# University of Florida College of Public Health & Health Professions Syllabus Course Number: PHC7595 (3 credit hours) Semester: Fall 2023 Delivery Format: Synchronous Online Tuesdays, 9:35am-12:35pm Course Website: E-Learning in Canvas

Instructor Name: Lusine Yaghjyan, MD, MPH, PhD Room Number: NA, Zoom link provided under course Canvas Website Phone Number: 352-294-5940 Email Address: <u>lyaghjyan@ufl.edu</u> Office Hours: Wednesdays 12pm-1pm and by appointment, via Zoom Teaching assistants: None Preferred Course Communications: e-mail

## Prerequisites

Knowledge of basic concepts in epidemiology and study designs: PHC 6001.

#### PURPOSE AND OUTCOME

## **Course Overview**

This course covers the theoretical concepts in molecular epidemiology and use of biomarkers in epidemiologic studies. Class topics include: basics of molecular epidemiology, potential uses and limitations of biomarkers, sample collection and storage, issues in epidemiologic study design and analysis, and discussion of specific research examples involving molecular markers.

#### **Course Objectives and/or Goals**

The goal of this class is to provide a strong background for understanding the basic principles in molecular epidemiology design and methods. Upon successful completion of the course, students should be able to

- 1. Describe application of biomarkers in epidemiologic studies, including their strengths and limitations.
- 2. Identify the criteria used to evaluate a potential biomarker and critically evaluate selected examples
- Describe the major problems in collecting, storing and processing various biological samples for human population studies, ethical and legal considerations and principles of quality control for laboratory assays.
- 4. Critically evaluate application of study designs in molecular epidemiology.
- 5. Critically evaluate the use of biomarkers as measures of the internal dose of exogenous substances (environmental toxins, micronutrients, etc.).
- 6. Effectively synthesize & evaluate research to address a specific research question.

#### **DESCRIPTION OF COURSE CONTENT**

Week	Date	Topic(s)	Readings	HW	HW due
			(possibly alternate meeting place, or time)	Assigned	date
1	08/29/	Introduction:	Shulte P. A Chapter 1. A conceptual and historical framework for	HW 1	
	23	Review of	molecular epidemiology. In: Molecular Epidemiology: Principles and		
		fundamental	Practices (can be viewed online at Google Books)		
		concepts in	Perera FP and Weinstein IB. Molecular epidemiology: recent		
		molecular	advances and future directions. Carcinogenesis 2000; 21(3): 517-24.		
		epidemiology	Ambrosone CB and Kadlubar FF. Toward an integrated approach to		
		Use of	molecular epidemiology. Am J Epidemiol 1997; 146(11): 912-918.		

## **Topical Outline/Course Schedule**

Week	Date	Topic(s)	Readings	HW	HW due
		Biomarkers in Molecular Epidemiology.	Mayeux, R. Biomarkers: potential uses and limitations. NeuroRx 2004; 1(2): 182-188. Gallo et al. Strengthening the Reporting of Observational studies in EpidemiologyMolecular Epidemiology STROBE-ME: an extension of the STROBE statement. J Clin Epidemiol 2011; 64(12): 1350-1363.	Assigned	
2	09/05/ 23	Study designs in molecular epidemiology.	Fowke JH. Issues in the design of molecular and genetic epidemiologic studies. J Prev Med Public Health 2009; 42(6): 343- 348.	HW2	HW 1
3	09/12/ 23	Bias and confounding in molecular epidemiology Study design exercise	Vineis P and McMichael AJ. Bias and confounding in molecular epidemiological studies: special considerations. Carcinogenesis 1998. 19:2063-7.		Discussion paper selections due
4	09/19/ 23	Collecting and storing biospecimens: methodological considerations Exercise: identification of relevant labs	<ul> <li>Holland et al. Biological sample collection and processing for molecular epidemiological studies. Mutat Res 2003; 543(3): 217- 234.</li> <li>Schrohl et al. Banking of biological fluids for studies of disease- associated protein biomarkers. Mol Cell Proteomics 2008; 7(10): 2061-2066.</li> </ul>		
5	09/26/ 23	Biobanking. Selected laboratory techniques. Exercise: planning sample retrieval from the freezer Student paper discussion	Perera FP and Herbstman JB. Emerging technology in molecular epidemiology: what epidemiologists need to know. EPIDEMIOLOGY 2008. 19:350-2. Erickson HS. Measuring molecular biomarkers in epidemiologic studies: laboratory techniques and biospecimen considerations. Stat Med 2012. 31:2400-13. TBA		HW2
6	10/03/ 23	Environmental exposure assessment. Basics concept in genetic epidemiology, biomarkers of susceptibility, and gene- environment interactions Exercise: Using CDC report on environmental exposures Student paper discussion	Links et al. Biomarkers and mechanistic approaches in environmental epidemiology. Annu Rev Public Health 1995; 16: 83- 103. Gann et al. Biological markers in environmental epidemiology: constrains and opportunities. In: Methods for Assessing Exposure of Human and Non-Human Biota, 1991. Schulte PA, Waters M. Using molecular epidemiology in assessing exposure for risk assessment. Ann N Y Acad Sci. 1999; 895:101-11. Nurminen et al. Methodological issues in epidemiologic risk assessment. Epidemiology 1999; 10:585-593 Smith et al. Generic epidemiology and public health: hope, hype, and future prospects. Lancet. 2005; 22-28; 366(9495):1484-98. Hunter, D. J. Gene-environment interactions in human diseases. Nat Rev Genet 2005; 6(4): 287-298. <b>TBA</b>		
7	10/10/	UF CTSI	Students will meet with the biorepository staff using our regular		

