

BIMS 489 21st Century Global One Health Threats
Course Syllabus
Spring Semester – 2020

COURSE COORDINATOR AND INSTRUCTOR:

Section 502-503

Dr. Colin Young, Course Coordinator

Department of Veterinary Integrative Biosciences

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979-458-1053

Office Hours by Appointment

Office Location: Veterinary & Biomedical Education Complex (VBEC), VIDI Rm 337

MEETING TIMES:

Section 502: Friday @ 1:30 - 2:20

Section 503: Friday @ 3:05 – 3:55

CLASS/LAB LOCATION: National Center for Therapeutic Manufacturing, Room 122

CREDIT HOURS: 1 Hour

COURSE DESCRIPTION: In depth presentation of concepts of surveillance, epidemiology and resistance, tropical medicine and One Health, climate change and One Health, conservation medicine and One Health, and protection science policy and One Health.

PREREQUISITES:

Approval of instructor.

RECOMMENDED TEXTS AND MATERIALS:

All recommended texts and readings will be made available through eCampus.

COURSE GOALS:

1. To provide intellectual input for senior students having a common interest in any aspect of One Health, the environment, climate change, protection science and policy.
2. To foster final year students' abilities to integrate learning across disciplines and gain an understanding of the value of a One Health framework for improving global health.
3. To provide students with contacts with faculty members, industry experts, and science policy experts as a resource for information on topics on One Health.

LEARNING OUTCOMES:

At the conclusion of the semester, students will:

1. identify all of the factors involved in One Health and how these factors can affect the quality of humans, animals, and the environment.
2. explain these concepts to a lay audience.
3. illustrate how a multifaceted approach, incorporating different disciplines, can produce science driven changes in the health of the planet.

COURSE POLICIES & INSTRUCTOR EXPECTATIONS:

- Students will be expected to attend all 14-class sessions.
- Multiple guests will be in attendance at sessions throughout the semester; students are expected to be on time! This is a courtesy to the speaker and a sign of professionalism on the part of students.
- Students are expected to avail themselves of the information and opportunities presented throughout the semester. This means ask questions if you don't understand, read or view assignments before class, and visit with the faculty if you would like further information on a topic.
- Students will be courteous and respectful of one another and our presenters. This means cell phones and mobile devices will not be used during class except as directed by the instructor or guest lecturer.
- Failure to attend a class without a university-approved excuse will result in a 5-point loss per absence.

EVALUATION/GRADING OF THE COURSE:

Grading will be based on the best scores on 10 out of 14 quizzes taken online through e-Campus and on class attendance according to a 500-point scale:

50 points per quiz – best of 10 = 500 points possible

450 - 500 points	= A
400 – 449.9 points	= B
350 – 399.9 points	= C
300 – 349.9	= D
< 300 points	= F

Quizzes will be taken online and will cover the material from the most recent class period. Students are expected to read their lecture notes as well as the provided online materials, and then take the posted quiz on eCampus. **The quiz must be completed by 11:59 pm of the following Thursday**, and a re-take can be attempted up to **72 hours** following the deadline. The highest score of the two will be graded. Students with a University-approved excuse will be allowed to make-up the quizzes. Students with non-approved excuses will only be allowed to make-up the quizzes in exceptional circumstances.

ATTENDANCE & LATE WORK POLICY:

Late work (quizzes) is only accepted in the case of a University-approved excuse. See Student Rule 7 for a complete definition (<http://student-rules.tamu.edu/rule07>).

Attendance will be taken weekly. An unexcused absence in the course will reduce your grade by 5 points (out of a possible 500). In the case of a University-approved absence, please notify the instructor within 48 hours of the absence.

AMERICANS WITH DISABILITIES ACT (ADA) POLICY STATEMENT

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information, visit <http://disability.tamu.edu>.

ACADEMIC INTEGRITY STATEMENT AND POLICY

"An Aggie does not lie, cheat or steal, or tolerate those who do." For additional information, please visit: <http://aggiehonor.tamu.edu>.

COURSE TOPICS, INSTRUCTORS, CALENDAR OF ACTIVITIES, AND LEARNING OBJECTIVES:

Class Date	Topic	Presenter	Quiz Due Date
Surveillance, Epidemiology, and Resistance			
Jan 17	Pandemics, Infectious Diseases and Bioinformatics	Dr. J. Cai	Jan 23 - 11:59pm
Jan 24	Interface between Domestic Animals and Wildlife	Dr. I. Zecca	Jan 30 - 11:59pm
Jan 31	Wildlife Trade as a Mechanism for Exotic Disease Spill-Overs	Dr. W. Cook	Feb 6 - 11:59pm
Feb 7	Bats as Reservoirs of Novel Diseases	Resident	Feb 13 - 11:59pm
Feb 14	The Challenge Declining Antibiotic Effectiveness	Dr. V. Fajt	Feb 20 - 11:59pm
Environment and One Health			
Feb 21	Tropical Medicine and One Health	Dr. R. Fisher	Feb 27 - 11:59pm
Feb 28	Challenges of Vaccine Programs in the Current Climate	Dr. Hotez	Mar 5 - 11:59pm
Climate Change and One Health			
Mar 6	Modeling of Infectious Diseases Across the Globe	Dr. Ndeffo	Mar 12 - 11:59pm
Mar 20	Pesticides, Environmental Pollution, and the Global Burden of One Health	Dr. Cizmas	Mar 26 - 11:59pm
Mar 27	Climate Change and Infectious Diseases	Dr. Lizhihan Yu	Apr 2 - 11:59pm
Protection, Science, and Policy			
Apr 3	Global Ecology and Wildlife Conservation	Dr. Ruyle	Apr 9 - 11:59pm
Apr 17	Conservation Medicine and One Health Programs	Dr. J. Derr	Apr 16 - 11:59pm
Apr 24	To be determined	Dr.	Apr 23 - 11:59pm
Apr 28	US – Scientific Cooperation One Health Exchange Programs	Dr. E. Parker	Apr 30s - 11:59pm
	Final Exam week		