bank,

Minneapolis

55938

This seminar begins with the brief history of how the modern notion of time-space came about. What does our notion of time have to do with how we distinguish ‘occult’ beliefs from those of the ‘mainstream’? As the idea of time and its dominance came to be challenged, alternative regimes began to proliferate around the globe including witchcraft, magic, apocalyptic militia movements, and millennial cults. We will examine an alternative strand of views in the West that reconceptualized the individual-collective relationship in modern societies.

Hoon Song has done fieldwork among people who were believed to hold white-supremacist views and has emerged from it very confused, but passionately so. Confused because people’s lives observed in proximity often defy labeling, let alone moral judgment. Passionate because such a ‘confusion,’ he has belatedly realized, is the very stuff of ethnography’s passion. Professor Song’s explorations have led to an ongoing analysis and critique of the liberal premises that underlie such labeling and that are at the core of our educational system.

HERO, SAVAGE OR EQUAL: NON-WESTERN PEOPLE IN THE MOVIES AND OTHER POPULAR MEDIA

David Lipset, Anthropology

ANTH 1909W, Section 001

3 credits

CLE: International Perspectives & Writing Intensive

Tuesday, 9:45 a.m. – 12:00 p.m.

West Bank, Minneapolis

41489

In this seminar, we will explore images of non-Western peoples and cultures as they have appeared in the movies and other popular media, and examine how these images changed over the course of the 20th century. We will begin by looking at the representation of non-Western peoples in *National Geographic* magazine and discussing how these representations reflect identity. We will view and analyze films such as *Whale Rider*, *Smoke Signals*, and *Rashômon*, and examine the representations of non-Western peoples by Hollywood as well as by indigenous films.

David Lipset is a cultural anthropologist whose fieldwork is based in Papua, New Guinea. One of his central interests is the way in which non-Western peoples are portrayed in the mass media.

THE “ORDINARY BUSINESS OF LIFE”: ISSUES IN BUSINESS, GOVERNMENT, AND MACROECONOMICS

Gary M. Cooper, Applied Economics

APEC 1905, Section 001

2 credits

Thursday, 3:45 – 5:25 p.m.

East Bank, Minneapolis

39961

The world of economics is sometimes referred to as the study of the ordinary business of life. In this course we will discover, reflect on, and teach ourselves about a selected group of topics in the fields of business management and economics. The seminar is comprised of four unique parts. While the first quarter of our meetings will be on business and economic history to provide context (the “Economic Revolution”, the historic thinkers of the discipline, the Federal Reserve System, and the role of government in the economy), the second quarter of class will analyze “macro” issues related to the domestic and world economies (economic growth, the New Economy, and globalization). The third and fourth quarters of our time together will be “micro” related. We will read and solve *The Fatal Equilibrium*, a mystery novel that highlights several basic economic principles. We will also investigate the field of business ethics through a series of readings and films.

Gary M. Cooper is the Undergraduate Program Coordinator and Academic Advisor in the Department of Applied Economics and the College of Food, Agricultural and Natural Resource Sciences.



**THE “ORDINARY BUSINESS OF LIFE”: ISSUES
IN BUSINESS, GOVERNMENT, AND
MACROECONOMICS**

Gary M. Cooper, Applied Economics

APEC 1905H, Section 001

2 credits

Tuesday, 3:30 – 5:30 p.m.

East Bank, Minneapolis

54168

The world of economics is sometimes referred to as the study of the ordinary business of life. In this course we will discover, reflect on, and teach ourselves about a selected group of topics in the fields of business management and economics. The seminar is comprised of four unique parts. While the first quarter of our meetings will be on business and economic history to provide context (the “Economic Revolution”, the historic thinkers of the discipline, the Federal Reserve System, and the role of government in the economy), the second quarter of class will analyze “macro” issues related to the domestic and world economies (economic growth, the New Economy, and globalization). The third and fourth quarters of our time together will be “micro” related. We will read and solve *The Fatal Equilibrium*, a mystery novel that highlights several basic economic principles. We will also investigate the field of business ethics through a series of readings and films.

Gary M. Cooper is the Undergraduate Program Coordinator and Academic Advisor in the Department of Applied Economics and the College of Food, Agricultural and Natural Resource Sciences.

**THE OMNIVORE’S DILEMMA: ALTERNATIVE
PATHS FOR THE U.S. FOOD SYSTEM**

Robert P. King, Applied Economics

Kathryn A. VandenBosch, Plant Biology

APEC 1905H, Section 002

2 credits

Wednesday, 3:00 – 4:40 p.m.

257A BioSci, St. Paul

54991

Our answers to the question, “What should we have for dinner?” can have far-reaching impacts on our health, our environment, and our economy. Michael Pollan explores the consequences of food system choices in his recent book, *The Omnivore’s Dilemma: A Natural History of Four Meals*. This seminar will use that book as the starting point for an exploration of alternative paths for the U.S. food system, including “conventional” agriculture and food distribution systems, organic agriculture, and local foods. Learning activities will

include: interviewing local experts on policy and practice, economics and the environment; a field trip that will introduce students to local alternatives in agriculture and food; and small group projects that will investigate key food policy questions from an interdisciplinary perspective. While there are no prerequisites for the course, concurrent registration in Principles of Microeconomics (APEC 1101 or ECON 1101) and/or Introductory or General Biology (BIOL 1001 or 1009) will be helpful.

Robert P. King’s research focuses on management issues facing food retailers, farmer cooperatives, and farmers and on the impacts new information technologies are having on the food system. He is currently conducting a study on demand for “ecolabeled” food products.

Kathryn A. VandenBosch’s research interests span legume genomics, the interactions of plants with nitrogen-fixing bacteria, and biomass crops for renewable energy sources. She spent part of last year as the interim dean for the new College of Food, Agricultural and Natural Resource Sciences, an experience that fostered her interest in the interfaces between food production, energy use, and the environment.

CONTEMPORARY CINEMA

Robert Silberman, Art History

ARTH 1907W, Section 001

3 credits

CLE: Cultural Diversity & Writing Intensive

Tuesday and Thursday, 12:45 – 2:00 p.m.

East Bank, Minneapolis

56176

In this seminar we will explore the full range of contemporary cinema including large-budget studio films and low-budget indies, fiction films and documentaries, live action and animation, films from the U.S., and films from around the world. We will examine the shifting relationship between the cinema as a theatrical form and other forms of media culture including television and the Internet. We will consider individual films from a variety of perspectives: economic, social, political, aesthetic. The academic study of contemporary cinema – including the readings, classroom discussions and written assignments – should enhance not only our understanding of film but also our enjoyment of the experience of movie watching. To this end, the seminar may well involve considerable consumption of popcorn and movie candy along with the film theory and cultural criticism.

Robert Silberman has taught and written about contemporary cinema for many years. He is especially concerned with the political and social aspects of film, but his interests are eclectic. He has written about contemporary directors from Sweden, the Philippines, and Japan, as well as the United States, and can be as fascinated by the stylistic twists and turns of an avant-garde animated short as by the politics concealed within a major Hollywood blockbuster.

OUR LIVES IN IMAGE AND TEXT

Joyce Lyon, Art
ARTS 1905, Section 001
3 credits

Wednesday, 1:25 – 4:25 p.m.
W240 Regis Center for Art, West Bank, Minneapolis 32711

Making sense of our life's journey is an ongoing challenge that calls upon all our resources. Verbal language draws on certain ways of knowing, and combining these languages enriches the possibilities for exploration and expression. Through study of the work of artists and through reading, writing, art making, and discussion, we will attempt to become more attentive to our own journey and to the ways in which content, language, and form interact.

Initially, our focus will be on generating images (gathering from existing sources, photocopying and scanning, creating by hand, or using other methods), on free-writing exercises, and on the selection and development of chosen material and sources. Group exercises will explore image/text collages and simple artists' books. Field trips to the Minnesota Center for Book Arts and the artists' book collection at the Minneapolis College of Art and Design will set the stage for a larger project of the student's choice. The emphasis throughout will be interdisciplinary. No specific art or writing experience is expected (although curiosity about both is desired); students interested in all disciplines are welcome.

Joyce Lyon is an artist and award-winning teacher who specializes in drawing, painting, image and text. She is especially interested in the significance of place and landscape, art and the Holocaust.

THE ARTS IN THE TWIN CITIES

Thomas Rose, Art
ARTS 1905, Section 002
3 credits

Wednesday, 9:05 a.m. – 12:05 p.m.
W257 Regis Center for Art, West Bank, Minneapolis 42669

In this seminar we will take an excursion into the vibrant and diverse visual art scene in the Twin Cities. We will visit museums, galleries, and non-profit venues and will meet local artists. Through field trips, slides, lectures, and discussions, students will learn about visual language, explore contemporary issues in art, and examine the role of artists in society.

Thomas Rose is a visual and conceptual artist with particular interests in architecture, dance, public art, and sculpture. His book *Where Do We Start?* – part of a larger project called “School Stories” – is an accordion-bound collection of multi-directional and overlapping pages that creates a kinetic interplay of grade school experience. The title of this collaborative work (with Bryant Griffith) refers to how we all enter the system of education, an institution and a process.

ART IN THE MIX AND THE MAKING

Diane Willow, Art
ARTS 1905, Section 003
3 credits

Tuesday, 1:25 – 4:25 p.m.
W123 Regis Center for Art, West Bank, Minneapolis 46609

This seminar explores some of the ideas and processes of contemporary artists whose artwork crosses boundaries into other disciplines. We will focus on artists whose work brings them into dialogue with scientific ideas and ecological processes, new media theories and cultural perspectives, architectural experiments and design innovations. We will directly experience some of the ways that artists mix and make content through innovative use of multimedia and the Web, mapping processes in geography, approaches to healing in medicine, and new materials in architecture and design. Through a series of readings and small group discussions, visits by guest artists, and field trips to local cultural sites, we will expand our conceptions of the ways that artists' engagement in interdisciplinary dialogues becomes both the content and process of contemporary art.

Diane Willow is a multi-modal artist. Her public installations, interactive environments, and evocative objects involve media as eclectic as bioluminescent algae, embedded computers, found sound, and time-lapsed video. Working at the intersection of art, science, and technology, she experiments with hybrid media to explore the dynamics of nature, technology and community. She is currently planning a symposium, *Wonder Woman: Art & Technology 1968–2008*.

OF ROCK, FIRE AND ICE

Charles Woodward, Astronomy

AST 1905, Section 001

2 credits

Tuesday, 10:10 a.m. – 12:05 p.m.

143 Physics, East Bank, Minneapolis

31291

We will explore which regions in the solar system may harbor life at present or may have supported life in the past. The focus will be on Mars (including the Spirit and Opportunity missions), Earth, comets and the satellite worlds of the Jovian planets. The necessary conditions for supporting life will be discussed as well as efforts to detect extra-solar planetary systems. Texts will be *Red Mars/Green Mars*, *Antarctica* and other directed readings.

Charles “Chick” Woodward is an infrared astronomer whose research interests focus on the study of astronomical dust particles produced in the atmospheres of evolved stars, incorporated into proto-planetary disks around young stars, and released from comets in our own Solar System. He is a U.S. Board Member and science advisor to the International Gemini Telescope Project (twin 8-m telescopes), as well as being a past member of the National Academy of Science, Committee on Astronomy and Astrophysics and a member of the international ground-based team participating in supporting the recent NASA Deep Impact mission to comet 9P/Tempel 1.

COSMIC IMPACTS: SCARS ON THE EARTH

Charles Woodward, Astronomy

AST 1905, Section 002

2 credits

Tuesday, 1:25 – 3:20 p.m.

157 Physics, East Bank, Minneapolis

31293

What happens when a large object smashes into the Earth? Did a comet or asteroid kill off the dinosaurs? What would happen to humanity in such a calamity? The answers rely on investigations ranging from geology to biology to astronomy. Explore the very dangerous

world of our solar system and find out, with readings including *T. Rex and the Crater of Doom*, *The Life and Death of Planet Earth*, and other directed readings.

Charles “Chick” Woodward is an infrared astronomer whose research interests focus on the study of astronomical dust particles produced in the atmospheres of evolved stars, incorporated into proto-planetary disks around young stars, and released from comets in our own Solar System. He is a U.S. Board Member and science advisor to the International Gemini Telescope Project (twin 8-m telescopes), as well as being a past member of the National Academy of Science, Committee on Astronomy and Astrophysics and a member of the international ground-based team participating in supporting the recent NASA Deep Impact mission to comet 9P/Tempel 1.

RISKY BUSINESS

Andrew Whitman, Finance

BA 1905, Section 001

3 credits

Wednesday, 1:30 – 3:10 p.m.

1-136 CarlSMgmt, West Bank, Minneapolis

35485

The goal of this course is to comprehend the significance of risk in decision-making and to apply risk management principles to personal life experiences. In addition, students will learn about risk from a historical and evolutionary perspective and master the application of the risk management process to contemporary issues (from health sciences to bio-ethics and from basic product research to successful marketing, through presentations by distinguished University of Minnesota faculty). Students will develop and enhance writing, verbal response, and collaborative skills while investigating applications of risk analysis and decision-making.

Andrew Whitman is an attorney who teaches, researches, and consults in areas of corporate risk management, insurance, and personal finance. He has served as Deputy Commissioner and Acting Chief Counsel, PA Ins. Department, and as Chair of Finance Insurance Real Estate, Cal Poly University.

This is a great class to feel part of the U from a different standpoint. The seminar class gives you a sense of belonging.

Freshman Seminar Student

DECISION MANAGEMENT

**Shawn Curley, Information & Decision Sciences
BA 1910W, Section 002**

3 credits

CLE: Writing Intensive

Monday and Wednesday, 9:45 – 11:00 a.m.

47217

In our home life and in our work places, decisions are frequent – both large and small. Yet surprisingly, we usually devote little or no attention to investigating and improving our decision making. Decision management is the process by which we take a more active role in understanding and improving our decision making. The seminar will focus on some of the common ways that our judgment can be led astray due to the ways we think and process information. Specific practical tools for alleviating these difficulties are examined where applicable. Practical applications of the ideas and tools to personal decisions will be explored, including the use of information, understanding and deciding under uncertainty, ethical decision making, and decisions in a business setting.