Week	Date	Topic(s)	Readings	HW	HW due
	22	Dioropository	(possibly alternate meeting place, or time)	Assigned	date
	25	virtual tour			
8	10/17/		Vineis P. Perera F. Molecular enidemiology and biomarkers in		
0	23	biomarkers in	etiologic cancer research: the new in light of the old Cancer		
	20	cancer	Epidemiol Biomarkers Prev 2007: 16(10): 1954-1965.		
		8epidemiology	Boffetta. P. Biomarkers in cancer epidemiology: an integrative		
		E9xercise:	approach. Carcinogenesis 2010: 31(1): 121-126		
		Us10ing NCBI	TBA		
		webs11ite			
		Student paper			
		discussion			
9	10/24/	Intermediate	ТВА		
	23	review of			
		student final			
		project topics			
		Planning and			
		executing a			
		molecular epi			
		evample			
		Student naner			
		discussion			
10	10/31/	Special topics:	Gjerde et al. Using biological samples in epidemiological research on		
	23	Biomarkers of	drugs of abuse. Norwegian Journal of Epidemiology 2011; 21(1)		
		drug abuse	Chang WJ, Joe KT, Park HY, Jeong JD, and Lee DH. The relationship of		
		Biomarkers of	liver function tests to mixed exposure to lead and organic solvents.		
		kidney and liver	Ann Occup Environ Med 2013. 25:5.		
		damage	Beulens JW, Rimm EB, Hu FB, Hendriks HF, and Mukamal KJ. Alcohol		
		Student paper	consumption, mediating biomarkers, and risk of type 2 diabetes		
		discussion	among middle-aged women. Diabetes Care 2008. 31:2050-5		
11	11/07/	Special topics:	IBA Eliassen A. H., et al. Biomarker validation of dietary intervention in		
	23	Biomarkers of	two multiethnic populations. Prev Chronic Dis 2006: 3(2): A44		
	23	dietary intake	Blanck, H. M., et al. Laboratory Issues: Use of Nutritional Biomarkers		
		and	The Journal of Nutrition 133(3): 888S-894S.		
		interventions	Diamant et al. Biomarkers in asthma and allergic rhinitis. Pulm		
		Biomarkers of	Pharmacol Ther 2010; 23(6): 468-481.		
		allergy and	Foxman B. Contributions of molecular epidemiology to the		
		asthma	understanding of infectious disease transmission, pathogenesis, and		
		Biomarkers in	evolution. Ann Epidemiol 2007; 17(2): 148-156.		
		infectious	ТВА		
		diseases			
		Student paper			
12	11/1/	Special topics:	Shields PG Molecular enidemiology of smoking and lung cancer		
	23	Biomarkers of	Oncogene 2002: 21(45); 6870-6876.		
		smoking and	Guipaud O and Benderitter M. Protein biomarkers for radiation		
		radiation	exposure: towards a proteomic approach as a new investigation		
		Biomarkers of	tool. Ann Ist Super Sanita 2009. 45:278-86.		
		cardiac injury.	Vasan RS. Biomarkers of cardiovascular disease: molecular basis and		
		Considerations	practical considerations. Circulation 2006; 113(19): 2335-2362		

