CEAS Curriculum Committee
Meeting Agenda
Date: Jan 7, 2022; Time: 2:00 PM
Microsoft Teams, +1 414-253-8850 Conference ID: 148 704 687#

1) **Announcements**

2) **Approval of the agenda**

3) **Automatic Consent**
   Approval of Nov 19, 2021 meeting minutes.

4) **New business**

1. CivEng 466, Mechanics of Composite Materials (UG), **Course Name, Description**
   Proposed title change to: Design of Composite Structures
   Description: ~~Basic concepts, materials, and characteristics of composites. Micromechanics and Macromechanics of Elastic Response.~~ Hands-on design, analysis, ~~Failure, design~~ and manufacturing ~~optimization~~ of composite fiber reinforced plastic beams, columns, and plates; failure analysis and damage tolerance design of composite structures; bolted and bonded joints. ~~structures.~~
   Prerequisites: junior standing and CIV ENG 203(P) or CIV ENG 303(P).

2. CivEng 335, Soil Mechanics (U), **Prerequisite**
   Description: Fundamentals of soil mechanics; soil classification; seepage analysis; principle of effective stress; stress distribution; 1-D consolidation theory; shear strength; laboratory experience.
   Prerequisites: junior standing~~,~~; admis to an Engineering Major~~,~~; CIV ENG 203(P) ~~and~~ or CIV ENG 303(P) or graduate standing.

3. IndEng 572, Reliability Engineering (UG), **Cross-Listing**
   Concepts and methods for the design, testing, and estimation of component and system reliabilities. Failures and failure rates; life tests; series-parallel, and standby systems; stress levels; redundancy and reliability apportionment; maintainability, availability, and safety; reliability design and implementation.
   Prerequisite: jr st; CompSci351(252)(P) & C or better in either CompSci 317(217)(P) or both of Math 341 and MthStat 361 ~~317(217)(P); & CompSci351(252)(P).~~
   MechEng 572 will be created as a cross-listing for this existing class.
   Note: CIM form shows change in description.

4. CivEng 490, Transportation Engineering (UG), **Prerequisite**
   Technological and common elements of all modes of transportation; their effect on performance, demand, and outputs of a transportation system. Development of new transportation systems.

Prerequisites: jr st & admis to an Eng major; Civ Eng 250(P); ~~280(P)~~; or grad st.
Note: CIM shows a title change to: (DISC)Transportation Engineering

5. Matleng 443, Transport Phenomena in Materials Processing (UG) **Prerequisite**
   A study of phenomena related to transport of mass, energy, and momentum with
   applications to materials processing.
   Prereq: jr st, MatlEng 316(P); ~~442(P);~~ & ElecEng 234(P) or Math 234(P); or grad st.

6. APC 380 Project Management Techniques (U) **Prerequisite**
   An introduction to project management techniques including project selection and life cycle,
   stakeholder/scopequality/procurement management, budget control, scheduling, risk
   identification.
   Prereq: admis to BS-APC prog; APC 300(P); 320(P); 330(P). ~~370(P).~~

7. CompSci 422, Introduction to Artificial Intelligence (UG), **Prerequisite**
   Introduction to core techniques and broad survey of AI. Topics include: Lisp, heuristic
   search, knowledge representation, planning, vision, learning.
   Prerequisite: jr st; CompSci351(252)(P) & C or better in either CompSci 317(217)(P) or both
   of Math 341 and MthStat 361 ~~317(217)(P); & CompSci351(252)(P).~~

8. Matleng 481 and ElecEng 481 (Cross-listed), Electronic Materials (UG), **Prerequisite**
   Electronic conduction in materials. Electronic phenomena in metals, semiconductors, and
   insulators. Materials production, characterization, and application to micro-electronic
   devices, with particular emphasis on thin film technology.
   Prerequisite: jr st; PHYSICS 210(P) ~~MatlEng 201(P)~~ or PHYSICS 220(P) or cons instr.

9. Admission to Major. Creation of Pre-Engineering program in collaboration with CGS (see
   attachment)

5) Old business
1. Renewed motion: Program Change – Biomedical Engineering
   See attachment. Program change motion was not approved at the CEAS faculty meeting
   and was sent back to the Curriculum Committee.

6) Adjournment