Shawn Curley's general area of research is in the psychology of judgment and decision making by individuals. His specific interests include decisions under uncertainty, ethical decisions, and medical decisions. His teaching interests relate to how decisions are made and to techniques for improving our decisions.

RECONCILING SCIENCE, POLITICS AND RELIGION IN CONTEMPORARY AMERICA: DEVELOPING A WORLD AND LIFE VIEW IN THE 21ST CENTURY

**John S. Anderson, Biochemistry, Molecular Biology,
and Biophysics**

**Robert J. Roon, Biochemistry, Molecular Biology,
and Biophysics**

BIOL 1905, Section 001

1 credit

Tuesday, 2:30 – 3:45 p.m.

Minneapolis

29831

The 2004 elections highlighted the sometimes uneasy relationship between science, politics and religion. Topics such as faith-based initiatives, abortion rights, stem cell research, family values, and gay marriage were debated heatedly and with great frequency. In their campaigns both presidential candidates claimed that Christian religious values informed their political consciousness, yet they had strikingly different ways of expressing their faith, and came to radically different conclusions on a host of issues.

In this seminar we will consider interfaces between science, politics and religion. The seminar will begin with some of the fundamental tenants of science and medicine and then consider some scientific theories and practices that have been challenged by religious and political spokespersons. We will examine the basis of our own ethical and moral values and will explore various ways in which we access these values to inform our opinions about political issues which have a scientific component. We will try to develop personal strategies that will allow us to evaluate current and future controversies on similar topics.

Robert J. Roon is a veteran of more than 30 years of university teaching. His eclectic interests range from neuroscience and nutrition to the origins of human life and Northwest Coast Native American art. He also sings in a men's choral group and co-parents his eight-year-old grandson.

John S. Anderson, Morse Alumni Distinguished Teaching Professor, has taught biochemistry courses at all levels. Recently he has focused his attention on large enrollment undergraduate courses in biochemistry and biology in which computer technology is used to facilitate delivery of course content.

GENETICS IN THE NEWS CIRCA 2007

D. Peter Snustad, Plant Biology

BIOL 1905, Section 003

1 credit

Wednesday, 4:05 – 4:55 p.m.

St. Paul

47721

In this course, any topic with a significant genetic component that the students choose to discuss will be explored. Both students and the professor will suggest possible topics and students will select a subset of these topics for oral class presentations by small groups of students. Each student will also examine genetic topics in the popular press (newspapers, *Time* magazine, *The Scientist*, etc.).

Pete Snustad has co-authored the textbook "Principles of Genetics" for the past 30 years.

I like having a voice in this class. It is small and all of us students are asked about our opinion a lot. We get a chance to talk and be heard.

Freshman Seminar Student

WHAT SEX SHOULD I BE?

Jane Phillips, Biology
BIOL 1905, Section 004
1 credit
Tuesday, 9:45 – 11:00 a.m.
East Bank, Minneapolis
35007

Are you XX or XY? You probably know that I am asking if you are female or male, but the XY genetic system found in humans and most other mammals is not the only way that sex is determined in animals. Some animals develop into females if the temperature is high and others when the temperature is low. Other animals change their sex based on the sex of a nearby potential mate. In fact, some animals change their sex more than once in their lifetimes – a pretty nifty trick! This seminar will explore different sex determination systems, how they work, and how external forces, including estrogen-mimics in our environment, can disrupt these systems. While learning about sex determination, you will also explore many of the resources at the University and elsewhere that will help you become a successful student and a proud graduate of the University of Minnesota.

Jane Phillips is the Coordinator of the Instructional Laboratories and Associate Director of the Biology Program. Jane has taught courses ranging from molecular, cellular, and developmental biology, microbiology, mycology, organismal adaptation and diversity, computing in biology, plant pathology, microbial physiology, and teaching and learning.

THE NATURE OF RESEARCH LIFE: IS IT FOR YOU?

David Marks, Plant Biology
BIOL 1905, Section 005
3 credits
Monday, 3:00 – 5:30 p.m.
St. Paul
35009

The first part of this course will include formal classroom meetings where you will meet with researchers from all levels and we will discuss how and why they ended up in research. In the second part of class you will participate in a National Science Foundation-funded research project. You will receive hands on experience in using state of the art techniques to address basic scientific questions concerning Cell Biology.

M. David Marks is an active researcher in the field of Plant Developmental Biology. He uses the development of plant hairs, called trichomes, as a model system to study how cells in a multi-cellular organism become different from one another.

HAPPY IN HELL: MICROBES THRIVING AT EXTREMES

Jeffrey Gralnick, Microbiology
Daniel Bond, BioTechnology Institute
BIOL 1905, Section 006
1 credit
Tuesday, 2:30 – 3:45 p.m.
239 Gortner, St. Paul
35165

It is a microbial world. Bacteria have adapted to life virtually everywhere on our planet. Bacteria and other microbes living in the wildest environments are commonly known as ‘extremophiles.’ Research in this area has led to several groundbreaking discoveries that have impacted biology in profound ways. This research is also driven by our fascination with life on other planets, and has rekindled the possibility that life may exist on nearby planets or moons (e.g. Mars or Europa). We will cover a variety of extreme environments including: high and low temperature, high and low pH, dry, deep and other strange ecosystems, discuss how bacteria are able to thrive in such environments, and explore the feasibility of detecting life beyond Earth.

Jeffrey Gralnick’s favorite bacterium finds itself in many interesting places, including McMurdo Sound, Antarctica. Years of reading science fiction and playing video games has convinced him that life does indeed exist on other planets.

Daniel Bond uses his favorite bacterium to make electricity from wastewater. No, really, he does.



**EVO DEVO: EXPLORING MODERN
EVOLUTIONARY DEVELOPMENTAL BIOLOGY**

**Catherine Kirkpatrick, Genetics, Cell Biology and
Development**

BIOL 1905, Section 007

1 credit

Tuesday, 2:30 – 3:45 p.m.

East Bank, Minneapolis

35157

How does an egg develop into an entire animal? How does this process change over evolutionary time to create a huge variety of animal forms? How different are humans from other primates? We will explore these questions, and examine how molecular biology and the flood of genomic DNA sequencing data have helped to reunite the fields of evolutionary and developmental biology.

Catherine Kirkpatrick's research concerns the cell-signaling pathways that control patterning during development, and the role of cell surface proteoglycans in regulating signaling.

BIOTECH FOR FUN AND PROFIT

**Marty Blumenfeld, Genetics, Cell Biology and
Development**

BIOL 1905, Section 008

1 credit

Monday, 11:15 a.m. – 12:05 p.m.

East Bank, Minneapolis

35159

Biotech is the use of technology to manipulate living systems for human benefit. It's a complex and fascinating subject that blends science and technology with a broad range of non-scientific, non-technical human activities. The major focus of biotech is making money. In this seminar, we'll discuss biotech, its profit motives, and its relationships to politics.

Marty Blumenfeld is Founder and Chief Scientific Officer of Blizzard Genomics, Inc.

*I was in close contact with a college professor –
a priceless experience.*
Freshman Seminar Student

**FROM EBOLA TO SARS: HUMAN BEHAVIOR
AND THE EMERGENCE OF NEW AND DEADLY
HUMAN VIRUSES**

Sue Wick, Plant Biology

BIOL 1905, Section 009

1 credit

Thursday, 2:30 – 3:45 p.m.

East Bank, Minneapolis

35161

Within the past few decades, some particularly nasty human viruses have appeared including Ebola, West Nile, HIV, SARS and bird flu viruses. In this course we will examine aspects of human behavior, world population, and the environment that relate to the emergence of these infectious and sometimes deadly diseases. The goals of this class are to help provide continuing orientation to college life, particularly as it is lived out here at the University of Minnesota, to provide an opportunity for us to get to know each other in a class that is smaller and probably more informal than others you will be taking this semester, and to explore ecological and social aspects of some very dangerous human viruses that have evolved recently around the globe.

Sue Wick enjoys interacting with freshmen; she also teaches BIOL 1001, Introductory Biology: Evolutionary and Ecological Perspectives. Her primary research interests are in active learning strategies in undergraduate biology classes. She is both fascinated with and terrified by emergent human viruses.

CLONING, POLITICS, AND RELIGION

**Marty Blumenfeld, Genetics, Cell Biology and
Development**

BIOL 1905, Section 010

1 credit

Monday, 2:30 – 3:20 p.m.

East Bank, Minneapolis

35163

Scientists can clone animals, plants, cells, and DNA. Is this a good thing? In this seminar, you'll discuss cloning, its benefits, its limitations, and the ethical problems posed by its application to animals and plants in the twenty first century.

Marty Blumenfeld is Founder and Chief Scientific Officer of Blizzard Genomics, Inc.

SUCCESS ON THE ROAD TO GRADUATE PROGRAMS IN SCIENCE

Colin Campbell, Pharmacology

Peter Magee, Genetics, Cell Biology and Development

Paul Siliciano, Biochemistry, Molecular Biology and Biophysics

BIOL 1905, Section 011

1 credit (offered in conjunction with SEAM)

Wednesday, 2:30 – 4:00 p.m.

East Bank, Minneapolis

35201

This course is for students who have the academic potential and stated goal to enter graduate or professional programs in science and engineering disciplines. It is required for new freshman participants in the College of Biological Sciences Mathematics and Science ACE (Achieving College Excellence). The objectives of this course are: to introduce science as a way of knowing; to provide essential information about how to excel in mathematics and science courses, increase self-confidence, and strengthen motivation to excel; and to introduce minority role models.

Colin Campbell studies the molecular genetics of DNA repair and its relationship to cancer and aging. He teaches courses in Pharmacology and Pharmacogenomics and still finds time for cycling and coaching girls' soccer.

P.T. (Pete) Magee, a Morse Alumni Distinguished Teaching Professor, carries out research on the genomics of *Candida albicans*, the most common human fungal pathogen. He teaches one section of the Introductory Biology Course, Molecular and Cellular Perspectives. He has long worked to support diversity in the ethnic groups represented in science; outside work he is a competitive swimmer and avid fan of theater and classical music.

Paul Siliciano studies how RNA interacts with proteins and how RNA molecules are transported to their proper locations within the cell. He teaches Biology 1002 and Biochemistry 3021, and in his spare time enjoys traveling with his family and fixing up old cars.

CSI MINNESOTA: BIOLOGISTS LOOK AT FORENSIC SCIENCE

Kathryn Hanna, Biology

BIOL 1905, Section 012

2 credits (offered in conjunction with SEAM)

Wednesday, 2:30 – 4:25 p.m.

East Bank, Minneapolis

35697

What is forensic science? How is science used to help solve crimes? What are the truths and myths behind forensic science analysis? What are its limits? Does crime scene investigation resemble what one sees on television? The class will look at DNA fingerprinting, fiber analysis, forensic pathology, anthropology, and document analysis, while separating fact from fiction. Case studies will be examined where scientific evidence was a deciding factor. Guest speakers will include practicing forensic scientists. The class will also serve as an orientation to the University environment and discuss topics such as academic survival skills.

Kathryn Hanna has worked with many biology undergraduates through the Biology Colloquium Program. She is the faculty advisor for the University's Forensic Science Club and her interests include everything from microorganisms to art to how universities work.

DARWIN IS EVERYWHERE: APPLICATIONS & IMPLICATIONS OF EVOLUTION

Mark Decker, Biology

BIOL 1905, Section 013

1 credit

Tuesday, 3:30 – 5:00 p.m.

Minneapolis

47773

“Nothing in biology makes sense except in the light of evolution.” Theodosius Dobzhansky

Charles Darwin has been dead for well over a hundred years and his most influential book, *On the Origin of Species*, was first published 146 years ago. Wow, evolutionary biology is really old! Surely it's no longer important, right? Au contraire! As the Dobzhansky quote above indicates, evolution is the central unifying principle in biology and is influential not only throughout biology but also in disciplines that overlap or border on biology. In this seminar we will explore how an evolution-centered perspective is beneficial (required!?!?) for an adequate understanding of a variety

of topics (e.g., infectious diseases, human behavior, medicine, science education and scientific literacy, conservation, philosophy) and how principles in evolutionary biology are being applied in these disparate areas.

Mark Decker is an evolutionary biologist by training, and is fortunate to be able to spend most of his professional time on his true passion, teaching. He is a strong advocate for increasing science literacy in general and understanding of evolution in particular.

THE OMNIVORE'S DILEMMA: ALTERNATIVE PATHS FOR THE U.S. FOOD SYSTEM

Robert P. King, Applied Economics

Kathryn A. VandenBosch, Plant Biology

BIOL 1905H, Section 001

2 credits

Wednesday, 3:00 – 4:40 p.m.

257A BioSci, St. Paul

55675

Our answers to the question, “What should we have for dinner?” can have far-reaching impacts on our health, our environment, and our economy. Michael Pollan explores the consequences of food system choices in his recent book, *The Omnivore's Dilemma: A Natural History of Four Meals*. This seminar will use that book as the starting point for an exploration of alternative paths for the U.S. food system, including “conventional” agriculture and food distribution systems, organic agriculture, and local foods. Learning activities will include: interviewing local experts on policy and practice, economics and the environment; a field trip that will introduce students to local alternatives in agriculture and food; and small group projects that will investigate key food policy questions from an interdisciplinary perspective. While there are no prerequisites for the course, concurrent registration in Principles of Microeconomics (APEC 1101 or ECON 1101) and/or Introductory or General Biology (BIOL 1001 or 1009) will be helpful.

Robert P. King's research focuses on management issues facing food retailers, farmer cooperatives, and farmers and on the impacts new information technologies are having on the food system. He is currently conducting a study on demand for “ecolabeled” food products.

