ADDENDUM I
Graduate Studies Committee
Date: 11/03/22009

BSysE 550	**Soil and Water Conversion Engineering** [new course] 3 Prereq graduate standing. Fundamentals of land, water and air conservation, with an emphasis on soil and water engineering concepts, state of the science solution techniques for solving contemporary soil and water problems and engineering design.
BSysE 557	**Nutrient Cycling and Transport** [new course] 3 Graduate standing. Cycling of carbon, nitrogen, and phosphorus at global and watershed scales. Modeling of transformation and transport in agricultural systems. Strategies for pollution mitigation.
BSysE 564	**Agricultural Waste & Air Quality Management** [new course] 3 Graduate standing. This course introduces student to detailed analyses of agricultural wastes, their potential adverse impacts on the environment, current management systems to mitigate adverse impacts, and their reuse and recycle.
BSysE 584	**Thermal and Nonthermal Processing of Foods** [new course] 3 Graduate standing. Principles and practices of food preservation methods based on application of thermal and nonthermal processes.
BSysE 585	**Food Packaging** [new course] 3 graduate standing. The topics covered are packaging materials, properties of packaging materials, manufacturing of packages, shelf life testing, and food packaging interaction.
BSysE 595	**Biosystems Engineering for Fuel and Chemicals** [new course] 3 Graduate standing. Design and optimization of biological systems for industrial functions, modeling and simulation of cell processes, bioreactors, and system integration.
BSysE 596	**Biomass Thermo-Chemical Conversion** [new course] 3 Graduate standing. Introduction to biomass chemistry, analytical thermo-chemistry, torrefaction, pyrolysis, gasification and combustion (design, modeling and scale up). Characterization of uses of thermochemical products.
C E 583/BSysE 560	**Aquatic Chemistry** [crosslisting] 3 C E 518 orinstructor permission. Chemical principles as applied to natural environmental systems, water supply and pollution control.

Hist 509	**Field Course: Foundations of U.S. History** [new course] 3. Repeat credit. Cumulative maximum 12 hours. Chronological readings in U.S. History.
Nurs 529	**Analytical Seminar for Health Sciences** [new course – variable credit 1-3] V 1-3. Admission to graduate program, completion of Nurs 527 and Nurs 528 or permission of instructor. Seminar guided research techniques and to explore in-depth research methods used for health science research.
Nurs 576	**Organizational Leadership** [new course] Admission to graduate program or permission of instructor. Integration of leadership competencies and nursing practice for nurse leaders in a constantly changing health care environment.
SoilS/Stat/ ES/RP/Geol 508	**Environmental Spatial Statistics** [new course – crosslisting – course fee] Theoretical introduction and practical training in spatial data analysis for graduate students in the environmental sciences.
Sp Ed 591	**Response to Intervention Across the Core Academic Curriculum** [new course] 3 Doctoral student or permission of instructor. Course discusses the new method of assessment for learning disability referred to as response to intervention.
Sp Ed 592	**Single Subject Research Design and Methods** [new course] 3 Doctoral student or permission of instructor. Provides opportunities for in-depth study of single subject research designs. Emphasis on critical analysis of strength/weaknesses of each design.
Sp Ed 593	**Diversity Issues in Special Education: Theory, Research, and Practice** [new course] 3. Doctoral student or permission of instructor. Historical and contemporary diversity issues in special education examined and critically reflected upon for future use and practice.
Sp Ed 594	**Research-Based Prevention and Intervention Practices for Students with Social and Behavioral Problems** [new course] 3 Doctoral student or permission of instructor. Course provides a strong foundation in developmental theory and research needed to understand typical and atypical social development.

Sp Ed 595 **Universal Design** [new course] 3 Doctoral student or permission of instructor. Explore the complex factors associated with developing, implementing, and assessing curricular materials for individuals with disabilities.

Sp Ed 596 **Seminar in Quality Indicators for Research in Special Education** [new course] 3 Doctoral student or permission of instructor. A co-requisite for research courses offered to all doctoral students.

Sp Ed **Ed.D. in Special Education to Ph.D. in Special Education** [Change department/program name]