

# Course Bulletin

<b>100105</b>	<b>Bioterrorism: Risks and Defense Strategies</b>			
Subject:	Catalog Nbr:			
CMPH	0010			
2018 SPRG	Primary	Sam Telford III		Sam.Telford@tufts.edu

<b>100488</b>	<b>Social and Behavioral Science</b>			
Subject:	Catalog Nbr:			
CMPH	0118			
2018 FALL	Primary	Anthony Schlaff		anthony.schlaff@tufts.edu
<p>This course explores the interconnections between society, behavior, and health. Students learn to conceptualize a health problem from a population perspective that emphasizes the social determinants of health. Through case studies, students examine different determinants of health, strategies for improving the health of communities and individuals in those communities, and strategies to affect individual and group behavioral change.</p>				

<b>100508</b>	<b>Introduction to Health Services</b>			
Subject:	Catalog Nbr:			
CMPH	0122			
2018 SPRG	Primary	Richard Glickman-Simon		richard.glickman-simon@tufts.edu
2018 SPRG	Primary	Amy Lischko		Amy.Lischko@tufts.edu
2018 SPRG	Primary	Anthony Schlaff		anthony.schlaff@tufts.edu
<p>An overview of the theory, organization, policies, politics, and practices that have shaped personal health care services in the United States. Students learn about the forces that influence the substance and process of health care delivery and financing. They also are challenged to think about ways in which various stakeholders, including health professionals (clinical and administrative), commercial interests, governmental officials, and the public have come to interact in the evolution of health care delivery systems.</p>				

<b>100568</b>	<b>Epidemiology</b>			
Subject:	Catalog Nbr:			
CMPH	0130			
<p>Concepts and tools necessary to understand biomedical experiments and epidemiologic investigations. Statistical and epidemiological techniques are used to analyze public health and biomedical data for decision making. Students learn to identify potential problems in public health and biomedical studies and how they can be minimized or avoided. Major epidemiological study designs are delineated.</p>				

<b>100606</b>	<b>Biostatistics</b>			
Subject:	Catalog Nbr:			
CMPH	0132			
<p>Biostatistical procedures used in the majority of biomedical investigations. Emphasizes the use of each</p>				

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procedure, how and when to apply it, and how to interpret the results. Each lecture is followed by a computer laboratory session that requires students to use appropriate methods when analyzing a specific data set. Students progress from a reading knowledge of biostatistics to the beginnings of conversant facility.

<b>100648</b>	<b>Applications of Communications Theory</b>			
	Subject:	Catalog Nbr:		
	CEMR	0614		
<p>Health communication is primarily concerned with the role of theory, research, and practice in health promotion, education, and delivery. Students will investigate provider-patient interaction, social support networks, health information systems, medical ethics, mass media, health policy, and health promotion and disease prevention. Students will learn about the integral nature of communication in health including: the role communication plays in shaping individuals' social and cultural expectations and beliefs about health, how such information may influence people to think differently about health and affect behavioral change, and how communication vehicles may be used to redefine and change public policy about health and health behavior. Students can expect to learn through assigned readings, cases and projects, exams, and class interaction.</p>				

<b>100683</b>	<b>Healthcare Organization: Budgeting &amp; Management</b>			
	Subject:	Catalog Nbr:		
	CMPH	0136		
	2018 SPRG	Primary	Mark Haas	Mark.Haas@tufts.edu
<p>This course focuses on cost accounting and budgeting in health services, nonprofit financial statement preparation, and the formulation of strategic business plans within the context of economic health policy. Students learn managerial theory and practice pertaining to organizational behavior, information systems, personnel, resource allocation, consensus building and prioritization of goals, conflict resolution, and negotiation strategies.</p>				

<b>100736</b>	<b>Integration of Public Health</b>			
	Subject:	Catalog Nbr:		
	CMPH	0151		
	2018 FALL	Primary	Anthony Schlaff	anthony.schlaff@tufts.edu
	2018 FALL	Primary	Marieke Rosenbaum	Marieke.Rosenbaum@tufts.edu
<p>This course is designed to help MD/MPH and DVM/MPH students integrate their clinical, scientific, and public health education both conceptually and in regards to future career planning and development. The course provides continuity throughout the course of medical or veterinary school, allowing each student to develop a mentoring relationship with at least two faculty members. The course is designed in part to ameliorate the potential perceptions of discontinuity created by the spreading out of an 18 month curriculum over 4 years. The course is designed to help prepare a student for the Applied Learning Experience (ALE) and to increase the likelihood that the ALE will be of sufficient scope, depth and quality to allow for a final paper suitable for publication.</p>				

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<b>100795</b>	<b>Global Population Health</b>			
Subject:	Catalog Nbr:			
CMPH	0170			
2018 FALL	Primary	Marieke Rosenbaum	Marieke.Rosenbaum@tufts.edu	

<b>100913</b>	<b>Introduction to Environmental &amp; Occupational Hlth</b>			
Subject:	Catalog Nbr:			
CMPH	0203			
2018 SPRG	Primary	Barry Levy	barry.levy@tufts.edu	
<p>This course discusses major occupational and environmental health issues and methods of prevention and control. Using health histories, students identify and obtain relevant information on occupational and environmental health issues, describe relevant laws and regulations as well as roles of governmental and non-governmental agencies. Students develop the skills necessary to be effective risk communicators when explaining occupational and environmental health risks to the public.</p>				

<b>100920</b>	<b>Media Strategies for the Health Professional</b>			
Subject:	Catalog Nbr:			
CEMR	0651			
<p>Students develop an understanding of the strategic use of the media by health communicators in message development and communication strategy execution. Students also explore the ethical concerns of health care professionals who utilize the media. Students learn how to develop effective health communication campaigns that bring about behavioral change among target audiences and influence health policy issues at the local, state, national, and international level. In addition, students learn how to develop evaluation techniques for health communication strategies.</p>				

<b>100939</b>	<b>Social Marketing</b>			
Subject:	Catalog Nbr:			
CEMR	0652			
<p>This course focuses on changing the voluntary behaviors of a society (e.g., smoking cessation, diet and exercise habits). Students learn how to apply marketing techniques and concepts to social contexts like preventive health, education, and politics. As part of the course requirements, students must complete a marketing audit of a not-for-profit organization involved in social marketing. In addition, cases and exercises allow students to develop their skills and knowledge in this area.</p>				

<b>100952</b>	<b>Law And Public Health</b>			
Subject:	Catalog Nbr:			
CMPH	0204			
2018 FALL	Primary	Marcia Boumil	marcia.boumil@tufts.edu	

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This course describes the legal basis for public health. Basic principles of malpractice, informed consent, defenses to legal liability, and health care regulation at the state and federal level are discussed. Students present and analyze the ethical and legal obligations of physicians and veterinarians on issues such as allocation of scarce resources, termination of treatment, intervention on behalf of minor children, people with disabilities, and the elderly.

<b>100992</b>	<b>Legal Basis Of Public Health Veterinary Medicine</b>			
Subject:	Catalog Nbr:			
CMPH	0207			
2018 SPRG	Primary	Michael McGuill		Michael.McGuill@tufts.edu
<p>This course describes the legal basis for public health. Basic principles of public health and health care regulation at the state and federal level are reviewed. The course materials are available on line by the CDC and are supplemented by program faculty.</p>				

<b>101029</b>	<b>Public Health Field Experience</b>			
Subject:	Catalog Nbr:			
CMPH	0208			
2018 FALL	Primary	Anthony Schlaff		anthony.schlaff@tufts.edu
2018 SUMR	Primary	Marcia Boumil		marcia.boumil@tufts.edu
<p>For their core field experience, students complete a field placement (minimum of 200 hours) in a public, private, or volunteer public health practice organization during the summer following the first year of study. Students may choose from a prepared list of local, national, and international placements or arrange an alternative placement. Each student works with a public health practitioner/mentor on a project which is beneficial to the host agency. The summer field experience is designed to provide students with an opportunity to integrate their knowledge and develop their skills in a practitioner's environment. Students present their project to faculty and students upon completion of their eight-week experience.</p>				

<b>101105</b>	<b>Integration of Public Health</b>			
Subject:	Catalog Nbr:			
CMPH	0251			
2018 FALL	Primary	Anthony Schlaff		anthony.schlaff@tufts.edu
2018 FALL	Primary	Marieke Rosenbaum		Marieke.Rosenbaum@tufts.edu
<p>This course is designed to help MD/MPH and DVM/MPH students integrate their clinical, scientific, and public health education both conceptually and in regards to future career planning and development. The course provides continuity throughout the course of medical or veterinary school, allowing each student to develop a mentoring relationship with at least two faculty members. The course is designed in part to ameliorate the potential perceptions of discontinuity created by the spreading out of an 18 month curriculum over 4 years. The course is designed to help prepare a student for the Applied Learning Experience (ALE) and to increase the likelihood that the ALE will be of sufficient scope, depth and quality to allow for a final paper suitable for publication.</p>				

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<b>101123</b>	<b>Applied Learning Experience: Planning Seminar</b>			
Subject:	Catalog Nbr:			
CMPH	0253			
2018 FALL	Primary	Ylisabeth Bradshaw		libby.bradshaw@tufts.edu
<p>This capstone experience provides students with an opportunity to integrate and apply their knowledge and skills to addressing a genuine public health problem. Students develop a proposed service or research project in collaboration with an organization engaged in public health practice. Faculty assist students in identifying, negotiating, and crafting a suitable project. Students develop a formal plan for project implementation. After obtaining formal approval for their project plan (including Institutional Review Board review if necessary), student spend a minimum of 160 hours in the field, implementing their project, written as if for publication, and give a formal presentation to the faculty and their peers.</p>				

<b>101178</b>	<b>Research Methods</b>			
Subject:	Catalog Nbr:			
CMPH	0288			
2018 FALL	Primary	Thomas Stopka		Thomas.Stopka@tufts.edu
2018 SUMR	Primary	Jo Linder		Jo.Linder@tufts.edu
<p>This course introduces students to both qualitative and quantitative research methods. Emphasis is placed on identifying which methods are most appropriate for answering a specific research method, and on preparing students for doing independent work in their Applied Learning Experience.</p>				

<b>101235</b>	<b>Obesity Science &amp; Policy</b>			
Subject:	Catalog Nbr:			
CMPH	0303			
<p>This course will introduce students to the “obesity epidemic”, the epidemiology of obesity, current ideas on causes and consequences of obesity, and measurement methodologies. We will emphasize pediatric issues and disparities research. Using local and national examples, we will assess obesity prevention and intervention strategies that range from individual- to environmental- to policy-level approaches. The course will review the role of physical activity and nutrition in obesity development and prevention. Students will practice writing grants and design a research study or an intervention plan that addresses an aspect of healthy weight promotion. The course is intended to provide students with practical information and skills for working in community-based public health or clinical settings.</p>				

<b>101254</b>	<b>Health Informatics: Using Technology to Transform Healthcare</b>			
Subject:	Catalog Nbr:			
CMPH	0304			
<p>Health Informatics examines the use of technology to collect, manage, exchange, and analyze clinical information. This relatively new discipline gained greater prominence when the American Recovery and Reinvestment Act designated more than \$19 billion dollars towards bolstering the health information technology infrastructure across the country. In this course we will explore why a strong information</p>				

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technology infrastructure is critical for delivering safer cost-effective care and how it can greatly enhance public health monitoring and reporting. Students will gain an appreciation for some of the latest technologies that are changing the way healthcare is delivered, measured, researched, and taught. The course will also examine the major obstacles to implementing some these technologies and the regulatory/legal parameters currently in place.

<b>101271</b>	<b>Adolescent Health</b>
Subject: CMPH	Catalog Nbr: 0305
<p>Adolescent health, risk behaviors, prevention, and intervention programs will be examined in relation to adolescent physical, psychosocial, and cognitive development. Topics will include theories of behavioral change, access to health care, guidelines for preventive services, outcomes research, health policy, and alternatives sites for care. Risk behaviors, including injury, violence, suicide, substance use, and sexuality, will be explored. Focus will be domestic, with examples of federal, state, and community-based adolescent health initiatives.</p>	

<b>101345</b>	<b>Global Health</b>
Subject: CMPH	Catalog Nbr: 0312

<b>101367</b>	<b>Health Equity and the Social Determinants of Health</b>
Subject: CMPH	Catalog Nbr: 0313
<p>Racial/ethnic health disparities have been well documented, and the contributions of socio-environmental factors to health outcomes are well understood. Poverty, education, and elements of the built environment are associated with health behaviors and the dramatic increase in chronic diseases. These social determinants of health are preventable, as are the conditions they can contribute to. Efforts to reduce disparities should encourage physicians to integrate the social determinants into their practice and consider them in their delivery of care. This requires cultural competency and a contextualized understanding of health and illness, and an ecological approach to the practice of medicine that can look beyond the body to provide more effective care and treatment. This is an advanced seminar-style elective course that builds on the first year course Scientific Foundations of Social and Behavioral Medicine, and thus assumes basic knowledge of health disparities and matters of race/ethnicity and class in the US. Course content is focused on racial/ethnic health disparities, the social determinants of health, and the development of cultural competency skills and values. Topics covered will include allostatic load, social stratification, and the relationship between institutions and their policies, and the programs and services they provide. The course will also provide skill development in cultural competence, the interpersonal aspects of care, and strategies for working with diverse population groups, with a focus on the new immigrant communities. The course will challenge students to integrate course content with what they have experienced in their clerkships and to develop strategies to integrate the social determinants into clinical practice.</p>	

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<b>101404</b>	<b>Clinical Epidemiology</b>		
Subject:	CMPH	Catalog Nbr:	0321
	2018 SPRG	Primary	Olaf Dammann
			Olaf.Dammann@tufts.edu
<p>This course is designed to offer an overview of clinical epidemiology concepts at the introductory level. Clinical decision making requires background knowledge in three important areas of epidemiology: risk estimation, diagnosis, and intervention. The course will cover these topics based on textbook readings, current literature examples, clinical vignettes, and group discussion.</p>			

<b>101455</b>	<b>Organizational Behavior</b>		
Subject:	CRBR	Catalog Nbr:	0253

<b>101476</b>	<b>Ops Mgmt In Service Orgs</b>		
Subject:	CRBR	Catalog Nbr:	0258

<b>101519</b>	<b>Social Policy Analysis</b>		
Subject:	CRBR	Catalog Nbr:	5326

<b>101537</b>	<b>Organic Chem Lab II</b>		
Subject:	CRBU	Catalog Nbr:	0208

<b>101558</b>	<b>Intermediate Microecon</b>		
Subject:	CRBU	Catalog Nbr:	0303

<b>101567</b>	<b>Elements of Data Analysis &amp; Visualization</b>		
Subject:	CMPH	Catalog Nbr:	0343

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<b>101577</b>	<b>Behavioral Economics</b>
Subject: CRBU	Catalog Nbr: 0323

<b>101588</b>	<b>Survey Methods</b>
Subject: CMPH	Catalog Nbr: 0345

<b>101639</b>	<b>Biostatistics</b>
Subject: CRBU	Catalog Nbr: 0703

<b>101642</b>	<b>Integration Of Public Health</b>		
Subject: CMPH	Catalog Nbr: 0351		
2018 FALL	Primary	Anthony Schlaff	anthony.schlaff@tufts.edu
2018 FALL	Primary	Marieke Rosenbaum	Marieke.Rosenbaum@tufts.edu
<p>This course is designed to help MD/MPH and DVM/MPH students integrate their clinical, scientific, and public health education both conceptually and in regards to future career planning and development. The course provides continuity throughout the course of medical or veterinary school, allowing each student to develop a mentoring relationship with at least two faculty members. The course is designed in part to ameliorate the potential perceptions of discontinuity created by the spreading out of an 18 month curriculum over 4 years. The course is designed to help prepare a student for the Applied Learning Experience (ALE) and to increase the likelihood that the ALE will be of sufficient scope, depth and quality to allow for a final paper suitable for publication.</p>			

<b>101684</b>	<b>Applied Learning Experience: Orientation &amp; Planning</b>		
Subject: CMPH	Catalog Nbr: 0353		
2018 SPRG	Primary	Ylisabeth Bradshaw	libby.bradshaw@tufts.edu
<p>This capstone experience provides students with an opportunity to integrate and apply their knowledge and skills to addressing a genuine public health problem. Students develop a proposed service or research project in collaboration with an organization engaged in public health practice. Faculty assist students in identifying,</p>			



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negotiating, and crafting a suitable project. Students develop a formal plan for project implementation. After obtaining formal approval for their project plan (including Institutional Review Board review if necessary), student spend a minimum of 160 hours in the field, implementing their project, written as if for publication, and give a formal presentation to the faculty and their peers.

