

UC 12725 13F

APPROVED JAN 22 2014
M.M.

TO: Lawrence Williams, Chair
Undergraduate Committee

FROM: Charles Peters, Chair CP
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.