REPORT OF GRADUATE COUNCIL
April 7, 2005

Department Requests for New Courses:

A618 BMEN 680 Biomedical Engineering of Tissues (3-0) Credit 3. Introduction to aspects of tissue engineering with an emphasis placed on tissue level topics including tissue organization and biological processes, with insights from recent literature (state-of-the-art). Prerequisite(s): Graduate classification or approval of instructor.

A617 KINE 649 Applied Exercise Physiology (3-0) Credit 3. Investigate how the acute physiological responses to exercise and the chronic physiological adaptations to exercise training are altered by environmental factors - heat, cold, altitude, and microgravity, and by age and sex; addresses the physiological bases for reducing the risk of cardiovascular, metabolic and bone disease through physical activity. Prerequisite(s): KINE 433 or equivalent.

A619 PETE 612 Unconventional Oil and Gas Reservoirs (3-0) Credit 3. As conventional oil and gas resources are depleted, unconventional resources, including heavy oil and gas from low-permeability sandstones, fractured shales, coal bed, and hydrates, will assume greater roles in meeting USA and world energy demands; this course emphasizes resources, geologic and geographic occurrences, recovery technology and economics of unconventional hydrocarbon resources. Prerequisite(s): Graduate classification in PETE, GEOL, or GEOP.

A620 PETE 619 Naturally Fractured Reservoirs (3-0) Credit 3. This course is intended to explore all relevant subject matter in naturally fractured reservoirs; naturally fractured reservoirs are commonplace throughout the world, however there is a general lack of understanding of such reservoirs. This course provides the background for all relevant topics such as characterization, fluid flow, simulation and enhanced oil recovery. Prerequisite(s): Approval of instructor.

A608 STAT 661 Statistical Genetics I (3-0) Credit 3. Basic concepts in human genetics, sampling designs, gene frequency estimation, Hardy-Weinberg equilibrium, linkage disequilibrium, association and transmission disequilibrium test studies, linkage and pedigree analysis, segregation analysis, polygenic models, DNA sequence analysis. Prerequisite(s): STAT 610, STAT 611.

Department Requests for Course Changes:

Description Change:

C607 EHRD 681 Educational Administration and Human Resources Development

From: Seminar – Problems pertinent to educational human resource development. Recent developments and research in appropriate areas.

To: Seminar - Issues pertinent to adult education and/or educational human resource development and research in appropriate areas. Master of Science students seeking the HRD option will develop a professional portfolio documenting progress through the individual’s program, highlighting goals, beliefs, and desires associated with the program.