Kathryn A. VandenBosch's research interests span legume genomics, the interactions of plants with nitrogen-fixing bacteria, and biomass crops for renewable energy sources. She spent part of last year as the interim dean for the new College of Food,

Agricultural and Natural Resource Sciences, an experience that fostered her interest in the interfaces between food production, energy use, and the environment.

GENOMICS: APPLICATIONS IN BIOMEDICAL SCIENCE AND BIOTECHNOLOGY

Perry Hackett, Genetics, Cell Biology and

Development

BIOL 1905H, Section 002

1 credit

Tuesday, 2:30 – 3:45 p.m.

East Bank, Minneapolis

55677

DNA and Genomes – they are discussed in just about every modern context, from modern medical science and biotechnology to crime scene investigations, law, medical insurance policies, and ethics of retooling animal and plant genomes. In this seminar we will consider interfaces between science, politics, religion and the press. The seminar will begin with some of the recent findings of science and medicine and then consider some ramifications that you will encounter in your daily lives as genomics plays a larger role. Students and visitors will discuss a variety of topics including ethics of selection of humans by their genomes, genetic counseling, CSI in Minnesota, the use of DNA profiling in medicine and insurance, and the future of retooling plant and animal genomes to guide future evolution. We will try to develop personal strategies that will allow us to evaluate current and future controversies on similar topics.

Perry Hackett is a co-founder of a biotech startup company, Discovery Genomics, Inc., which was formed to identify genes that might be of use in medicine and to develop new technologies for human gene therapy and animal biotechnology. He is especially interested in conveying to students the awesome possibilities of modern genetics and the importance of seeking data-based answers to the important questions that science is raising.

I like having a voice in this class. It is small, and all of us students are asked about our opinion a lot. We get a chance to talk and be heard.

Freshman Seminar Student

WAYS OF KNOWING AND SCIENCE
Craig Hassel, Food Science & Nutrition
Karl Lorenz, College of Food and Natural Resource
Sciences Student Services Office
CFAN 1902H, Section 001
3 credits
Thursday, 3:00 – 4:45 p.m.
120 Coffey Hall, St. Paul
47619

Every human society has developed its own knowledge of food and health relationships. But until very recently, scientific researchers at large universities have paid little attention to this knowledge, in part because it has been dismissed as “unscientific”. Most professional scientists do not accept indigenous, ancestral or ancient knowledge systems as valid. When such knowledge is considered, it is studied through the lens of “science” to determine its legitimacy. Diverse food practices and understandings may be acknowledged as cultural artifacts, but are seldom seen by scientists as legitimate on their own merit.

In this seminar, we will attempt to take a more culturally competent “inside look” at diverse ways of knowing. Experience is often the best teacher. By direct experience and involvement with another culture, we come to recognize their cultural worldview and its way of seeing and making sense of the world. In this way, you will encounter different ways of knowing. We will focus specifically on different cultural orientations to understanding food and health relationships. We will explore Indigenous knowledges, Ayurveda, Chinese Medicine, western/biomedical and African American perspectives. Each of these “ways of knowing” is grounded in distinct and divergent ancestral and cultural orientations.

Craig A. Hassel works on food and health issues in partnership with communities who bring knowledge that is incongruent with western/scientific perspectives.

Karl Lorenz leads the work of the Diversity Catalyst Team and is responsible for implementing College-wide diversity initiatives. He also chairs the Honors Program Committee.

ANTIOXIDANTS: HOW DO THEY PROTECT YOUR FOOD AND YOUR BODY?
A. Saari Csallany, Food Science & Nutrition
CFAN 1905, Section 001
2 credits
Wednesday, 1:00 – 2:45 p.m.
153 Food Science and Nutrition, St. Paul
35101

This seminar will review how changes take place in food and biological systems in the absence and presence of antioxidants. We will concentrate on what antioxidants are, how they act, and how they protect food from deterioration and the body from deteriorative changes.

A. Saari Csallany has a long history in the research related to the function of antioxidants, both in food and in biological systems.

WHAT A DIFFERENCE A DAY MAKES
Beth Waterhouse, Fisheries and Wildlife
CFAN 1910W, Section 001
3 credits
CLE: Writing Intensive
Tuesday and Thursday, 1:15 – 2:30 p.m.
70 BioSci, St. Paul
27263

Can you recall a day in your life that has made a dramatic shift in the way that life is lived out? This course practices personal communications through the writing of a "memoir of a day." Students will think about and talk about their place in time, in the world, and on campus. A few direct experiences will be combined with time in class to read and write. Then the memoir of a day will become a focus and final project. As a writing intensive course, two other writing assignments will be expected, but never fear – the instructor is good at getting to the basic elements of good writing. This may serve as one of the better review writing courses you need as you enter your college education.

Beth Waterhouse is a community-based instructor with a dozen years' experience in the Minnesota environmental community and as many years as a writer and editor on environmental themes.

HOW DO CHEMISTS STUDY BIOLOGY?

Mark Distefano, Chemistry
CHEM 1905, Section 001
2 credits
Tuesday, 3:30 – 5:10 p.m.
East Bank, Minneapolis
40351

It can be argued that advances in chemistry in the last 20 years are largely responsible for the explosive developments in biology in that same time frame. In this course we will explore what chemists do and how those activities contribute towards the understanding of biological problems. These include a diverse array of topics ranging from drug design to vaccine preparation and new environmentally friendly chemical processes. A detailed knowledge about chemistry and/or biology is not required for this course since a brief overview of what you need to know will be covered first.

Mark Distefano's research interests are in the fields of anticancer compounds and biocatalyst design.

RECYCLE YOUR WAY TO FORTUNE AND FAME WITH PROF. WAYLAND E. NOLAND

Wayland E. Noland, Chemistry
CHEM 1905, Section 002
2 credits
Monday, 3:30 – 5:10 p.m.
111 Smith, East Bank, Minneapolis
43085

This course will deal with recycling of metals, plastic, paper, cardboard, and clothing. Aspects covered will be the ecology, environmental effects, and economics of recycling. We will also examine the chemical structures of recyclable material and how we, as consumers, can contribute to the overall process of recycling.

Wayland E. Noland has witnessed the development of recycling throughout his career, including extensive personal experience in recycling. In 2006 he received the Charles E. Bowers Faculty Teaching Award.

ALCHEMY, MAGIC AND CHEMISTRY

Lou Pignolet, Chemistry
CHEM 1905, Section 003
2 credits
Wednesday, 7:00 – 9:00 p.m.
Smith Hall, East Bank, Minneapolis
43123

In this seminar we will explore the physical and philosophical aspects of alchemy. We will do many seemingly magical experiments, including some done by the alchemists. For example, we will attempt to transmute base metals into gold! You will get a chance to do some really neat and exciting alchemical and chemical experiments in the lab, and see how alchemy gave way to modern chemistry.

Lou Pignolet teaches introductory and inorganic chemistry.

QUANTUM MECHANICS AND POPULAR PHILOSOPHY

Doreen Leopold, Chemistry
CHEM 1910W, Section 001
2 credits
CLE: Writing Intensive
Wednesday, 3:30 – 5:10 p.m.
111 Smith Hall, East Bank, Minneapolis
31039

One may argue about its causal role in such matters, but there is no doubt that the language of quantum mechanics provides a powerful new set of metaphors with which to express our understanding of ourselves and our place in the overall scheme of things. We will begin with an introduction to some of the basic ideas of quantum mechanics, including the uncertainty principle and wave/particle duality, and discuss some of the quantum paradoxes that highlight the counter-intuitive nature of these concepts. We will then go on to discuss the reflections of these ideas in popular books on philosophy and religion.

Doreen Leopold has taught quantum mechanics, physical and introductory chemistry, and does research in spectroscopy.

**SOCIAL POWER AND SOCIAL MOVEMENTS:
LATINOS IN THE CONTEMPORARY U.S.**

Richard E. Martinez, Chicano Studies

CHIC 1902, Section 001

3 credits

Tuesday and Thursday, 9:45 – 11:00 a.m.

**335 Nicholson Hall, East Bank, Minneapolis
48743**

Latinos have long been part of U.S. society, but over the past 15 years we've seen this group grow exponentially, causing an unprecedented demographic shift. Due in large part to immigration and birthrate, the Latino population has grown 86%. In 2000, Latinos officially became the nation's largest ethnic group, and numbers continue to climb. No longer concentrated in the Southwest, Latinos are literally and figuratively a national minority.

If you investigate U.S. Latino history, one persistent theme emerges: Latinos have been kicked around pretty hard. But they haven't taken it sitting down. In fact, fighting back is also a historical theme of the Latino experience. In this seminar, we will bring theories of social power and social movements to our investigation of how Latinos have fought back.

Richard Martinez's research and teaching in Chicano Studies focuses on immigration and the sociological causes of group hostility. He is known for challenging students to think for themselves and to never accept uncritically what they are told to think, especially by authority. Foreign policy is his hobby; and he enjoys reading a dozen foreign newspapers each day.

**CRITICAL ISSUES AND CONTROVERSIES IN
ELEMENTARY EDUCATION**

Peggy DeLapp, Curriculum and Instruction

CI 1908W, Section 001

3 credits

**CLE: Citizenship & Public Ethics Theme and
Writing Intensive**

Thursday, 9:05 – 11:45 a.m.

East Bank, Minneapolis

55750

This course will engage students in examining multiple viewpoints on issues related to elementary education. We will examine the role of the elementary school in a democracy, the challenges of defining equality, and issues related to curriculum, instruction, and testing. The course includes visits to elementary schools.

Peggy DeLapp had 27 years of experience working in elementary schools before coming to the University of Minnesota. She enjoys working with University students who are interested in elementary teaching. Her research interests include literacy education, educational policy and politics of education.

**AHEAD OF THE CLASS: SEVEN SECRETS FOR
BECOMING YOUR OWN TEACHER**

Chris Kearns, College of Liberal Arts

**Carl Brandt, Career and Community Learning
Center**

CLA 1905, Section 001

3 credits

Tuesday and Thursday, 2:30 – 3:45 p.m.

East Bank, Minneapolis

56193

Everyone knows a good education provides a key to a successful life. But outstanding students are not usually born that way; they learn how to develop their skills. Everyone begins this process with teachers, mentors, or role models, and for some this is as far as they get in the process of becoming excellent students. But the most successful people go beyond that; they don't just learn from others, they learn how to learn and how to guide their own development. This is where excellence begins.

The most powerful learning experiences involve teaching. In other words, students will learn to help themselves by helping others. Through guided reflection on the experience of tutoring or mentoring a middle- or high-school student, students will begin to improve existing strategies and develop new ones to enhance their approach to their own education. Students will spend at least two hours per week in a structured program working with a young person who needs additional academic assistance. Out of this work students will develop a personalized learning success plan that they can use throughout their college experience and their lives.

Chris Kearns is the assistant dean of student services in the College of Liberal Arts. His background is in film and comparative literature, but he finds time for kayaking, teaching, and competing in karate.

Carl Brandt is the director of the Career and Community Learning Center in the College of Liberal Arts and is an adjunct faculty member in the Department of Philosophy. He teaches in the leadership minor, leads a short-term study abroad program called "Ethical Tolerance in Amsterdam," and is still teaching himself classical piano.

THURSDAYS AT FOUR

Susannah Smith, Institute for Advanced Study

CLA 1905, Section 002

3 credits

Tuesday, 4:00 – 4:50 p.m.

229 Nolte Center, East Bank, Minneapolis

Thursday, 4:00 – 5:40 p.m.

East Bank, Minneapolis

56194

If your curiosity is boundless, this seminar is for you. Students in this seminar will survey the best of the University's research and creative work. Every Thursday afternoon, the Institute for Advanced Study offers a presentation – a lecture, film, performance – by leading scholars and artists from around the world and within the University. Seminar participants will attend the Thursdays at Four series and will meet on Tuesdays to discuss the presentations, which draw upon disciplines across the University. We will do supplemental readings related to the presentations and talk with presenters as their schedules allow.

The fall 2007 Thursdays at Four series will include a discussion between a physicist and a philosopher of science about Einstein and relativity, a solo performance by a member of the Minnesota Orchestra, a presentation of path-breaking research on the role of DNA damage in cancer and aging, a poetry performance, and more. Check www.ias.umn.edu/thursdays.php for the up-to-date calendar. This is the perfect seminar to introduce you to the rich variety of work done at the University.

Susannah Smith is a historian, and what she likes best about history is that it can encompass everything and anything. As managing director of the Institute for Advanced Study, she can exercise her curiosity about a wide set of subjects beyond her own studies in Russian history and music, from physics to art, animal behavior to human psychology, archeology to foreign policy.

COMMUNICATION ACROSS CULTURES

Rosita Albert, Communication Studies

COMM 1904, Section 001

3 credits

CLE: International Perspectives

Tuesday and Thursday, 12:45 – 2:00 p.m.

East Bank, Minneapolis

55863

Are you curious about people from other cultures, how they see the world, and how they act? In this seminar students will become familiar with basic intercultural concepts and begin to develop the skills that can facilitate effective intercultural communication. We will address similarities and differences among people from

specific countries and cultures from around the world. This seminar will challenge you to think in new ways!

Rosita Albert conducts research on intercultural interactions in diverse organizational settings both within the U.S. and internationally. She also investigates the development and evaluation of effective intercultural and diversity programs. Her teaching focuses on the theory and practice of intercultural communication, cross-cultural research methods, and intercultural sensitization and training.

BOOKS, TOGA PARTIES, MONEY, AND SEX: THE MEANING OF COLLEGE IN THE USA

Ronald Greene, Communication Studies

COMM 1905, Section 001

3 credits

Monday, Wednesday and Friday, 9:05 – 9:55 a.m.

East Bank, Minneapolis

56181

This course explores the current assumptions, expectations, rewards, and criticisms of college life that permeate U.S. popular culture and political debate. Students will be introduced to research methods suitable for the examination of college life and will work individually and in teams to produce research projects assessing the meaning of college life today. Readings and source texts will include newspapers and magazine articles, speeches, movies, and television shows.