<b>101721</b>	<b>Ethics and Law in Public Health and Medicine</b>		
	Subject:	Catalog Nbr:	
	CMPH	0354	
<p>This course will begin with a brief overview of the history and tradition of bioethics and four major ethical theories - as background for applying an ethical framework to contemporary legal and policy issues in public health and clinical medicine. This year's content issues include: resource allocation and access to services pursuant to the Affordable Care Act, organ donation and end of life issues, conflicts of interest within clinical medicine and the pharmaceutical/medical device industry, physician and institutional handling of medical errors, special issues concerning mental health, and the finance of health care. The course does not overlap with CMPH 204 or CMPH 333.</p>			

<b>101736</b>	<b>Health Of Lgbt Pop.</b>		
	Subject:	Catalog Nbr:	
	CRBU	0708	

<b>101756</b>	<b>Biology Of Public Health</b>		
	Subject:	Catalog Nbr:	
	CRBU	0709	

<b>101760</b>	<b>Participatory and Community-Based Approaches to Epidemiological Research</b>		
	Subject:	Catalog Nbr:	
	CMPH	0358	
	2018 FALL	Primary	Jeffrey Mariner
			Jeffrey.Mariner@tufts.edu
<p>This course is designed to be a practical introduction to epidemiological and service delivery methodologies that stress participation and community ownership. The course will combine a minimal amount of introductory lecture with in-class participatory learning exercises and discussion. The course will first look at the underlying concepts of participation and community-based development. Thereafter, the sessions will focus on specific methods and students will be asked to complete a group project using these skills. The group projects will consist of participatory assessments conducted within the University community on a health related theme. The course will close with sessions on community-based health care and the policy and institutional frameworks required for sustainable community-based programs. At the end of the course, students should be adequately prepared to conduct a mentored summer research project in participatory epidemiology.</p>			

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<b>101797</b>	<b>Financial Reporting And</b>	
	Subject:	Catalog Nbr:
	CRBU	0711

<b>101804</b>	<b>Legal, Ethical, and Policy Issues in Maternal and Child Health</b>	
	Subject:	Catalog Nbr:
	CMPH	0362
<p>This course will address some of the legal, ethical and policy issues relating to maternal and child health. Specific topics will include: women's reproductive health, child and sexual abuse, domestic violence, youth violence, illegal immigration and sexual harassment. Introductory material will include the Americans with Disabilities Act and the Family Medical Leave Act. (The subject matter of this class does not overlap with ETHICS IN MEDICINE AND PUBLIC HEALTH, the elective taught by Prof. Boumil on alternate years).</p>		

<b>101816</b>	<b>Confronting Non-Communic</b>	
	Subject:	Catalog Nbr:
	CRBU	0712

<b>101858</b>	<b>Case Studies In Health &amp; Human Rights</b>	
	Subject:	Catalog Nbr:
	CMPH	0377
<p>The course is based in an activist posture, which asserts that a theoretical understanding of the literature and analytic strategies of a human rights based approach to public health will inform leaning and practice throughout the life of a public health physician. The course introduces the theories, analyses, models, and methods used in human rights based practice as employed by health providers and policy makers. The eight sessions are interactive, using a variety of readings, outside speakers, student projects, and interactive discussions, workshops to allow students to develop skills needed to help shape further engagement with Human Rights throughout the medical school and medical training. It is an activist process informed by analytic material. It will build on the described experience of students, particularly those engaged with Physicians for Human Rights to create a broader environment in which the lens of Human Rights will be available to scrutinize public health and medical work.</p>		

<b>101913</b>	<b>Clinical Epidemiology of Cardiovascular Disease</b>	
	Subject:	Catalog Nbr:
	CMPH	0392
<p>The primary objective is to give students a basic understanding of the clinical epidemiology of cardiovascular disease, and the primary and secondary risk factors for its occurrence. This course will briefly review the major</p>		

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observational and intervention studies in the field of cardiovascular epidemiology and cover various research designs and the analytical methods, their strengths and weaknesses, and common applications. A secondary objective is to help students critically review scientific literature, interpret epidemiologic research appropriately, and to place the findings into proper context with regard to public health implications.

<b>102113</b>	<b>Child Nutr Disease Prvtn</b>			
	Subject:	Catalog Nbr:		
	CRBU	0742		

<b>102154</b>	<b>Eval/intl Health Prgrms</b>			
	Subject:	Catalog Nbr:		
	CRBU	0745		

<b>102230</b>	<b>The Shape Of Hc Delivery</b>			
	Subject:	Catalog Nbr:		
	CRBU	0755		

<b>102308</b>	<b>Integration Of Public Health</b>			
	Subject:	Catalog Nbr:		
	CMPH	0451		
	2018 FALL	Primary	Marieke Rosenbaum	Marieke.Rosenbaum@tufts.edu
<p>This course is designed to help MD/MPH and DVM/MPH students integrate their clinical, scientific, and public health education both conceptually and in regards to future career planning and development. The course provides continuity throughout the course of medical or veterinary school, allowing each student to develop a mentoring relationship with at least two faculty members. The course is designed in part to ameliorate the potential perceptions of discontinuity created by the spreading out of an 18 month curriculum over 4 years. The course is designed to help prepare a student for the Applied Learning Experience (ALE) and to increase the likelihood that the ALE will be of sufficient scope, depth and quality to allow for a final paper suitable for publication.</p>				

<b>102328</b>	<b>Applied Learning Experience</b>			
	Subject:	Catalog Nbr:		
	CMPH	0453		
	2018 FALL	Primary	Ylisabeth Bradshaw	libby.bradshaw@tufts.edu
	2018 SPRG	Primary	Anthony Schlaff	anthony.schlaff@tufts.edu

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<b>102371</b>	<b>Maternal &amp; Child Health</b>
Subject: CRBU	Catalog Nbr: 0785

<b>102449</b>	<b>Urban Environmental Hlth</b>
Subject: CRBU	Catalog Nbr: 0807

<b>102529</b>	<b>Mathemat. Modeling In Ph</b>
Subject: CRBU	Catalog Nbr: 0820

<b>102532</b>	<b>Directed Study</b>		
Subject: CMPH	Catalog Nbr: 0499		
2018 SPRG	Primary	Ylisabeth Bradshaw	libby.bradshaw@tufts.edu
2018 SPRG	Primary	Marcia Boumil	marcia.boumil@tufts.edu
2018 SPRG	Primary	Anthony Schlaff	anthony.schlaff@tufts.edu
2018 SPRG	Primary	Jo Linder	Jo.Linder@tufts.edu
2018 SPRG	Primary	Saul Weingart	Saul.Weingart@tufts.edu
2018 SUMR	Primary	Marieke Rosenbaum	Marieke.Rosenbaum@tufts.edu
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<b>102569</b>	<b>Epidemiology of Zoonotic Infections</b>
Subject: CMPH	Catalog Nbr: 0655
This course seeks to provide health professionals with the basis for evaluating risks and formulating	

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prevention and intervention strategies for outbreaks or endemic transmission of zoonotic infections. Each session is structured with a vertical component comprising general principles, and a horizontal component comprising a case study of a specific agent that illustrates the general principles.

<b>102574</b>	<b>Categorical Data Analy.</b>
Subject: CRBU	Catalog Nbr: 0821

<b>102680</b>	<b>Evaluating Hc Quality</b>
Subject: CRBU	Catalog Nbr: 0837

<b>102701</b>	<b>Hlth Law, Bioethics</b>
Subject: CRBU	Catalog Nbr: 0840

<b>102741</b>	<b>Aplied Stat Modeling &amp;</b>
Subject: CRBU	Catalog Nbr: 0845

<b>102760</b>	<b>Lgl Strat To Reduce Risk</b>
Subject: CRBU	Catalog Nbr: 0850

<b>102819</b>	<b>Modeling In Excel</b>
Subject: CRBU	Catalog Nbr: 0880

<b>102861</b>	<b>Quant Meth &amp; Mod For Ph</b>
Subject: CRBU	Catalog Nbr: 0890

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<b>102880</b>	<b>Us Food Policy &amp; Culture</b>
Subject: CRBU	Catalog Nbr: 0891

<b>124904</b>	<b>Directed Study</b>
Subject: HCOM	Catalog Nbr: 0400

<b>124994</b>	<b>Epidemiology-Biostatistics: Reading Medical Lit.</b>
Subject: HCOM	Catalog Nbr: 0502
<p>Lectures and small group exercises introduce students to the concepts and methods of epidemiology and biostatistics. The course is divided into two components. The initial component presents basic methods for measuring disease frequency and for quantifying relationships between determinants of health and medical and/or public health outcomes. Students are also provided with fundamental skills for the critical evaluation of biomedical and epidemiological literature. The second part of the course explores in detail the principles of epidemiological research design and their application to a critical evaluation of the literature.</p>	

<b>125061</b>	<b>Introduction to Medicine</b>
Subject: HCOM	Catalog Nbr: 0504
2017 FALL	Primary
Richard Glickman-Simon	richard.glickman-simon@tufts.edu
<p>This course is a survey of clinical medicine as it is practiced by physicians and other health care providers in Western countries. During the first half of the course, students are introduced to basic human physiology, pathophysiology and the fundamentals of clinical medicine including history taking, the physical examination, diagnostic testing and modern therapeutics. The second half of the course is designed to apply this information to the most prevalent diseases that plague the developed world. Issues pertaining to population medicine and public health, health promotion and disease prevention, behavioral influences on health and alternative medicine are also covered in the context of applicable disease states.</p>	

<b>125156</b>	<b>Digital Health: How to Design, Develop, and Evaluate Health Websites</b>
Subject: HCOM	Catalog Nbr: 0506
2017 FALL	Primary
Lisa Gualtieri	Lisa.Gualtieri@tufts.edu

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The course teaches the skills to design health websites, and redesign existing ones, to provide sites that are appealing, usable, and effective at achieving their goals. You will learn how to meet the needs of your target user population through developing personas and scenarios, how to learn from and differentiate your site from competitors' sites through competitive analysis, and how to conduct formative and heuristic evaluations to improve site effectiveness. The course covers the different types of content, including how to create expert-generated content, how to solicit and manage user-generated content, how to select imagery, and how to select a site name, tagline, and logo. For the course project, you will design a new health website or redesign an existing one using the skills you learn in class.

<b>125198</b>	<b>Technology and Design for Public Health</b>			
Subject:	Catalog Nbr:			
HCOM	0508			
2018 FALL	Primary	Michelle Samplin-Salgado	Michelle.Samplin_Salgado@tufts.edu	
<p>HCOM 508 explores the role of technology and software programs used to create health communication materials. At some point in your career as a health communicator, you will likely be asked to 1) create something (promotional materials, an online video, or a website); 2) hire someone to create something; or 3) oversee someone or a group of people who will create something. As a health communication professional, familiarizing yourself with technology and design terms and concepts will help you communicate effectively with designers, developers, videographers, printers, photographers, and other creative professionals. Each creative discipline has its own language, and during this course you will gain the skills and confidence to communicate with creatives, clients, contractors, and colleagues. We will pay particular attention to balancing the design/development process with technical terminology and skills. Core software includes Adobe Photoshop and InDesign, though we will explore basic features in WordPress and advance features in Microsoft Word. During this class, we will also explore eHealth trends in creating online communication (video and web). This 7-week course will be a blended learning experience, with three classes taught in person and four taught online via WebEx. Additional lab sessions and one-on-one assistance will be made available for additional support and assistance with the computer programs used in the class.</p>				

<b>125227</b>	<b>Health Literacy</b>			
Subject:	Catalog Nbr:			
HCOM	0509			
2018 FALL	Primary	Sabrina Kurtz-Rossi	Sabrina.Kurtz_Rossi@tufts.edu	
<p>Understanding the relationship between health and literacy is essential to the development of effective health communication. National assessments of adult literacy have raised serious concerns about the ability of nearly half the adult population in the U.S. to access and use health information and services (NALS 1992, NAAL 2003, PIAAC 2012). Low health literacy is a barrier to effective health communication, affects health care quality and contributes to health disparities. To address these issues the Institute of Medicine calls for increasing "knowledge, awareness, and responsiveness to health literacy among health service providers" (IOM 2005). The U.S. Department of Health and Human Services recommends that health service providers be trained in health literacy, plain language, and culturally and linguistically appropriate services (CLAS) and use those skills to create patient-centered best practices (DHHS, 2010).</p>				

# Course Bulletin

To raise awareness among health professionals regarding health literacy as a public health priority, the Health Communication Program at the Tufts University School of Medicine offers a skills oriented seminar in health literacy. This course explores the link between literacy, language and culture and how systems barriers impact access to health information and quality health care services. Students practice writing and speaking in plain language, and consider how to apply health literacy research to practice. The course provides an overview of the health literacy interventions being tried in a variety of sectors and explores opportunities for collaboration across fields.

<b>125275</b>	<b>Patient-Provider Interaction</b>			
Subject:	Catalog Nbr:			
HCOM	0510			
2018 SUMR	Primary	Ylisabeth Bradshaw	libby.bradshaw@tufts.edu	
<p>This course provides an overview of patient-provider interactions, surveying the field from initial conceptual communication models to the current development of participatory decision-making, examining the significant public health and policy implications. Various providers and their inter-relationships are included, and recent health care financing and regulatory influences explored. Differences in provider and patient goals are analyzed; methods for analyzing patient-provider interactions, and measuring patient satisfaction and quality are reviewed. Health disparities, and the effects of age, gender, ethnicity, race, and class on interaction are examined; policy challenges are debated. Different types of encounters are explored - health promotion and risk communication, issues around dying and death, acute pain and trauma, and chronic pain and other disabilities. The public health significance and adverse effects of patient-provider interactions (decreased patient adherence, poor health outcomes, medical errors, and increased malpractice) are detailed and policy alternatives framed. Types of communication excellence are highlighted, and progressive improvements in interaction quality and effectiveness are examined.</p>				

<b>125295</b>	<b>Writing about Health and Medicine</b>			
Subject:	Catalog Nbr:			
HCOM	0511			
2017 FALL	Primary	Amy Behrens	Amy.Behrens@tufts.edu	
<p>Effective health communicators can write for a variety of lay audiences and produce clear, accurate and appropriate content that works for digital health platforms and traditional print venues. This course is designed to develop basic skills for researching and writing about health and medicine-related topics for the public. We expect students to enter the course with varying writing experience. Through a series of individual and collaborative exercises, students will further develop their writing, revision, and editing skills to produce content for different social media platforms, blogs, websites, and print. By the end of the course students should be well on their way to developing a clear, fluent, and readable style using plain language principles. Assignments include writing messages for a variety of social media platforms and writing a blog post, fact sheet, research summary, and feature article. Please note that HCOM 511 is not a remedial writing course. Students whose writing is less than graduate level should enroll in a remedial writing course prior to enrollment in HCOM 511.</p>				

<b>125367</b>	<b>Digital Strategies For Health Communication</b>			
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# Course Bulletin

Subject: Catalog Nbr:

HCOM 0512

2018 SUMR

Primary

Lisa Gualtieri

Lisa.Gualtieri@tufts.edu

This one-week course covers how to develop and implement a digital strategy to drive a health organization's online presence, specifically the processes for selecting, using, managing, and evaluating the effectiveness of web, social media, and mobile technologies. Learn from Tufts faculty and distinguished guest speakers how to: use the web, social media, and mobile devices to communicate with and connect to patients; develop a coherent and justifiable digital strategy for health communication; select, use, manage, and evaluate the effectiveness of technologies; define your mobile presence with apps and mobile-enabled sites; employ research-based methodologies such as persona development and formative evaluation; use best practices from leading health organizations including Consumer Reports, Harvard Health Publications, Massachusetts Medical Society, and CDC. The course touches upon health communication theory, formative evaluation, and search engine optimization (SEO). Each year the course includes a case study for the week and hands-on team work during the course is used to revise the digital strategy for that organization.

