TO: Lawrence Williams, Chair
Undergraduate Committee

FROM: Charles Peters, Chair
Degree Programs and CB03 - 2

SUBJECT: Subcommittee Report

DATE: November 21, 2013

The Degree Programs and CB03 - 2 subcommittee met on 11/13/2013 and again on 11/20/2013. Our guests were Ting Chen from Biomedical Engineering, William Epling from Chemical and Biomolecular Engineering, Richard Bannerot from Mechanical Engineering, and Tom Holley from Petroleum Engineering. The subcommittee recommends approval of all the items listed below except the last, which needs revision or clarification of prerequisites.

Biomedical Engineering:

New courses:
  UC12408 BIOE 3140: Quantitative Physiology Laboratory
  UC12411 BIOE 5316: Transport Phenomena in Biosystems
  UC12412 BIOE 5317: Introduction to Biomedical Imaging
  UC12413 BIOE 5318: Introduction to Biomedical Informatics
  UC12414 BIOE 5319: Introduction to Global Healthcare
  UC12415 BIOE 5320: Introduction to Electromagnetic Imaging
  UC12419 BIOE 5197: Selected Topics
  UC12717 BIOE 4115: Introduction to Bioinstrumentation Lab
  UC12718 BIOE 4315: Introduction to Bioinstrumentation
  UC12719 BIOE 4335: Capstone Design I
  UC12720 BIOE 4336: Capstone Design II

Chemical Engineering:

New courses:
  UC12421 CHEE 4197: Selected Topics
  UC12422 CHEE 4297: Selected Topics
  UC12423 CHEE 4397: Selected Topics

Course changes:
  UC12420 CHEE 2331: Chemical Processes

Civil and Environmental Engineering:

New courses:
  UC12429 CIVE 4365: Bridge Engineering
Course changes:
UC12424  CIVE 3331: Environmental Engineering
UC12425  CIVE 3399: Senior Honors Thesis
UC12426  CIVE 4311: Professional Practice in Civil Engineering
UC12427  CIVE 4312: Civil Engineering Design Project
UC12428  CIVE 4337: Transportation Engineering
UC12430  CIVE 5362: Water Quality Engineering
UC12431  CIVE 5380: Introduction to Geomatics and Geosensing

Mechanical Engineering:

New courses:
UC12435  MECE 3381: Introduction to Finite Element Methods for Mechanical Engineers

Course changes:
UC12433  MECE 1100: Introduction to Mechanical Engineering
UC12434  MECE 2334: Thermodynamics
UC12436  MECE 4331: Design of Machine Elements
UC12437  MECE 4343: Thermal Design
UC12438  MECE 4364: Heat Transfer
UC12439  MECE 4340: Mechanical Engineering Capstone I

Electrical and Computer Engineering:

Course changes:
UC12432  ECE 4335: Electrical and Computer Engineering Design I

Petroleum Engineering:

New courses:
UC12448  PETR 4301: Reservoir Characterization and Modeling
UC12450  PETR 4312: Petroleum Capstone Project II

Course changes:
UC12440  PETR 2311: Reservoir Petrophysics
UC12441  PETR 2313: Reservoir Fluids
UC12442  PETR 3310: Petroleum Production Economics
UC12443  PETR 3315: Introduction to Well Logging
UC12444  PETR 3318: Well Drilling and Completion
UC12445  PETR 3321: Petroleum Pressure Transient Testing
UC12446  PETR 3362: Reservoir Engineering I
UC12447  PETR 3372: Petroleum Production Operations
UC12449  PETR 4311: Petroleum Capstone Project I
UC12451  PETR 4392: Petroleum Project Management
UC12453  PETR 5324: Theory of Reservoir Modeling
UC12454  PETR 5325: Integrated Reservoir Characterization
UC12455  PETR 5350: Natural Gas Engineering

UC12452  PETR 5304: Core Analysis of Petroleum Formations requires some clarification of prerequisites. The subcommittee has tabled this item until then.