

Minutes of the Undergraduate Curriculum Committee
February 8, 2013
Room 217, John J. Koldus Building

Members present: Tim Scott (Chair), College of Science; Sarah Bednarz (Vice-Chair), College of Geosciences; Jean Layne, Center for Teaching Excellence; Robert Knight, College of Agriculture and Life Sciences; Leslie Feigenbaum, College of Architecture; John Tyler, Dwight Look College of Engineering; Glenn Jones, Texas A&M University at Galveston; Jim Kracht (for Ann Kenimer), Undergraduate Studies; James Herman, College of Veterinary Medicine and Biomedical Sciences.

The Undergraduate Curriculum Committee recommends approval of the following:

1. The minutes of December 13, 2012 meeting.
2. Change in Courses

PHYS 221. Optics and Thermal Physics.

Course prerequisites

From: PHYS 208; MATH 152 or MATH 172; registration in MATH 221, MATH 308.

To: PHYS 208 or PHYS 219; MATH 152 or MATH 172; registration in MATH 221 or MATH 251 or MATH 253; MATH 308 or registration therein.

PHYS 302. Advanced Mechanics I.

Course description

From: Classical mechanics of particles and rigid bodies, both by direct application of Newton's equations and by Lagrangian methods; applications to gravity and other central forces, coupled oscillators, non-inertial reference frames, and the statics and dynamics of fluids with and without viscosity; introduction to statics of structures.

To: Classical mechanics of particles and rigid bodies, both by direct application of Newton's equations and by Lagrangian methods; applications to gravity and other central forces, scattering, non-inertial reference frames, and rotational motion of rigid bodies.

Course prerequisites

From: MATH 221 or MATH 251 or MATH 253; MATH 308; PHYS 208, PHYS 218, PHYS 222, and PHYS 331; concurrent enrollment in PHYS 332; for students with other backgrounds, approval of instructor.

To: MATH 221 or MATH 251 or MATH 253; MATH 308, PHYS 208, PHYS 218, and PHYS 331; PHYS 309 or PHYS 222; concurrent enrollment in PHYS 332; for students with other backgrounds, approval of instructor.

PHYS 303. Advanced Mechanics II.

Course description

From: Classical mechanics of particles and rigid bodies with an emphasis on Lagrangian and Hamiltonian methods; applications to chaos, scattering, coupled oscillations, and continua, including sound in fluids; mechanical

implications of special relativity; introduction to drag and turbulence in fluids; introduction to elasticity in solids; Euler buckling instability.
To: Classical mechanics of particles and rigid bodies with an emphasis on Lagrangian and Hamiltonian methods; phase space and canonical transformations; applications to linear and nonlinear oscillations, chaos, and elements of continuum mechanics.

3. Texas A&M University at Galveston

a. New Course

MAST 480. Honors Seminar in Service Learning. (1-0). Credit 1. Opportunities for community service through active community participation; includes structured time for reflection; use of skills and knowledge in real-life situations; extend learning beyond the classroom; foster a sense of caring for others. May be taken two times for credit.
Prerequisites: Junior or senior classification, or approval of instructor; member of Texas A&M University at Galveston honors program.

b. Change in Courses

MARE 303. Marine Thermodynamics.

Course number

From: MARE 303.

To: MARE 202.

Course prerequisites

From: MATH 161. Junior or senior classification or approval of instructor.

To: MATH 152, or MATH 161 or concurrent enrollment.

Department of Maritime Systems Engineering.

Course prefix change from MASE to OCSE

(see memorandum from Dr. Donna Lang and Dr. Martin Miller)

c. Change in Curriculum

Texas A&M University at Galveston

Department of Marine Biology

Minor in Marine Biology – requirement changes

d. Special Consideration

Texas A&M University at Galveston

Department of Maritime Systems Engineering

B.S. in Maritime Systems Engineering

Request for a degree program name change

4. Other Business

Topics discussed included core curriculum process and the professional program (DVM).