**125378**

## Writing for Public Health Professionals

Subject: Catalog Nbr:

HCOM 0513

This course will teach the skills necessary to write documents essential to public health professionals, including a slide presentation, memorandum, and literature review. Students will develop skills to write clear, strategic, and accurate workplace documents. We expect students to enter the course with varying writing experience. Through a series of individual and collaborative exercises students will further develop their writing, revision and editing skills. Please note that HCOM 513 is not a remedial writing course. Students whose writing is less than graduate level should enroll in a remedial writing course prior to enrollment in HCOM 513.

**125435**

## Social Media and Health

Subject: Catalog Nbr:

HCOM 0514

2018 SPRG

Primary

Lisa Gualtieri

Lisa.Gualtieri@tufts.edu

Social media is revolutionizing health communication. Hospitals, health plans, public health organizations, government agencies, pharmaceuticals, and countless start-ups are on social media - Facebook, Twitter, YouTube, blogs, Pinterest, and other technologies - to reach new populations and engage healthcare consumers in new ways. Best practices have emerged for how healthcare organizations use social media technologies for health communication. The goal of this course is to provide the knowledge and skills to select and use social media appropriately for a healthcare or public health organization based on these best practices. The course will use case studies and bring in guest speakers from a variety of organizations to demonstrate how effective social media use is dependent on goals, resources, policies, and metrics.

**125455**

## Mobile Health Design

Subject: Catalog Nbr:

HCOM 0515

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2018 SUMR	Primary	Bradley Moore	Bradley.Moore@tufts.edu
<p>This online course examines the impact and potential of mobile devices for health. Using design methodologies, students will conceptualize and design health apps and devices that incorporate evidence-based guidelines and capitalize on the mobility, portability, and input and output capabilities of smartphones and tablets. We will consider the user experience: how healthcare consumers locate health apps and decide to download and try them; how they use health apps and devices and why they sustain or abandon use; and studies of health benefits, focusing on how they educate, connect, track, and remind. We will also examine global use of mobile devices. The course is a mixture of lecture and discussion, with guest lecturers bringing their expertise and perspectives, and work in teams to design health apps using the techniques covered in class. A final paper will be required as well. Course lecture and discussions will use WebEx and Google+ Hangouts.</p>			

<b>125478</b>	<b>Health Literacy Leadership Institute</b>		
Subject: HCOM	Catalog Nbr: 0517	2018 SUMR	Primary
	Sabrina Kurtz-Rossi	Sabrina.Kurtz_Rossi@tufts.edu	
<p>This one-week Institute is an advanced professional development opportunity for professionals and students looking to apply health literacy principles to transform public health and healthcare delivery in the United States and across the globe. Working professionals and students interested in pursuing careers in health literacy are encouraged to attend. Students learn from faculty and guest instructors highly regarded for their pioneering work in medical education, adult literacy, and program evaluation. Peer learning and the sharing of research and best practice are central to the Institute's educational approach. Throughout the week, students work on a health literacy project of their choice resulting in a final product that is directly applicable, informed by research, and reflective of best practice.</p>			

<b>125550</b>	<b>Changing Health Behaviors: Healthy People and Communities</b>		
Subject: HCOM	Catalog Nbr: 0522	2017 SUMR	Primary
	Margie Skeer	Margie.Skeer@tufts.edu	
	Uchenna Ndulue	Uchenna.Ndulue@tufts.edu	
	Linda Hudson	Linda.Hudson@tufts.edu	
<p>Students are provided with an overview of how health interventions are developed and evaluated. The course takes a social ecological approach and emphasizes the role of community engagement in health promotion. We begin with discussion of the social determinants of health and the scientific basis for understanding individual health behavior. Drawing on theory and practice students learn how program planners conduct needs assessments, set goals and objectives, develop intervention materials and messages, and evaluate outcomes. Students work in teams to develop a proposal in response to a grant solicitation</p>			

<b>125608</b>	<b>Applied Learning Project/Seminar in Health Comm</b>		
Subject: HCOM	Catalog Nbr: 0525		

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2017 FALL	Primary	Erin Hennessy	erin.hennessy@tufts.edu
<p>The Applied Learning Experience (ALE), itself, provides students with a culminating educational experience that will give them the opportunity to integrate and apply theory and skills they have acquired in the program to address a health communication problem in a work setting. A secondary goal is to provide students with the opportunity to produce a body of work reflective of their abilities that can be used in seeking employment upon graduation. Both a report and oral presentation are required. The ALE Seminar provides students with faculty and peer support and feedback on their applied learning projects as they develop and complete this final program requirement. The seminar also provides a structured opportunity to learn about each other's projects. Practical topics discussed include principles of program administration and management, budgeting, developing an Institutional Review Board Application, conducting a literature review, documenting methods, building a resume in health communication, conducting a site report, and oral presentation tips.</p>			

<b>125714</b>	<b>Health, Culture And Communication</b>		
Subject: HCOM	Catalog Nbr: 0536		
<p>This seminar-designed course examines the role, function and conceptualization of defining health, illness, preventive health behavior, and the definition of health using "culture" at the core of the organizing framework. The intent is to prepare students who are effective, critical and analytic in their approach to conceiving, conceptualizing, developing and delivering health promotion/disease prevention communication interventions. In the United States specifically, there is a predictable and current shift in population demographics regarding formerly titled "majority" and "minority" populations, as well as an increase in diverse populations immigrating to this country. Along with that shift we anticipate preparing ourselves to address the health needs of a diversity of populations including the development and implementation of communication interventions and campaigns that are effective, collaborative, and authentically developed. Students should be prepared with knowledge to address communication strategies from a perspective that includes analysis and understanding of their own "cultures" and those of their populations of interest.</p>			

<b>125804</b>	<b>Public Relations</b>		
Subject: HCOM	Catalog Nbr: 0543		
<p>This course provides an overview of theory and research concerning the role of public relations in public health. It focuses on the design, implementation and evaluation of public relations efforts to influence current issues such as the national health plan, the rising cost of the uninsured and the implementation of health communication campaigns, among other topics. In addition, students will analyze social media press releases and learn the fundamentals of writing and producing press releases.</p>			

<b>125849</b>	<b>Professional Communication</b>		
Subject: HCOM	Catalog Nbr: 0544		
2018 SPRG	Primary	William Lancaster	William.Lancaster@tufts.edu
<p>The course is designed to provide students with knowledge, experience, and practical skills in public presentations. Students will learn how to organize, research, support, and deliver impromptu, informative,</p>			

# Course Bulletin

and persuasive presentations, as well as manage a press conference in a simulated crisis situation. Through lectures, discussions, exercises, applications, and written assignments, students will be able to increase their communication competence so that they can communicate more effectively in their field now and in the future.

<b>125895</b>	<b>Adult Learning Theory for Public Health Practice</b>			
Subject:	Catalog Nbr:			
HCOM	0547			
<p>So much of what we do in our work to improve quality of life and health outcomes involves teaching and training. Whether it's educating a hospital executive, training community members, or teaching nutrition abroad, knowing when and how people learn best and what motivates them is critical to success. Whether you are engaged in one-on-one instruction or working with groups, adult learning theory can provide the nuts and bolts to support the development of approaches that both raise awareness and promote action. This course will prepare you to be an excellent educator, and provide you with a foundation for the development of effective behavior change programs through a review of adult learning theory, hands-on application of teaching strategies and techniques, and the development of measurable objectives to evaluate effectiveness.</p>				

<b>128127</b>	<b>Principles of Epidemiology</b>			
Subject:	Catalog Nbr:			
PH	0201			
2017 FALL	Primary	Luc Djousse	Luc.Djousse@tufts.edu	
2018 FALL	Primary	Mark Woodin	mark.woodin@tufts.edu	
2018 FALL	Primary	Laura Corlin	Laura.Corlin@tufts.edu	
2018 SPRG	Primary	Mei Chung	Mei_Chun.Chung@tufts.edu	
2018 SUMR	Primary	Olaf Dammann	Olaf.Dammann@tufts.edu	
<p>This course provides an introduction to the epidemiological perspective on health and disease. The course emphasizes the principles and methods used to describe and evaluate the patterns of illness in communities and in population subgroups. Methods and research designs used in the investigation of the etiology of infectious and noninfectious disease are presented. Lectures and laboratory examples illustrate a wide range of contemporary health problems.</p>				

<b>128209</b>	<b>Occupational and Environmental Health</b>			
Subject:	Catalog Nbr:			
PH	0204			
2017 SUMR	Primary	David Gute	david.gute@tufts.edu	
2018 FALL	Primary	Beth Rosenberg	beth.rosenberg@tufts.edu	
2018 FALL	Primary	Douglas Brugge	doug.brugge@tufts.edu	
2018 SPRG	Primary	Jennifer Evans	Jennifer.Evans@tufts.edu	
2018 SUMR	Primary	Jamie Tessler	Jamie.Tessler@tufts.edu	
<p>This course examines current topics in the area of occupational and environmental health, with particular emphasis on the types of materials that produce human health effects. Both clinical and epidemiological data are used to assess the public health importance of environmental pollutants and to evaluate the effectiveness</p>				

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of control strategies.

<b>128254</b>	<b>Principles of Biostatistics</b>			
Subject:	Catalog Nbr:			
PH	0205			
2018 FALL	Primary	David Tybor	david.tybor@tufts.edu	
2018 FALL	Primary	Misha Eliasziw	Misha.Eliasziw@tufts.edu	
2018 SPRG	Primary	Alice Tang	alice.tang@tufts.edu	
2018 SUMR	Primary	Mark Woodin	mark.woodin@tufts.edu	
<p>This course provides an introduction to the basic principles and applications of statistics as they are applied to problems in clinical and public health settings. Topics include the description and presentation of data, random variables and distributions, descriptive statistics, introduction to probability, estimation, elements of hypothesis testing, and one- and two-sample tests, ANOVA (including repeated-measures), non-parametric tests, and an introduction to linear and logistic regression. Lectures, problem sets, and computer output are used to develop these and additional concepts. Graduate standing.</p>				

<b>128297</b>	<b>Intermediate Biostatistics</b>			
Subject:	Catalog Nbr:			
PH	0206			
2018 FALL	Primary	Kenneth Chui	Kenneth.Chui@tufts.edu	
<p>A variety of topics related to modeling continuous, binary, and survival time outcomes in terms of multiple risk factors are explored. Topics covered include the analysis of variance and covariance, linear regression, multiple linear regression, nonlinear regression, logistic regression, non parametric regression, and regression for survival times, including proportional hazard models. Emphasis is on the practical aspects of model construction, model checking, and model prediction. Applications and computer methods are stressed. Graduate standing.</p>				

<b>128420</b>	<b>Law In Public Health</b>			
Subject:	Catalog Nbr:			
PH	0210			
2018 SPRG	Primary	Marcia Boumil	marcia.boumil@tufts.edu	
2018 SPRG	Primary	Barbara Fain	Barbara.Fain@tufts.edu	
<p>This course explores the complex and evolving legal environment surrounding the public health and health care delivery systems. Issues include those related to tobacco-related injuries and Medicaid litigation, personal injury liability for toxic substance exposure, end-of-life decision making, medical malpractice, and insurance company regulation and liability. In analysis of these topics, the interrelationship of the levels and branches of government will be noted. Also, the course incorporates basic descriptions of financing mechanisms and providers in the US health care system.</p>				

<b>128500</b>	<b>Health And Law Ethics</b>			
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Subject:	Catalog Nbr:			
PH	0214			
2018 SUMR	Primary	Alice Noble		Alice.Noble@tufts.edu
<p>Introduces students to the legal issues that health care professionals confront in managing a health care organization. Begins with patient care (liability) issues and thereafter provides an overview of other health care delivery issues such as the legal structure of corporations, healthcare finance and managed care, intellectual property and healthcare entitlement programs such as Medicare and Medicaid. Students become familiar with the basic legal principles governing how health care institutions are operated and how legal doctrines are formulated. The course also familiarizes students with the emerging ethical issues in healthcare management.</p>				

<b>128536</b>	<b>Public Health &amp; Healthcare: Politics, Policies and Programs</b>			
Subject:	Catalog Nbr:			
PH	0215			
2017 SUMR	Primary	Uchenna Ndulue		Uchenna.Ndulue@tufts.edu
2018 FALL	Primary	Amy Lischko		Amy.Lischko@tufts.edu
<p>An overview of the theory, organization, policies, politics, and practices that have shaped public health and health care services in the United States. Students learn about the forces that influence the substance and process of public health and health care delivery. They also are challenged to think about ways in which various stakeholders, including health professionals (clinical and administrative), commercial interests, governmental officials, and the public have come to interact in the evolution of public health and health care delivery systems. The issues of access, cost, quality and health disparities are used to frame aspects of theory, policy, and practice as well as to help evidence some of the opportunities and challenges in the integration of public health and health care services. Finally, students are exposed to some quantitative and qualitative tools and methods used by practitioners in public health planning and in fostering community involvement.</p>				

<b>128574</b>	<b>Health Care Organization: Budgeting and Management</b>			
Subject:	Catalog Nbr:			
PH	0216			
2018 FALL	Primary	Mark Haas		Mark.Haas@tufts.edu
<p>This course focuses on cost accounting and budgeting in health services, nonprofit financial statement preparation, and the formulation of strategic business plans within the context of economic health policy. Students learn managerial theory and practice pertaining to organizational behavior, information systems, personnel, resource allocation, consensus building and prioritization of goals, conflict resolution, and negotiation strategies.</p>				

<b>128597</b>	<b>Negotiation and Conflict Resolution</b>			
Subject:	Catalog Nbr:			
PH	0217			
2018 FALL	Primary	Marcia Boumil		marcia.boumil@tufts.edu
<p>This course is designed to provide students with the theory and core skills required for successful negotiation</p>				

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and other forms of conflict resolution. Students will learn about strategies for negotiation and be required to practice their skills in simulation exercises. The goal of the course is to provide a systematic framework for mastering the fundamentals of negotiation strategy for effective conflict resolution, including: (1) understanding the role of various relationships in determining negotiation strategy; (2) recognizing when negotiation is not being undertaken in good faith; (3) learning effective strategies for reaching agreements upon favorable terms; and (4) identifying strengths and weaknesses in each student's personal negotiating style.

128674	Cardiovascular Epidemiology			
Subject: PH	Catalog Nbr: 0220			
2017 FALL	Primary	Luc Djousse	Luc.Djousse@tufts.edu	
This course reviews the epidemiology of cardiovascular disease, including the major cardiovascular diseases, related conditions, emerging risk factors, and current controversies. The principal methods used, and their limitations, will also be discussed. Both historically important and current research will be presented. Grades are based on participation in class discussions, brief written paper critiques, and an in-class presentation.				

128693	Methods of Public Health Inquiry			
Subject: PH	Catalog Nbr: 0221			
2017 FALL	Primary	Megan Lehnerd	Megan.Lehnerd@tufts.edu	
2018 FALL	Primary	Pietra Check	Pietra.Check@tufts.edu	
2018 SPRG	Primary	Fernando Ona	Fernando.Ona@tufts.edu	
This course will provide students with an introduction to the general principles and basic techniques appropriate for the investigation of public health issues. Topics covered include the research process, formulating research questions and hypotheses, developing a research and evaluation plan, variables, measurement, validity, data collection, qualitative research, survey, evaluation, mixed methods, community-based approaches for research and evaluation, and ethics. This course will serve as a foundation for building your research toolbox, providing insight into how your chosen research question guides your choice of method. Strategies for engaging communities, research and evaluation with diverse populations, and translational research and dissemination approaches will also be explored. Conceptual understanding is a primary goal of this course. In addition, students will learn key concepts to clearly define, articulate, and implement a research project in a variety of public health contexts.				

