Minutes of the University Curriculum Committee
April 13, 2007
217 Koldus

Members present: Robert Knight (Chair), College of Agriculture and Life Sciences; Tim Scott (Vice-Chair), College of Science; Les Feigenbaum, College of Architecture; Jim Kracht, College of Education and Human Development; Cynthia LaJimodiere, Dwight Look College of Engineering; Vatche Tchakerian, College of Geosciences; Pamela Matthews, College of Liberal Arts; George Fowler, Mays Business School; Norma Funkhouser, Medical Sciences Library; Donna Lang, Texas A&M University at Galveston; Kristin Harper (for Martyn Gunn), Undergraduate Programs and Academic Services; Laurie Jaeger, College of Veterinary Medicine and Biomedical Sciences.

Guests: Fidel Fernandez, Department of Biomedical Engineering; Bill McMullen, Department of Maritime Administration, Texas A&M University at Galveston; Skip Landis, College of Veterinary Medicine and Biomedical Sciences.

The University Curriculum Committee recommends approval of the following:

1. The minutes of the March 9, 2007 meeting.

2. New Course

   BMEN 282. Engineering Biology. (3-0). Credit 3. Application of engineering methods to understand biological function from the molecular and cellular level. Prerequisites: Admitted to major degree sequence and CHEM 101 or 107.

   SPSC 398. Interpretation of Aerial Photographs. (2-3). Credit 3. Identification and evaluation of natural and cultural features on aerial photographs; methods for extracting information concerning land use, vegetative cover, surface and structural features, urban/industrial patterns and archaeological sites. Prerequisites: MATH 102 and one of the following: AGRO 301, BIOL 113, FRSC 101, GEOG 203, GEOL 101, RENR 205, WFSC 101. Cross-listed with FRSC 398 and GEOG 398.

   SPSC 444. Remote Sensing in Renewable Natural Resources. (2-3). Credit 3. Application of fundamental photogrammetry and photo interpretation and the use of other sensors in remote detection and analysis of natural resources; interpretation of natural vegetation as it applies to ecosystem analysis for range, forest and wildlife management; natural resource planning for rural, urban and recreational development. Prerequisite: Junior classification. Cross-listed with RENR 444.

3. Withdrawal of Courses

   BUSH 470. Cold War Intelligence.
   BUSH 489. Special Topics In….
   CHEM 323. Physical Chemistry.
   CHEM 324. Physical Chemistry.
   INFO 332. Business Systems Operating Environment.
   INFO 430. Advanced Systems Analysis and Design.
   INFO 438. Emerging Information Technologies.

4. Change in Courses

INFO 374. Business Information Security.

Course Title
- From: Business Information Security.
- To: Business Information Security and Risk Management.

Course Description
- From: Explores the business, managerial and technological aspects of information security; analysis, design, implementation and management issues surrounding effective information security; includes business continuity planning, CIA model, disaster recovery, security policy development, risk management, security protocols, virus protection and VPN.
- To: Explores business, managerial and technological aspects of information security; analysis, design, implementation and management issues surrounding effective information security; includes risk management, business continuity planning, security policy development.

INFO 429. Business Systems Analysis and Design.

Course number
- From: INFO 429.
- To: INFO 330.

Course description and prerequisites
- From: Techniques and methods currently used in system analysis and design; use of automated tools to support systems development. Prerequisite: INFO 328 or approval of instructor.
- To: Techniques and methods currently used in system analysis and design including object oriented methods; use of automated tools to support systems development. Prerequisite: INFO 328 or concurrent enrollment.

PHYS 101. Topics in Contemporary Physics.

Course title
- From: Topics in Contemporary Physics.
- To: Freshman Physics Orientation.

Course description and prerequisites
- From: Modern developments in the frontier areas of experimental and theoretical physics. Research specialties in the Department of Physics will be represented, including equipment demonstrations and visiting speakers. For physics majors. Registration by non-majors requires approval of physics department head.
- To: Critical thinking skills and problem solving in physics: time management and teaming skills. May be taken twice for credit. For physics majors. Registration by non-majors requires approval of physics department head. Prerequisite: Registration in PHYS 218 or 208.

PHYS 401. Computational Physics.

