Department Requests for New Courses:

A601 ARCH 626 The Embodiment of Place (3-0) Credit 3. Embodiment of Place will review the philosophies and theories of significant form; embodiment and location. Place vs. space will be clarified and used to introduce the underlying patterns of "being" and the pleasure that embodied entities take from meaningful place experience. A set of domains will be introduced that cut across formal and informal place experiences as a way of thinking and transforming design, at all scales. Prerequisite(s): None.

A609 BIOL 604 Fundamentals of Scanning Electron Microscopy (SEM) and Environmental Scanning Electron Microscopy (ESEM) (1-3) Credit 2. This course will provide biologists, material scientists, and students from other disciplines with the techniques of operation of the scanning electron microscope (SEM) and the environmental SEM (ESEM) coupled with the appropriate theoretical background knowledge. In addition, students will receive individual instruction in support of their research endeavors involving SEM/ESEM. Prerequisite(s): Demonstrated need.

A603 EDCI 618 Analyzing and Reporting Field Based Research (3-0) Credit 3. Students analyze data from classroom observation, empirical tests and interviews. Students link theoretical and practical mathematics education to analysis of qualitative and quantitative data. This course will equip teacher-leaders and researchers with the resources to interpret classroom phenomena from the research perspective using research-based theories of teaching and learning. Prerequisite(s): Admission to Graduate School.

A604 EDCI 627 Teaching and Learning Data Analysis and Uncertainty Concepts (3-0) Credit 3. Examination of the content, pedagogy, technology, and research on teaching and student learning of concepts and skills in probability, statistics, and discrete mathematics. Discussion of contemporary issues and K-12 curriculum, standards, and assessment. Prerequisite(s): Graduate classification.

A610 INEN 603 Advanced Logistics (3-0) Credit 3. Topics in logistics including measures of logistical systems performance, facilities location – allocation, production/distribution system design, transportation network design, vehicle routing, location-routing and continuous models; emphasis on mathematical modeling and analysis provided in current literature. Prerequisite(s): INEN 601, 622, 623, 668 or approval of instructor.

A606 MARB 662 Biology of the Mollusca (3-3) Credit 3. Survey of mollusks including their morphology, ecology, physiology, and reproduction. Emphasis on marine species of ecological and commercial importance. Prerequisite(s): MARB 435 or MARB 665 or equivalent.

A600 PLAN 651 Planning for Coastal and Marine Protected Areas (3-0) Credit 3. The science, policy and politics of establishing coastal and marine protected areas (CMPAs): an interdisciplinary graduate-level seminar; the theory and practice of using protected areas to manage complex problems related to the coastal and marine environment. Prerequisite(s): Graduate classification.
A602  RDNG 615  Theories of the Reading Process (3-0)  Credit 3. Seminar for doctoral students and advanced master's students to study and critique major theories of the reading process that have been influential in the fields of reading, language arts, educational psychology, and related fields. Prerequisite(s): Doctoral status or permission of instructor.

A605  VTMI 601  Fundamentals of Pathobiology (5-0)  Credit 5. This course will encompass the concepts of pathobiology including bacterial, viral and parasitic diseases, the host response to infectious agents, pathology and metabolic and genetic diseases. The course is designed to include animal and human diseases and to provide enough background to facilitate students in advanced graduate courses. Prerequisite(s): Graduate student status.
Requests for a Change in Course

Title and Description
C601  EDCI 620  Teaching Secondary School Algebra
From:  EDCI 620 Teaching Secondary School Algebra
       TCH SECONDARY SCH ALGEBRA
To:  EDCI 620 Teaching and Learning Pattern and Change Concepts
       T&L PTTN & CHANGE CONCPT
From:  Content and pedagogy of selected contemporary programs in school algebra.
To:  Examination of the content, pedagogy, technology, and research on teaching and
      student learning concepts on skills in algebra, functions, and calculus. Discussion of
      contemporary issues in K-12, standards and assessment.

C602  EECI 625  Remediating Error Patterns in Elementary School Mathematics
From:  EECI 625 Remediating Error Patterns in Elementary School Mathematics
       RMDT ERR PTRN ELEM MATH
To:  EECI 625 Teaching and Learning Mathematics with Diverse Learners
       T&L MATH WITH DVSE LNRS
From:  Applications of remedial techniques after identifying an elementary student’s
       mathematical difficulties; related to elementary school children’s acquisition of computational
       skills.
To:  Examining diagnostic and assessment procedures in mathematics and their potential for
      identifying problem areas related to children’s acquisition of mathematical skills; number and
      quantity concepts.

Title and Description and Prerequisite
C600  PLPA 617  Principles and Concepts of Plant Pathogenesis
From:  PLPA 617 Principles and Concepts of Plant Pathogenesis
       PRIN & CONCEPT PL PATH
To:  PLPA 617 Molecular Plant Pathogen Interactions
       MOL PLANT PATHOGEN INTER
From:  Critical review of the literature on plant pathogenesis, specificity, mechanisms of host-
       parasite interactions; theoretical aspects of pathogenesis; designed for the advanced student in
       plant pathology.
To:  Critical review of the current literature on molecular and biochemical mechanisms of
      plant responses to pathogen invasion; overview of disease resistance genes, major classes of
      defense-related proteins, antimicrobial compounds and signal-transduction pathways.
From:  Graduate classification in plant pathology or approval of instructor.
To:  Graduate classification in any life sciences departments.