

## HDV 102 First-Year Seminars

### HDV 102.1: Ethics and College Student Life

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

Location: Hamilton 010

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

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



**Deborah Firestone, School of Health Technology & Management**

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

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

### HDV 102.2: Science: How People Produce Knowledge

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

Location: Life Sciences 022

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

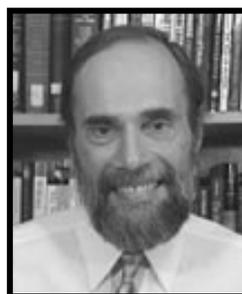


**Joanne Souza, Biochemistry and Cell Biology**

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

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

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



**Paul Bingham, Biochemistry and Cell Biology**

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

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

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

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### **HDV 102.4: Great Cases in US Legal History**

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

Location: Social and Behavioral Sciences N405

**Susan Hinely**, *History*

### **HDV 102.5: Bioethics and Society**

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

Location: Social and Behavioral Sciences N405

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

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



### **Neta Dean**, *Biochemistry and Cell Biology*

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

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### HDV 102.6: Big Science versus Small Science

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

Location: Physics P-119

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

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



#### **Peter Paul, *Physics and Astronomy***

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

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

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

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### HDV 102.7: Rituals, Ceremonies and Traditions

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

Location: Library N3090

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



#### **Jerrold Stein, *Student Affairs/Dean of Students***

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

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

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

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

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

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

#### **Theresa Tiso, *Physical Therapy/SHTM***

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

### **HDV 102.9: The World According to Google**

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

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



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

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### HDV 102.10: Script Development and Play reading Workshop

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

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



#### **Steven Marsh, Theatre Arts**

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

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

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

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

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

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



#### **Rong Zhao, Computer Science**

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

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

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

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

Location: Computer Science 1310

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

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

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

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

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

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

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



**Robert Kelly, Computer Science**

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

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

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

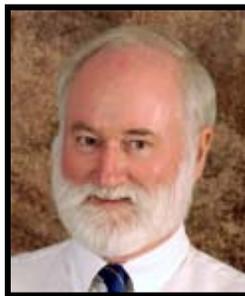
### HDV 102.13: Parliamentary Debating

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

Location: Endeavour 113

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

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



**Malcolm Bowman, School of Marine and Atmospheric Sciences**

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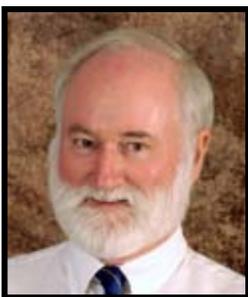
### HDV 102.14: The Baked Apple: NY City in the Greenhouse

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

Location: Endeavour 113

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

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



**Malcolm Bowman**, *School of Marine and Atmospheric Sciences*

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### HDV 102.15: Medicine and the Media

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

Location: Social Behavioral Sciences N405

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

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

### **Catherine Marrone**, *Sociology*

This course explores the politics of representation, identity, difference, race, class, gender and other socio-cultural issues that beset Asian Americans through the critical inquiry and practice of expressive forms of performance, dance, theater, music, stand-up and sketch comedy. An important component of this course is the attendance and appreciation of these expressive forms through required readings, watching programs, and substantive response papers.

Throughout the course, students participate in theatrical exercises which provide the basic skills of stagecraft and dramatic expression for the creation of a performance piece that is part of a culminating project entitled “Who is Asia American?” to be performed in the Wang Center.

Thus, you will be required to watch four performances, three of which I will assign, one you can choose from a prescribed list. A three page paper is required for each performance. There is no textbook as such since you will be required to watch ticketed performances. There will be a list of references which you can read on your own and use for your papers.

Your active participation in the class discussion and classroom exercises are also required. Your active attention and critique of your classmates’ presentations are also required.

Please wear comfortable clothing that you can move in such as sweat pants, sneakers for the exercises.

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

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

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



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

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

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### HDV 102.17: Health Care and the US Political Party System

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

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

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

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

**Janet Youngblood, School of Health Technology & Management**

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

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### HDV 102.18: The Human Connection

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

Location: Hamilton 010

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

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



**Kathy Bratby**, *School of Nursing*

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

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

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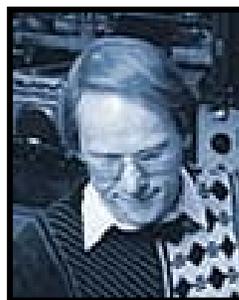
### HDV 102.19: What It Means to Be Human

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

Location: Hamilton 010

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

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



**Andreas Mayr**, *Chemistry*

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

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

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### HDV 102.20: Surviving the First Year

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

Location: Health Science Center

Level 2 Seminar Room 1B

*Note: This class meets in the Health Science Center.*

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

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



**Barbara Messina, School of Nursing**

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

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

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

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

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

Location: Library N3090

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

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



**Denise Snow, School of Nursing**

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

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

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

Location: Rockland 111

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

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

#### **Alice Urbankova, General Dentistry**

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