Ronald Greene's research focuses on public debates and policies related to the role and use of communication to promote the meaning of citizenship. His current research includes projects on the use of film appreciation courses to teach people how to watch movies in a way to avoid "negative influences," how to debate ethically and the use of soap operas to teach audiences how to be healthy.

DIGITAL MEDIA, VIRTUAL CULTURE

Gil Rodman, Communication Studies

COMM 1905, Section 002

3 credits

**Monday, Wednesday and Friday, 11:15 a.m. –
12:05 p.m.**

East Bank, Minneapolis

56182

It's become something of a cliché to recognize that the broad spectrum of digital media – from laptops to cell phones, iPods to the Internet – has dramatically changed our culture. This seminar will wrestle with the often messy questions of just what those changes are, whether we should welcome or fear them, and where new

developments in digital communication technologies may take us in the future. In particular, we'll explore the cultural politics of personal computers, portable media, "Web 2.0" services, and digital filesharing.

Gil Rodman's scholarly work encompasses popular culture, race and ethnicity, communication technologies, and intellectual property. He enjoys the fact that he gets to spend his days reading, writing, thinking, and talking about subjects that are both fun and important. He also spends more time online every day than he spends sleeping.

WHAT IS A POEM?

Cesare Casarino, Cultural Studies and Comparative Literature

CSCL 1905, Section 001

3 credits

Tuesday and Thursday, 11:15 a.m. – 12:30 p.m.

201 Nicholson, East Bank, Minneapolis

48273

This is a seminar for people who love reading poetry as well as for people who would love to learn how to love reading poetry – and it should be much fun for both! We will examine some of the basic issues in the study of poetry, such as the changing meanings of the term "poetry," the distinction between epic poetry and lyric poetry, the importance of the question of love for poetry, and so on. Above all, this is a seminar in close reading: we will study in detail how poems work, what it is that they do, and why.

Cesare Casarino was born and grew up in Italy. He was educated in Italy, Singapore, and the United States. He teaches and writes about modern and contemporary literature, and film, as well as philosophy.



IS THERE A COLONY IN THIS CLASS? EDUCATION AND EMPIRE IN LITERATURE, HISTORY, AND CULTURE

Shaden Tageldin, Cultural Studies and Comparative Literature

CSCL 1909W, Section 002

3 credits

**CLE: International Perspectives & Writing Intensive
Tuesday and Thursday, 11:15 a.m. – 12:30 p.m.**

315 Nicholson Hall, East Bank, Minneapolis

41381

Empire may seem a world away – removed in time, a relic of pre-1960s history, or removed in space. But empire is, in fact, at least as close as our TV sets, and sometimes it speaks a language very familiar to us as students: coverage of the U.S. occupation of Iraq, for example, has brought us images of U.S. army officers not just shooting on the ground but also pointing at the blackboard, "teaching" Iraqi police how to reinvent their country as an American-style democracy with freedoms of religion, conscience, and speech. In this seminar, we will try to better understand why education and empire remain so closely linked today by studying cultures that have experienced foreign domination as a two-faced process. We will read novels, essays, poems, and films by African, Arab, Asian, immigrant, and minority writers who use classroom scenes to represent empire and a range of responses to its power – ambivalence, assimilation, resistance, revolt. Along the way, we also will think about what we can take from our own educations as they take control of us.

Shaden Tageldin is forever interested in words and their power to captivate, subjugate, and liberate us. She specializes in nineteenth- and twentieth-century literatures in English, Arabic, and French; her interests include empire studies, postcolonial theory, and the politics of language, translation, and literary and cultural transformation. She is completing a book on the impact of French and British imperialisms on post-1800 Egyptian literature and culture.

CREATIVE PROBLEM SOLVING

Brad Hokanson, Graphic Design

DES 1910W, Section 001

2 credits

CLE: Writing Intensive

Tuesday, 3:00 – 6:00 p.m.

**43 Rapson Hall, East Bank, Minneapolis
54749**

This class is about training oneself to be more creative; it is about taking the creative talents we already have and developing them for use in the rest of our lives. Every field of study requires creativity, the ability to develop new and useful ideas. This course teaches you methods and techniques of creativity through exercises, projects, discussions, and more.

Brad Hokanson has a special interest in eScholarship and the use of technology in instruction.

CREATIVE PROBLEM SOLVING

Brad Hokanson, Graphic Design

DES 1910W, Section 002

2 credits

CLE: Writing Intensive

Wednesday, 3:00 – 6:00 p.m.

**B3 McNeal Hall, St. Paul
54693**

This class is about training oneself to be more creative; it is about taking the creative talents we already have and developing them for use in the rest of our lives. Every field of study requires creativity, the ability to develop new and useful ideas. This course teaches you methods and techniques of creativity through exercises, projects, discussions, and more.

Brad Hokanson has a special interest in eScholarship and the use of technology in instruction.

PRINTING FOR DESIGNERS

James Boyd-Brent, Graphic Design

DES 1910W, Section 003

3 credits

CLE: Writing Intensive

Tuesday, 11:45 a.m. – 2:45 p.m.

**B9 McNeal Hall, St. Paul
54750**

This course is a studio and research exploration of how designers reproduce their ideas in print. The studio component of this course will center on hands-on screenprinting and will include monoprinting, letterpress printing, relief printing, and digital printing.

A variety of printing surfaces will be used, including paper and fabric. The research component will focus on how contemporary printing technologies are changing and the effect these changes are having on creative production in the design world. A brief overview of the history of printing will also be covered.

James Boyd-Brent is a practicing printmaker who has received multiple awards for his work.

HERITAGE LANDSCAPES: PLANNING AND DESIGN FOR THE WORLD'S SPECIAL PLACES

Pat Nunnally, Landscape Architecture

DES 1910W, Section 004

3 credits

CLE: Writing Intensive

Monday, 2:00 – 5:00 p.m.

**33 Rapson Hall, East Bank, Minneapolis
55476**

This seminar will explore the concepts of heritage, preservation, and cultural landscapes and explore connections between culture, place, and design. Students will build basic college-level skills in research, analysis, writing, and presentation through an exploration of broad landscape architecture and world heritage topics.

Pat Nunnally leads the University's Mississippi River Initiative, working to preserve and restore this vital resource in our community.

GOVERNMENT

Ed Foster, Economics

ECON 1905, Section 001

3 credits

Tuesday and Thursday, 11:15 a.m. – 12:30 p.m.

**West Bank, Minneapolis
56186**

Rabbi Hillel asked: "If I am not for myself, then who is for me? And if I am not for others, then who am I? And if not now, when?"

At their core, the decisions a society makes about government – what laws to adopt and how to enforce them, what tax revenue to collect by what means, and what to spend the money on – are an important part of its answers to the Rabbi's questions. This seminar will explore choices about government. We will look at the actual choices some countries have made; and, in the United States, at changes proposed by Presidential candidates and others. More fundamentally, we will also look at two basic tensions in society: individual rights vs. the collective, and self-help vs. helping others.

Concepts from economics help to illuminate these choices and tensions, but readings range more broadly.

Ed Foster's teaching areas include public economics, cost-benefit analysis, and environmental economics. His current research includes the evaluation of projects that span generations.

STUDENT ACTIVISM: THE LOST ART OF NON-VIOLENT CHANGE

Thomas Fiutak, Educational Policy and Administration

EDPA 1905, Section 001

2 credits

Monday, 9:05 – 11:00 a.m.

220 Wulling Hall, East Bank, Minneapolis

55623

This seminar will explore the motivations, tactics, and social-political roots of student activism within primarily American Higher Education over the past 50 years, with specific emphasis on the actions and outcomes associated with students at the University of Minnesota and other involved institutions. At its core will be the question of why and how non-violent strategies play out in the context of an often violent environment and what specific values and roles American universities have generated in this cause. The seminar will give each student an opportunity to create and test activist strategies for non-violent change.

Tom Fiutak experienced the student rights movement as a student at Canisius College, a graduate student and administrator at Indiana University, Director of Housing at St. Joseph's College, Philadelphia, Assistant Dean of Students at Cornell University, Ithaca, New York, and Director of the Student Organization Development Center at the University of Minnesota. He co-founded the Conflict and Change Center of the Humphrey Institute for Public Affairs where as a Fellow, taught courses in Conflict Management and Mediation Skills.

It was excellent to have this class...It was like going home once a week.

Freshman Seminar Student

GLOBAL INNOVATION, HIGHER EDUCATION, AND YOU

Arthur Harkins, Educational Policy and Administration

EDPA 1909W, Section 001

3 credits

CLE: International Perspectives and Writing Intensive

Wednesday, 11:15 a.m. – 1:00 p.m.

150 Wulling Hall, East Bank, Minneapolis

47789

The United States and many other countries are creating cultures based on continuous innovation in industry, business and civic life. A majority of countries are not going about this practice or are moving toward it relatively slowly. Higher education is refocusing its mission internationally and globally to help prepare the innovative knowledge workers and citizens necessary for what have been called continuous innovation societies. This seminar will offer students opportunities to examine and assess trends indicating the societal, economic and personal meanings of continuous innovation in the world context. They will review the characteristics of innovative knowledge workers and citizens, and the higher education strategies required to produce and support them. Continuous innovation is a term employed routinely in business, industry, non-profit and military contexts; the bulk of higher education resources have been directed toward producing up-to-date competencies among all students. In line with emerging workforce and civic changes, the routine production of students' innovation capabilities is now both timely and appropriate. However, questions concerning how, and whether, particular countries and cultural regions will react to or engage in innovation practices must seriously be taken into account.

Arthur Harkins has authored a number of recent articles about the future of higher education. His upper division seminar, Leadership in the World, explores how leadership, knowledge, and innovation have become *de rigueur* in modern societies. In support of knowledge leaders he is helping to develop a graduate program in Innovation Studies. His hobbies are sailing, bicycling, and glider soaring.

**AMERICAN STREET MODERNISMS: PULPY,
POPULIST, PROLETARIAN**

Jani Scandura, English

ENGL 1905, Section 001

3 credits

Tuesday and Thursday, 9:45 – 11:00 a.m.

20 Eddy Hall, East Bank, Minneapolis

41663

This seminar will introduce students to American modernism in the broadest sense. We will look at a wide range of texts – highbrow and low; avant-garde and pulpy; populist and mass-market. We will read across a variety of genres and mediums: manifestoes, poetry, fiction, films, graphic novels, cartoons, popular music, photography, modern dance, political speeches, philosophy, and plastic art. The goal is to provide a snapshot of the newness of modernism in all its complexity and with regard to the peculiarities of United States culture in the early to mid-twentieth century. We will study works by Man Ray, Charlie Chaplin, Maya Deren, Josephine Baker, Alain Locke, Jacob Lawrence, Ma Rainey, Sterling Brown, HD, Mary McCarthy, Mine Okubo, Horace McCoy, and possibly, Marx, Freud, Franz Boas, John Dewey, and others.

Jani Scandura is co-director of the Space & Place Collaborative and is co-editor of *Modernism, Inc.: Body, Memory, Capital* and author of the forthcoming *Down in the Dumps: Place, Modernity, American Depression*.

**FICTION, FILM, AND VIDEO FROM EMERGING
NATIONS**

Charles J. Sugnet, English

ENGL 1905, Section 002

3 credits

Tuesday and Thursday, 11:15 a.m. – 12:30 p.m.

East Bank, Minneapolis

55587

In this seminar we will discuss selected novels, feature films, documentaries, and music video clips from a variety of “developing” or formerly colonized nations, in order to get an idea of how issues like globalization, economic development, and women’s status look from the other side of the global economic divide. Likely objects of study include: innovative short animated films by William Kentridge (South Africa), Djibril Diop Mambety’s 45-minute film *The Little Girl Who Sold the Sun* (Senegal), Moufida Tlatli’s exquisite feature film *Silences of the Palace* (Tunisia), *Nervous Conditions* (novel) and *Everyone’s Child* (feature film) by Tsitsi Dangarembga (Zimbabwe), and Stephanie Black’s documentary *Life and Debt* (U.S./Jamaica) based on Jamaica Kincaid’s short book *A Small Place* (Antigua).

Charles J. Sugnet is the founding director of the College in the Schools Literature Program, and has won both the Morse-Alumni award for outstanding contributions to undergraduate education and the College of Liberal Arts Distinguished Teaching Award. His essays have appeared in such places as *Transition*, *The Village Voice*, *d’Art*, and *The French Review*. He has written on Senegalese music videos and has recently completed a history of African cinema.

GLOBAL IMPACT OF INSECT-BORNE DISEASE

Ann M. Fallon, Entomology

ENT 1905, Section 001

2 credits

Wednesday, 3:30 – 5:20 p.m.

485 Hodson Hall, St. Paul

48821

This course will address arthropod-borne disease in the context of world history and public health. Students will be guided in the discussion of major insect and tick-borne diseases including malaria, yellow fever, Lyme disease, West Nile virus and others, with emphasis on their geographic distribution and economic impact, role of insect vectors, and means of prevention. We will examine global efforts to reduce these diseases by insect control, treatment of infection, and vaccine development. Students will be introduced to research opportunities in the broad fields of medical entomology and public health. This seminar is appropriate for students interested in insect biology, parasites, pathogens, human and animal health, international travel, and health care delivery in developing countries.

Ann Fallon has investigated mosquitoes and mosquito-borne pathogens, with research funding from the National Institutes of Health, World Health Organization, and United States Department of Agriculture. Her work involves development of molecular approaches to control mosquito-borne disease. Her students have come from China, Egypt, India and the United States. She is the first member of her family to attend a university, and is interested in introducing students to educational opportunities beyond coursework, in the context of long-term career goals.

CHESS, CRITICAL THINKING, AND VISUAL THINKING

William M. Bart, Educational Psychology

EPSY 1905, Section 001

3 credits

Monday, 11:35 a.m. – 2:15 p.m.

