

ACADEMIC CLASS FOR VISITING STUDENTS
from
NATIONAL TAIWAN UNIVERSITY
JULY 6-28, 2013

Presented by

College of Agriculture and Natural Resource
University of Maryland College Park

“Current Issues in Food, Energy and the Environment: A USA Perspective”

AGNR 489N ; July 6-28, 2013; Credits 4
(35 students maximum; 20 students minimum,
Course will be taught in English, no translation)

Daily schedule

Saturday & Sunday, July 6, 7

Travel to the USA, Students will be met at the airport with transportation

Monday, July 8

9:00 am-10:30am

Check in with Office of International Services

10:30am-12:00

Short Campus Tour

12:00-1:00pm

Lunch

1:00pm-3:00pm

Course overview, group assignments and expectations; question and answer session

3:00pm-5:30pm

Introduction to the University of Maryland

History, metrics, the land-grant system, undergraduate requirements
Discussion

Tuesday, July 9

9:00am-12:00

Putting Agriculture Development into Perspective

Settlement of the USA

Geography, soils and climate of the USA

12:00-1:00pm

Lunch

1:00pm-2:00pm

Discussion

2:00pm-5:30pm

Agriculture development in the USA

1850-1930 Pre chemicals, industrialization, hybrids

1930-1980 Feeding the World

1980-2012 Sustainable Agriculture and environmental issues

Discussion

Wednesday, July 10

9:00am-12:00

Current and developing agriculture policy (1950-present)

12:00-1:00pm

Lunch

1:00pm-2:30pm

Discussion

2:30pm-5:30pm

Current development of advances with biotechnology

Status and opportunities in animal agriculture with biotechnology

Discussion

Thursday, July 11

9:00am-12:00	Status and opportunities in <u>plant</u> agriculture with biotechnology Discussion
12:00-1:00pm	Lunch
1:00pm-5:30pm	Current developments in Soil Science Soil Fertility, Nutrient Management, Intercropping Discussion
<u>Friday, July 12</u>	
9:00am-10:30am	Student team work and discussion for presentation preparation
10:00am-12:00	Agriculture-Water Quality, Energy and Environmental Issues Water resources: surface water verses groundwater Water Quality Nutrients, sediment, toxic chemicals, heavy metals Water use Agriculture Urban Industry Bio-fuels Algae Scrubbers
12:00-1:00pm	Lunch
1:00pm-3:00pm	Agriculture-Water Quality, Energy and Environmental Issues, cont
3:00pm-5:00pm	Numan-Pro; presentation of a computer program to aid in developing nutrient management programs on a field by field basis
<u>Saturday, July 13</u>	
8:00am-6:00pm	Field Trip – Soil and water conservation tour, north central MD Contour strip cropping, strip cropping, grassed water ways, structural best management practices and Mason-Dixon Farms.
<u>Sunday, July 14</u>	
	Free time (Students have the day to pursue things they wish to do)
<u>Monday, July 15</u>	
9:00am-11:00am	Current developments in Plant Science Grain & fiber crops (corn, soybeans, wheat, barley, cotton, tobacco etc) Discussion
11:00am-12:00	
12:00-1:00pm	Lunch
1:00pm-3:30pm	Current developments in Plant Science, cont
3:30pm-5:30pm	Presentation by student participants; Topic -Taiwan Food System
<u>Tuesday, July 16</u>	
9:00am-12:00noon	Current developments in Horticulture Vegetables, etc - direct sale, processing, high tunnels, urban gardening, environmental issues Small and large fruits – direct sale, processing, environmental issues
12:00-1:00pm	Lunch
1:00pm-5:30pm	Ornamental Horticulture, Exotics, Turf, environmental issues Discussion on Horticulture
<u>Wednesday, July 17</u>	
8:00am-6:00pm	Field Trip

focus on horticulture i.e. greenhouse production, organic vegetable and fruit production and niche markets, including ornamental production and John Lea-Cox greenhouse management work, Extension office

Thursday, July 18

9:00am-12:00noon

Current development in Animal Sciences

Poultry, Exotics

Production, environmental issues

Discussion

12:00-1:00pm

Lunch

1:00pm-3:30pm

Beef, Dairy, Swine

Discussion

3:30pm-5:00pm

Presentation by student participants; Topic – Taiwan and Pacific Rim Natural Resources

Friday, July 19

8:00am-6:00pm

Field trip - Eastern Shore agriculture; WyeREC beef herd, grain and vegetable farming, irrigation

Saturday, July 20

Free time (Students have the day to pursue things they wish to do)
These 3 days students may wish to visit New York, Washington DC, etc

Sunday, July 21

Free time (Students have the day to pursue things they wish to do)

Monday, July 22

Free time (Students have the day to things they wish to do)

Tuesday, July 23

9:00am-12:00noon

Current developments in Food Safety

Produce safety and water management

Food safety risk analysis

Discussion

12:00-1:00pm

Lunch

1:00pm-4:30pm

Nanotechnology and food safety

Globalization and food safety

Discussion

Wednesday, July 24

9:00am-12:00pm

Field Trip - Green Roofs and Rain Gardens; a tour of campus projects

12:00-1:00pm

Lunch

1:00pm-5:00pm

Field Trip – USDA, Beltsville Agriculture Research Station

Thursday, July 25

8:30am-12:00

Student team presentation preparation time

12:00-1:00pm

Lunch

1:00pm-5:00pm

Presentation by student participants;
Topic – comparison of Taiwan and USA issues in agriculture and Natural Resources

Possible topics might include: 1. Food Systems, 2. Effects of global Warming, 3. Water, 4. Water Shed Management, 5. Sustainability of the Nat. Res and food systems, 6. The Agriculture H. E. Systems etc.

Friday July 26

9:00am-11:00noon

Evaluation of the program by participants and round table discussion of the course

11:00-12:00

Graduation

12:00-2:00pm

Lunch

2:00pm

Course Completed, Free time

Saturday & Sunday, July 27-28

Travel to Taiwan, transportation to be provided

4 credits