128726	Survey Research Methods			
Subject: PH	Catalog Nbr: 0222			
2018 FALL	Primary	Kim Dong	kimberly.dong@tufts.edu	
2018 FALL	Primary	Reece Lyerly	Reece.Lyerly@tufts.edu	
2018 SPRG	Primary	David Tybor	david.tybor@tufts.edu	
This course uses real world examples to introduce students to basic survey methodology and data management. Students have the opportunity to practice the fundamentals of good survey design and how to				

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enter, code and clean the data one collects. Topics include formulating research questions, sampling, sample size determination, linking instruments to conceptual frameworks, principles of item construction and scale development, modes of survey administration, and qualitative methods. During the laboratory component of the course, students learn how to develop and maintain a documentation system, create data entry screens, verify the accuracy of data entry, clean data, merge and subset data files, derive new variables, conduct descriptive analyses and summarize results.

<b>128781</b>	<b>Infectious Disease Epidemiology</b>			
Subject:	Catalog Nbr:			
PH	0224			
2018 FALL	Primary	Alice Tang		alice.tang@tufts.edu
<p>This course focuses on the epidemiological aspects of infectious diseases, concentrating on the epidemiology of bacterial and viral infections. Emphasis is placed on concepts of transmission and prevention. In addition, epidemiological problems are presented to explore how epidemiology is used to understand "new" diseases such as Legionella, AIDS, and Lyme disease.</p>				

<b>128804</b>	<b>Qualitative Tools for Public Health Research and Programs</b>			
Subject:	Catalog Nbr:			
PH	0225			
2018 FALL	Primary	Fernando Ona		Fernando.Ona@tufts.edu
2018 SUMR	Primary	Carolyn Rubin		Carolyn.Rubin@tufts.edu
<p>The course is aimed at integrating specific qualitative research methods, including the use of interviews, focus groups, and content analysis, as well as the analysis of the resulting data. Students are required to work on several small weekly assignments that allow them to practice specific methods and foster development of qualitative research skills. They are also required to present examples of qualitative research in class, illustrating both research design and data analysis. By the end of the semester, students will understand how to form research questions appropriate for qualitative methods, integrate qualitative and quantitative methods, and use the tools of qualitative data collection and analysis.</p>				

<b>128846</b>	<b>Cancer Epidemiology and Prevention</b>			
Subject:	Catalog Nbr:			
PH	0226			
<p>This course is aimed at providing students with an introduction to cancer epidemiology and cancer prevention. The topics in this course will review known and suspected cancer risk factors; discuss descriptive data on cancer rates; address methodological issues and limitations in assessing causality; discuss potential opportunities for primary and secondary cancer prevention. Students will be expected to present a selected topic on a current topic in cancer, providing opportunities to discuss cutting-edge research areas in the field.</p>				

<b>128957</b>	<b>Public Health Economics</b>			
Subject:	Catalog Nbr:			



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PH	0234			
	2018 FALL	Primary	Naomi Sacks	Naomi.Sacks@tufts.edu
<p>Economics is the study of how societal forces influence decisions about the use of resources. Public and private decisions about expenditures effect the production and distribution of all goods and services. Students will learn about the flow of resources, including allocation of resources by government entities. The course will examine issues of how supply and demand drive the availability of resources. How can individuals and organizations influence the flow of resources in public health and health generally? The impact of health issues on economics in the broader sense will be discussed. Economic analysis will be applied to the study of policy and research issues in public health.</p>				

<b>128978</b>	<b>Advanced Public Health Economics</b>			
Subject:	Catalog Nbr:			
PH	0235			
	2018 SPRG	Primary	Naomi Sacks	Naomi.Sacks@tufts.edu
<p>This course will build upon the material covered in MPH 234, namely the basics of health economics. This course is ideal for people who will be taking MPH 234 first, or who have - at the college level - previously taken Health Economics, or have extensive coursework in general economics where you know a fair amount of microeconomics (markets, supply/demand, elasticities, marginal analysis).</p>				

<b>129044</b>	<b>Pharmacoepidemiology, Bioethics and Reg Policy</b>			
Subject:	Catalog Nbr:			
PH	0239			
	2017 SUMR	Primary	Paul Beninger	Paul.Beninger@tufts.edu
<p>This course will give a broad overview of bioethics and regulatory policy in the field of Pharmacoepidemiology. It will focus on various issues, including but not limited to the importance of bioethics in shaping statutes, policies and procedures for the development of medical products, the major organizations that play a role in drug development, the fundamentals of clinical pharmacology and the role of regulatory processes in all aspects of pharmacoepi. Prerequisite: Completion of Core Epi course or instructor consent.</p>				

<b>129083</b>	<b>Environmental Epidemiology</b>			
Subject:	Catalog Nbr:			
PH	0240			
<p>Environmental epidemiology may be defined as the epidemiological study of the disease consequences of exposures that are involuntary and that occur in the general environment. This course will emphasize the use of epidemiologic techniques to better understand exposures that result from contaminants in air, water, soil and diet. Specific topics and their relevance to environmental epidemiology will include cluster analysis, ecologic studies, risk assessment and measurement error. The course will also provide participants with an improved understanding of the importance and means of study appropriate for selected environmental pollutants. The course will draw upon examples of environmental epidemiology presently being conducted at Tufts, in certain cases through invited lectures, as a means of illustrating epidemiologic methods or in providing a more in-depth understanding of the agent and exposure pathways. The course will be conducted in a seminar format featuring interactive discussion and small group exercises.</p>				

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<b>129099</b>	<b>Biology of Water and Health</b>			
Subject:	Catalog Nbr:			
PH	0241			
2018 FALL	Primary	David Gute		david.gute@tufts.edu
2018 FALL	Primary	Jeffrey Griffiths		jeffrey.griffiths@tufts.edu
<p>Emphasis is placed on participants understanding the biology of water and health. Participant will demonstrate knowledge of the central role of water in health, including adequate hydration. Detailed coverage of selected prototypic or model disease which include Schistosomiasis, Cryptosporidiosis, cholera, and others. Participant will become familiar with widespread chemical agents and their interactions with pathogens. Participants will demonstrate a familiarity with the appropriate methods of assessing the occurrence of water borne disease. Participants will become knowledge about the principal methods of controlling the propagation of water-born disease. Participants will become knowledgeable social and institutional factors influencing sanitation and water treatment decision and the subsequent impacts on a variety of health indices.</p>				

<b>129159</b>	<b>Research Methods in Global Hlth</b>			
Subject:	Catalog Nbr:			
PH	0244			
2018 SPRG	Primary	Odilia Bermudez		odilia.bermudez@tufts.edu
<p>The globalization of health information is growing exponentially, although with different degrees of interpretability and usefulness. It is imperative for advancing the global health research agenda to gather, interpret and apply high-quality global health research data in a timely manner. The course on Research Methods in Global Health is focused on providing students with knowledge, critical appraisal skills, and data management and analysis techniques that will let them function successfully as global health researchers.</p>				

<b>129224</b>	<b>Global Health Priorities and Approaches</b>			
Subject:	Catalog Nbr:			
PH	0247			
2018 SPRG	Primary	Tamsin Knox		tamsin.knox@tufts.edu
<p>This course examines current and emerging health issues in developing and industrialized countries. Students learn to define the nature, determinants, and impact of selected health problems in selected countries and describe the pattern of morbidity and mortality at country level and by geographic region. Students are introduced to data sources and health service delivery. Considerations at the local, national, and regional levels, including sources of funding, the role of culture in health and disease, and the global impact of health, are explored.</p>				

<b>129257</b>	<b>Introduction to Global Health and Development</b>			
Subject:	Catalog Nbr:			
PH	0248			

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2018 FALL	Primary	Fernando Ona	Fernando.Ona@tufts.edu
<p>This semester long course addresses global health disparities. Students will compare various healthcare systems with the help of lectures, discussions and country studies. The objective of the course is to identify the root causes of health disparities among and within nations related to primary healthcare, gender, ethnicity and microhabitat issues. The course reviews important healthcare milestones and challenges and addresses emerging trends that have impacts on global health. Demographic trends will be used as a tool to quantify those disparities and progresses. Health governance will be addressed extensively linking healthcare to the roles of international organizations, non-governmental organizations (those for profit and not for profit) and governments.</p>			

<b>129329</b>	<b>Maternal &amp; Child Health Policy in the US</b>		
Subject: PH	Catalog Nbr: 0260	2018 FALL	Primary
	Katherine Flaherty	Katherine.Flaherty@tufts.edu	
<p>This course will explore the components of maternal and child health in the context of historical, legislative and social policies and background. Perinatal, early childhood, child and adolescent health will be presented from an ecological and life course perspective. Topics such as injury and violence, nutrition, immunization, children with special health care needs and health disparities that cross-cut the developmental stages will be focused on in more depth. The aim of this course is to provide an introduction to maternal and child health programs, policies and issues and how a public health approach can enable states and communities to plan and implement comprehensive integrated systems that reduce the risks and enhance the protective factors leading to positive outcomes for children, adolescent and families. How current factors and changes in family structure, social systems and economic stability may impact and shape current and future maternal and child policies and services will be discussed.</p>			

<b>129350</b>	<b>Maternal &amp; Child Health: A Global Perspective</b>		
Subject: PH	Catalog Nbr: 0261	2017 FALL	Primary
	Odilia Bermudez	odilia.bermudez@tufts.edu	
<p>Maternal and Child Health: Global Perspective, introduces students to the principles and practices of public health as it relates to women of childbearing age and children from infancy through adolescence. It provides an introduction to current major health issues and examines service deliveries designed to meet the health needs of women and children globally. During the course, special attention is given to the impact of nutrition, poverty, racial inequities on the health of families, and strengths that individuals and communities bring to the creation of health solutions. Emphasis is placed on shared learning through case studies, group discussions, and presentations.</p>			

<b>129371</b>	<b>Introduction To SAS</b>		
Subject: PH	Catalog Nbr: 0265	2018 FALL	Primary
	Rachel Silver	Rachel.Silver@tufts.edu	
	David Tybor	david.tybor@tufts.edu	

# Course Bulletin

This intensive course will introduce students to the concepts and syntax necessary for basic data management and analysis using the SAS System for Windows. Emphasis will be placed upon learning methods for data manipulation and gaining the necessary skills to prepare data for statistical analysis. SAS procedures for descriptive statistics will be covered, and methods for data visualization will be introduced. Weekly homework assignments and in-class exercises will allow students to gain practical experience solving SAS programming problems.

129523	Evaluation Of Health Programs			
Subject:	Catalog Nbr:			
PH	0285			
2018 FALL	Primary	Susan Koch-Weser	Susan.Koch_Weser@tufts.edu	
2018 SPRG	Primary	Ranjani Paradise	Ranjani.Paradise@tufts.edu	
2018 SPRG	Secondary	Carolyn Fisher	Carolyn.Fisher@tufts.edu	
2018 SPRG	Secondary	Karen Finnegan	Karen.Finnegan@tufts.edu	
<p>This is an introductory course in Public Health Program Evaluation. Students will become familiar with how small-scale evaluations are designed and carried out in the context of public health practice. We will review the tools and data collection methods evaluators use to plan evaluations and collect appropriate data. Both qualitative and quantitative approaches will be addressed. Students will practice data collection skills and apply content and conceptual knowledge learned in the course to the development of an evaluation plan for an existing program.</p>				

129660	ALE: Planning Seminar			
Subject:	Catalog Nbr:			
PH	0301			
2017 FALL	Primary	Virginia Chomitz	Virginia.Chomitz@tufts.edu	
2018 FALL	Primary	Marcia Boumil	marcia.boumil@tufts.edu	
2018 FALL	Primary	Beth Rosenberg	beth.rosenberg@tufts.edu	
2018 FALL	Primary	Carolyn Rubin	Carolyn.Rubin@tufts.edu	
2018 SPRG	Primary	Linda Hudson	Linda.Hudson@tufts.edu	
2018 SUMR	Primary	Erin Hennessy	erin.hennessy@tufts.edu	
<p>In the planning semester students develop a proposed project in collaboration with an organization engaged in public health practice. Faculty assist students in identifying, negotiating, and crafting a suitable project. Students develop a formal plan for project implementation.</p>				

129682	ALE: Implementation Seminar			
Subject:	Catalog Nbr:			
PH	0302			
2018 FALL	Primary	Marcia Boumil	marcia.boumil@tufts.edu	
2018 FALL	Primary	Erin Hennessy	erin.hennessy@tufts.edu	
2018 FALL	Primary	Linda Hudson	Linda.Hudson@tufts.edu	
2018 SPRG	Primary	Virginia Chomitz	Virginia.Chomitz@tufts.edu	
2018 SPRG	Primary	Carolyn Rubin	Carolyn.Rubin@tufts.edu	

# Course Bulletin

2018 SUMR	Primary	Beth Rosenberg	beth.rosenberg@tufts.edu
After obtaining formal approval for their project plan (including Institutional Review Board review if necessary), student spend a minimum of 160 hours in the field, implementing their project, written as if for publication, and give a formal presentation to the faculty and their peers.			

<b>129700</b>	<b>JD/MPH ALE Planning Seminar</b>		
Subject: PH	Catalog Nbr: 0303		
In the planning semester students develop a proposed project in collaboration with an organization engaged in public health practice. Faculty assist students in identifying, negotiating, and crafting a suitable project. Students develop a formal plan for project implementation.			

<b>129720</b>	<b>Global Health ALE Planning</b>		
Subject: PH	Catalog Nbr: 0304		
2018 SPRG	Primary	Mireille Aramati	Mireille.Aramati@tufts.edu
In the planning semester students develop a proposed project in collaboration with an organization engaged in public health practice. Faculty assist students in identifying, negotiating, and crafting a suitable project. Students develop a formal plan for project implementation.			

<b>129759</b>	<b>Global Health ALE Field Work</b>		
Subject: PH	Catalog Nbr: 0305		
2017 SUMR	Primary	Mireille Aramati	Mireille.Aramati@tufts.edu
2018 SUMR	Primary	Odilia Bermudez	odilia.bermudez@tufts.edu

<b>129778</b>	<b>Global Health ALE Implementation</b>		
Subject: PH	Catalog Nbr: 0306		
2017 FALL	Primary	Mireille Aramati	Mireille.Aramati@tufts.edu
2018 FALL	Primary	Odilia Bermudez	odilia.bermudez@tufts.edu
After returning from their field work abroad, students complete a tutorial sequence with their instructor, give a formal presentation to the faculty and their peers and submit a final paper for their ALE work.			

<b>129796</b>	<b>Applied Learning Exp.</b>		
Subject: PH	Catalog Nbr: 0310		
2018 SUMR	Primary	Odilia Bermudez	odilia.bermudez@tufts.edu

# Course Bulletin

Combined ALE Planning and Implementation for CMC students.

