

GS04 1263: Cancer Epidemiology

Crosslisted course at School of Public Health (PH 2745)

Course Directors: Michelle Hildebrandt, PhD and Veronika Fedirko, PhD

Feature	Considerations
Instructor & TA Information (for each Faculty and TA)	<ul style="list-style-type: none"> Michelle Hildebrandt, PhD Veronika (Nika) Fedirko, PhD, MPH Qian Xiao, PhD (administrative lead for UTSPH)
	MHildebr@mdanderson.org / (713) 792-2242 / MDACC-SCR1.2021 VFedirko@mdanderson.org / (832) 750-5957/ MDACC-CPB4.3269 Qian.Xiao@uth.tmc.edu / (713) 500-9233 / UTSPH E603
	<ul style="list-style-type: none"> Office hours: By appointment. Students can contact instructors by email or phone to set up an appointment. Students at off campus sites will be assisted by telephone/teleconference
Course Description	<ul style="list-style-type: none"> Cancer Epidemiology: PH 2745 (SPH) or GS04 1263 (GSBS) Summer Semester Tuesday and Thursday 10:00-11:50
	<ul style="list-style-type: none"> Credits 3.0
	<ul style="list-style-type: none"> Format: ITV and Face-to-face (hybrid and remote delivery) Room: RAS E606
	<ul style="list-style-type: none"> Course Description - A lecture/seminar course that reviews the epidemiology of major cancers by anatomic site and discusses seminal studies and current issues in cancer epidemiological research including methodology, cancer surveillance, international studies, observational studies, and intervention trials. The course will include an overview of basic concepts pertinent to cancer epidemiology research and prevention including biology, descriptive statistics, risk factors, and genetics. Selected publications from epidemiologic literature provide examples for student-faculty discussion.
	<ul style="list-style-type: none"> This is an elective epidemiology course
Textbook and Materials	Required Text: <ul style="list-style-type: none"> None Recommended Texts: (<i>Review copies of recommended texts are on hold at the library</i>) <ul style="list-style-type: none"> <i>Fundamentals of Cancer Epidemiology</i> by P. Nasca and H. Pastides <i>Cancer Epidemiology and Prevention</i> by D. Schottenfeld & J.F. Fraumeni
Course Expectations	<ul style="list-style-type: none"> Attend all course lectures and seminars, participate and ask questions Read the discussion articles for class seminars and participate in the seminar
Course Learning Objectives	As a result of taking this course, the students will be able to... <ul style="list-style-type: none"> Identify the most common types of cancer in the US and contrast them with the most lethal cancers in the US. Identify differences between the epidemiology and clinical aspects of different types of cancer Critically evaluate studies of environmental risk factors for the development of cancer

	<ul style="list-style-type: none"> • Identify environmental risk factors for cancer that have the highest impact on the incidence of common cancers • Critically evaluate studies of genomic risk factors for the development of cancer • Identify genetic variants that have the highest impact on the incidence of common types of cancer • Speak fluently about recent advances and emerging methodologies used in research in cancer epidemiology
List of Topics	<ul style="list-style-type: none"> • Introduction to Cancer Epidemiology • Introduction to Cancer Biology, Genetics and Molecular Epidemiology • Cancer risk factors • Cancer outcomes research. • Site specific cancers. • Health behaviors and cancer. • Resources for cancer epidemiology research.
Learning Activities	<ul style="list-style-type: none"> • Attend class • Participate in class discussions and seminars • Prepare to present each of the assigned journal articles. Articles will be provided 1 week or more prior to presentation date. For each discussion, several students will be assigned to give a 20-minute presentation. After the presentation students will be randomly selected to lead a class discussion of the article.
Grading	<ul style="list-style-type: none"> • This is a pass/fail class. In order to pass students must 1) be present for the duration of 20 of the 24 class sessions (In order to be considered present students must arrive by 10:10 and stay until 11:50); 2) complete make-up assignment for each class missed (see below); 3) present in one journal club discussion; 4) be prepared to lead classroom discussion for journal club discussions, 5) actively engage in classroom discussions. • Make-up assignment: Students who miss a class session should submit make-up assignment: 1) Submit a written summary of the lecture including two thoughtful questions for the lecturer. 2) For journal clubs, submit a 1-page critique. • If students miss more than 6 class sessions they must withdraw from the class or receive a failing grade. In the event of illness or other emergency, students may take an incomplete and complete these activities sometime before the end of the fall semester. Incompletes will not be offered for students who miss more than 6 class sessions. All incompletes must be resolved before the end of Fall Semester.
Prerequisites	<ul style="list-style-type: none"> • Prerequisites:

