PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF LAW

1. Request to change the requirements for the Master of Laws (LL.M.) and Master of Jurisprudence (M.J.) degrees in Global Food Law in the College of Law. The University Committee on Graduate Studies (UCGS) will consider this request at its October 6, 2014 meeting.

   a. Under the heading L.L.M. and M.J. in Global Food Law replace the Academic Requirements with the following:

   **Academic Requirements**

   All students must complete 24 credits within five academic years with a 2.0 minimum cumulative grade-point average. Students who are pursuing the M.J. degree must complete an additional 2 credits in item 3. below.

   1. All of the following courses (9 credits):
      LAW 810A Food Regulation in the United States 3
      LAW 810D International Food Laws and Regulations 3
      LAW 810K Administrative Law: Focus on Food Safety and Labeling 3
   2. At least 15 credits from the following courses:
      LAW 512B International Business Transactions 3
      LAW 512K International Commercial Arbitration 3
      LAW 624 Directed Study 3
      LAW 810B Food Regulation in the European Union 3
      LAW 810C Food Regulation in Canada 3
      LAW 810E Animal Health, World Trade, and Food Safety 3
      LAW 810F Codex Alimentarius: The World Food Code 3
      LAW 810G Food Regulation in Latin America 3
      LAW 810J Food Regulation in Asia 3
      LAW 810M Regulation of Agricultural Production and Marketing 3
      LAW 810N Survey of Intellectual Property in Agriculture 3
      LAW 810P Biotechnology Law and Food Products 3
      LAW 810Q Global Risk Regulation – Food Focus 3
      LAW 810R United States Food Imports: Process, Regulations, and Food Safety 3

       Additional courses may be approved by the Associate Dean for Graduate and International Programs and Director of the Global Food Law Program.

   3. Students who are pursuing the M.J. degree must complete an additional 2 credits in the following course:
      LAW 807A Foundations of Law and Legal Research 2

   Effective Spring 2015.
1. Request to establish a Graduate Certificate in Environmental and Social System Modeling in the College of Social Science. The University Committee on Graduate Studies (UCGS) will consider this request at its October 6, 2014 meeting.

The Graduate Certificate in Environmental and Social System Modeling is a Type 2 graduate certificate and will appear on the transcript as “Graduate Certificate Program in Environmental and Social System Modeling”.

a. Background Information:

Understanding and responding to complex global environmental changes is one of the major challenges facing policy makers in this century. Modeling has emerged as a useful tool to effectively study coupled human and natural systems, addressing a variety of problems including climate change, water shortages, soil erosion, and deforestation at various spatial and temporal scales. Existing curricular structures emphasize disciplinary approaches resulting in a tendency to view analytical and computational modeling techniques as domain-specific. Oftentimes, students are unaware of the diversity of modeling tools that exist to address environmental problems and how they might be used most effectively, thus limiting their ability to apply the most appropriate methodology to a given problem.

To address these challenges, a new graduate certificate is being proposed to offer an educational cluster around modeling techniques for addressing socio-environmental issues in complex systems. This module of courses expose student to cutting-edge modeling methodologies, including agent-based modeling, system dynamics modeling, participatory model-building, hierarchical linear modeling, and structural equation modeling.

This program is unique to MSU as no other program offers interdisciplinary training in multiple modeling techniques for pressing environmental problems. A thorough review of other graduate programs at peer institutions revealed a similar absence of professional training.

b. Academic Programs Catalog Text:

The Graduate Certificate in Environmental and Social System Modeling is designed for students who desire to understand a variety of modeling techniques used to address environmental problems that span human and natural systems. The certificate program exposes students to a range of state-of-the-art techniques including agent-based modeling, systems dynamics modeling, multilevel modeling, and structural equation modeling.

Requirements for the Graduate Certificate in Environmental and Social System Modeling

Students must complete 9 credits from the following:

1. Both of the following courses (3 credits):
   - ESP 850 Introduction to Environmental and Social System Modeling
   - ESP 890 Modeling Environmental and Social Systems

2. Two of the following courses (6 credits):
   - CSUS 851 Modeling Natural Resource Systems
   - GEO 869 Geosimulation
   - SOC 883 Multi-Equation Quantitative Models

Effective Spring 2015.
PART II - NEW COURSES AND CHANGES

COLLEGE OF SOCIAL SCIENCE

ESP 850  Introduction to Environmental and Social Systems Modeling
Fall of every year. 1(1-0) R: Open to doctoral students in the Environmental Science and Policy Specialization. Not open to students with credit in ACR 851 or ESP 890 or GEO 869 or SOC 883.
NEW Theoretical background of diverse modeling problems in complex environmental systems. Diverse modeling approaches to most appropriate modeling tools in a variety of contexts. Effective Fall 2014

ESP 890  Modeling Environmental and Social Systems
Fall of every year. 2(2-0) A student may earn a maximum of 2 credits in all enrollments for this course. R: Open to doctoral students in the Environmental Science and Policy Specialization. Not open to students with credit in ACR 851 or ESP 850 or GEO 869 or SOC 883.
NEW Modeling project of real-world environmental problems. Theories and methodologies from previous modeling courses to practical policy problems. Applied project with a variety of modeling tools and a trans-disciplinary synthesis. Model development, implementation, and evaluation in student groups. Effective Fall 2014

SSC 999  Doctoral Dissertation Research
Fall of every year. Spring of every year. Summer of every year. 1 to 12 credits. A student may earn a maximum of 99 credits in all enrollments for this course.
NEW Doctoral dissertation research. Request the use of the Pass-No Grade (P-N) system. DELETE COURSE
Effective Summer 2014

GEO 429  Geoprocessing
Spring of every year. 3(3-0) P: GEO 325 or GEO 802 or approval of department
NEW Applications of computer programming to address geographic information problems. Integration of digital spatial data, geographic information systems, spatial analysis, and expert systems. Effective Spring 2015

HDFS 345  Principles of Family Studies (W)
Fall of every year. Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement P: Completion of Tier I Writing Requirement and HDFS 270 R: Open to juniors or seniors in the Department of Human Development and Family Studies. Historical, social, cultural, and economic perspectives on contemporary families. Approaches to studying families. Role of communication, resources, and decision-making in family systems. SA: FCE 345
Effective Summer 2014 Effective Fall 2015

SW 491  Special Topics in Social Work
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to juniors or seniors in the Social Work Major and open to graduate students in the School of Social Work or approval of school.
NEW Selected topics in social work. Topics include community dynamics or practice issues. Effective Spring 2014 Effective Summer 2015