Week	Date	Topic(s)	Readings	HW	HW due
			(possibly alternate meeting place, or time)	Assigned	date
		in statistical	ТВА		
		analysis of ME			
		studies			
		Student paper			
		discussion			
13	11/21/	Course review			
	23				
14	11/28/	Student			Final
	23	presentations			papers
15	12/05/	Student			
	23	presentations			

# **Course Materials and Technology**

# Text/Readings

## No required text.

Recommended: Molecular Epidemiology of Chronic Diseases by Chris Wild, Paolo Vineis, and Seymour Garte. Hoboken, NJ: John Wiley & Sons Inc., 2008.

Each week there will be one or more required readings that could include information from articles, or book chapters provided by the instructor. When possible, the articles for the class will be posted on Canvas.

## Canvas

Canvas is accessible at lss.at.ufl.edu or through my.ufl.edu. You must have a valid Gatorlink ID and password. For assistance, call the UF Help Desk at 392-HELP.

Required: All materials will be posted in Canvas. Students are responsible for all course material, including required readings prior to each class. Readings will be assigned from textbook chapters, historical or current scientific research literature.

For technical support for this class, please contact the UF Help Desk at:

- Learning-support@ufl.edu
- (352) 392-HELP select option 2
- https://lss.at.ufl.edu/help.shtml

Our class lecture and discussion sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

For technical support for this class, please contact the UF Help Desk at:

- helpdesk@ufl.edu
- (352) 392-HELP - select option 2
- https://helpdesk.ufl.edu/

## Additional Academic Resources

Career Connections Center: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

<u>Library Support</u>: Various ways to receive assistance with respect to using the libraries or finding resources.

<u>Teaching Center</u>: Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.

<u>Writing Studio</u>: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.

Student Complaints On-Campus: <u>Visit the Student Honor Code and Student Conduct Code</u> webpage for more information.

On-Line Students Complaints: View the Distance Learning Student Complaint Process.

# ACADEMIC REQUIREMENTS AND GRADING

#### Assignments

#### Homework

There is no formal exam for this course. However, the students will be required to complete two homework assignments and a final project. All files will need to be submitted electronically in Word format. Files submitted in any alternative form (for example, Word file with embedded images instead of the text, etc.) will not be graded and will automatically receive a score of "0". Any late submissions will automatically receive a score of "0".

<u>Homework #1 (10 points)</u>: Due by the class start time on the 2<sup>nd</sup> week. Students will have to select one example of biomarker of external dose, internal dose, biologically active dose, and biological effect and explain why they chose each of the markers. During the class discussion, all students will present their selections and justifications to the class (<u>no PowerPoint!</u>). This homework will count 10% towards the final grade.

<u>Homework #2 (20 points).</u> Due by the class start time on the 5<sup>th</sup> week. Students need to select one biomarker for the final project and write two-page justification why this is a good candidate biomarker for their final project. They will also need to select the preferred format for the final paper. If format #3 is selected, please provide citations for two selected articles. This homework will count 20% towards the final grade.

**Class Participation and in-class paper discussion (10 points):** Each student will be asked to choose one article of their choice that uses biomarkers to investigate associations of interest. The paper will have to be submitted to the instructor by no later than 09/12/2023. Failure to provide the article by this deadline will result in two point deduction from the participation grade. The student will briefly present the study and prepare 2-3 questions to lead a 20-30 minute discussion. The questions should focus on various methodological issues pertinent to overall study design, specimen collection, biomarker use, and data analysis/interpretation.

Class participation and in-class discussion will count 10% towards the final grade. Please note that meetings with mentors/other faculty during the class time will not be considered as an excused absence and will result in point deduction for attendance.