129868	Directed Study			
Subject: PH	Catalog Nbr: 0400			
2017 FALL	Primary	Odilia Bermudez	odilia.bermudez@tufts.edu	
2017 FALL	Primary	Aviva Must	aviva.must@tufts.edu	
2017 FALL	Primary	Daniele Lantagne	Daniele.Lantagne@tufts.edu	
2017 SUMR	Primary	Anthony Schlaff	anthony.schlaff@tufts.edu	
2018 FALL	Primary	Fernando Ona	Fernando.Ona@tufts.edu	
2018 SPRG	Primary	Janet Forrester	janet.forrester@tufts.edu	
2018 SPRG	Primary	Alice Tang	alice.tang@tufts.edu	
2018 SPRG	Primary	David Tybor	david.tybor@tufts.edu	
2018 SPRG	Primary	Lisa Gualtieri	Lisa.Gualtieri@tufts.edu	
2018 SUMR	Primary	Marcia Boumil	marcia.boumil@tufts.edu	
2018 SUMR	Primary	Amy Lischko	Amy.Lischko@tufts.edu	
2018 SUMR	Primary	Thomas Stopka	Thomas.Stopka@tufts.edu	
Directed Study - Half Semester				

130140	Race, Culture, and Ethnicity			
Subject: PH	Catalog Nbr: 0542			
2017 FALL	Primary	Odilia Bermudez	odilia.bermudez@tufts.edu	
<p>This course examines the ideological, institutional, social, and professional dimensions of culture (including class, gender and sexual orientation as facets of group and personal identity), race and ethnicity, and their effects on health status, research, planning and service delivery. The course will also explore the role of history, power, and the economy as they relate to societal inequality among diverse cultural groups, and their influence on the current policies, institutional arrangements, service delivery models, and professional practices in health services. Cultural competency will be discussed, and more appropriate methods of practice will be analyzed.</p>				

130283	Neuroanatomy, Neurochemistry and Pharmacology of Pain			
Subject: PREP	Catalog Nbr: 0230			
2018 FALL	Primary	Daniel Carr	daniel.carr@tufts.edu	
2018 FALL	Primary	Steven Scrivani	Steven.Scrivani@tufts.edu	
<p>This course presents theory and research on the anatomical structures and physiological processes involved in the transmission and modulation of pain. Peripheral mechanisms, central mechanisms of nociceptive transmission, and the involvement of higher centers (thalamic nuclei and cortical areas) involved in pain are differentiated. In addition, the course presents information on the brain stem regions involved in modulation of nociceptive transmission, their interconnections, their spinal projections, and the effects of electrical or chemical stimulation. Opioid analgesia is distinguished from nonopioid forms of analgesia. In addition, the</p>				

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course presents the pharmacology of pain transmission and its modulation focusing on peripheral mechanisms; synaptic transmission in the dorsal horn; central sensitization; and the role of neurotransmitters in pain.

<b>130321</b>	<b>Pharmacoeconomics</b>			
Subject: PREP	Catalog Nbr: 0231			
<p>This class consists of a mix of lectures and discussions, split evenly between the methodology of pharmacoeconomics and the practical application of this discipline. The course is conducted as a series of lectures and seminars, and students are expected to contribute to the discussion in class. This course is taught at an introductory level, and prior knowledge of economics is not required. Students are introduced to key concepts in health economics, such as health care as an economic commodity, competition in the pharmaceutical and medical device industry, drug pricing and economic evaluations. The course also covers key areas of study design and data collection, both prospective and retrospective. Students learn to design and evaluate outcomes studies and assess the impact that these studies have on health care delivery.</p>				

<b>130363</b>	<b>Sociocultural and Ethical Aspects of Pain</b>			
Subject: PREP	Catalog Nbr: 0232			
2018 FALL	Primary	Pamela Ressler		Pamela.Ressler@tufts.edu
<p>Pain is a ubiquitous experience transcending space and time. The ways in which individuals experience pain, express pain, respond to pain and treatments prescribed for pain varies across these dimensions. In addition, public and institutional policies designed, proposed and implemented to relieve pain vary by time and geography. Pain is an individual as well as a group phenomenon. There is an uneven distribution of pain, and its associated chronic diseases in the US, and access to appropriate pain care appears to be inequitably distributed in the US as well. This course will present theory and research concerning factors (cultural, social, psychological, political, ethical and economic) related to pain assessment, pain treatment, receptivity to treatment and treatment outcomes. It will provide an overview of the epidemiology of pain as well as the clinical, societal and institutional policies to alleviate it. The importance of the patient/clinician relationship and the many factors that influence it will be emphasized throughout the course.</p>				

<b>130411</b>	<b>End of Life and Palliative Care Issues</b>			
Subject: PREP	Catalog Nbr: 0233			
2017 FALL	Primary	Lewis Hays		Lewis.Hays@tufts.edu
2018 SUMR	Primary	Pamela Ressler		Pamela.Ressler@tufts.edu
<p>Palliative care has emerged as a significant and legitimate interdisciplinary care model under strong medical leadership with a growing research and outcomes-based foundation. Palliative care and hospice services are generally underutilized and undervalued by healthcare professionals and the public, requiring a new approach to integration. This course provides a broad overview of palliative medicine practices, potential for integration into traditional medicine, with detailed attention to skills development in pain, symptom management, and communication as well as illumination of ethical, legal, public policy, and regulatory issues.</p>				

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<b>130453</b>	<b>Introduction to Clinical Pain Problems</b>			
Subject:	Catalog Nbr:			
PREP	0234			
2018 SPRG	Primary	Daniel Carr		daniel.carr@tufts.edu
2018 SPRG	Primary	Ewan McNicol		Ewan.McNicol@tufts.edu
<p>This course will introduce the general principles of biomedical evaluation and management of common clinical pain problems. It will present ways to evaluate the biomedical characteristics of the pain experience (temporal pattern, severity, location, quality, intensity and exacerbating and relieving factors). Students will become familiar with common standardized instruments to assess pain and pain-related outcomes. Students will learn to recognize the mechanisms of pain present in common clinical pain syndromes, to understand the rationale for current-day assessment and treatment of these problems by multiple healthcare disciplines, and to evaluate the impact of concurrent medical disease upon pain symptoms. Throughout the course, emphasis will be placed upon viewing superficially diverse pain syndromes as part of a fundamentally unified group of processes.</p>				
<b>130487</b>	<b>Public Policy, Legislative and Forensic Issues</b>			
Subject:	Catalog Nbr:			
PREP	0235			
2018 FALL	Primary	Srdjan Nedeljkovic		Srdjan.Nedeljkovic@tufts.edu
<p>This course explores medico-legal issues affecting the way pain is managed. Individual practice issues that expose professionals to litigation, workplace policies and standards, and regulatory issues are covered. Emphasis is placed on what individuals can do to advocate for better pain control in local, regional, national and international arenas.</p>				
<b>130534</b>	<b>Principles of Change &amp; Education Applied to Pain Mgmt</b>			
Subject:	Catalog Nbr:			
PREP	0236			
2018 SPRG	Primary	Ylisabeth Bradshaw		libby.bradshaw@tufts.edu
2018 SPRG	Primary	Maureen Strafford		maureen.strafford@tufts.edu
<p>Despite numerous efforts to improve pain management over the last 30 years, many clinical and institutional practices remain unchanged. Multiple barriers have been identified such as low patient expectations, clinicians' lack of pain management knowledge, opioid-phobia at the patient, clinician, and systems levels, failure to make pain management an institutional priority, and outdated or inappropriate health policies. The purpose of this course is to address this pervasive resistance to change by training students to become outspoken "pain management champions" in a variety of clinical and organizational settings. Students learn about the principles of needs assessment, change, leadership, and education at all levels of health care delivery, enabling them to develop workable strategies to comprehensively improve the management of pain.</p>				
<b>130617</b>	<b>Eval &amp; Treatment of Pain: Psychological Approaches</b>			



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Subject: PREP	Catalog Nbr: 0238	2018 SPRG	Primary	Ylisabeth Bradshaw	libby.bradshaw@tufts.edu
<p>This course is intended to illustrate the role of psychology in the assessment and treatment of pain. Topics covered include the biopsychosocial model of pain, co-morbid psychiatric conditions often accompanying pain, identification of patients would benefit from psychosocial evaluation, standard psychological testing utilized in chronic pain, motivation and stages of change in treatment planning, opioids and addiction in chronic pain, and multiple psychological treatment strategies.</p>					

<b>130720</b>	<b>Complementary Medicine</b>				
Subject: PREP	Catalog Nbr: 0240				
<p>Contemporary medicine finds itself in a curious situation. Even with an unending succession of spectacular biomedical achievements, one after the next, the American public's interest and enthusiasm for medical alternatives remains high. This course takes a critical look at complementary and alternative medicine (CAM) from various perspectives: historical, philosophical, scientific, and clinical. We will also examine its effects on the health of the public. Our main objectives will be to (1) explore CAM in the context of an allopathic medical system under increasing economic and social pressure, (2) evaluate the clinical effectiveness of some of the most popular CAM therapies and explore plausible mechanisms to explain their alleged health effects, (3) consider how the use of CAM and its widespread adoption could affect the health of individuals and populations, and (4) observe how actual healers practice their trade. The management of chronic pain will be the main focus of the course.</p>					

<b>130753</b>	<b>Medical Acupuncture</b>				
Subject: PREP	Catalog Nbr: 0241				
2017 SUMR	Primary	Kathryn Walker	No Email on file.		
2017 SUMR	Secondary	Richard Glickman-Simon	richard.glickman-simon@tufts.edu		
<p>As acupuncture has grown in popularity in the West, biomedical researchers have been eager to understand how the precise placement of needles superficially in the skin could produce measurable clinical effects. An impressive accumulation of research already demonstrates acupuncture's ability to predictably stimulate neuroendocrine responses in humans, even in the absence of a clear correlation between acupuncture points and major neurovascular pathways. The most convincing findings to date have been in area of pain physiology. This course will explore in detail the current scientific inquiry devoted to uncovering a western-oriented explanation for the analgesic effects of acupuncture, and the clinical applications of this provocative work.</p>					

<b>130852</b>	<b>Clinical Perspectives in Pain Management</b>				
Subject: PREP	Catalog Nbr: 0243				
<p>The purpose of this course is to introduce students to pain medicine as it's practiced at the point of care. It</p>					

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combines in class discussion and patient interviews with visits to area pain care facilities. At those visits, students accompany pain practitioners from various disciplines as they see patients suffering from a variety of painful conditions. During intervening classroom sessions, students present the most interesting cases they encountered the previous week for discussion with faculty and fellow students. Live patient interviews supplement these student presentations. During the final classroom session, students present an in-depth, evidence-based case study on one of the patients they encountered during their clinical sessions.

<b>130980</b>	<b>Capstone Project Planning</b>			
Subject: PREP	Catalog Nbr: 0251			
2018 FALL	Primary	Ylisabeth Bradshaw	libby.bradshaw@tufts.edu	
All students in the PREP program are required to complete a two-semester Capstone Project prior to graduation. The purpose of the Capstone Project is to offer students the opportunity to integrate and apply the knowledge and skills they have learned in the classroom to comprehensively address a clinical, public health and/or social problem pertaining to pain. The Project occurs over two adjacent semesters during the final year of the program.				

<b>131016</b>	<b>Capstone Project Implementation</b>			
Subject: PREP	Catalog Nbr: 0252			
2018 FALL	Primary	Ylisabeth Bradshaw	libby.bradshaw@tufts.edu	
All students in the PREP program are required to complete a two-semester Capstone Project prior to graduation. The purpose of the Capstone Project is to offer students the opportunity to integrate and apply the knowledge and skills they have learned in the classroom to comprehensively address a clinical, public health and/or social problem pertaining to pain. The Project occurs over two adjacent semesters during the final year of the program.				

<b>131048</b>	<b>Directed Study</b>			
Subject: PREP	Catalog Nbr: 0400			
2017 SUMR	Primary	Daniel Carr	daniel.carr@tufts.edu	
2017 SUMR	Primary	Pamela Ressler	Pamela.Ressler@tufts.edu	

<b>138644</b>	<b>Transfer Credit</b>			
Subject: TRAN	Catalog Nbr: 9999			

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<b>138747</b>	<b>Health Svc Delivery</b>
Subject: CBUN	Catalog Nbr: 0713
BU Cross-Reg: HM710	

<b>138748</b>	<b>HR Management</b>
Subject: CBUN	Catalog Nbr: 0736
BU Cross Reg: PM736	

<b>138749</b>	<b>Dev &amp; The Environment</b>
Subject: CBUN	Catalog Nbr: 0806
BU Cross -Reg EH806	

<b>138750</b>	<b>Snort, Swallow, Smoke; Drugs and Behavior</b>
Subject: PH	Catalog Nbr: 0227
2018 SPRG	Primary
Margie Skeer	Margie.Skeer@tufts.edu
<p>Problems related to substance use, misuse, and dependence are pervasive in our society on many levels. This course takes an ecological approach to understanding substance use and substance-related and problems. Students will be introduced to myriad aspects of substance use behavior, spanning epidemiology, neurobiology, addiction, prevention, treatment, and harm reduction. The course will culminate in the development of a substance-related intervention for a "client" organization.</p>	

<b>138751</b>	<b>Health Services QI Methods</b>
Subject: PH	Catalog Nbr: 0231
2018 SPRG	Primary
Denise Daudelin	Denise.Daudelin@tufts.edu
<p>This course aims to provide a broad overview of current trends, core concepts, and methods in quality improvement (QI) and demonstrate their application to healthcare and public health. The course focuses on application, and includes didactic instruction, group discussions, and individual and group projects. Approximately 3 hours of preparatory work (e.g. reading and worksheets, on-line learning modules) prior to each session should be anticipated. The course will be employing a "flipped classroom", team-based learning approach (see Michaelson et al, Team-based Learning, 2002) for additional information on this approach). The the first seven sessions will focus on concept-and skill-building; the second five sessions will examine QI trends and broad applications within healthcare and public health.</p>	

<b>138752</b>	<b>Info Tech in Health Care</b>
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# Course Bulletin

Subject:      Catalog Nbr:  
PH              0264

Health Informatics examines the use of technology to collect, manage, exchange, and analyze clinical information. This relatively new discipline gained greater prominence when the American Recovery and Reinvestment Act designated more than \$19 billion dollars towards bolstering the health information technology infrastructure across the country. In this course we will explore why a strong information technology infrastructure is critical for delivering safer cost-effective care and how it can greatly enhance public health monitoring and reporting. Students will gain an appreciation for some of the latest technologies that are changing the way healthcare is delivered, measured, researched, and taught. The course will also examine the major obstacles to implementing some these technologies and the regulatory/legal parameters currently in place.

**138753**

## **Leadership for Public Health**

Subject:      Catalog Nbr:  
PH              0704

Public health is about social change, which requires leadership. Opportunities to take a leadership role are implicit in almost all public health issues and on a daily basis. Central questions we will explore in the course include: How can public health issues be better addressed? What are the many forms of leadership and which are critical for public health practice? What are the knowledge, skills and attitudes needed by future public health practitioners to take on a leadership role? How do leadership roles differ in various settings linked to the social ecological model: organizations, community, and society? How is public health changing, and how will future challenged be different from those we face now?

The purpose of this course it to increase the capacity of public health students to take on future leadership roles in practice settings. The upper tiers of the socio-ecological model – organizational, community, policy - will be emphasized as the framework for leadership development. Other faculty who have held a variety of leadership roles will participate in some of the seminars to share their philosophy and style of leadership.

**138798**

## **Controlled Substances and their Alternatives for Pain: Inter-Professional Context and Controversies**

Subject:      Catalog Nbr:  
PREP           0245

This course surveys the major categories of controlled substances, focusing on the current evidence for use of controlled substances to treat chronic non-cancer pain and the challenging controversies faced in their use by clinicians, regulators, and the public. Risk factors associated with the initiation or maintenance of opioid therapy will be examined, and decision-making strategies that consider non-opioid pharmacologic and non-pharmacologic strategies for the management of pain will be assessed. The course will analyze how to apply evidence-based strategies for managing the complex patient, including forming practical treatment plans and termination of opioid therapy. Interprofessional efforts to integrate care across disciplines will be described; limitations of risk-stratification screening and other sources for essential information for clinical decision-making will be reviewed. Approaches suitable for patients with chronic non-cancer pain with cancer-related pain will be distinguished.