**325 Peik Hall, East Bank, Minneapolis
47903**

The focus of this seminar is an examination of higher reasoning skills including critical thinking, problem solving, decision making, and planning in the visual-spatial context of chess. Students will also be introduced to the basic components of chess, computer-based chess, how good chess players think, and how the higher reasoning skills required in chess are applicable to various academic disciplines and life in general. Students who have taken prior presentations of this seminar have thoroughly enjoyed the seminar and learned much that is applicable to their subsequent academic experiences.

William M. Bart studies critical thinking skills and visual-spatial thinking skills used in chess playing and other contexts. He is interested in helping students improve their reasoning skills.

HUMAN IMPACT ON THE ENVIRONMENT: THEN AND NOW

Jay Bell, Soil, Water, and Climate

ESPM 1901H, Section 001

3 credits

CLE: Environmental Theme

Monday and Wednesday, 3:00 – 3:50 p.m.

**375 Borlaug Hall, St. Paul
48295**

Humans have had a profound effect on the environment throughout the history from our earliest civilizations until today. In this seminar we will examine how human activities have altered the earth by studying specific events in our past and of concern today. Examples include land degradation in ancient Mesopotamia, the draining of the Aral Sea, and the Dust Bowl. We will focus on the causes, attempted solutions, and long-term effects of human impact on the environment using examples from around the world (Australia, China, Russia, Morocco, Antarctica) as well as what we find in our own backyards today. Topics will include an introduction to the earth as a system, global impacts (climate and land-use change), salinization, desertification, soil erosion, drastically disturbed lands, chemical contamination, and waste disposal. We will conclude with a brief examination of how we attempt to regulate human impacts on the environment today.

Jay Bell has received three teaching awards and has worked in such diverse areas as wetland ecology, mine reclamation, soil conservation, remote sensing, soil salinization, soil mapping, and climate change. He has had the opportunity to work extensively in Australia, Morocco, and across North America. He serves as editor of chief of *Geoderma*, the international journal of soil science, and spends his spare time biking, hiking, camping, fishing, playing the guitar, trying to keep up with his two sons, and enjoying life.

ALIEN INVASIONS: IMPACTS AND CONTROL OF EXOTIC SPECIES

Raymond M. Newman, Fisheries, Wildlife and

Conservation Biology

ESPM 1905, Section 001

1 credit

Wednesday, 1:55 – 2:45 p.m.

**100 Skok Hall, St. Paul
54948**

Non-indigenous (exotic) species such as Eurasian watermilfoil, zebra mussels, killer bees and kudzu are becoming increasingly common world-wide and are considered one of the major causes of loss of biodiversity. What are these species? From where do they come and how do they get there? What allows some species to invade and become a nuisance? How can we control them? This seminar will introduce students to the topic via reading, presentation, and discussion of selected primary literature. In addition to learning more about the topic, students will learn how to read, critique, and summarize primary literature and gain insight into how science is conducted and translated into management actions.

Ray Newman has been investigating impacts and control of exotic species for 15 years. He regularly interacts with managers and the public on invasive species issues and leads an Environmental Studies, Policy and Management colloquium on exotic plants and animals.



HOSPITALITIES: HOSTS, HOTELS AND HOSPITALS

Hakim Abderrezak, French and Italian

FREN 1905, Section 001

3 credits

Monday and Wednesday, 9:45 – 11:00 a.m.

**14 Folwell Hall, East Bank, Minneapolis
48179**

Hospitality is the business of hosts, hotels, and hospitals. In this seminar, we will examine the historical evolution of the notion of hospitality in dominant discourses (such as psychoanalysis) and in various disciplines (such as medicine). We will look at the various forms that hospitality can take, ranging from the most generous personal act to the most commercial service, from the most voluntary to the most unavoidable. We will also examine the different natures of hospitality: pleasant or traumatic, imposed or unlawful, regulated by cultural practices or by political decisions.

As the debates on immigration garner international attention in the media in the United States and around the globe, national hospitality has increasingly become an issue. This course will thus address the nation as host, mainly in Europe, North Africa, and the United States, but also in other parts of the world. Students will be asked to relate their own experiences of hospitality to the politics of hospitality.

Hakim Abderrezak's research focuses on North African and Beur literature and cinema. He has taught an introductory course on French literature, a literature class on immigration, and a culture course on North African cinema. He is interested in various concepts such as gender, space, and language.

HOT ISSUES IN WILDLIFE CONSERVATION

Ira R. Adelman, Fisheries, Wildlife, and

Conservation Biology

FW 1905, Section 001

1 credit

Monday, 1:55 – 2:45 p.m.

**490 Hodson Hall, St. Paul
47679**

This course will cover some of the “hot” issues in conservation of fish and wildlife that have attracted public attention through the mass media including: spotted owls as a template for endangered species management, Monarch butterfly conservation, Chronic Wasting Disease in Minnesota deer, and wolf reintroduction in Yellowstone National Park. For most topics, an expert will join the class to share their knowledge and inform the students.

Ira Adelman's research interests include the effect of water pollution on fish, environmental biology of fishes, and fisheries management. In 2004 he served as president of the 9,000 member American Fisheries Society and was formerly president of the National Association of University Fisheries and Wildlife Programs.

GEOLOGY OF MINNESOTA

Harvey Thorleifson, Geology and Geophysics

GEO 1901, Section 001

3 credits

CLE: Environmental Theme

**Wednesday 10:10 – 11:50 a.m. (field trips Sept. 15
and Sept. 29)**

**105 Pillsbury, East Bank, Minneapolis
41657**

Understanding interactions between the Minnesota environment, natural resources, ecosystems, and human activity requires a grasp of the structure and history of our landscape, from the Mississippi River basin to the Red River Valley and the Lake Superior basin. Underlying and shaping this landscape are ancient rocks in the north and in the deep subsurface, younger limestone and sandstone in the south, and the deposits of the Ice Age that our soils have formed in. These deposits host our principal drinking water sources, so we must understand them in order to protect and wisely use our water. A full-day field trip on Saturday, September 15 will examine the water resources of our rivers and lakes, and a second full-day trip on Saturday, September 29 will examine how geology controls our well water supply. A payment of \$33.00 by check payable to University of Minnesota that is required for the field trip costs may be submitted at class.

Harvey Thorleifson is Department Director for the Minnesota Geological Survey. He has carried out research on gold, diamonds, offshore mapping, climate change, shoreline erosion, and water supply across much of Canada. The course will be co-taught by members of the Minnesota Geological Survey staff, who have extensive experience in Minnesota geology.

GEOLOGY AND CIVILIZATION

Donna Whitney, Geology and Geophysics

GEO 1901, Section 002

3 credits

CLE: Environmental Theme

Monday, 11:15 a.m. – 12:55 p.m.

East Bank, Minneapolis

41985

Did a change in climate doom the ancient Mayans? Did a tsunami destroy the Minoan civilization? Could events like this destroy a modern civilization? Can any geologic event, however destructive, change the course of history? The general theme of this seminar is: What is the role of geology in the evolution of civilizations, from pre-history to the present day? In this seminar we debate the influences of geological processes on humans including how climate change, earthquakes, volcanism, and the distribution of mineral, energy, and water resources affect where and how we live today, in the past, and in the future. In addition to considering how the physical environment influences humans, we will discuss whether humans can and should control the physical environment; for example, floods, landslides, volcanic eruptions.

Donna Whitney's research involves investigating how mountain systems form and collapse, and she is interested in how people and landscapes have interacted from ancient times to the present. Her field sites include the eastern Mediterranean (Turkey, Greece) and western North America.

ORIGIN AND PROPERTIES OF GEMS

James H. Stout, Geology and Geophysics

GEO 1901, Section 003

3 credits

CLE: Environmental Theme

Monday and Wednesday, 1:25 – 2:15 p.m.

121 Pillsbury Hall, East Bank, Minneapolis

55575

Have you ever wondered about how the fabulous diamonds and other gems that adorn the rich and famous were formed? Do you want to learn how gems and precious metals make it from their rocky origins in the Earth to the end user, and the environmental and political problems that are encountered on the way? Do you know how to tell the difference between a genuine ruby and a nicely cut piece of red glass, or between real gold and fool's gold? These and other questions are answered in this seminar. This course will involve a one-day field trip.

James Stout's geologic research interests in mineralogy and petrology are currently focused in Labrador, New Zealand and Montana where he and graduate students are studying the origin of deep continental crust.

ENVIRONMENTAL JUSTICE

Robert B. McMaster, Geography

GEOG 1905H, Section 001

3 credits

Wednesday, 1:25 – 3:25 p.m.

West Bank, Minneapolis

56091

In our society, is the distribution of environmental hazards – such as chemical sites and air pollution – equitable, or are certain vulnerable populations – senior citizens, the poor, the very young, and/or minorities – at greater risk of exposure than others? Environmental justice refers to the ideal of equal protection from environmental hazards for all races, ethnicities, and socioeconomic groups. It is an intrinsically interdisciplinary problem studied by scholars in law, political science, sociology, and geography from different perspectives and using different methodologies. Since the issue of environmental justice has a strong spatial component, it has been of great interest to geographers who have worked hard to develop and improve methodologies to study it.

This seminar will look at the many approaches to understanding environmental justice, and will survey federal legislation, such as the Superfund Act, that has influenced work in environmental justice. The major focus will be on geographical research that looks at the spatiality of the problem, and possible solutions. Addressing the growing concern in the developing world, we will also look at the problem from an international perspective. Students will complete an environmental justice study for one metropolitan area in the United States using census data and Toxic Release Inventory (TRI) data from the Environmental Protection Agency.

Robert B. McMaster's research interests include automated generalization, environmental risk assessment (including assessing environmental injustice to hazardous materials, the development of new spatial methodologies for environmental justice, and the development of risk assessment models), geographic information science and society (public participation GIS, alternative representations), and the history of U.S. academic cartography. Recently, he completed a five-year NSF funded project to develop the National Historical Geographic Information System.

**(E)RASE ME: WHAT IN THE WORLD IS
“RACE”?**

Tricia Keaton, American Studies Program

GLOS 1902, Section 001

3 credits

CLE: Cultural Diversity

Thursday, 2:45 – 5:15 p.m.

East Bank, Minneapolis

55722

What is “race?” Is it an understanding rooted in our cultures or one encoded in our genes? How has this concept shaped our views of love, human worth, belonging, behavior, morality, “intelligence,” and standards of beauty? Just how real is this entity we call “race?” In this seminar, we will explore the ways in which race evolved as an idea and how it continues to play a fundamental role in the ways people perceive and respond to each other. Although scientists have shown that there is more genetic diversity *within* so-called racial groups than *between* them, our observable differences (i.e., skin color, appearances, language varieties, etc.) continue, nonetheless, to play a central role in how we both see and interact with each other in the United States and beyond. We will dissect the idea of “race,” in order to question and understand why some of us think, speak, self-identify, and identify others in terms of “races.” In our quest to understand how the idea, representations, meanings, and categories of “race” have come to dominate our perceptions of human bodies and groups, we will unravel what is all too often considered settled or ignored, namely what “race” is in the United States, parts of Western Europe, Brazil, and South Africa.

Tricia Keaton’s research and teaching focuses on the ways in which the idea of race developed and spread from Europe to the United States and other parts of the world, such as Brazil and South Africa. As an African American whose research focuses on notions of belonging in France and the United States, she is eager to help students of diverse backgrounds and origins learn in a safe, open, and welcoming environment how and why “race” was made, and how it can be unmade.

**STORIES AND STRUGGLES: NARRATIVES IN
SOCIAL CHANGE**

Richa Nagar, Gender, Women, and Sexuality Studies

GWSS 1904, Section 001

3 credits

CLE: International Perspectives

Thursday, 2:00 – 4:30 p.m.

400 Ford Hall, East Bank, Minneapolis

55897

Stories are often told and written to articulate resistance across the borders of nations and communities. Writers, community workers, and activists use the *process* of writing for self- and collective transformation and for grappling with the intricacies of power – internationally, nationally, locally – with respect to their own bodies. This seminar looks at autobiographies, collective memory work, and stories of resistance to corporate globalization in the third world. It examines these stories as tools that give meanings and forms to collective organizing and social justice in specific contexts, as well as the ways in which critical reflection, teaching, and learning become key parts of the writing process.

Richa Nagar’s research and teaching focus on relationships between knowledge production and social change and categories such as gender, race, class, caste, and religion. She is particularly interested in how analytical, creative, and journalistic writing can be combined to shape new forms of dialogues across the fields of academia and community-based struggles. With other members of the Sangtin Collective in Uttar Pradesh, India, she has co-authored the book *Playing with Fire*.

**THE OMNIVORE'S DILEMMA – AND WHERE
DO MINNESOTA PRODUCERS FIT IN?**

Emily Hoover, Horticultural Science

HORT 1906W, Section 001

3 credits

CLE: Environmental Theme and Writing Intensive

Tuesday and Thursday, 4:00 – 5:15 p.m.

West Bank, Minneapolis

55448

This seminar will focus on where our food comes from and how the choices we make affect the world around us. Food choices have environmental, political, economic, and psychological impact on humans and their surrounding environment. We will begin the semester reading Michael Pollan’s book *The Omnivore’s Dilemma* to give context to the modern U.S. diet and the choices of consumers and producers. We will then delve into agricultural products that can be produced in Minnesota and contrast that with the ideas coming from

the local food movement using California as a case study. We will investigate where Minnesota producers fit into the human food web and will end the semester by generating information type for consumers about food choices and availability of Minnesota products.

Emily Hoover, Morse-Alumni Distinguished Teaching Professor of Horticulture, has taught at the University of Minnesota for over 20 years. Her research area focuses on sustainable agricultural production with an emphasis on perennial fruit production. She enjoys interacting with students from across the University and is excited to be teaching this seminar.

EINSTEIN FOR EVERYONE

Michel Janssen, History of Science and Technology

HSCI 1905, Section 001

2 credits

Wednesday, 9:05 – 11:00 a.m.