**Final project (40 points):** Students will have an opportunity to choose from three possible formats for their final project (40 points total):

<u>Format #1</u>: Students will develop a 6-page proposal for a molecular epidemiology study. The proposal will adhere to the following format: introduction; hypothesis/specific aims; research strategy; study limitations. Special attention will be paid to the proper use of Mol Epi terminology and sufficient details on different aspects of the selected biomarker. The paper will be graded based on the clarity of the research question, its justification and supporting literature (10 points); proper design choice and description of the research strategy (population; exclusion/inclusion criteria; sample collection; detailed biomarker measurement, including lab methods (if more than one exist; justification of the method selection); statistical analysis (20 points); proper proposal structure (5

points); critical thinking (5 points). Sample size and power calculations are not required, but additional points will be assigned if discussed.

<u>Format #2</u>: (Preferred format) Literature Review: Each student will write a review of the literature on the use of a biomarker(s) in a particular disease/organ system. The manuscript will be prepared according to the general expectations for a publishable review article (introduction, methods, results, and discussion) and will identify and describe the disease-exposure relationship (5 points); organize information and relate it to the research question you are developing (5 points); synthesize results into a summary of what is and is not known (10 points); identify gaps and controversy in the literature (10 points); use tables and/or figures to graphically represent data (5 points); develop questions for further research (5 points). Sample literature reviews are provided under the course materials.

<u>Format #3:</u> (Format available for those working in areas with little existing research). The students will select two articles investigating the same marker-disease association but reporting controversial findings. They will write a 6 page paper comparing two investigations and critically summarizing study features that contribute to the differences in findings. Special attention should be paid to the differences in molecular epidemiology methods used by the authors. Simple summary of the two studies or comparison of general design features will not be sufficient. The paper will be graded based on the paper structure and flow (5 points); in-depth comparison of the molecular epidemiology methods (15 points); discussion of the design features that contribute to controversial findings (20 points).

The final project will contribute 40% towards your final grade and will be due before the class on 11/29/2022. Any late submissions will automatically receive a score of "0".

**Presentations (20 points):** Regardless of the chosen format for the final project, each student will present their final work as a 30 minute presentation scheduled during the last two weeks (20 minute talk + 5-10 minute Q&A). Assessment of presentations will be based on organization and flow (3 points), subject knowledge (8 points), visual representation (5 points); style (mechanics, eye contact, etc., 2 points), and Q&A session (2 points). The form used to evaluate the critique will be posted on Canvas prior to presentations. The presentation will contribute 20% towards the final grade.

Since presentation skills are critical for dissemination of results from epidemiologic investigations and since student presentations are graded based on both presentation content and style/professionalism, to facilitate a proper evaluation of these skills in online sessions presenting students will be asked to keep their cameras on during their presentation. Failure to turn on the camera could result in the student not receiving full score for presentation assignments

## Grading

Grading will be based on attendance and class participation (10%), homework assignments (10% for HW #1 and 20% for HW#2); in-class paper discussion (10%), final paper (40%), and final presentation (20%). There will be no exams.

Assignment	Due date	Points or % of final grade	
Homework 1	09/05/2023	10% (10 points)	
Homework 2	09/26/2023	20% (20 points)	
Final project	11/28/2023	40% (40 points)	
Final presentation	As scheduled	20% (20 points)	
Attendance and in-class participation/discussion	Discussion paper selection due 09/12/2023	10% (10 points)	

Points system used:		
Percentage	Letter	
Earned	Grade	
93-100	А	
90-92	A-	
87-89	B+	
83-86	В	
80-82	B-	
77-79	C+	
73-76	C	
70-72	C-	
67-69	D+	
63-66	D	
60-62	D-	
Below 60	E	

Please be aware that a C- is not an acceptable grade for graduate students. The GPA for graduate students must be 3.0 based on 5000 level courses and above to graduate. A grade of C counts toward a graduate degree only if based on credits in courses numbered 5000 or higher that have been earned with a B+ or higher.

Letter	Grade
Grade	Points
А	4.0
A-	3.67
B+	3.33
В	3.0
B-	2.67
C+	2.33
С	2.0
C-	1.67
D+	1.33
D	1.0
D-	0.67
E	0.0
WF	0.0
I	0.0
NG	0.0
S-U	0.0

More information on UF grading policy may be found at: <u>http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#grades</u>

#### Exam Policy

### Policy Related to Make up Exams or Other Work

Make-up work will be allowed by the course instructor on an individual basis after an excused absence. Students should consult with the professor for new deadlines for assignments <u>ahead of time and before the original</u> <u>deadline</u>. Failure to do so as well as late submissions of the assignments will automatically receive a score of '0'. Please consult the university guidelines for more information on makeup policies: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx. Please note: Any requests for make-ups due to technical issues MUST be accompanied by the UF Computing help desk (<u>http://helpdesk.ufl.edu/</u>) correspondence. You MUST e-mail me within 24 hours of the technical difficulty if you wish to request a make-up.