and/or Technical Requirements	SPH – Epidemiology I (PHM 2612) & Introduction to Biostatistics in Public Health (PHM 1690), or consent of instructor GSBS – Foundations of Biomedical Research (GS21 1017), or consent of instructor
	<ul style="list-style-type: none"> • No technical requirements
	<ul style="list-style-type: none"> • Withdrawal Information: <ul style="list-style-type: none"> ○ See UTHealth academic calendar for the last day to withdraw from this class ○ See UTSPH website for forms to withdraw from a class
	<ul style="list-style-type: none"> • Incomplete Grades: <ul style="list-style-type: none"> ○ If you cannot complete the necessary assignments before the last day of class on August 5th, see Dr. Xiao (in person or via email) to request an incomplete. Incompletes will not be offered to students who miss more than 6 class sessions.
	<ul style="list-style-type: none"> • <u>SPH Writing Support Services</u> SPH Writing Support Services provides free writing instruction for all students at all stages of the writing process. An ESL training specialist and an Academic Writing training specialist are available for in-person and online writing consultations. During each writing consultation, the training specialist will work with you to meet your and your instructor’s goals for a particular writing assignment. SPH Writing Support Services will assist you in many areas of writing to help you take responsibility for your own writing. SPH Writing Support Services is located in the SPH Library (RAS E-125) in the Houston campus, but it is available to students at all SPH campuses via interactive television (ITV). To schedule an in-person appointment or an ITV session with SPH Writing Support Services, please call 713-500-9121 or e-mail SPHWritingHub@uth.tmc.edu. • <u>ADA Accommodation</u> UT Policy on Accommodations for Disabilities: UTHealth is committed to providing equal opportunities for qualified employees, job applicants, and students with disabilities in accordance with state and federal law. Student applicants and enrolled students can obtain information concerning program-related accommodations in each school from the school’s Section 504 Coordinator (usually found in the Student Affairs office of each school). The Disability Coordinator (in Human Resources) and the Section 504 Coordinators can provide information and referrals regarding campus accessibility, disabled parking permits, transportation services, and other resources. The full policy can be found online in HOOP Policy Number 101, Disability Accommodation (http://www.uth.edu/hoop/policy.htm?id=1448050). <i>If you believe you have a disability requiring an accommodation, whether new or existing, please contact Mary Ann Smith, Assistant Dean of Students and ADA Accommodation Coordinator for UTHealth School of Public Health at mary.a.smith@uth.tmc.edu or (713) 500- 9236</i>

- Academic Integrity

Academic integrity is the pursuit of scholarly activity free from fraud and deception and is an educational objective of this institution. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Individuals found guilty of academic dishonesty may be dismissed from the degree program. It is a student's responsibility to have a clear understanding of how to reference other individuals' work, as well as having a clear understanding in general as to the various aspects of academic dishonesty. Any student accused of a specific act stated in the previous paragraph is subject to UTHealth School of Public Health academic policies and procedures pertaining to violations of the student code of conduct for academic integrity. Each student in this course is expected to abide by the UTHealth School of Public Health Honor Code signed at first matriculation. Any work submitted by a student in this course for academic credit will be the student's own work.

You are encouraged to study together and to discuss information and concepts covered in lecture and the sections with other students. You can give "consulting" help to or receive "consulting" help from such students. However, this permissible cooperation should never involve one student having possession of a copy of all or part of work done by someone else, in the form of an e-mail, an e-mail attachment file, a diskette, or a hard copy. During any quiz or exam, you must do your own work. Talking or discussion is not permitted during a quiz or exam unless specifically stated, nor may you compare papers, copy from others, lend or borrow calculators, or electronic devices, or collaborate in any way unless specifically stated. Any collaborative behavior during a quiz or exam will result in failure and may lead to failure of the course and UTHealth SPH disciplinary action. Should copying occur, both the student who copied work from another student and the student who gave material to be copied will both be held accountable.

