I. Approved requests for graduate course changes as follows:

ARCH 624. Theory of Placemaking. (3-0). Credit 3. An introduction to and an exploration of the sources, principles, theories, and physical expressions of the phenomenon of place creation and its relationship to sustainable urbanism; investigates the origin of place theory and its meaning as expressed in the various forms, functions and scales of places applicable to architecture and planning. Prerequisite(s): graduate classification.

BMEN 674. Communications in Biomedical Engineering. (2-0). Credit 2. General concepts will be taught for communicating the results of biomedical research including written papers, conference proceedings, proposals and grants, as well as oral presentations and basic ethics. Prerequisite(s): graduate classification or approval of instructor.

BMEN 675. Biomedical Case Studies. (1-0). Credit 1. Introduction to the engineering design process for solving biomedical problems by using the case study method in biomedical instrument design. Prerequisite(s): graduate classification or approval of instructor.

BUSH 660. Economic Development in Latin America. (3-0). Credit 3. In this graduate seminar, students will explore problems of economic growth and development in Latin America. The course will provide an overview of basic indicators such as national production, exports, human indicators, and economic problems. Students will also be introduced to different industrialization strategies. Prerequisite(s): graduate classification.

CVEN 613. Micromechanics of Civil Engineering Materials. (2-2). Credit 3. Discrete-particle and continuum micromechanics energy principles; finite-element and discrete-element formulations for constitutive modeling of asphalt, concrete, and coarse and fine-grained soils; adhesive and cohesive fracture and healing; stress-dependent plasticity; principles and measurement of surface energy and pseudo-strain. Prerequisite(s): CVEN 615, 616 or approval of instructor.

ELEN 686. IC. MEMS and Sensor Fabrication. (3-3). Credit 4. Fundamental unit processes for the fabrication of silicon IC’s are treated. Extension of these processes to the specialized micro-machining operations used for MEMS and sensor fabrication is discussed. The basic process operations are used in the laboratory to build simple IC structures. These devices are then characterized. Prerequisite(s): ELEN 325, 370, or instructor consent.

INEN 628. Combinational Optimization. (3-0). Credit 3. Formulation techniques are studied along with general approaches for solving integer and combinatorial optimization problems: basic polyhedral theory, cutting planes, branch and bound, matroids and theoretical background behind network optimization problems including the traveling salesman problem. Prerequisite(s): INEN 622.

MARB 654. Coastal Plant Ecology. (3-3). Credit 4. Study of estuarine, coastal, and dune plant communities and associated environmental factors affecting plants including the identification, distribution, ecological importance, and management techniques of vascular plants in these communities. Prerequisite(s): graduate standing; permission of instructor.

MARB 655. Wetlands Ecology, Monitoring and Delineation. (2-3). Credit 4. Study of the characteristics and importance of wetlands, and methods of delineating, monitoring, and evaluating of wetlands. Students will learn wetland plants, soils, hydrology, ecology of wetlands, animals inhabiting wetlands, delineation techniques, laws pertaining to wetlands, permits required for impacts, mitigation and management techniques for wetlands. Prerequisite(s): graduate standing.
MGMT 631. Foundations of Entrepreneurship. (3-0). Credit 3. Process of launching a new venture; process by which opportunities can be discovered and selected; attributes of entrepreneurs and new venture teams; process of developing business plan; core entrepreneurial strategies – business level, organizational design, marketing, financial; strives to develop competencies, concepts, operational tools relevant to creating, implementing new ventures. Offered in fall. Prerequisite(s): None listed.

VMID 601. Veterinary Medicine – Interdisciplinary Study Abroad. (12-0). Credit 12. May be repeated for credit. Maximum 6 hours free elective credit in a graduate program. Course will be graded on a satisfactory/unsatisfactory basis. Prerequisite(s): Attend TAMU the semester before and after program.
The Graduate Council approved the Water Management and Hydroscience Program proposal for faculty.