236A Physics, East Bank, Minneapolis

50490

This course is an introduction to Einstein and his science with a minimum of mathematics. We cover special relativity (1905), its implications (time dilation, twin paradox, and $E=mc^2$), and its history. We also cover Einstein's work on general relativity, which makes gravity part of (curved) space-time, from 1907 till about 1920. For this period, we also look at Einstein's personal life. Finally, we examine his attitude towards quantum mechanics. This seminar should give you a good understanding of some of Einstein's most revolutionary ideas, of how he arrived at them, at what personal price, and in what broader socio-political and cultural context.

Michel Janssen was an editor for the Einstein Papers Project before coming to Minnesota and is currently co-editing *The Cambridge Companion to Einstein*. He was the 2005 recipient of the Institute of Technology's Taylor Career Development Award for exceptional contributions to teaching by a candidate for tenure.

The interaction between the professors was the spice of the seminar. It made things quite comical at times.
Freshman Seminar Student

FROM GOLEM TO ROBOT TO CYBORG:

ARTIFICIAL PEOPLE IN HISTORY

Jennifer Alexander, Mechanical Engineering and

History of Science and Technology

HSCI 1905, Section 002

2 credits

Tuesdays, 11:30 a.m. – 1:10 p.m.

3-125 Mechanical Engineering, East Bank,

Minneapolis

55435

For centuries humans have tried to create artificial people. This course covers the history of artificial people, from medieval attempts to create them through magic, to modern attempts through robotics, cybernetics, and bioengineering.

Jennifer Karns Alexander is a historian of technology specializing in modern European history. She is the author of *The Mantra of Efficiency* (Johns Hopkins, fall 2007), and is at work on *Sport and Work*, a book analyzing the modern biomechanics movement. She is a past fellow of the *Centre Nationale de la Recherche Scientifique* of France, and of the Max Planck Society of Germany.

COMMUNICATING TECHNOLOGY FOR CIVIC ENGAGEMENT

Samuel Moore, Academic Program for Excellence in Engineering and Science

IofT 1905, Section 001

2 Credits

Tuesday, 2:30 – 4:10 p.m.

216 Lind Hall, East Bank, Minneapolis

45885

Do you want to be able to explain to family members who aren't engineers or scientists what you will do as an engineer or scientist? Have you ever tried to explain to friends who don't know engineers or scientists how engineers and scientists contribute to society? Do you know what you will do as an engineer or scientist? This seminar will prepare you to communicate to non-technical audiences what it takes to successfully become an engineer or scientist and what engineers and scientists do to improve the quality of life. You will learn and practice public speaking and audience analysis strategies, develop oral and visual communications on how to be an engineer or scientist, and engage the public through the presentation of current science and engineering research to audiences, especially populations underrepresented in science, mathematics, engineering, and technology.

Samuel Moore is interested in how science and current research is communicated to the public, especially to underrepresented youth. He teaches public speaking to students in engineering and science so that they can engage the public as citizen scholars. Sam is the Director of IT APEXES in the Institute of Technology, which is charged with promoting the value of a diverse science and engineering workforce, the value of science and engineering education, and the value of science and engineering to improving society.

TIME

Christopher Macosko, Chemical Engineering

Paul Capel, Civil Engineering

IofT 1905, Section 005

2 credits

Wednesday, 3:35 – 5:15 p.m.

216 Lind Hall, East Bank, Minneapolis

56229

Is time travel possible? Really, what is time? Although time is an integral part of science and an integral part of everyday life, it is a complex topic that has been discussed by scientists and philosophers for centuries. The weekly topics in this seminar will alternate between the science/engineering aspects of time and the broader philosophical/societal aspects of time and strive to make connections between them. The science and engineering topics will include kinetics, radioactive decay, paleogeology, measurement of time, and aging processes. The philosophical and societal content will include such topics as the arrow of time, cyclic and linear time, and the beginning and end of time. We will even spend some time talking about how to manage your time better!

Chris Macosko teaches chemical engineering and materials science students about polymers. His latest research projects is using these very long molecules to direct cancer drugs to tumors. He and his wife Kathleen live on Oak Street near the “superblock” and have been known to invite students to their home. They are planning a sabbatical in Israel next year.

Paul Capel teaches environmental water chemistry to civil engineering students and coordinates a national study on the movement of agricultural chemical in surface and ground water for the U.S. Geological Survey. This current research interest is the pathways by which corn and soybean herbicides are transported in the air throughout the environment. He and his family live in St. Anthony, near the St. Paul campus.

FROM GOLEM TO ROBOT TO CYBORG: ARTIFICIAL PEOPLE IN HISTORY

Jennifer Alexander, Mechanical Engineering and

History of Science and Technology

IofT 1905, Section 004

2 credits

Tuesdays, 11:30 a.m. – 1:10 p.m.

3-125 Mechanical Engineering, East Bank,

Minneapolis

55605

For centuries humans have tried to create artificial people. This course covers the history of artificial people, from medieval attempts to create them through magic, to modern attempts through robotics, cybernetics, and bioengineering.

Jennifer Karns Alexander is a historian of technology specializing in modern European history, with a joint appointment in the Department of Mechanical Engineering and the Program in the History of Science and Technology. She is the author of *The Mantra of Efficiency* (Johns Hopkins, fall 2007), and is at work on *Sport and Work*, a book analyzing the modern biomechanics movement. She is a past fellow of the *Centre Nationale de la Recherche Scientifique* of France, and of the Max Planck Society of Germany.



RISK AND THE HUMAN EXPERIENCE

Keith C. Russell, Kinesiology

Moira Petit, Kinesiology

KIN 1902, Section 001

3 credits

CLE: Cultural Diversity

Tuesday and Thursday, 9:45 – 11:00 a.m.

215 Cooke Hall, East Bank, Minneapolis

The concept of risk is one of the most important and central issues in the 21st Century human experience. Risk drives our economy, guides scientific research, shapes domestic and foreign policy, and develops and tears down social institutions. If there was a concept that could personify modern society it may be risk. The goal of the course is to explore the construct of risk through two phases: 1) knowledge building, focusing on the historical development of risk and its current manifestations in contemporary society; and 2) knowledge application, which focuses on applying conceptions of risk to various case study examples. The first phase of the course will teach students to develop a skill set that encourages self-directed learning including skill development in reading comprehension, library research, critical thinking, scientific reasoning and application of the scientific method. The second phase of the course will employ a problem-based learning approach with four distinct modules that will ask students to apply, experience, and evaluate risk in a variety of contexts.

Keith C. Russell specializes in adventure education and youth development.

Moira Petit specializes in community-based physical activity interventions to optimize bone health during childhood and adolescence and childhood and youth obesity prevention.

WHAT IN THE WORLD IS AN ART SONG?

Glenda Maurice, Music

MUS 1905, Section 001

3 credits

West Bank, Minneapolis

56177

This seminar will introduce students to a unique classical art form called Art Song. Comparisons will be made with music of the popular arts, and the seminar will be listening-intensive, using both recordings and live performances. Students will encounter social history, cultural literacy, fine art, and poetry in several languages, and will also study preparation and presentation of Art Song for the recital stage.

Critics from Amsterdam to London to New York City have lauded **Glenda Maurice**'s "fastidious interpretive instincts" and singularly persuasive interpretations of American songs. She has performed widely throughout the United States and in Europe, appearing with the Amsterdam Concertgebouw Orchestra conducted by both Eugen Jochum and Bernard Haitink; with the Boston Symphony under Seiji Ozawa; with the Houston Symphony under Sergiu Commissiona; in Kennedy Center with Mstislav Rostropovich and the National Symphony Orchestra; and with the Minnesota Orchestra and the Rochester Symphony. As a recitalist, she has gained prominence in the Art Song field, collaborating with Dalton Baldwin, David Garvey, Graham Johnson, and Rudolf Jansen. She has recently premiered two songs cycles written for her: *Octaves and Sweet Sounds* by Richard Hundley and *Beloved, Thou Hast Brought Me Many Flowers* by Libby Larsen. In 1998, Maurice founded and became artistic director of The Institute for Art Song Recital Performance in Minneapolis, which offers in-depth training to singers.

WHAT IS CHAMBER MUSIC?

Mark Bjork, Music

MUS 1905

3 credits

For many centuries, to the delight of centuries of audiences, musicians have derived their greatest joy in playing works for small combinations of instruments, or chamber music; and composers have created some of their greatest works for these small ensembles. This seminar will explore the rich repertoire for these small combinations of instruments and voices: what are some of these combinations, and just what is the music that has so much appeal for musicians and connoisseurs alike? We will survey literature historically through listening and discussion.

Chamber music has always occupied a central position in violinist **Mark Bjork**'s professional life. In addition to his work with students in the University of Minnesota's School of Music, for many years he has coached ensembles at summer institutes and festivals throughout the United States. As a performer, Bjork has presented a multitude of works for smaller combinations—duo, trio, quartet, quintet—as well as works for larger groups of string, wind, and keyboard instruments in a variety of combinations. As a founding member of the long-standing *LaSalle Trio*, Bjork appeared in an annual series of concerts locally as well as on tour, radio, and television. In addition, throughout his career he has collaborated with artists from many other conservatories and schools of music, as well as with colleagues from the School of Music.

LISTENING TO ROCK & POP MUSIC: SOUNDS, FORMS, AND CONTEXTS

Peter Mercer-Taylor, Music

MUS 1910W, Section 001

3 credits

CLE: Writing Intensive

West Bank, Minneapolis

56179

Built around listenings drawn from across the history of rock-era popular music, this seminar is an intensive exploration of popular music's structures and meanings. We will read historical criticism concerning each era in turn, together with more recent scholarship that has attempted to make sense of the music. A substantial fraction of our work will be intensive listening – that is, working together to develop ways to account for what makes this music worth listening to, and why we love what we love. Topics covered will include '50s rock 'n' roll, the “girl groups,” the Beatles, progressive rock, punk, music video, hip hop, heavy metal, and more recent trends. The ability to read music is not required, but it will help.

Peter Mercer-Taylor's teaching, scholarship, and musical loves include both classical and popular music. The author of *The Life of Mendelsohn* and editor of *The Cambridge Companion to Mendelsohn*, Mercer-Taylor has also produced articles and papers on Elvis Costello, The Bangles, Run-DMC, R.E.M., They Might Be Giants, Nirvana, and Cradle of Filth. He is a dedicated (but strictly amateur) guitarist, bass player, and songwriter, with a smattering of piano, viola, and flute, though he says that listening is what he does best.

THE POSSIBILITY OF A SUSTAINABLE SOCIETY

John Wallace, Philosophy

PHIL 1905, Section 001

3 credits

Tuesday, 2:30 – 5:00 p.m.

**30 Hubert H. Humphrey Center, West Bank,
Minneapolis**

35399

This seminar will introduce students to, and engage them in, important current conversations about the future of our society that turn on the question: *How can we create a sustainable society?* The purpose is for students to learn their way around in these conversations and to develop a voice to participate in them. In particular, the seminar will plunge in depth into current conversations on global warming and high-intensity agriculture's effects on soil and water resources.

Pursuing these conversations requires digging into current scientific understandings of the natural systems that underlie climate change and agriculture, and of the impact of human activity on these systems. It also requires philosophical work to clarify key value-laden assumptions that provide scaffolding for the conversations – assumptions about what human beings need, assumptions about human beings' capacities to adapt their ways of life in the face of radically changed environments, assumptions about what features of our present way of life we must preserve, and what features we can let go of, as we change our way of life.

John Wallace, taking his cue from Socrates, sees the philosopher as a catalyst for conversations about how we should live. He puts this view into practice in his teaching (see especially his residential course www.philosophycamp.org) and in his community work, which currently includes being a catalyst for conversations between conventional farmers and organic farmers in southwest Minnesota. He is the recipient of the National Campus Compact Thomas Ehrlich Faculty Award for Service Learning, the University of Minnesota Josie R. Johnson Human Rights and Social Justice Award, and the Minnesota Campus Compact Sister Pat Kowalski Leadership Award.

THE PHYSICS OF EVERYDAY HEROES

James Kakalios, School of Physics and Astronomy

PHYS 1905, Section 002

2 credits

Wednesday, 10:10 a.m. – 12:05 p.m.

157 Physics, East Bank, Minneapolis

42603

While costumed adventurers have captured the public's attention from the comic book shop to the silver screen, real world heroes walk amongst us every day. If not for the efforts of the police, military, firefighters and doctors, our lives would be poorer. The nature of these occupations today is very different from at the turn of the last century. How has physics transformed these fields, and what advances will be made possible tomorrow, thanks to today's cutting edge research? The physics of such materials and devices as Kevlar, Magnetic Resonance Imaging, Thermal Imaging, Robotics and Stealth Technology will be explained, and we'll discuss how research today may make possible tomorrow such technologies as force fields, thought recorders, and invisibility.

In 2001, **James Kakalios** created a Freshman Seminar, The Physics of Superheroes, which explained basic physics principles using examples and illustrations from superhero comic books. This new class will draw

examples of applications of basic physics principles in real life-saving fields. These will be compared to illustrations from comic books and science fiction pulp magazines, showing how reality has often outstripped the imagination of fiction writers. Kakalios, whose research spans nanoscience to neuroscience, has won several teaching awards.

EINSTEIN FOR EVERYONE

**Michel Janssen, History of Science and Technology
PHYS 1905, Section 004**

2 credits

Wednesday, 9:05 – 11:00 a.m.

236A Physics, East Bank, Minneapolis

32887

An introduction to Einstein and his science with a minimum of mathematics. We cover special relativity (1905), its implications (time dilation, twin paradox, and $E=mc^2$), and its history. We also cover Einstein's work on general relativity, which makes gravity part of (curved) space-time, from 1907 till about 1920. For this period, we also look at Einstein's personal life. Finally, we examine his attitude towards quantum mechanics. This seminar should give you a good understanding of some of Einstein's most revolutionary ideas, of how he arrived at them, at what personal price, and in what broader socio-political and cultural context.