# **Policy Related to Required Class Attendance**

This is an interactive class and students are <u>expected to be present and to participate in all class sessions</u>. Students who know they will need to miss a class session should discuss this with the instructor prior to the date of the class, or on the day of the absence for illness or emergency. According to the UF Catalog (link below) "In general, acceptable reasons for absences from class include illness, serious family emergencies, special curricular requirements, military obligation, severe weather conditions, religious holidays, and participation in official University activities. Absences from class for court-imposed legal obligations (e.g., jury duty or subpoena) must be excused. Other reasons also may be approved."

Please note all faculty are bound by the UF policy for excused absences. Excused absences must be consistent with university policies in the Graduate Catalog (<u>https://catalog.ufl.edu/graduate/regulations/#text</u>). Additional information can be found here: <u>https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx</u>

# STUDENT EXPECTATIONS, ROLES, AND OPPORTUNITIES FOR INPUT

# **Expectations Regarding Course Behavior**

Class participation is expected (unless excused as described above). Please note that meetings with mentors/other faculty during the class time will not be considered as an excused absence and will result in point deduction for attendance (one point per each absence).

## **Communication Guidelines**

# UF Netiquette Guidelines can be found here: http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf

## Academic Integrity

Students are expected to act in accordance with the University of Florida policy on academic integrity. As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge:

# "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."

You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied:

# "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For additional information regarding Academic Integrity, please see Student Conduct and Honor Code or the Graduate Student Website for additional details:

https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/

#### http://gradschool.ufl.edu/students/introduction.html

Please remember cheating, lying, misrepresentation, or plagiarism in any form is unacceptable and inexcusable behavior.

## **Citations and Plagiarism**

The two key purposes of citation are to: 1) give appropriate credit to the authors of information, research findings, and/or ideas (and avoid plagiarism), and 2) facilitate access by your readers to the sources you use in your research.

Quotations: When directly quoting an outside source, the borrowed text, regardless of the amount, must be surrounded by quotation marks or block quoted. Quoted text over two lines in length should be single-spaced and indented beyond the normal margins. Every quote must include a source—the author, title, volume, page numbers, etc.—whether an internal reference, footnote, or endnote is used in conjunction with a bibliography page.

Paraphrasing or Citing an Idea: When summarizing an outside source in your own words or citing another person's ideas, quotation marks are not necessary, but the source must be included. This includes, but is not confined to, personal communications from other students, faculty members, experts in the field, summarized ideas from published or unpublished resource, and primary methods derived from published or unpublished sources. Use the general concept of "when in doubt – cite."

Plagiarism is a serious violation of the academic honesty policy of the College. If a student plagiarizes others' material or ideas, UF Policies on Honesty and honor code violations, noted above, will be followed.

Generally speaking, the three keys of acceptable citation practice are: 1) thoroughness, 2) accuracy, and 3) consistency. In other words, be sure to fully cite all sources used (thoroughness), be accurate in the citation information provided, and be consistent in the citation style you adopt. All references should include the following elements: 1) last names along with first and middle initials; 2) full title of reference; 3) name of journal or book; 4) publication city, publisher, volume, and date; and 5) page numbers referenced. When citing information from the Internet, include the WWW address at the end, with the "access date" (i.e., when you obtained the information), just as you would list the document number and date for all public documents. When citing ideas or words from an individual that are not published, you can write "personal communication" along with the person's name and date of communication.

#### Use of unauthorized assistance resources

As graduate students at the UF, you are expected to present your own work for grading. Unauthorized sources of help, including commercially available software and services are not allowed. Even though the students will not be graded on their grammar, it is expected that as graduate students you will have sufficient English language skills to convey your thoughts in organized and understandable manner. If the assignment is unreadable, it will not be graded and will be assigned zero points. Use of unauthorized assistance sources will result in zero points on the written assignment and a report to the Dean of Student's Office. If you need assistance with English language and/or writing, you may visit the UF Writing Program Website to learn about available help.

