PVS 3093/ANSC 3693 (section X): **Global One Health: Irish and US Perspectives**

Instructors:
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Course Offered:
May summer session; May 15-June 3, 2017. Course will be 3 weeks in length, one week in USA, 2 weeks in Ireland


Course Description
Our world is becoming increasingly integrated. What happens in one part of world can have significant impacts across the globe. This is especially true for the integration of human and animal health and their impact on the environment within and across countries. “One Health” is terminology recently introduced to encompass the global interrelationships among human health, animal health and environmental health issues. A One Health perspective is becoming increasingly important to our comprehensive understanding of factors impacting global health and disease of all species.

In this Education Abroad course, we will examine One Health issues surrounding food production and food safety issues. Methodologies and pertinent regulations regarding animal health, human health, food safety, and environmental health in the United States and the Republic of Ireland (a member of the European Union) will be compared and contrasted. The two agricultural systems chosen to illustrate these interactions are dairy/cheese production and aquaculture.

Objectives
1. Students will gain an understanding of the global One Health Vision.
2. Students will apply these concepts to 2 major food industries important in both the United States and Ireland: dairy/cheese production and aquaculture.
3. Students will understand the impact of cultural and regulatory differences between the two countries on the development and implementation of One Health initiatives.
4. Students will apply this knowledge to development of a strategic action plan addressing one of the targeted industries in both countries; unique and mutual strategies will be explored.

120 contact hours, 3 credits
Course Requirements

1. Current passport
2. Required readings (3): articles on current topics specific to global One Health, focusing on Ireland and the USA
3. Questionnaires for site visits (developed by faculty and students): completed by students for each site visit.
4. 3 exams covering content for each week
5. A 6-8 page proposal for a One Health strategic action plan addressing one of the targeted industries in both countries; unique and mutual strategies will be explored. This proposal will be based on One Health Principles, incorporating required readings and insights from course content.

Student Evaluation:
Exams (3) 30%
Questionnaires/site summaries 20%
Proposal 30%
Participation/daily writing 20%

Note: for this class: A=93-100+, A-=90-92, B+=88-89, B= 83-87, B-=80-82, C+=78-79, C=73-77, C-= 70-72, D+=68-69, D=63-67, D-=60-62, F= <60%.

Syllabus is subject to change

Week 1:
US perspective week, including classroom activities and on-site experiential learning at UConn, and travel to local production and regulatory sites. Each day’s activities will end with a group discussion (to encompass key learning goals for the day) and a brief writing activity to anchor the learning.

Monday, May 15, 2017

1. Overview of course expectations
   Review syllabus, required readings, site-visit questionnaires, papers, examinations and grading metrics.
2. Overview of One Health concepts and initiatives relative to the 2 food systems
3. Faculty-led discussions (guest speakers)
   a. Governmental infrastructure differences between the United States and Ireland that are pertinent to One Health.
   b. Environmental Health issues relevant to the dairy and aquaculture industries in the United States, including UConn site visit.
c. Animal health in the dairy industry, including UConn site visit

4. Group wrap-up discussion and writing activity; Finalize site visit questionnaires.

Tuesday, May 16, 2017

1. Overview of food safety and public health issues relevant to the dairy and aquaculture industries in the United States (Guest Lecturers)
2. Site visit to Central Massachusetts to visit USDA, APHIS, VS, Sutton MA office, review federal regulations regarding dairy industry and farmed animal/fish health, food safety and import/export. Complete questionnaire.
3. Site visit to Tufts School of Veterinary Medicine for “One Health” veterinary overview and tour. Complete questionnaire.
4. Dinner and discussion with Irish/American colleagues engaged in aquatic animal health in US and Ireland

Wednesday, May 17, 2017

1. Site visit to Avery Point UConn campus, Groton CT for Aquaculture classroom activities and site visits to shellfish farming, production and testing facilities in the area. Complete questionnaire.
2. Group wrap-up discussion and writing activity, review and summarize questionnaire results.

Thursday, May 18, 2017

1. Site visit to Hartford: Visit to CT Depts of Agriculture, Commerce and DEEP, Hartford for discussions of regulation of animal, human and environmental health at the state level. Complete questionnaire
2. Site visit to CT dairy farm(s) in Litchfield County, CT
4. Travel to Cabot, VT overnight at lodge near Cabot cheese factory
5. Group wrap-up discussion and writing activity, Develop draft outline for One Health Proposal

Friday, May 19, 2017

1. Site visit: Cabot cheese processing plant. Complete questionnaire

2. Return to UCONN, Group discussion to summarize US information, Exam one given
   Discussion of upcoming travel to Ireland
Saturday, May 20, 2017
   Travel to Dublin

Sunday, May 21, 2017
   Free day with faculty, Dublin tour, hike, etc

Weeks 2 and 3, Dublin and environs, then travel to the north and west of Ireland. Including classroom type discussions and on-site experiential learning involving travel to local production and regulatory sites. Each day’s activities will end with a group discussion (to encompass key learning goals for the day) and a brief writing activity to anchor the learning.

Monday, May 22, 2017
   1. Site visit with University College Dublin (UCD) Veterinary College faculty and students
      Discussion of One Health activities at UCD
   2. Tour of Dairy Facility and Lyons Estate at UCD, Complete questionnaire
   3. Visit Food Safety Centre at UCD. Complete questionnaire
   4. Group wrap-up and writing activity

Tuesday, May 23, 2017
   1. Collaborate with UCD Food Safety MPH class (Dr Wall); tours of relevant production sites. Complete questionnaire
   2. Group wrap-up discussion and writing activity

Wednesday, May 24, 2017
   Travel to New Grange cultural site, then continuing to the northwest to Marine Harvest (Salmon Farm)

Thursday, May 25, 2017
   1. Site visit at Marine Harvest, Complete questionnaire
   2. Group wrap-up discussion and writing activity

Friday May 26, 2017
   AM
   1. Complete visit to Marine Harvest
   2. Travel to Galway
   3. Visit Marine Institute. Complete questionnaire
   4. Group wrap-up discussion and second exam in the evening.

Saturday May 27, 2017
   1. Travel to countryside (Western Ireland) and stay at bed and breakfast (1 or 2 nights)
Sunday, May 28, 2017
1. Free day with faculty, tours, hikes, etc
2. Travel to Southwest Ireland, near Moorepark

Week 3,
Monday, May 29, 2017
1. Site visit Teagasc; classroom based learning related to Irish dairy production and experiential learning activities in food production and grassland management. Complete questionnaires
2. Group wrap-up discussion and writing activity

Tuesday May 30, 2017
1. Complete Teagasc visit (AM)
2. Visit Seafood Safety Authority. Complete questionnaire
3. Visit Cheese plant. Complete questionnaire
4. Group wrap-up discussion and writing activity

Wednesday May 31, 2017
1. Site visits with Alltech, touring area dairy farms and processing plants. Complete questionnaire.
2. Visit world headquarters of Alltech.
3. Site visit of food markets
4. Group wrap-up discussion and writing activity

Thursday, June 1, 2017
1. Continue touring area farms and processing plants with Alltech, discuss impact of variable regional regulations on international agribusiness
2. Visit with representatives of the Irish Cattle Breeding Authority
3. Group wrap-up discussion and writing activity

Friday June 2, 2017
1. Travel to Dublin
2. Site visit to Irish Department of Agriculture
3. Environmental hikes
4. Course wrap-up discussions, third exam

Saturday June 3, 2017
Tour food markets
Complete projects and One Health Plan
Travel to airport; free day
Fly to US