Michel Janssen was an editor for the Einstein Papers Project before coming to Minnesota and is currently co-editing *The Cambridge Companion to Einstein*. He was the 2005 recipient of the Institute of Technology's Taylor Career Development Award for exceptional contributions to teaching by a candidate for tenure.

QUANTUM MECHANICS FOR EVERYONE

**Allen Goldman, Physics and Astronomy
PHYS 1905, Section 005**

2 credits

Thursday, 2:30 – 4:25 p.m.

143 Physics, East Bank, Minneapolis

32889

One of the greatest intellectual accomplishments of the Twentieth Century was the development of Quantum Mechanics, a field of physics which describes the counter-intuitive behavior of molecules, atoms, light and subatomic particles. Can you pass through a solid wall without disturbing yourself or the wall? An electron can and does so repeatedly in many common semiconductor devices. Without an understanding of quantum mechanics, neither the transistor nor the laser could have been invented. A significant fraction of the entire economy is based on technological developments that

derive directly from quantum mechanics. This class will examine, with a bare minimum of mathematics, the conceptual foundations of the strange world of the quantum as well as its connection with devices and systems that we take for granted in our everyday lives.

Allen Goldman's research is in the area of experimental condensed matter physics. The specific work on superconductivity involves the application of quantum mechanics to macroscopic systems.

MINNESOTA'S ENERGY FUTURE

**Thomas Walsh, Physics and Astronomy
PHYS 1905, Section 006**

2 credits

Monday, 2:30 – 4:25 p.m.

157 Physics, East Bank, Minneapolis

32895

This seminar concerns future energy resources and energy use in our state. The context of this course involves those constraints arising from climate change and the depletion or risk of many energy sources. An emphasis will be placed on elementary physics arguments and estimates for energy use and resources and how these estimates enable us to gain an overview of the energy problems and solutions in the future.

Thomas Walsh is a theoretical physicist working in elementary particle physics and astroparticle physics.

FROM BONGO TO BRAIN

**John Broadhurst, Physics and Astronomy
PHYS 1905, Section 007**

2 credits

Thursday, 3:35 – 5:30 p.m.

170 Physics, East Bank, Minneapolis

32897

This course begins with the different ways in which sound waves are generated both as speech for communication and as music for pleasure. We will then examine sound transmission in the atmosphere and in other materials such as water, as well as the mechanical phase of hearing, namely the function of the structure of the ear, the ossicles, the organ of Corti, and the auditory nerve bundle. The final phase of the course is the mechanical processing sound (e.g. loud-soft, left- right etc.) by the thalamic region, followed by the recognition of sounds, ("Yes that's a bongo") by the auditory cortex. This is a web based course.

John Broadhurst has been active since the end of the 1960's in the biophysical field, early work being done on the migration of heavy ions within contractile skeletal muscle cells. Since 1995, the instructor has concentrated on the functional aspects of the human auditory cortex, examining its behavior in response to the presentation of different types of sound stimuli to the ear.

WHAT IS EVERYTHING MADE OF

Kenneth J Heller, Physics and Astronomy
PHYS 1905, Section 008

2 credits

Thursday, 3:35 – 5:30 p.m.

236A Physics, East Bank, Minneapolis
54659

We all know that the everyday objects around us are made of atoms. The atoms are themselves made of electrons and a nucleus with lots of space in between. The nuclei are made of protons and neutrons. But what are the protons, neutrons, and electrons made of? Does this chain of smaller and smaller bits of matter go on forever? What about space? Is it really empty, or is it made of something? There are less common objects in our Universe: neutrinos, black holes, antimatter. Are they made of the same stuff as a chair? This seminar will allow you to investigate the latest results, theories, and speculations from the frontiers of physics in a qualitative manner.

Ken Heller is a Morse-Alumni Distinguished Teaching Professor, a George W. Taylor/IT Alumni Society Award recipient, and a Fellow of the American Physical Society. His 30-year career to probe the fundamental nature of the universe includes the experiment that discovered tau neutrino interactions, the MINOS experiment that is measuring neutrino oscillations, and the building of a larger neutrino experiment that investigates a key ingredient for the creation of our universe.

EVOLUTION, A PHYSICIST'S POINT OF VIEW

J. Woods Halley, Physics and Astronomy
PHYS 1910W, Section 001

2 credits

CLE: Writing Intensive

Tuesday and Thursday, 9:05 – 9:55 a.m.

236A Tate Laboratory of Physics, East Bank,
Minneapolis
39743

In this course we will review a history of the ideas and evidence leading to the theory of evolution. Then we will discuss current research on evolution, including the molecular origin of life and the role of complexity in

possibly limiting and modifying the results of the evolution of species.

J. Woods Halley teaches physics courses at all levels and directs research programs in low temperature and chemical physics. He is a fellow of the American Physical Society and the Minnesota Supercomputing Institute.

EXPLORING CONSTITUTIONAL MEANING

Liz Beaumont, Political Science

POL 1903H, Section 001

3 credits

CLE: Citizenship and Public Ethics

This seminar explores some of the complex sources of constitutional meaning and how constitutional developments intersect with some of the most controversial issues in American history: slavery and civil war, protections for workers, women's rights, the civil rights movement and equal treatment of minorities, and religious freedom in our own era. We will investigate a broad set of materials that provide different lenses on constitutional theory, history, and development, including a select set of Supreme Court cases and writings from the Federalists, Anti-federalists, and many other people and groups that have debated and constructed constitutional meanings in different periods, such as leaders of anti-slavery societies, labor groups, and women's suffrage groups. We will also read a range of commentaries on the origins of key constitutional developments, and their consequences, such as their impact on democracy and rights.

Liz Beaumont's interests center on American constitutional law and development and on the ways in which people develop democratic values and capacities. She is a coauthor of two books on civic education and political socialization, *Educating for Democracy* and *Educating Citizens*; she has also authored or coauthored several articles and book chapters. She is currently working on a book project, *The Republic of Rights*, that examines how shifting public conceptions and uses of constitutional rights help us understand dramatic changes in constitutional structure.

WELFARE QUEENS, SICK KIDS, AND AGING BOOMERS: SOCIAL POLICY IN THE UNITED STATES AND EUROPE

Jane Gingrich, Political Science

POL 1904, Section 001

3 credits

CLE: International Perspectives

Tuesday and Thursday, 11:15 a.m. – 12:30 p.m.

East Bank, Minneapolis

56184

The word ‘welfare’ is reviled in American politics, and yet we spend three times more on social programs such as social security, Medicare, and Medicaid than on defense. The media portray the recipients of social programs variously as Cadillac-driving welfare queens, “deserving” sick children, or RV-driving baby boomers enjoying a long retirement. Why these differences? This seminar examines social policy in the United States through an international lens, asking both why the political dynamics around different social programs in the United States are so varied, and why the United States looks different from many European and Asian countries. We will examine a number of questions, such as: Why have numerous attempts to introduce universal health insurance in the United States failed? Why does the United States provide public pensions (social security) to all elderly citizens, but lack universal programs for children and young people? Why does social policy in the United States look so different than in Sweden, Germany or Japan?

Jane Gingrich studies social policy in Sweden, Britain, the Netherlands and the United States. She has traveled extensively through these countries, speaking with policymakers and politicians. In her teaching, she brings firsthand knowledge of different welfare states, comparing both differences in the political systems and the lives of citizens across countries. In both her research and teaching, she asks questions about how countries structure and reform their health care, pension, and welfare systems differently, and what political forces are behind these differences. Her research agenda dovetails with her other hobbies, which include traveling, meeting new people, and engaging in political debate.

BRAZIL: LAND OF THE FUTURE, POSTPONED

Fernando Arenas, Spanish and Portuguese

PORT 1905, Section 001

3 credits

Monday and Wednesday, 12:20 – 1:35 p.m.

318 Folwell Hall, East Bank, Minneapolis

54706

Why should American students take a seminar on Brazil? Brazil is more than the common stereotypes associated with lush tropical beaches, the awe-inspiring yet crucial Amazon rainforest, glamorous *Carnaval* pageantry, sensuous *mulattas*, or world famous soccer players...Brazil is the largest country in Latin America; a Portuguese-speaking nation that plays a pivotal role in the Western Hemisphere due to population size, land mass, and economic output (on all counts, among the largest in the world). From an agricultural standpoint, Brazil has become a world power, surpassing the United States in soybean production and exports, which are critical to the Midwest. On the world diplomatic stage, Brazil is becoming a strong advocate for the countries of the South as they clamor for a greater voice in the context of contemporary globalization.

Given Latin America’s proximity to the United States and its importance from a geostrategic, economic, political, and cultural viewpoint, it is important that American citizens become acquainted with Brazil. This seminar offers an introduction to Brazilian culture (including film, music, literature), as well as related historical and socio-political issues. We will approach Brazil from a comparative perspective, making relevant connections to Africa, the United States, Europe, and Spanish-speaking Latin America.

Fernando Arenas teaches Portuguese, Brazilian, and Lusophone African literary and cultural studies. Both his teaching and research are concerned with the historical, cultural, socio-economic, and political forces that have shaped Portuguese-speaking nations throughout history. More specifically, he is interested in exploring how literature, intellectual thought, film, and popular music in Brazil, Portugal, and the five countries that make up Portuguese-speaking Africa examine the interaction between these various forces as they affect the contemporary nation-state in today’s globalized world. Arenas has been a visiting professor at Harvard University and at the Universidade Federal Fluminense (Rio de Janeiro, Brazil). He was awarded a Guggenheim Fellowship in 2005-06 to finish his new book on globalization, the aftermath of colonialism, and contemporary Portuguese-speaking Africa.

THE EXPERIENCE OF AGING IN LITERATURE AND THE ARTS

Robert E. Yahnke, Post-Secondary Teaching and Learning

PSTL 1902, Section 001

3 credits

CLE: Cultural Diversity

Monday and Wednesday, 11:15 a.m. – 12:30 p.m.

East Bank, Minneapolis

46327

This course will present an overview of how the experience of aging is portrayed in literature and the arts (novels, short fiction, drama, nonfiction, poetry, art, and films). Research and study on this topic can enrich and inform our understanding of many universal aspects of aging including theories of adult development, aging across the lifespan, ageism and gerontophobia, roles within families, and the mutual benefits of intergenerational relationships. Likewise, we will draw upon images and myths from literature and the arts that draw upon the wisdom, heroism, limits, and transcendence of old age. This course will emphasize the experience of aging as it is perceived from the older person's point of view.

Robert E. Yahnke has studied and written on films and gerontology since 1978, made numerous presentations on literature and film in the context of gerontology at national conferences, and has written numerous articles, reviews, and three books analyzing resources on film and/or literature on aging.

THE SCIENCE AND POLITICS OF GENETICS AND REPRODUCTION

Murray Jensen, Post Secondary Teaching and Learning

PSTL 1903, Section 001

3 credits

CLE: Citizenship and Public Ethics

Wednesday, 12:20 – 3:20 p.m.

104 Folwell Hall, East Bank, Minneapolis

42521

There are two components to this course: science and politics. The science of genetics and reproduction involves learning the basics of DNA, fertilization, embryos, developmental biology, etc., as well as new developments in the science of becoming pregnant, such as *in vitro* fertilization techniques, as well as new science to prevent pregnancy while still being sexually active, such as the morning after pill. The political portion of the course will revolve around bioethics; the hard work involved in making decisions surrounding genetics, DNA, sex, and reproduction. Topics will range

from personal decisions (e.g., using a condom), to federal law (e.g., Roe vs. Wade), and even world politics (e.g., the one child rule in China). Cultural and religious traditions will be used as a framework for many topics and special consideration will be given to the lessons learned from our country's history with eugenics.

Murray Jensen has taught freshman biology, human anatomy and physiology, several different freshman seminars, and graduate courses on the use of technology in education. His research interests include cooperative learning, technology enhanced learning, and evolution education. Murray is a member of the Academy of Distinguished Teachers and in 2001 was awarded the Morse Alumni Award for Outstanding Contributions to Undergraduate Education.

A PSYCHO-SOCIAL EXAMINATION OF HIP HOP CULTURE

Na'im Madyun, Post-Secondary Teaching and Learning

PSTL 1902, Section 001

3 credits

CLE: Cultural Diversity

Wednesday, 12:20 – 3:20 p.m.

319 Appleby Hall, East Bank, Minneapolis

56239

This course is a historical examination of hip hop music, speech, and dress and its impact on individual and collective values in America. Theoretically, special emphasis will be placed on the impact of language and image on behavior. Sensitive issues in hip hop culture will be discussed and debated.

Na'im Madyun currently teaches a cross-cultural psychology course focused on identity. His research is on social factors that explain the achievement gap.



THE TRUTH ABOUT HIGH-STAKES TESTING

Nathan Kuncel, Psychology

PSY 1905, Section 001

3 credits

Monday and Wednesday, 3:15 – 4:30 p.m.

**N227 Elliott Hall, East Bank, Minneapolis
54543**

One of the most visible applied areas of psychological science is testing for admissions and academic evaluation. Few topics in psychology elicit stronger reactions and opinions. The purpose of this seminar is to cover many of the hot topics and opinions surrounding testing. Topics include the history of testing, models and theories of human abilities, the genetic and biological basis of intelligence, and the relationship between test scores and life outcomes, including academic success, work performance, divorce, and mortality.

Nathan Kuncel's research focuses on the measurement of human cognitive and non-cognitive characteristics and their relationship with important life outcomes, including academic and job performance. His most visible research has been on standardized testing in college and graduate admissions. His work has appeared in *Science*, *Psychological Bulletin*, *Perspectives on Psychological Science*, the *Journal of Personality and Social Psychology*, and the *Journal of Applied Psychology*, among others. His main hobbies, he says, include “playing with his 2-year-old son, bathing his son, cleaning up after his son, feeding his son, cleaning up again after his son, and sharing dazed stares with [his] wife.” He looks forward to becoming increasingly eccentric as a professor, “moving toward downright wacky” late in his career.

WHAT IS THE HUMAN MIND?