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<b>138846</b>	<b>Data Analysis for Mngmt</b>		
	Subject:	Catalog Nbr:	
	CBUN	0717	
BU XREG: GSMQM717			

<b>138847</b>	<b>Prev. Intimate Partner</b>		
	Subject:	Catalog Nbr:	
	CBUN	0724	
Prev. Intimate Partner Violence			

<b>138848</b>	<b>Negotiations</b>		
	Subject:	Catalog Nbr:	
	CBUN	0854	

<b>138849</b>	<b>Applied Epidemiology</b>		
	Subject:	Catalog Nbr:	
	CMPH	0355	

<b>138850</b>	<b>Health Care Reform and More: Current Topics in American Health Care Policy</b>		
	Subject:	Catalog Nbr:	
	CMPH	0357	
	2018 SPRG	Primary	Amy Lischko
	2018 SPRG	Primary	Robert Seifert
<p>Amy.Lischko@tufts.edu</p> <p>Robert.Seifert@tufts.edu</p> <p>The American health care system accounts for a large and growing part of the nation's economy, directly affects the public welfare, and is often a source of great political controversy. Thus, it is a central focus of public policy makers at the federal and state levels. This course will provide students with an overview of current topics in health care policy, including the Affordable Care Act and the recently passed Massachusetts cost containment law. Subjects for detailed study will include aspects of these laws and other topics including: comparative effectiveness analysis, measuring and improving health care quality, innovations in health care delivery and payment, and policy efforts to promote prevention and public health. Throughout the course, students will hear from Massachusetts health care leaders, participate in active discussion and debate during class, and write a series of brief policy memos.</p>			

<b>138851</b>	<b>Mental Health in a Public Health Context</b>		
	Subject:	Catalog Nbr:	

# Course Bulletin

CMPH 0359

The primary objective of this course is to give students an understanding of mental health in a public health context. This course will briefly examine the evolution of the mental health system from one that separates the treatment of mental illness from healthcare and addictions to one that integrates overall care. The course will discuss the importance of both preventative and recovery-based interventions across the age spectrum, and how a population-based approach to mental health improves the lives of individuals and reduces the disease burden to society. Students will learn about government's role in funding and regulating mental health programs, and why mental health systems manage not only treatment and services, but also attempt to address other significant social problems often experienced by those with mental illness. Students will be able to apply course content to their future practice at the direct service, program administration, and policy making levels.

<b>138862</b>	<b>Essentials of Pubic Health Law</b>		
	Subject:	Catalog Nbr:	
	CBUN	0719	
BU COURSE LW719			

<b>138863</b>	<b>VACCINE DEVELOPMENT</b>		
	Subject:	Catalog Nbr:	
	CBUN	0800	
BU COURSE IH800			

<b>139049</b>	<b>Health Care Services: Financial &amp; Clinical Data Management and Analysis-Introductory</b>		
	Subject:	Catalog Nbr:	
	PH	0236	
	2018 FALL	Primary	Kerrie Urban
			Kerrie.Urban@tufts.edu
<p>Understanding health claims data is vital in supporting clinical and financial decision making for a broad spectrum of organizations including insurance companies, healthcare providers, and employers. Risk-sharing contracts between insurers and providers and changes to provider reimbursement are all part of a larger effort to control healthcare costs without sacrificing quality. The key to accomplishing this is distilling actionable and accurate information from the massive amount of data that both government and private insurers create with every encounter between patient and provider. This course focuses on basic data elements that exist in a health insurance claims, and how that information can be used for purposes of population management, quality improvement, financial reimbursement and modeling, and ultimately bending the upward trending cost curve that is looming over the entire healthcare system. This course is ideal for any student interested in a career in managed care or healthcare administration. This course will teach students about the concepts and students are expected to complete analyses using Excel. Students may choose to enroll in this course alone or couple it with PH0237 for more advanced applications.</p>			

# Course Bulletin

<b>139089</b>	<b>Interprofessional Team Management of Pain</b>			
Subject:	Catalog Nbr:			
PREP	0244			
2018 SUMR	Primary	Daniel Carr		daniel.carr@tufts.edu
<p>Today's health care is increasingly delivered by groups of health care providers with diverse professional training, roles and identities. Lack of coordination and communication between health professionals frequently leads to suboptimal or adverse patient outcomes and lower patient satisfaction, carries risk management challenges, and provokes provider dissatisfaction and burnout. This course provides tools to analyze and if needed repair group dynamics within interprofessional teams such as the medical home. Attendees will acquire knowledge and skills for achieving real-world outcomes crucial to patient-centered care, with an emphasis upon pain and its treatment.</p>				

<b>139240</b>	<b>DrPH Seminar</b>			
Subject:	Catalog Nbr:			
PH	0705			
2018 FALL	Primary	Janet Forrester		janet.forrester@tufts.edu
<p>This course is the first of four courses that together comprise the doctoral seminar series (PH 705-708). The doctoral seminar is designed to provide an opportunity for the doctoral students to discuss topics of relevance to public health practice in greater depth than is normally covered in graduate-level courses taught to both masters and doctoral students.</p>				

<b>139242</b>	<b>Integration of Public Health</b>			
Subject:	Catalog Nbr:			
PH	0213			
2018 FALL	Primary	David Leader		David.Leader@tufts.edu
<p>This course is designed to help DMD/MPH students integrate their clinical, scientific, and public health education both conceptually and in regards to future career planning and development.</p>				

<b>139292</b>	<b>Evaluation of Managers</b>			
Subject:	Catalog Nbr:			
CBRN	2478			
Evaluation of Managers				

<b>139446</b>	<b>Advocacy for Public Health</b>			
Subject:	Catalog Nbr:			
PH	0709			
2018 SPRG	Primary	Susan Gallagher		Sue.Gallagher@tufts.edu

# Course Bulletin

<b>139462</b>	<b>DrPH Seminar</b>			
Subject:	Catalog Nbr:			
PH	0706			
2018 SPRG	Primary	Susan Koch-Weser	Susan.Koch_Weser@tufts.edu	
<p>This course is the first of four courses that together comprise the doctoral seminar series (PH 705-708). The doctoral seminar is designed to provide an opportunity for the doctoral students to discuss topics of relevance to public health practice in greater depth than is normally covered in graduate-level courses taught to both masters and doctoral students.</p>				

<b>139464</b>	<b>Mindfulness and its Application to the Experience of Pain</b>			
Subject:	Catalog Nbr:			
PREP	0246			
2018 SPRG	Primary	Pamela Ressler	Pamela.Ressler@tufts.edu	
2018 SPRG	Primary	Maureen Strafford	maureen.strafford@tufts.edu	
<p>Mindfulness and its application to the experience of pain, chronic illness and health behavior has seen an increase in interest and research yet it remains underutilized and often undervalued by healthcare clinicians, public health professionals and the general public.</p> <p>During this course, students will be introduced to the concept of mindfulness and explore its historical development from its early roots in Eastern meditative practice through significant Western cultural trends to its current focus in evidence-based research in medical centers, universities and health behavior change initiatives. From the individual to the society, mindfulness is now playing a larger role in the understanding of complex bio-psychosocial phenomena.</p>				

<b>139526</b>	<b>Introduction to R Software</b>			
Subject:	Catalog Nbr:			
CBUN	BS720			
Introduction to R Software				

<b>139556</b>	<b>Introduction to Health Policy</b>			
Subject:	Catalog Nbr:			
CBUN	0702			
Introduction to Health Policy				

<b>139661</b>	<b>Animal Health Services &amp; Public Health</b>			
Subject:	Catalog Nbr:			
CMPH	0330			



# Course Bulletin

<b>139843</b>	<b>Advanced Public Health Policy</b>		
Subject: PH	Catalog Nbr: 0228		
2018 FALL	Primary	Paul Hattis	paul.hattis@tufts.edu
<p>Through in-depth case studies and discussion students will learn about the theory, organization, policies, politics, and practices that have shaped public health and health care services in the United States. Students taking this class will be expected to have a firm understanding of the U.S. public health and health care system including an understanding of Medicare, Medicaid, private health insurance, and the Affordable Care Act. Students will be challenged to think about ways in which various stakeholders, including health professionals (clinical and administrative), commercial interests, governmental officials, and the public have come to interact in the evolution of specific public health programs and health care delivery systems. The issues of access, cost, quality and health disparities are used to frame the cases that will be discussed. Guest speakers will provide additional context to the issues being discussed.</p>			

<b>139860</b>	<b>Analysis of Clustered Data</b>		
Subject: PH	Catalog Nbr: 0701		
2018 SUMR	Primary	Misha Eliasziw	Misha.Eliasziw@tufts.edu
<p>The one-half-credit course provides an accessible yet in-depth introduction to analyzing clustered data that arise in multilevel, repeated measures, longitudinal, and group-randomized study designs. Using real data sets from published studies in the health sciences, the instructor will take the students on a journey, starting from exploratory analyses, through theoretical underpinnings, and finishing with sophisticated statistical models. All concepts will be illustrated using SAS and Stata statistical software. The course will not only emphasize selecting an appropriate analytical approach but also a sound interpretation of the results in both technical and non-technical language. Students are required to obtain a final a grade of "B+" or above in PH 0206 - Intermediate Biostatistics to enroll in this course.</p>			

<b>139861</b>	<b>DrPh Seminar</b>		
Subject: PH	Catalog Nbr: 0707		
2018 FALL	Primary	Mei Chung	Mei_Chun.Chung@tufts.edu
<p>This course is the third of four courses that together comprise the doctoral seminar series (PH 705-708). The doctoral seminar will provide an opportunity for the doctoral students to discuss topics of relevance to public health practice in depth. The topics have been chosen by the faculty based on their professional experience and reflect the competencies expected of a professional holding a doctorate in public health. The learning objectives, which are listed for each topic, are matched to the DrPH competencies. The emphasis will be on mastering the concepts followed by application of concepts to the practice of public health.</p>			

<b>139871</b>	<b>Journal Club</b>		
Subject: PH	Catalog Nbr: 0720		

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	2018 FALL	Primary	Kenneth Chui	Kenneth.Chui@tufts.edu
	2018 FALL	Secondary	Susan Koch-Weser	Susan.Koch_Weser@tufts.edu

<b>139872</b>	<b>Journal Club</b>			
	Subject: PH	Catalog Nbr: 0721		
	2018 SPRG	Primary	Kenneth Chui	Kenneth.Chui@tufts.edu
	2018 SPRG	Primary	Susan Koch-Weser	Susan.Koch_Weser@tufts.edu

<b>139873</b>	<b>Journal Club</b>			
	Subject: PH	Catalog Nbr: 0722		
	2018 FALL	Primary	Kenneth Chui	Kenneth.Chui@tufts.edu
	2018 FALL	Primary	Susan Koch-Weser	Susan.Koch_Weser@tufts.edu

<b>139874</b>	<b>Journal Club</b>			
	Subject: PH	Catalog Nbr: 0723		
	2018 SPRG	Primary	Kenneth Chui	Kenneth.Chui@tufts.edu
	2018 SPRG	Primary	Susan Koch-Weser	Susan.Koch_Weser@tufts.edu

<b>139903</b>	<b>EEDA &amp; Initial Accred Training</b>			
	Subject: CMPH	Catalog Nbr: 0360		
	2018 FALL	Primary	Jean Mukherjee	jean.mukherjee@tufts.edu
Emerging and Exotic Diseases of Animals and Initial Accreditation Training (IAT)				

<b>140062</b>	<b>Persuasion in Health Communication</b>			
	Subject: CEMR	Catalog Nbr: 0653		
<p>The question of how people exercise influence using communication has challenged those working in the field for decades. There are plethora of persuasive messages that can be used in an attempt to change a person's attitude or behavior. This course will provide insight regarding when messages work, at what time, with what audience.</p>				

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The goal of this course is to familiarize students with the process of persuasion and social influence in the context of health. We will cover classic and contemporary theory and research related to social influence at the conceptual, theoretical, and applied levels. Students will gain a firm understanding of how people influence the beliefs, attitudes, and behaviors of others.

<b>140063</b>	<b>Risk Communication in Public Health Practice</b>	
	Subject: CEMR	Catalog Nbr: 0654
<p>Whether responding to an unexpected crisis that is at the forefront of the news cycle or trying to draw attention to a rarely talked about health issue, public health practitioners need to simply and effectively communicate about health risk and potential impact. This class covers the psychology of risk, risk assessment, crisis communication, risk reduction and mitigation, and community mobilization. Crisis communication strategies used by the Department of Homeland Security and the Centers for Disease Control will be reviewed. Care communication strategies will be presented within the framework of the Harm Reduction Model. In addition to a risk communication plan, students will gain practical experience developing media talking points and practicing public speaking during simulated media interviews. The final exam includes staffing a Twitter exam during a mock public health crisis.</p>		

<b>140135</b>	<b>Intro to Statistical Computing</b>	
	Subject: CBUN	Catalog Nbr: BS723

<b>140136</b>	<b>Advanced Epidemiology</b>	
	Subject: CBUN	Catalog Nbr: EP854

<b>140230</b>	<b>Community-Based Participatory Research Methods</b>	
	Subject: PH	Catalog Nbr: 0258
<p>This course consists of both classroom activities and conducting an actual research project in collaboration with a community partner. Students will learn about theory and practice of CBPR and will work in small groups for their research projects. The research will include meeting with community partners, contributing to design of the study, field work collecting data, managing and analyzing data, writing up a final report and presenting findings to the community. Students will keep a diary and engage in self-reflection about their efforts and discuss/debrief in class.</p> <p>In recent years a strong interest has developed about community-collaborative research and in particular in forming partnerships with the communities affected by public health studies. More and more, these studies</p>		

# Course Bulletin

also engage the community in a participatory fashion in the actual research. This course will explore the various methods that are used in such studies, the benefits and challenges to this approach and the possibility that new ethical considerations arise in such circumstances. The course involves student participation in the Community Assessment of Freeway Exposure and Health study, an NIH-funded community-based participatory research project.

<b>140257</b>	<b>Organizational Theory and Behavior</b>		
Subject:	Catalog Nbr:		
CBRN	HS526A		

<b>140272</b>	<b>GIS for Public Health</b>		
Subject:	Catalog Nbr:		
PH	0262		
2018 SPRG	Primary	Thomas Stopka	Thomas.Stopka@tufts.edu
<p>In public health, "place" matters as it is a close reflection of the social and economic deprivation and environmental exposures that can result in significant health disparities that are manifest in health outcomes, including morbidity and mortality. While uses of geographic information systems (GIS) and spatial epidemiology have increased steeply and steadily within the public health sciences during the past two decades, they are still in their infancy. In health disparities, nutrition, disease prevention, and health services research, this is particularly evident. More than an estimated 80% of health issues have a spatial component, However, only a small fraction of research studies include a focus on the geography of health and spatial associations of putative exposures, access to care, and health outcomes. This course will provide students with the basic skills needed to obtain, analyze, and decipher spatial data in GIS, using a variety of examples from public health, nutrition, urban development, and the US Census Bureau.</p>			

<b>140274</b>	<b>DrPH Seminar</b>		
Subject:	Catalog Nbr:		
PH	0708		
2018 SPRG	Primary	Amy Lischko	Amy.Lischko@tufts.edu
<p>This course is the fourth of four courses that together comprise the doctoral seminar series (PH 0705 - 0708). The doctoral seminar will provide an opportunity for the doctoral students to discuss topics of relevance to public health practice in depth. The topics have been chosen by the faculty based on their professional experience and reflect the competencies expected of a professional holding a doctorate in public health. The learning objectives, which are listed for each topic, are matched to the DrPH competencies. The emphasis will be on mastering the concepts followed by application of concepts to the practice of public health.</p>			

<b>140358</b>	<b>Needs Assessment</b>		
Subject:	Catalog Nbr:		
CBUN	0851		

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<b>140359</b>	<b>Monitoring &amp; Evaluating Public Health Programs</b>			
	Subject:	Catalog Nbr:		
	PH	0702		
	2018 SPRG	Primary	Juan-Carlos Alegre	Juan-Carlos.Alegre@tufts.edu
<p>Students will learn state-of-the-art monitoring and evaluation (M&amp;E) tools, models, and approaches for designing robust systems for assessing public health interventions and policies. The focus of this course is on the design of systems that facilitate data-informed decision-making by program stakeholders including implementers and policy makers for public health programs. Doctoral students will learn how to: 1) apply theory-driven approaches for designing and implementing M&amp;E systems to monitor performance and measure effectiveness of public health programs; 2) use implementation research and delivery science to address barriers for delivering evidence-based public health interventions in complex settings; and 3) develop sound evaluation designs that are responsive to evaluation questions to assess performance, measure outcomes, and document health impact. Student evaluation will be based on practical assignments throughout the academic semester (70%) and on overall class participation (30%).</p>				

<b>140388</b>	<b>Social Epidemiology</b>			
	Subject:	Catalog Nbr:		
	CBUN	EP775		

<b>140389</b>	<b>Maternal &amp; Child Health Policy Making</b>			
	Subject:	Catalog Nbr:		
	CBUN	MC763		

<b>140390</b>	<b>Perinatal Health Services</b>			
	Subject:	Catalog Nbr:		
	CBUN	MC845		

<b>140435</b>	<b>Quantitative Methods for Program Evaluation</b>			
	Subject:	Catalog Nbr:		
	CBUN	SB822		

<b>140482</b>	<b>Intermediate Statistical Computing</b>			
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Subject:	Catalog Nbr:
CBUN	BS805

<b>140489</b>	<b>Introduction to Geographic Information Systems</b>
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Subject:	Catalog Nbr:
CBRN	HS297F

<b>140494</b>	<b>Applied Statistics and Clinical Trials</b>
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Subject:	Catalog Nbr:
CBUN	BS851

<b>140574</b>	<b>Mental Health: Law, Science, &amp; Public Health Policy</b>
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Subject:	Catalog Nbr:
PH	0238

2017 SUMR	Primary	Marcia Boumil	marcia.boumil@tufts.edu
2017 SUMR	Secondary	Steven Nisenbaum	Steven.Nisenbaum@tufts.edu

Mental health comprises a substantial portion of the public health budget. Scientific concepts that underlie our ideas of these illnesses have evolved rapidly in the last quarter century. Public resources and insurance benefits for mental health treatment are scarce. This course considers mental health policy and practice in the United States including the organization, finance and delivery of mental health services. It addresses special populations such as homeless, substance abusing and prison populations. It emphasizes the legal and policy issues pertaining to the rights of mental patients including competency and commitment, privacy and confidentiality, disability and entitlement. This course adopts a public health approach to understanding the current state of mental health services. It should be of interest to students of public health, psychology, community health and others who are interested in the laws, policy and practice pertaining to the organization, finance and delivery of mental/behavioral health care services.

