College of Public Health & Health Professions

***Syllabus***

**Communication Techniques in Environmental Health**

PHC 6937 – 2 (3) Credit Hours - Summer A

Schedule M, T, W, Th 8:30-noon for 2 (3) weeks beginning June XX

***Coursemaster*:**

Andrew S. Kane, MS, PhD

Department of Environmental and Global Health

College of Public Health and Health Professions

Aquatic Pathobiology Laboratories, Building 1379

(352) 273-9090; kane@ufl.edu

Office hours: After class or by arrangement

**Course overview:**

This graduate-level course will provide an overview of techniques relevant to developing and delivering successful platform, poster and written scientific presentations. Presentation styles covered will include outreach at regional and national professional society meetings, interviewing, proposal writing, and short communications. Emphasis will be on oral presentation delivery, content organization, and successful content delivery based on target audience perspective. The course consists of lectures, student presentations and intensive constructive critique.

**Justification:**

New scientific and medical methods, therapies and technology is dependent on rigorous scientific methods and research efforts. Excellent science in a vacuum, however, is meaningless. It is critical for graduate students to be able to communicate their science to a variety of audiences as an integral part of their professional education and training. Although communication techniques are incorporated into many courses taught at the graduate level, this class uniquely provides focus on the different scientific presentation formats (i.e., oral, poster, written), and the opportunity examine the mechanical techniques to support optimal delivery of the scientific content for different audiences, both explicitly and tacitly. The need to communicate science is paramount in a range professional arenas including academic science, environmental and public health, human and veterinary medicine, and in state and federal management. Excellence in communication has direct application at scientific meetings, developing manuscripts for professional journals, submitting successful grant applications, drafting resumes, interviewing, and sharing techniques with piers and the public. This course is designed to build communication proficiency by focusing on organizational skills, confidence building, application of appropriate techniques and technology, and actual presentation “flight time” with focus on environmental health topics.

Students are expected to be on time, and attend and participate in all classes. Each student is required to develop an oral and poster presentation on an assigned/approved topic. The approved topic will focus on some aspect of their own thesis or dissertation research, or another topic as agreed upon with the instructor. A PowerPoint “notes” presentation on the same topic will also be developed and submitted by the student as the written component of this assignment. Other in-class presentation assignments will also be included.

**Learning objectives:**

*Upon successful completion of this course students will be able to:*

1. Critically review scientific literature pertinent to environmental health and public health;
2. Recognize the needs of different target audiences with focus on communicating what needs to be perceived, rather than what needs to be shared;
3. Dialog with reporters and the media;
4. Integrate different graphical presentation styles that reveal data trends, and appropriately show cause and effect;
5. Organize and optimize presentation elements including the use of software tools (e.g., PowerPoint, Photoshop, QuickTime) and use of digital cameras;
6. Develop and deliver effective poster and oral scientific presentations;
7. Develop an effective résumé or curriculum vitae;
8. Understand effective grantsmanship from a review standpoint;
9. Constructively critique oral scientific presentations;
10. Organize and deliver well-synthesized scientific presentations, using oral, written and visual techniques on topics relevant to environmental and public health.

**Course materials:**

Handouts for lectures and other reading materials will be distributed in class.

#### Topical Outline

Why we present as scientists: getting our audience(s) to think differently

Presenting for our audiences to hear our message (rather than for us to tell them our message)

Presentation venues and opportunities at all levels of scientific careers

Mechanics of presenting and use of AV equipment

Interacting with the media, and team interview experience and presentation

Elevator presentations #1 and #2

10-minute presentation development: constructs and examples

Constructive critique of literature and presentations

Scientific presentations by world leaders: examples and applications

Overview of grantsmanship

Graphing data and revealing relationships

Presentation metaphors and tricks to consider (and not consider)

Working with Word and PowerPoint

Poster presentations and handouts

**Course requirements and grading**:

Grade will be assigned based on attendance in each class, active contribution to class discussions, and completion of all assignments.

**Letter grades will be assigned according to the following scale:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Percentage or points earned in class** | **93%-100%** | **90%-92%** | **87%-89%** | **83%-86%** | **80%-82%** | **77%-79%** | **73%-76%** | **70%-72%** | **67%-69%** | **63%-66%** | **60%-62%** | **<60%** |
| **Letter Grade equivalent** | A | A- | B+ | B | B- | C+ | C | C- | D+ | D | D- | E |

Letter grades for this course translate to the following grade points at the University of Florida:

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

**Code of conduct:**

All students are expected to abide by the University of Florida’s honor code and code of conduct. Cheating, lying, misrepresentation, or plagiarism in any form is unacceptable and inexcusable behavior, Information pertaining to these codes can be viewed via the two website below, respectively:

http://www.dso.ufl.edu/judicial/honorcode.php

http://www.dso.ufl.edu/studentguide/studentconductcode.php

**Policy related to class attendance, make-up exams and other work:**

Students are expected to attend and be prepared to participate in all class sessions. Personal issues with respect to class attendance or fulfillment of course requirements will be handled on an individual basis.

#### Statement Related to Accommodations for Students with Disabilities

If you require classroom accommodation because of a disability, you must first register with the Dean of Students Office (<http://oss.ufl.edu/>). The Dean of Students Office will provide documentation to you, which you then give to the instructor when requesting accommodation. The College is committed to providing reasonable accommodations to assist students in their coursework.

#### Counseling and Student Health

Students may occasionally have personal issues that arise in the course of pursuing higher education or that may interfere with their academic performance. If you find yourself facing problems affecting your coursework, you are encouraged to talk with an instructor and to seek confidential assistance at the University of Florida Counseling Center, 352-392-1575, or Student Mental Health Services, 352-392-1171. Visit their web sites for more information: <http://www.counsel.ufl.edu/> or <http://www.health.ufl.edu/shcc/smhs/index.htm#urgent>

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, including primary care, women's health care, immunizations, mental health care, and pharmacy 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: [www.health.ufl.edu/shcc](http://www.health.ufl.edu/shcc)

Crisis intervention is always available 24/7 from: Alachua County Crisis Center: (352) 264-6789.

BUT – *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*.