Chad Marsolek, Psychology

PSY 1905, Section 002

3 credits

Tuesday, 9:45 a.m. – 12:30 p.m.

**204 Elliott Hall, East Bank, Minneapolis
54844**

You are reading the description of a seminar. That is, some part of you is capable of taking a series of shapes as visual input, abstracting intended meaning from them, organizing the information, and evaluating what you've organized (e.g., “fascinating seminar!”). Your mind accomplishes this task, not your lungs or heart, but what is this thing – the mind – that is capable of such complex internal information processing? Is it just a flurry of activated brain cells? Is it something non-physical? When you think about it, one of the most intriguing aspects of the universe is that you can think, that minds

operate as entities that appear to be crucially tied to physical brains but that also are importantly different. In this seminar, we will examine conceptions of the human mind from psychological, philosophical, and neuroscientific perspectives. Can science and critical analysis offer a concrete and compelling specification of the human mind?

Chad Marsolek investigates human memory, vision, and learning (as well as how emotional and social factors influence these abilities), from the perspective of how the brain underlies these faculties. His most influential work has been in uncovering important aspects of unconscious versus conscious memory and left/right hemisphere differences in the brain. His most important form of “sanity maintenance,” for both of his hemispheres, is live music, although he's not quite sure how conscious or unconscious he is of such maintenance.

MOVIES AND MADNESS: MEDIA PORTRAYALS OF ABNORMAL PSYCHOLOGY

Monica Luciana, Psychology

PSY 1910W, Section 001

3 credits

CLE: Writing Intensive

Wednesday, 1:25 – 4:10 p.m.

**N391 Elliott Hall, East Bank, Minneapolis
53932**

People are captivated by television shows, by what they read in newspapers, and by characters portrayed in popular films. Many of these portrayals are compelling because they depict extremes of human behavior that do not necessarily affect all people but that represent struggles to prevail in times of distress or adversity. Often this distress is due to the presence of a psychological disorder. This seminar will use film portrayals of psychological disorders to teach students basic descriptive aspects of abnormal psychology. For each class session, students will read a module from the current Diagnostic and Statistical Manual of Mental Disorders-IV (DSM-IV), the primary manual that is used by clinicians to diagnose psychological and psychiatric conditions.

Monica Luciana uses experimental neuropsychological techniques to examine functions controlled by the brain's prefrontal cortex – focusing on how these functions are modulated by brain chemicals such as dopamine and serotonin and how this part of the brain develops in healthy adolescents. She teaches courses related to neuropsychological assessment, brain-emotion relations, and abnormal psychology. She is affiliated with the clinical psychology program, with the

psychology department's cognitive and biological area, and with the Institute of Child Development. When she isn't working, she likes spending time with her family, reading, and going to movies. She also has interests in art and Italian cooking.

**TRAVEL IN LITERATURE: SCANDINAVIANS
ABROAD AND ABROAD IN SCANDINAVIA**

Poul Houe, German, Scandinavian and Dutch

SCAN 1905, Section 001

3 credits

Tuesday and Thursday, 12:45 – 2:00 p.m.

East Bank, Minneapolis

55749

A recent observer notes: "Scandinavians are the world's busiest travelers..." This seminar investigates experiences of Scandinavians going abroad and of foreigners coming to Scandinavia. Narratives by immigrants, refugees, exiles, and participants in mass tourism; sober accounts by professional explorers; and today's books on travel to and from Scandinavia – all offer insights into the complexity of a culture. Readings include selections from H. C. Andersen, Fredrika Bremer, and Knut Hamsun; fictional autobiographies by the Norwegian-American Ole Rølvaag and the Dane Isak Dinesen/Karen Blixen (whose *Out of Africa* will be supplemented with Sidney Pollack's 1985 Oscar-winning movie); Thor Heyerdahl's account of his Kon-Tiki expedition across the Pacific by raft; 20th century travel books about Africa by Sven Lindqvist and India by Carsten Jensen, as well as 21st century texts about Afghanistan and Iraq by Åsne Seierstad. Danish vagabond Jacob Holdt's modern multi-media presentation of "American Pictures" will be counterbalanced by interviews featuring Americans in Denmark.

Poul Houe's recent publications include *En Anden Andersen – Og Andres, Søren Kierkegaard and the Word(s): Essays on Hermeneutics and Communication*, and *August Strindberg and the Other: New Critical Approaches*. Ed. with Göran Stockenström and Sven H. Rossel.

RACE, RELIGION, AND MIGRATION

Elizabeth Boyle, Sociology

SOC 1902H, Section 001

3 credits

CLE: Cultural Diversity

Tuesday and Thursday, 11:15 a.m. – 12:30 p.m.

East Bank, Minneapolis

55858

How do race and religion bring people together, and how do they set people apart? What role do these characteristics play in the reception individuals receive when they migrate from one country to another? How are societies changed, culturally and economically, by new migrant communities? In this seminar, we will begin with a brief history of global migrations, categories of migrants, and how migration has changed in the United States. We will then focus on these questions. The seminar will conclude with questions of how and why countries (or international organizations) adopt particular policies relating to migration. Throughout the seminar, we will draw frequently on current events to illustrate or contest established understandings of migration.

Elizabeth Boyle studies migration and the expansion of rights in the global system. She is currently working on a comparison of views toward Islam in Europe and the United States. She really liked *Dirty Pretty Things*, a British movie about immigrants living on the edge.

**LOS REVOLUCIONARIOS/AS:
REVOLUTIONARY THINKERS FROM THE
SPANISH-SPEAKING WORLD**

Amy Saar, Spanish and Portuguese

SPAN 1909W, Section 001

3 credits

CLE: International Perspectives & Writing

Intensive

Monday and Wednesday, 11:15 a.m. – 12:30 p.m.

46 Folwell Hall, East Bank, Minneapolis

This seminar examines the writings, speeches, and actions of revolutionary thinkers originating in the Spanish-speaking world. We will study thinkers and political activists such as Simón Bolívar, Ernesto 'Che' Guevara, Fidel Castro, Rigoberta Menchú, Emiliano Zapata, Pancho Villa, Buenaventura Durruti, and Dolores Ibárruri 'La Pasionaria' among others. We will examine how these thinkers challenged convention and convinced others of their ideas. Taking a two-pronged approach, we will consider both the messages of each thinker within the context of his or her political circumstance while simultaneously taking into account how these thinkers are perceived today. Part of our

analysis will be to examine how these *revolucionarios* are appropriated into and consumed by contemporary culture, and whether or not their original messages still ring true for today's political and cultural climate. This seminar is conducted entirely in English.

Amy Saar is interested in "all things Spanish." Her curiosity is particularly piqued when working with and teaching contemporary Spanish narrative, especially if it deals with expression of the urban space. Outside of the University's bell jar she can usually be found walking her dog, Zuzu, somewhere along the Mississippi River, and is more than likely dreaming about traveling to Spain.

IMAGES OF YOUTH

Michael Baizerman, Social Work

SW 1905, Section 001

2 credits

Thursday, 3:00 – 5:45 p.m.

70 Peters Hall, St. Paul

48003

Youth are the subjects of a variety of popular media which treat them as a market and as consumers. Media are basic to the diffusion of youth culture and life-styles; media are central players in the articulation and sustentation of youth moral panics, such as adolescent pregnancy and parenting, drug use, gangs, school shootings, school drop-out rates and the like. This course critically explores the place of youth in present, visual and aural media and the place of these media in the everyday lives of teenagers, adolescents and young people, in the United States and internationally.

Mike Baizerman has been at the University since 1972, teaching courses in youth development and is active in youth civic engagement work in Northern Ireland and in other divided and contested societies.

BECOMING COMFORTABLY MULTILINGUAL: WHAT'S THE BEST WAY TO DO IT?

**Andrew D. Cohen, Institute for Linguistics, English
as a Second Language, & Slavic Languages and
Literatures**

TESL 1904, Section 001

3 credits

CLE: Cultural Diversity

Monday, Wednesday and Friday, 2:30 – 3:20 p.m.

108 1701 University, East Bank, Minneapolis

No matter what career you end up choosing, your opportunities for employment and advancement will be enhanced if you are multilingual. As you begin the study of foreign languages at the university level, do you

wonder what combination of language programs would give your language skills the biggest boost – moving from tolerable to comfortable language skills? There is solid research documenting the effectiveness of different approaches to becoming multilingual.

This seminar will consider the various program alternatives that are available to you – including formal university offerings, Web-based courses, summer immersion camp experiences, accelerated or crash courses, study abroad, autonomous learning, and more. This exploration will include the study of published research on alternatives for language learning in and out of class, and a small-scale study with observation of two or more such alternatives and interviews with participants. We will consider factors such as learning style preferences, language learning strategies, and learner motivation, as well as the nature of the institutional program, the contribution that the home and family play, and societal conditions. This exploration is intended to enhance your own current and future efforts at success in becoming a functional multilingual.

Andrew D. Cohen was a Peace Corps volunteer in Bolivia working in community development with the Aymara Indians. He taught at UCLA and at the Hebrew University of Jerusalem, and was a Fulbright Lecturer/Researcher in Brazil before joining the University of Minnesota. He has coauthored a guidebook for enhancing language and culture strategies in Study Abroad, and has developed websites for enhancing the learning of speech act behavior among students of Japanese and Spanish. Cohen enjoys teaching courses on second language learning, language assessment, and pragmatics. His current project is to develop a self-access website with strategies for learning Spanish grammar.



EXPLORING THE ARTISTIC AND CULTURAL LANDSCAPE OF THE TWIN CITIES

Michael Sommers, Theatre Arts and Dance
TH 1905, Section 001
3 credits
Thursday, 6:30 – 9:30 p.m.
West Bank, Minneapolis
55604

The landscape of the performing and visual arts in the Twin Cities grows out of a multitude of disciplines and aesthetics, from the traditional to the contemporary, from the tribal to the experimental, from world renowned cultural institutions to independent galleries and storefront theatres. Students in this seminar will explore this rich, diverse spectrum of art and culture that surrounds the University of Minnesota campus.

The seminar will start at “home” exploring the University’s own West Bank Arts Quarter, Weisman Art Museum, Bell Museum and other arts venues. We will then take to the field, visiting nine distinct neighborhoods that are home to arts institutions, theatres, galleries, studios, and diverse cultural centers. We will take behind-the-scenes tours, experience artists’ creative process, attend alternative performances, and discover the pockets of culture that are in the University’s “backyard.” The seminar will host a series of discussions with guest artists, movers and shakers, and academics prominent on the cultural scene. This seminar is for the practitioner, the arts enthusiast, or those interested in learning more about the vital Twin Cities arts community.

Michael Sommers has worked professionally as a designer, director, composer, performer and technician. Locally he has worked at the Guthrie Theater, Children’s Theatre, Theatre de la Jeune Lune, The Jungle Theater, Frank Theatre, Minnesota Opera, and 10,000 Things, among others. He has designed and directed in Seattle, Chicago, Denver and Louisville. In 2000 he co-founded Open Eye Figure Theatre, whose original work has been produced at the Walker Art Center in Minneapolis and in New York, Chicago, Washington, D.C., Mexico, and Germany.

THEATRE WITH ATTITUDE

David Bernstein, Theatre Arts and Dance
TH 1911W, Section 001
3 credits
CLE: Writing Intensive
Thursday, 6:30 – 9:30 p.m.
550B Rarig Center, West Bank, Minneapolis
31519

This seminar will introduce non-theatre majors to the richness and diversity of live theatre, through performance and text. We will attend performances at a variety of Twin Cities theatres and use this experience to develop a critical eye and a critical language for thinking about live performance. Our viewing will be supplemented by in-class discussions and talks with theatre and dance professionals.

David Bernstein has thirty years of professional management and artistic experience in the nonprofit theatre world. He is a founding member of the Attic Theatre in Detroit and founder/managing director of the Performing Network in Ann Arbor.

FROM FASHION TO FASHIONING A WORLD: MAGAZINES AS CULTURAL OBJECTS

Tom Reynolds, Writing Studies
WRIT 1910W, Section 001
3 credits
CLE: Writing Intensive
Tuesday, 12:45 – 3:15 p.m.
229 Lind Hall, East Bank, Minneapolis
44551

This seminar will provide students interested in journalism, art, English, fashion design, and other majors the opportunity to study magazines and smaller publications as significant cultural objects. Topics for discussion and writing will include different forms of magazine writing and reading, magazine art, magazine production as political statement, magazine audience reception, and current forms of ’zines and e-zines. Students will learn about both familiar and new publications, discussing and writing about those texts as cultural artifacts as they form new academic interests and reading habits. They will also study the magazines as “composed” objects that can help them learn about their own writing.

Tom Reynolds’ research and teaching focuses on ways that magazines “teach” us how to live our everyday lives and with what cultural assumptions. He is interested in exploring written and visual elements with students and particularly enjoys working with first-year students.

ADDITIONS SINCE THE PRINTING OF THE *EXPLORATIONS* BOOKLET:

CROSS-CULTURAL STUDIES OF CHILDREN

Michael Maratsos, Institute of Child Development

CPSY 1904, Section 001

3 credits

CLE: International Perspectives Theme

Tuesday, 10:10 a.m. – 12:30 p.m.

East Bank, Minneapolis

56222

Most people feel that something central about human nature is shown by the ways that people raise and treat children. It seems natural to us that parents would be motivated largely by unselfish love and concern for their children. But the historical and anthropological literature shows a much wider range of what is natural. Indeed, historians and anthropologists often find themselves taken aback at the apparent cruelty or disregard for children's welfare that parents and society seem to display in a great many human cultures, in contrast to the benevolence or warmth that is ordinary in others. In this seminar we will become better acquainted with this extraordinary variation, and how it arises from the interaction of human biological potential with the ever-changing environments that humans evolve for themselves.

Michael Maratsos has been at the University since 1972, teaching courses on child development, the biological foundations of development, and language development, and honors courses on nonrational thought and cross-cultural development. He has received awards for distinguished research contributions from the American Psychological Association (APA) and the developmental division of APA.