REPORT OF GRADUATE COUNCIL
December 2, 2004

Department Requests for New Courses:

A687 ARCH 625 Sustainable Housing Design (3-0) Credit 3. Principles, needs and
calculations procedures for the use of on site resources contributing to off grid sustainable
residential design. Prerequisite(s): ENDS 233; ARCH 334.

A683 ARCH 644 Seminar in Art and Architectural History (3-0) Credit 3. Advanced topics in
art and architectural history emphasizing methods of analysis and development of theory; topics
vary each semester. Prerequisite(s): Visualization Graduate Classification or approval of
instructor.

A681 BUSH 646 Bureaucracy in a Democracy (3-0) Credit 3. Course examines the issues
surrounding the role of bureaucracy in American government. It draws on readings and ideas
from the fields of political science, public administration, and administrative law. Although
the course emphasizes broad theory-based knowledge, it has applied value for students intent on
careers in public service. Prerequisite(s): Graduate classification.

A680 BUSH 657 Terrorism in Today’s World (3-0) Credit 3. This course is a comprehensive
survey of international terrorism from its origins to the present. Particular emphasis will be given
to how the U.S. government has responded and how it has organized to counter the threat. All
major terrorist groups will be studied. Students will have an understanding of the nature of the
terrorist threat and the implications for the U.S. Government. Prerequisite(s): BUSH or INTA G6
or G7 status or permission.

A688 BUSH 665 Markets and Government: An Economics Approach to Institutional Choice
(3-0) Credit 3. Course provides a framework for students to consider the best institution for
producing particular goods and services; students determine if a good/service is best provided by
the government via a public enterprise or by private firms; course explores institutional
structures, including laissez-faire, price regulation, antitrust regulation, and environmental and
product quality regulation. Prerequisite(s): Graduate classification.

A682 BUSH 669 Legal Environment of Nonprofit Management (3-0) Credit 3. Course
considers laws, policies, and ideals affecting the creation and governance of nonprofit
organizations. Included are medical, education, cultural, social, religious, and advocacy
organizations. Course considers these organizations’ contributions to society, how they
cooperate with or rival for-profit entities, and how they should be governed. Prerequisite(s):
Graduate classification.

A685 CVEN 648 Advanced Numerical Methods in Geotechnical Engineering (3-0) Credit 3.
Formulation and application of finite difference and finite element methods in geotechnical
problems related to elasticity, plasticity, seepage, consolidation, dynamic response, and pile
analysis; constitutive models of soil behavior; and analysis of nonlinear systems. Prerequisite(s)
MEMA 646 or equivalent, CVEN 651 or registration therein.
A686  ELEN 658  Low-Noise Electronic Design (3-0) Credit 3. Low-noise design; surveying the subject of handling electronic noise from theory to measurement, design, research and developments. Prerequisite(s): Approval of instructor.

A684  VIZA 625  Multi-media Web Design (2-2) Credit 3. Examination of aesthetic, narrative, technical strategies; multi-media content on the web; methods of integrating imagery, animation, sound; non-linear multi-media narration. Application of multi-media techniques for navigation, interaction, animation, vector drawing, video, audio. Prerequisite(s): Visualization Graduate Classification or approval of instructor.

A689  VIZA 629  Digital Media: Inspiration and Process (2-2) Credit 3. Exploration of artwork and literature that has informed contemporary creativity provides a broad basis for discovery through reading, writing, studio projects; students will demonstrate a knowledge of creative strategies including, but not limited to mapping, database, allegory, sampling, and generative systems. Prerequisite(s): Visualization graduate classification or approval of instructor.
Department Requests for a New Course:

A690  CVEN 658  Civil Engineering Applications of GIS (2-1) Credit 3. The course addresses the use of geographic information system (GIS) concepts and methods to solve civil engineering problems. Emphasis will be made on different areas of civil engineering. Class presentations and laboratory sessions will be used to familiarize the students with the computer software. Prerequisite(s): Graduate standing.
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Department Requests for Course Changes:

Title and Description Change:

C642  VAPH 620 – Humane, Public Health and Regulatory Aspects of Animal Use

From:  VAPH 620 Humane, Public Health and Regulatory Aspects of Animal Use
       HUMANE ANIMAL USE

To:    VPAT 620 Humane, Public Health and Regulatory Aspects of Animal Use
       HUMANE ANIMAL USE

From:  Emphasizes thoughtful and humane use of animals in teaching, research and service; human and animal health benefits of biomedical research; governmental policies, regulations, public health implications, management practices, and public relations pertaining to animal use in research and teaching.

To:    Emphasizes thoughtful and humane use of animals in teaching, research and service; human and animal health benefits of biomedical research; governmental policies regulations, public health implications, management practices, and public relations pertaining to animal use in research and teaching.

C643  EDCI 619 – Teaching Basic Concepts of Mathematics

From:  EDCI 619 Teaching Basic Concepts of Mathematics
       TCH BASIC CNPTS OF MATH

To:    EDCI 619 Teaching and Learning Number and Quantity Concepts
       T&L NMBR & QUANTY CONCPT

From:  Content and pedagogy of middle/junior high school mathematics programs.

To:    Examination of the content, pedagogy, technology, and research on teaching and learning concepts on number and quantity concepts. Discussion of contemporary issues in K-12, standards and assessment.

C641  EDCI 621 – Teaching Secondary School Geometry

From:  EDCI 621 Teaching Secondary School Geometry
       TCH SECONDARY GEOMETRY

To:    EDCI 621 Teaching and Learning Space, Dimension, and Measurement Concepts
       T&L SPC DIMSN & MEAS CPT

From:  Contemporary issues in informal and formal school geometry; emerging curricular activities.

To:    Examination of the content, pedagogy, technology, and research on teaching and student learning concepts on space, dimension, and measurement concepts. Discussion of contemporary issues in K-12, standards and assessments.
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Department Requests for Course Changes:

C644 STAT 614 – Advanced Theory of Statistics

From: STAT 614 Advanced Theory of Statistics
      ADVANCED THEORY OF STAT

To: STAT 614 Probability of Statistics
      PROBABILITY FOR STAT

From: Basic probability concepts, convergence and limiting distributions; sample statistics and transformations; Gaussian and other stochastic processes, stationarity and ergodicity; weak convergence.

To: Probability measures; Lebesque-Stieltjes integration, sigma fields, random variables, expectation, moment inequalities, independence, convergence of random variables and sample moments, characteristics functions, convergence of distributions, the central limit theorem and the delta method.