<b>140739</b>	<b>DrPH Thesis</b>
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Subject:	Catalog Nbr:
PH	0801

2018 FALL	Primary	Janet Forrester	janet.forrester@tufts.edu
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All doctoral students must register for PH 0801 every semester to remain in active and full time status (full time equivalent.) Grading is Satisfactory/Unsatisfactory.

<b>140746</b>	<b>DrPH Practicum</b>
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Subject:	Catalog Nbr:
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PH	0711			
	2018 FALL	Primary	Janet Forrester	janet.forrester@tufts.edu

<b>140889</b>	<b>Statistical Genetics I</b>			
	Subject:	Catalog Nbr:		
	CBUN	BS858		

<b>140890</b>	<b>Integration of Public Health- Physician Assistant</b>			
	Subject:	Catalog Nbr:		
	PH	0229		
	2018 FALL	Primary	Fernando Ona	Fernando.Ona@tufts.edu
	2018 FALL	Primary	Beth Buyea	Beth.Buyea@tufts.edu
Integration of Public Health- Physician Assistant				

<b>140927</b>	<b>Outbreak Investigation</b>			
	Subject:	Catalog Nbr:		
	CBUN	EP800		

<b>140941</b>	<b>The Epidemiology of HIV/AIDS in the Developed and Developing World</b>			
	Subject:	Catalog Nbr:		
	CBUN	EP764		

<b>140996</b>	<b>Gender and One Health</b>			
	Subject:	Catalog Nbr:		
	CMPH	0363		
<p>The current Ebola outbreak in West Africa has public health specialists scrambling to find solutions to an epidemic that has been difficult to manage because of social and cultural issues. The spread of the infection is intertwined with peoples cultural beliefs, an area most medical practitioners and public health workers are least trained to handle. In the mix but completely overlooked and sidelined thus far by the public health specialists, policy makers, aid agencies and the multiple teams working to contain the epidemic are the gender issues that play a major role in the transmission and containment of infectious diseases and public health outcomes. Understanding gender, as well as culture and beliefs is a key public health competency. The gender differential (biological, social, economic) poses unique health risks for men and women during their life cycle. The diverse roles played by men and women create different exposure mechanisms to domestic animals, wildlife and the environment. Gender roles, the distribution of labor, and access and control over</p>				

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resources play an important part in the biosecurity, control, prevention and response to infectious diseases and emerging pandemics. Therefore gender differences need to be addressed to better understand the risks, to help develop effective control and response strategies and to achieve a better impact. This short course will allow participants to develop critical analysis skills as they explore how gender, the realm of emerging pandemics threat (EPT) and One Health intersect and how policies can be developed and/or implemented to address diseases in a gender sensitive way. Participants will be challenged to consider the implications and benefits of an engendered One Health approach in preventing and responding to emerging pandemic threats.

<b>141115</b>	<b>Methods and Statistical Modeling in Chronic Disease Epidemiology</b>			
Subject:	Catalog Nbr:			
CMPH	0361			
2018 SPRG	Primary	Dominique Michaud	Dominique.Michaud@tufts.edu	
<p>This course in epidemiologic methods reinforces the concepts and methods taught in CMPH130 and CMPH288, with in-depth instruction in issues of study design, assessing threats to study validity including confounding and selection bias, and analyzing data with standard regression models. The course emphasizes hands-on learning and includes a combination of discussions of methodologic papers and a required laboratory component where students will learn to apply the concepts learned in class to real-world problems.</p>				

<b>141116</b>	<b>The Patient Perspective on Healthcare Costs: Financial Barriers and Risk Factors</b>			
Subject:	Catalog Nbr:			
CMPH	0365			
2018 SPRG	Primary	Mark Rukavina	Mark.Rukavina@tufts.edu	
<p>With passage of the Affordable Care Act, millions of Americans have gained access to health insurance coverage. Several years into full implementation of the insurance expansion provisions, more attention is now focused on the adequacy of coverage. This course will provide students with background on the out-of-pocket healthcare costs paid by patients and explore the consequences when these costs are unaffordable. Information will be presented from the patient perspective. Health policy, insurance coverage and public programs, and care delivery will be analyzed and assessed for effectiveness at addressing unaffordable healthcare costs.</p>				

<b>141136</b>	<b>Environmental Health Science, Policy and Law</b>			
Subject:	Catalog Nbr:			
CBUN	EH805			

<b>141137</b>	<b>Doctoral Candidacy Preparation</b>			
Subject:	Catalog Nbr:			
PH	0800			
2018 FALL	Primary	Janet Forrester	janet.forrester@tufts.edu	



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Students should register for this course while preparing for the DrPH Qualifying Examination in order to remain in active status. Full time equivalent.

<b>141205</b>	<b>Social Factors</b>
Subject: CBUN	Catalog Nbr: SB740

<b>141316</b>	<b>Applications of Communication Theory to Health Communication</b>		
Subject: HCOM	Catalog Nbr: 0548		
2018 FALL	Primary	Elena Nuciforo	Elena.Nuciforo@tufts.edu
<p>Health communication is primarily concerned with the role of theory, research, and practice in health promotion, education, and delivery. Students will investigate the theory on the social construction of illness, the role of language in creating beliefs about health, theory on narrative and storytelling, theory on how the media set agendas about health coverage, and a variety of psychosocial and communication-based theories. Through the study of the various theoretical approaches, students will learn about the integral nature of communication in health including: the role communication plays in shaping individuals' social and cultural expectations and beliefs about health, how such information may influence people to think differently about health and affect behavioral change, and how communication vehicles may be used to redefine and change public policy about health and health behavior. Students can expect to learn how to apply theoretical constructs through assigned readings, cases and projects, and class interaction.</p>			

<b>141317</b>	<b>Media Strategies for the Health Professional</b>		
Subject: HCOM	Catalog Nbr: 0549		
2018 SPRG	Primary	Kelly Chunn	Kelley.Chunn@tufts.edu
<p>Students develop an understanding of the strategic use of the media by health communicators in message development and communication strategy execution. Students also explore the ethical concerns of health care professionals who utilize the media. Students learn how to develop effective health communication campaigns that bring about behavioral change among target audiences and influence health policy issues at the local, state, national, and international level. In addition, students learn how to develop evaluation techniques for health communication strategies.</p>			

<b>141372</b>	<b>Intermediate Epidemiology</b>		
Subject: PH	Catalog Nbr: 0251		
2018 FALL	Primary	Dominique Michaud	Dominique.Michaud@tufts.edu
<p>This course in intermediate epidemiologic methods reinforces the concepts and methods taught in PH 201, with in-depth instruction in issues of study design, assessing threats to study validity including confounding</p>			

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and selection bias, and analyzing data with standard regression models. The course emphasizes hands-on learning and includes a combination of discussions of methodologic papers, and a required laboratory component where students will learn to apply the concepts learned in class to real-world problems.

<b>141373</b>	<b>Organizational Management and Theory</b>			
Subject:	Catalog Nbr:			
PH	0710			
2018 FALL	Primary	Paul Beninger		Paul.Beninger@tufts.edu
<p>This course provides frameworks for understanding health care organizations and taking actions to improve individual, group, and system-wide effectiveness in health services organizations. The conceptual frameworks are derived from the organization behavior and management literature, and applied to health services organizations. Students will gain an appreciation of the complexities of health care organizations and develop critical thinking skills necessary to succeed in today's health care environment. This course will explore theories, research, and practical applications related to organizational structure, culture, relational perspectives, systems, leadership, learning, and change.</p>				

<b>141454</b>	<b>Physiologic Principles for Public Health</b>			
Subject:	Catalog Nbr:			
CBUN	EH710			

<b>141476</b>	<b>Principles of Epidemiology &amp; Inferential Statistics I</b>			
Subject:	Catalog Nbr:			
CMPH	0131			
2018 FALL	Primary	David Tybor		david.tybor@tufts.edu

<b>141477</b>	<b>Principles of Epidemiology &amp; Inferential Statistics II</b>			
Subject:	Catalog Nbr:			
CMPH	0133			
2018 SPRG	Primary	David Tybor		david.tybor@tufts.edu

<b>141556</b>	<b>Health, Human Security and Emerging Pathogens</b>			
Subject:	Catalog Nbr:			
PH	0286			
2018 FALL	Primary	Nahid Bhadelia		Nahid.Bhadelia@tufts.edu
<p>With increasing globalization of trade, travel and terrorism, public and individual human health have become topics of global concern, involving sovereign nations, international organizations and the scientific community.</p>				

# Course Bulletin

Threats from emerging infectious diseases outbreaks exemplify this trend. In contrast to the traditional idea of national security, the field of human security focuses on the individual, rather than state, as the nexus of analysis and takes a multidisciplinary approach through which to analyze the challenges related to community, national and global response to emerging infectious diseases epidemics. This course will start by examining human security literature and practice as it applies to infectious diseases threats. It will examine factors leading to increasing frequency of outbreaks due to novel pathogens, such as climate change and environmental degradation, and the concept of One Health. It will then look at the intersection between scientific research and related ethical issues, disease surveillance and global biosecurity issues. Further, the course will examine the historical basis for International Health Regulations and other frameworks for modern global health governance as they apply to outbreaks. Lastly, the class will utilize case studies to examine how outbreak preparedness and response have been managed during recent epidemics such as SARS, H1N1, MERS, Ebola and Zika. This course is meant to foster interdisciplinary perspectives by bringing together practitioners from international law, human development, public health and clinical care.

<b>141596</b>	<b>Social Justice &amp; the Health of Populations: Racism and other systems of oppression in America</b>			
	Subject:	Catalog Nbr:		
	CBUN	MC775		

<b>141650</b>	<b>Infectious Disease Epidemiology</b>			
	Subject:	Catalog Nbr:		
	CBUN	EP755		

<b>141653</b>	<b>Social and Behavioural Sciences for Public Health</b>			
	Subject:	Catalog Nbr:		
	CBUN	SB721		

<b>141664</b>	<b>Advanced Topics in Qualitative Research</b>			
	Subject:	Catalog Nbr:		
	CBRN	HS411B		

<b>141748</b>	<b>Field Course: Introduction to a Health Care Governmental Agency</b>			
	Subject:	Catalog Nbr:		
	PH	0287		
	2018 SPRG	Primary	Paul Hattis	paul.hattis@tufts.edu

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2018 SPRG	Primary	Megan Wulff	Megan.Wulff@tufts.edu
<p>This half-credit 'field course' combines lectures and discussions led by Professor Hattis and staff of the Massachusetts Health Policy Commission (HPC) with on-site participation in HPC board and committee meetings. The course will cover recent Massachusetts health reform, the formation and structure of the HPC, and the HPC's primary responsibilities, including measuring statewide cost trends, monitoring the changing health care market, and supporting clinical transformation and payment reform. Students will be given the opportunity to formulate a policy position related to one of the HPC's key responsibilities, and present their proposal to the class and HPC staff.</p>			

<b>141764</b>	<b>Public Health Epidemiology</b>		
Subject: PH	Catalog Nbr: 0712	2018 FALL	Primary
	Janet Forrester	janet.forrester@tufts.edu	
<p>The focus of this course is the application of epidemiologic principles to public health practice. The learning objectives, which are listed for each topic, are matched to the DrPH competencies. The emphasis will be on mastering the concepts followed by application of concepts to the practice of public health.</p>			

<b>141806</b>	<b>Patient Safety and Organizational Change</b>		
Subject: CMPH	Catalog Nbr: 0395		
<p>Patient safety emerged as a public health crisis with the release of the November 1999 Institute of Medicine Report, "To Err is Human." A call to action, the IOM report prompted sweeping changes in our understanding of medical errors and how clinicians, hospitals, health systems, oversight and regulatory agencies, and government deal with them. A new paradigm evolved, one that focused on systems of care and system design rather than on lapses of individual performance. This new view of patient safety requires clinicians to develop a new set of competencies around system analysis, design, and improvement. Accordingly, the course will address a variety topics such as the epidemiology of medical error; human factors engineering; incident reporting and root cause analysis; error disclosure and management of critical incidents; selection and implementation of safe practices; and approaches to building a safety culture. Classes will use a variety of didactic approaches including lecture, discussion, management case studies, guest lectures, and in-class projects.</p>			

<b>141818</b>	<b>Public Health and the Built Environment</b>		
Subject: PH	Catalog Nbr: 0288		
<p>The epidemics of asthma, diabetes, and obesity have focused new attention on the role played by suburban sprawl, transportation, and other built environment features on public health. This course will explore the linkages between the built environment and public health from a policy and planning perspective. Students will develop analytical skills to evaluate modern day public health and built environment challenges, including mapping tools, health impact assessments, and healthy planning and design.</p>			

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<b>141819</b>	<b>FIX: Addiction and the Opioid Epidemic</b>			
Subject:	Catalog Nbr:			
CMPH	0393			
<p>Problems related to substance use, misuse, and dependence are pervasive in our society on many levels, and the United States is currently experiencing an opioid epidemic. This course will take an ecological approach to understanding opioid and other drug use and related problems. Students will be introduced to myriad aspects of substance use behavior, spanning epidemiology, addiction, prevention, treatment, and harm reduction. Ultimately, students will develop a deeper understanding of issues related to opioid and other drug use and addiction from public health and medical perspectives, while addressing intersecting social, economic, judicial, and political factors and implications.</p>				

<b>141828</b>	<b>Social Marketing</b>			
Subject:	Catalog Nbr:			
HCOM	0545			
<p>Efforts to influence individual behavior and society permeate health communication. Social marketing offers one holistic approach towards this goal. This course is designed to provide students with an understanding of the principles and practices of social marketing. Students will be provided with an understanding of the key concepts and principles that serve as a basis for social marketing such as how to segment, reach, and influence target populations. As part of this course, we will design social marketing strategies to gain an understanding of the benefits of using commercial marketing principles to create initiatives that impact social and individual behavior change.</p>				

<b>142210</b>	<b>Medical Journalism: Mass Media and Public Health Messaging</b>			
Subject:	Catalog Nbr:			
HCOM	0516			
2018 SUMR	Primary	Lisa Gualtieri	Lisa.Gualtieri@tufts.edu	
2018 SUMR	Primary	Daniel Childs	Daniel.Childs@tufts.edu	
<p>This one-week course will introduce students to key principles in health and medical journalism with the aim of both fostering a better understanding of the processes that underlie the decisions made by news entities and helping participants develop strategies to utilize the broad reach of the news media to communicate important health and public health messages. Topics covered include how to develop a toolbox of journalistic storytelling skills; identify and refine compelling angles within larger public health issues; recognize what is likely to generate news coverage and develop strategies to take advantage news; and understand how news organizations use social media to both gather and report health information, and use this knowledge to craft social media campaigns aimed at influencing the news cycle.</p>				

<b>142290</b>	<b>Advanced Health Care Services: Financial &amp; Clinical Data Management and Analysis</b>			
Subject:	Catalog Nbr:			
PH	0237			
2018 FALL	Primary	Kerrie Urban	Kerrie.Urban@tufts.edu	

# Course Bulletin

This course is a continuation of topics taught in PH 0236 Health Care Services: Financial & Clinical Data Management and Analysis. This course is a hands-on data course that will work with the concepts taught in PH0236 using the relational database MS Access and more advanced functions in Excel. This course will cover the basics of relational database structure and design, as well as data aggregation and manipulation using actual transactional claims data. This course is ideal for someone considering a career in financial/clinical/healthcare data analysis. Many organizations use Access and other relational databases to manage and analyze data. Some familiarity with relational databases and/or a willingness to jump in and learn new software is required.