## **Recording Within the Course:**

All lectures within the course will be recorded and available to students to review. Publication of any course materials and without permission of the instructor is prohibited. To "publish" means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript

of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

# Policy Related to Guests Attending Class:

Only registered students are permitted to attend class. However, we recognize that students who are caretakers may face occasional unexpected challenges creating attendance barriers. Therefore, by exception, a department chair or his or her designee (e.g., instructors) may grant a student permission to bring a guest(s) for a total of two class sessions per semester. This is two sessions total across all courses. No further extensions will be granted. Students are responsible for course material regardless of attendance. For additional information, please review the Classroom Guests of Students policy in its entirety. Link to full policy: <a href="https://phhp.ufl.edu/policy-classroom-guests-of-students/">https://phhp.ufl.edu/policy-classroom-guests-of-students/</a>

# **Online Faculty Course Evaluation Process**

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <a href="https://gatorevals.aa.ufl.edu/students/">https://gatorevals.aa.ufl.edu/students/</a>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <a href="https://ufl.bluera.com/ufl/">https://ufl.bluera.com/ufl/</a>. Summaries of course evaluation results are available to students at <a href="https://gatorevals.aa.ufl.edu/public-results/">https://ufl.bluera.com/ufl/</a>.

## SUPPORT SERVICES

# Accommodations for Students with Disabilities

If you require classroom accommodation because of a disability, it is strongly recommended you register with the Dean of Students Office <a href="http://www.dso.ufl.edu">http://www.dso.ufl.edu</a> within the first week of class or as soon as you believe you might be eligible for accommodations. The Dean of Students Office will provide documentation of accommodations to you, which you must then give to me as the instructor of the course to receive accommodations. Please do this as soon as possible after you receive the letter. Students with disabilities should follow this procedure as early as possible in the semester. The College is committed to providing reasonable accommodations to assist students in their coursework.

# **Counseling and Student Health**

Students sometimes experience stress from academic expectations and/or personal and interpersonal issues that may interfere with their academic performance. If you find yourself facing issues that have the potential to or are already negatively affecting your coursework, you are encouraged to talk with an instructor and/or seek help through University resources available to you.

- The **Counseling and Wellness Center** 352-392-1575 offers a variety of support services such as psychological assessment and intervention and assistance for math and test anxiety. Visit their web site for more information: <u>http://www.counseling.ufl.edu</u>. On line and in person assistance is available.
- **U Matter We Care** website: <u>http://www.umatter.ufl.edu/</u>. If you are feeling overwhelmed or stressed, you can reach out for help through the You Matter We Care website, which is staffed by Dean of Students and Counseling Center personnel.

- The **Student Health Care Center** at Shands is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at Shands offers a variety of clinical services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: <a href="https://shcc.ufl.edu/">https://shcc.ufl.edu/</a>
- Crisis intervention is always available 24/7 from: Alachua County Crisis Center: (352) 264-6789 http://www.alachuacounty.us/DEPTS/CSS/CRISISCENTER/Pages/CrisisCenter.aspx
- University Police Department: <u>Visit UF Police Department website</u> or call 352-392-1111 (or 9-1-1 for emergencies).
- UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; <u>Visit the UF</u> <u>Health Emergency Room and Trauma Center website</u>.

Do not wait until you reach a crisis to come in and talk with us. We have helped many students through stressful situations impacting their academic performance. You are not alone so do not be afraid to ask for assistance.

## Inclusive Learning Environment

Public health and health professions are based on the belief in human dignity and on respect for the individual. As we share our personal beliefs inside or outside of the classroom, it is always with the understanding that we value and respect diversity of background, experience, and opinion, where every individual feels valued. We believe in, and promote, openness and tolerance of differences in ethnicity and culture, and we respect differing personal, spiritual, religious and political values. We further believe that celebrating such diversity enriches the quality of the educational experiences we provide our students and enhances our own personal and professional relationships. We embrace The University of Florida's Non-Discrimination Policy, which reads, "The University shall actively promote equal opportunity policies and practices conforming to laws against discrimination. The University is committed to non-discrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information and veteran status as protected under the Vietnam Era Veterans' Readjustment Assistance Act." If you have questions or concerns about your rights and responsibilities for inclusive learning environment, please see your instructor or refer to the Office of Multicultural & Diversity Affairs website: www.multicultural.ufl.edu