Please remember that you signed the academic integrity policy at orientation. No academic dishonesty of any kind (including copying/plagiarism) will be tolerated. All suspected academic dishonesty (actual or attempted) or other violations of the student code of conduct will be immediately reported to the UTHealth SPH Associate Dean for Academic Affairs. You can review the Student Conduct and Discipline Policy in the Handbook of Operating Procedures (HOOP) at <https://www.uth.edu/hoop/policy.htm?id=1448220>

Course Calendar: Cancer Epidemiology, PH 2745 or GS04 1263

Date	Topic(s)	Speaker
May 16 (Tue) 10-10:50 11-11:50	Introduction to Course Methodological Issues in Cancer Epidemiology	Qian Xiao, PhD
May 18 (Th) 10-10:50 11-11:50	Introduction to Cancer Biology Introduction to Genetics & Molecular Epidemiology	Nika Fedirko, PhD, MPH Michelle Hildebrandt, PhD
May 23 (Tue) 10-10:50 11-11:50	Cancer Biomarkers & Technology Genetics and Genomics	Jian Gu, PhD Chad Huff, PhD
May 25 (Th) 10-10:50 11-11:50	Health Disparities and Underserved Populations ARTICLE DISCUSSION - BIOMARKERS	Scherezade Mama, PhD
May 30 (Tue) 10-10:50 11-11:50	Sleep and Circadian Rhythm Tobacco Cessation	Qian Xiao, PhD Jason Robinson, PhD
June 1 (Th) 10-10:50 11-11:50	Occupational Exposure and Cancer Risk ARTICLE DISCUSSION – CIRCADIAN RHYTHM	George Delclos, MD, PhD
June 6 (Tu) 10-10:50 11-11:50	Cancer Prevention Evidenced-based Cancer Screening	Priya Thomas, MD Terry Bevers, MD
June 8 (Th) 10-10:50 11-11:50	Lung Cancer Screening ARTICLE DISCUSSION - CANCER SCREENING	Lisa Lowenstein, PhD, MPH
June 13 (Tu) 10-10:50 11-11:50	Liver Cancer IRB Considerations for Cancer Epidemiology Studies	Manal Hassan, PhD Dima Suki, Ph.D.
June 15 (Th) 10-10:50 11-11:50	Nutritional Epidemiology and Energy Balance ARTICLE DISCUSSION – RADIATION RISK	Carrie Daniel, PhD, MPH
June 20 (Tu) 10-10:50 11-11:50	Renal Medullary Carcinoma – Causal Diagrams Endometrial Cancer	Pavlos Msaouel, MD, PhD Melinda Yates, PhD
June 22 (Th) 10-10:50 11-11:50	Radiation Therapy in Oncology and Cancer Risk Breast Cancer	Michelle Ludwig, MD, MPH Alex Hanania, MD, MPH Carlos Barcenás, MD, MPH
June 27 (Tu) 10-10:50 11-11:50	Head and Neck Cancer Cervical Cancer	Erich Sturgis, MD Project ECHO team
June 29 (Th) 10-10:50 11-11:50	Pancreatic Cancer ARTICLE DISCUSSION – HPV	Florencia McCallister, MD, PhD
July 4 (Tu) 10-10:50 11-11:50	NO CLASS NO CLASS	
July 6 (Th) 10-10:50 11-11:50	Prostate Cancer ARTICLE DISCUSSION – PROSTATE CANCER	David Lopez, DrPH, MPH
July 11 (Tu) 9-9:50 10-10:50	Leukemia Myeloma	Courtney DiNardo, MD Michelle Hildebrandt, PhD
July 13 (Th) 10-10:50 11-11:50	Colorectal Cancer Epidemiology ARTICLE DISCUSSION – HEME MALIGNANCIES	Nika Fedirko, PhD, MPH

July 18 (Tu) 10-10:50 11-11:50	Non-Melanoma Skin Cancer Childhood and AYA Cancer	Mackenzie Wehner, MD Michael Roth, MD
July 20 (Th) 10-10:50 11-11:50	Melanoma ARTICLE DISCUSSION – AYA CANCER	Isabella Glitza, MD
July 25 (Tu) 10-10:50 11-11:50	Lymphoma Colorectal Cancer Clinical Aspects	Dai Chihara, MD, PhD Arvind Dasari, MD
July 27 (Th) 10-10:50 11-11:50	Treatment Toxicities ARTICLE DISCUSSION – CRC	Kevin Nead, MD
Aug 1 (Tu) 10-10:50 11-11:50	Survivorship Research Cancer Survivor Panel	Michelle Hildebrandt, PhD Rebecca Kaul
Aug 3 (Th) 10-10:50 11-11:50	ARTICLE DISCUSSION – SURVIVORSHIP Final Discussion	