<b>142317</b>	<b>Field Course: Introduction to Building Health Neighborhoods and Communities</b>			
Subject:	Catalog Nbr:			
PH	0289			
2017 FALL	Primary	Carolyn Rubin	Carolyn.Rubin@tufts.edu	
<p>This field course combines in-class discussions and hands-on activities with guest speakers and off-site visits at various community institutions in Chinatown to understand place-based public health. This course takes a strengths-based and asset-based approach to thinking about public health in Chinatown and highlights how residents and leaders think about health priorities and community wellness. Through field visits, discussion with leaders in the community, and attendance at community meetings, students will gain a deeper understanding of place-based public health strategies across the life course in an immigrant community and the role that community agencies play in health promotion. The course provides a theoretical basis for place-based public health, context-setting on the history of Boston Chinatown, an overview of current strategies used by community agencies to promote health, and an overview of three of the major populations in Boston Chinatown: children, the elderly and workers. This course also asks students to critical reflect on the role and responsibility that universities, like Tufts, have with their host communities. During class, students will learn and practice a variety of skills used in community-based settings, such as meeting facilitation, community engagement strategies, cultural humility, and asset mapping. Students will work in teams on a project with a community agency in Chinatown. Students are expected to demonstrate active engagement in class and in the field and with community partners.</p>				

<b>142690</b>	<b>Health Economics and Financial Management for Public Health</b>			
Subject:	Catalog Nbr:			
CBUN	0857			

<b>143039</b>	<b>Directed Study</b>			
Subject:	Catalog Nbr:			
PH	0401			
2018 SUMR	Primary	Paul Beninger	Paul.Beninger@tufts.edu	
2018 SUMR	Primary	Signe Flieger	Signe.Flieger@tufts.edu	
2018 SUMR	Primary	Dominique Michaud	Dominique.Michaud@tufts.edu	
Directed Study - Full Semester				

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<b>143040</b>	<b>Directed Study</b>			
	Subject:	Catalog Nbr:		
	HCOM	0401		
Directed Study				

<b>143041</b>	<b>Directed Study</b>			
	Subject:	Catalog Nbr:		
	PREP	0401		
	2018 SPRG	Primary	Janet Forrester	janet.forrester@tufts.edu
Directed Study - Full Semester				

<b>143042</b>	<b>Directed Study</b>			
	Subject:	Catalog Nbr:		
	CMPH	0401		
	2018 FALL	Primary	Anthony Schlaff	anthony.schlaff@tufts.edu
Directed Study - Full Semester				

<b>143047</b>	<b>Discrimination in Healthcare: Legal, Ethical and Public Health Policy</b>			
	Subject:	Catalog Nbr:		
	CMPH	0366		
	2018 SPRG	Primary	Marcia Boumil	marcia.boumil@tufts.edu
<p>This course will address the legal, ethical and public health policy issues relating to discrimination in the workplace, with emphasis on the health care setting. Specific topics will include: discrimination on the basis of disability, handicap or pregnancy, including applicability of the Family Medical and Leave Act; sexual harassment and bullying; equal pay; discrimination on the basis of age or health status (e.g., obesity); discrimination on the basis of gender, gender identity and sexual orientation; discrimination on the basis of race, ethnicity, national origin, alienage or religion; and workplace retaliation.</p>				

<b>143048</b>	<b>Global Health: Concepts, Conditions, and Careers</b>			
	Subject:	Catalog Nbr:		
	CMPH	0313		
	2018 SPRG	Primary	Ramnath Subbaraman	Ramnath.Subbaraman@tufts.edu
<p>This global health survey course aims to provide medical students interested in public health with knowledge of key concepts, health conditions, and career possibilities. Key concepts that we will explore include global burden of disease metrics, the evolution of global health policy, global health ethics, and health and human rights. Key health conditions we will cover include HIV, TB, maternal and child health, chronic diseases (including global mental health), and WASH (water, sanitation, and hygiene)-related diseases. We will highlight critical barriers that contribute to global morbidity and mortality for each of these diseases while</p>				

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also using these conditions as windows into more general challenges in global health delivery. Finally, throughout the course, we will discuss various ways that global public health can be incorporated into students' future careers as physicians or public health specialists, especially by touching on the career pathways and life stories of guest speakers.

<b>143049</b>	<b>Maternal and Child Health: Policies and Programs Using a Life-course Perspective</b>			
Subject:	Catalog Nbr:			
CMPH	0364			
2018 SPRG	Primary	Deborah Walker		Deborah.Walker@tufts.edu
<p>This course will review the key policy and programs for various life course stages. Specific topics will include: infancy, early childhood, school-age children, adolescents, women of reproductive age, families, and children with special needs. An introduction to the key issues facing clinicians, policy-makers and advocates for each of the topics will be presented. In addition, an overview and brief history of the maternal and child health system supported by Title V of the Social Security Act (1935) will be provided.</p>				

<b>143077</b>	<b>Statistical Genetics II</b>			
Subject:	Catalog Nbr:			
CBUN	BS860			

<b>143168</b>	<b>Law and Health Care</b>			
Subject:	Catalog Nbr:			
PH	0230			
2018 FALL	Primary	Marcia Boumil		marcia.boumil@tufts.edu
<p>This course explores health law from the perspective of those involved as healthcare clinicians, administrators and management. It surveys the broad landscape of the law as it pertains to the business of healthcare from the provider/patient relationship and informed consent of the clinician to administrative decision making such as contracts, corporations, fraud and abuse, licensure and tort reform – for those involved in the health services industry. It offers an overview of the ways in which laws influence the organization and operations of the public and private healthcare systems.</p>				

<b>143169</b>	<b>Public Health Law and Ethics</b>			
Subject:	Catalog Nbr:			
PH	0232			
2018 FALL	Primary	Marcia Boumil		marcia.boumil@tufts.edu
<p>This course explores public health policy and ethical issues pertaining to federal, state and local law and regulation. It is intended to introduce public health students to legal analysis and some of the legal and ethical issues they might encounter as public health practitioners. It applies an ethical framework to issues in public health law and ethics from issues in patient decision making to population policy such as regulation of tobacco, vaccinations, safety measures and reporting of public health threats and emergencies. It offers an</p>				



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overview of the ways in which laws serve as a backdrop for ethical analysis of complex decision making to benefit the health of the public.

<b>143185</b>	<b>Policy Analysis</b>
Subject: PH	Catalog Nbr: 0249
Health Care Policy Analysis	

<b>143191</b>	<b>Mental Health in the U.S.: Access, Services, and Policy</b>
Subject: PH	Catalog Nbr: 0242
<p>This course is designed to provide a broad overview of U.S. mental health policy, the mental health service delivery system, and the role of public health in understanding and addressing population-level mental health. The course introduces current issues in mental health policy and service delivery, focusing on: access to mental health services and utilization patterns; quality of care; the economics of mental health and healthcare (supply, demand, financing, and cost-effectiveness); public health interventions and the prevention of mental disorders; and key social and environmental determinants of mental health. Throughout the course, we will consider issues of social justice and explore pervasive mental health inequalities that exist today.</p>	

<b>143262</b>	<b>PA/MPH ALE Planning Seminar</b>
Subject: PH	Catalog Nbr: 0307
2018 SUMR	Primary Fernando Ona Fernando.Ona@tufts.edu
<p>In the planning semester students develop a proposed project in collaboration with an organization engaged in public health practice. Faculty assist students in identifying, negotiating, and crafting a suitable project. Students develop a formal plan for project implementation.</p>	

<b>143263</b>	<b>PA/MPH ALE Implementation</b>
Subject: PH	Catalog Nbr: 0308
2018 FALL	Primary Fernando Ona Fernando.Ona@tufts.edu
<p>After obtaining formal approval for their project plan (including Institutional Review Board review if necessary), student spend a minimum of 160 hours in the field, implementing their project, written as if for publication, and give a formal presentation to the faculty and their peers.</p>	

<b>143299</b>	<b>Field Course: Experiencing city-level public health department services and challenges</b>
Subject: PH	Catalog Nbr: 0256

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2018 FALL	Primary	Virginia Chomitz	Virginia.Chomitz@tufts.edu
<p>This field-based course is designed to provide students with an in-depth understanding of the workings of a progressive city-level public health department. The course classes will be primarily held at the Cambridge Public Health Department (CPHD) and other aligned city agencies, with remaining classes at the Tufts Chinatown campus. At CPHD, students will hear from staff in the epidemiology, public health nursing, health promotion, school health, and environmental health departments about their projects and their day-to-day tasks, in addition to the context and challenges of their work. Students will also attend at least one CPHD / Cambridge community meeting during the semester. Students will select a Cambridge-determined priority policy or practice issue to research and present to CPHD staff, as well as produce reflective assignments on their experiences.</p>			

<b>143417</b>	<b>What is cancer and why should we care?</b>		
Subject: BIED	Catalog Nbr: 0351		
2018 FALL	Primary	Berri Jacque	Berri.Jacque@tufts.edu
2018 FALL	Primary	Revati Masilamani	Revati.Masilamani@tufts.edu
<p>Why should your students care about cancer? This course shows how we are all personally impacted by cancer. Throughout several lessons we will see how major questions in the cancer field have shifted over time, and how our current understanding impacts our ability to treat cancer successfully. We will begin to introduce the idea of DNA damage and see how substances that are potentially damaging can be tested. This course introduces important terms in cancer biology, medicine and epidemiology, including concepts of causation and correlation, risk and exposure.</p> <p>This course is intended for high school science instructors as part of the Teaching the Great Diseases program.</p>			

<b>143418</b>	<b>What does it mean to be a "normal" cell?</b>		
Subject: BIED	Catalog Nbr: 0356		
2018 FALL	Primary	Berri Jacque	Berri.Jacque@tufts.edu
2018 FALL	Primary	Revati Masilamani	Revati.Masilamani@tufts.edu
<p>In order to learn how cancer cells act abnormally, we must first learn how a normal cell functions. In this course, we will explore the organization of cells in tissues and organs, and how cells "talk" to one another and are a part of a community. Throughout its lifetime a normal cell divides, performs its functions, communicates with other cells, and dies. We will see how each of these steps is regulated.</p> <p>This course is intended for high school science instructors as part of the Teaching the Great Diseases program.</p>			

<b>143419</b>	<b>Is our genome unchanging?</b>		
Subject: BIED	Catalog Nbr: 0361		
2018 FALL	Primary	Berri Jacque	Berri.Jacque@tufts.edu
2018 FALL	Primary	Revati Masilamani	Revati.Masilamani@tufts.edu
<p>It was once thought that the genome that we inherit remains constant, and that evolution of the genome is a slow process. However, scientists have been learning more and more about how our genome responds to and</p>			

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is changed by our environment, sometimes rapidly. In this course we will see how these genomic changes may prevent or promote cancer.

This course is intended for high school science instructors as part of the Teaching the Great Diseases program.

<b>143420</b>	<b>What can go wrong in cancer cells?</b>				
	Subject:	Catalog Nbr:			
	BIED	0366			
	2018 FALL	Primary	Berri Jacque	Berri.Jacque@tufts.edu	
	2018 FALL	Primary	Revati Masilamani	Revati.Masilamani@tufts.edu	
<p>How does a cell become cancerous? Is it a slow process, or a quick switch? This course covers how mutations in our DNA are key in the development of cancer. DNA mutations may be the turning point when it comes to cancer development, but what causes DNA to mutate? What genes are critical to the development of cancer when mutated? How do inflammation and aging predispose cells to DNA damage? How do tumors evolve and adapt to their environments? All these questions are covered in this course.</p> <p>This course is intended for high school science instructors as part of the Teaching the Great Diseases program.</p>					

<b>143421</b>	<b>How does cancer make us sick?</b>				
	Subject:	Catalog Nbr:			
	BIED	0371			
	2018 FALL	Primary	Berri Jacque	Berri.Jacque@tufts.edu	
	2018 FALL	Primary	Revati Masilamani	Revati.Masilamani@tufts.edu	
<p>Cancer is caused by unregulated growth of our own cells. What makes these proliferating cells more harmful than their normal counterparts? How are tumors characterized and why is this important for treatment? We learn how cancer cells exit their primary organ and through the process of metastasis find a secondary organ. We will take a look at the critical role that our immune system plays in fighting cancers, and how the rare percentage of cancers that evade the immune system find ways to do that. In this course we zoom out from looking at cancer as a disease of abnormal cells, to looking at how it causes system-wide disease in a human body.</p> <p>This course is intended for high school science instructors as part of the Teaching the Great Diseases program.</p>					

<b>143422</b>	<b>How do we treat cancer?</b>				
	Subject:	Catalog Nbr:			
	BIED	0376			
	2018 FALL	Primary	Berri Jacque	Berri.Jacque@tufts.edu	
	2018 FALL	Primary	Revati Masilamani	Revati.Masilamani@tufts.edu	
<p>This course focuses on how cancer is diagnosed and treated, emphasizing the problems that arise when treating cancers as an organ-based, rather than cell-based disease. We will discuss the current diagnostic techniques and treatments and their strengths and limitations, and look forward to how breakthroughs in DNA sequencing technology can provide us with new information to design more specific cancer drugs for better treatments in the future. After seeing the more conventional ways to treat cancer, we will take a critical look at alternative cancer therapies, and spend some time discussing how, and why, cancer occupies such a prominent place in our society and how our understanding of cancer shapes public policy for the</p>					

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future.

This course is intended for high school science instructors as part of the Teaching the Great Diseases program.

<b>143467</b>	<b>Cases in Public Health Management</b>			
	Subject:	Catalog Nbr:		
	CBUN	PH858		

<b>143516</b>	<b>Survey Research Methods</b>			
	Subject:	Catalog Nbr:		
	PH	0724		
	2018 FALL	Primary	Kim Dong	kimberly.dong@tufts.edu
	2018 FALL	Primary	Reece Lyerly	Reece.Lyerly@tufts.edu
<p>This course uses real world examples to introduce students to basic survey methodology and data management. Students have the opportunity to practice the fundamentals of good survey design and how to enter, code and clean the data one collects. Topics include formulating research questions, sampling, sample size determination, linking instruments to conceptual frameworks, principles of item construction and scale development, modes of survey administration, and qualitative methods. During the laboratory component of the course, students learn how to develop and maintain a documentation system, create data entry screens, verify the accuracy of data entry, clean data, merge and subset data files, derive new variables, conduct descriptive analyses and summarize results.</p>				

<b>143533</b>	<b>Sexual &amp; Reproductive Health in Disaster Settings</b>			
	Subject:	Catalog Nbr:		
	CBUN	GH766		

<b>143534</b>	<b>Analysis of Emerging Infections Using One Health Approach</b>			
	Subject:	Catalog Nbr:		
	CBUN	PH825		