Course description and prerequisites

From: Computational techniques in physics applications and research; including numerical interpolation, differentiation and integration, symbolic computation, Monte Carlo methods, vector and matrix operations, graphics, differential equations, variational methods and fast Fourier transforms. Prerequisites: MATH 331; MATH 412; PHYS 302; PHYS 309; ability to program in a high level language, such as FORTRAN. CPSC 203 can be used to satisfy this requirement.

To: Introduction to computational and simulational techniques widely used in physics applications and research, including trajectory integration, wave motion analysis, molecular dynamics, Monte Carlo methods, statistical mechanics of spin systems, phase transitions, quantum evolution, bound state problems, and variational methods. Prerequisites: MATH 331; MATH 412; PHYS 302; PHYS 309; knowledge of a high level language such as FORTRAN or C. This prerequisite can be obtained by taking CPSC 206 or the equivalent.

5. Texas A&M University at Galveston

New Course

MARB 414. Toxicology. (3-0). Credit 3. History and scope of toxicology as it applies to mammals; examples will include marine mammals. Prerequisites: BIOL 111, BIOL 112, CHEM 227, CHEM 228.

Change in Curriculum

Department of Maritime Administration

B.S. in Maritime Administration

New Courses

ACCT 316. Intermediate Accounting for Non-Accounting Majors II. (3-0). Credit 3. Includes the measurement and disclosure requirements for liabilities and stockholders' equity, SEC registration statements, and cash flow reporting; focus on the analysis and interpretation of financial statements rather than their preparation. Does not qualify as a directed or free elective for accounting majors and does not count towards the accounting requirement for the CPA exam. Prerequisite: ACCT 315 or 327.

ECON 323. Microeconomic Theory. (3-0). Credit 3. Determination of prices and their role in directing consumption, production, and distribution under both competitive and non-competitive market situations. Prerequisites: ECON 202; MATH 142.

MARA 250. Management Information Systems. (2-0). Credit 2. Introduction to the concepts and applications of management information systems, including information technology concepts, computer hardware, common business software, software selection and development, management information systems (MIS), decision support systems (DSS), and working in a digital world.

MARA 281. Seminar in Undergraduate Research Methods. (1-0). Credit 1. An introduction to necessary undergraduate research methods in economics and business, to prepare students for investigative writing requirements in upper division courses in maritime business administration. Prerequisite: Sophomore standing.

MARA 342. Managerial Maritime Finance. (3-0). Credit 3. Continuation of topics introduced in Business Finance (FIN 341) including risk and return, investment valuation, the selection of risky investment projects, capital structure, dividend policy, and methods of raising long-term capital; applications to the maritime industry are made where appropriate. Prerequisite: FINC 341.

MARA 440. Global Economy and Enterprise Management. (3-0). Credit 3. Introduction to the economic, political, social and ethical environments of international business including the determinants of trade and investment patterns and the logic of government interventions in both trade and capital markets; also discussed are the structure, strategy and operations of the international firm. Prerequisites: ECON 203 and junior or senior classification.

MARA 450. Maritime Supply Chain Management. (3-0). Credit 3. Introduction to the concepts involved in supply chain management (SCM); SCM encompasses the functional areas of procurement, operations management, inbound/outbound transportation, customer service, and information technologies; emphasizes how these functional areas are integrated to achieve the firm's overall objectives. Prerequisites: INFO 303, INFO 364.

Special Consideration

Department of Marine Biology
Minor in Marine Biology

6. Special Consideration

College of Education and Human Development
Department of Health and Kinesiology
Dance Teaching Field - Revised

Mays Business School
University Studies Degree
Area of Concentration - Business

College of Science
Department of Mathematics
University Studies Degree
Area of Concentration – Mathematics for Teaching

7. The item listed below was tabled. Coordination with the Department of Geography is needed.

Change in Curriculum
College of Agriculture and Life Sciences
Department of Ecosystem Science and Management
B.S. in Spatial Sciences

8. Other items discussed

- Revised course forms to be posted on UCC website; beginning June UCC meeting, new forms must be used.
- Update UCC website to include past agendas.
- May UCC meeting will be held Thursday, May 10, from 3:30 to 5:00 (same location).