

**CEAS Curriculum Committee
Meeting Agenda**

Date: 19 Nov 2021; Time: 9 AM

Microsoft Teams, +1 414-253-8850 Conference ID: ID: 513 463 992#

1) Announcements

2) Approval of the agenda

3) Automatic Consent

Approval of Sept 17, 2021 meeting minutes.

4) New business

1. EAS 121, Automation: Controls and Sensors (U), Discontinue course

Industrial automation principles; controller technology and programming; controller applications and troubleshooting; network infrastructure technology; basic instrumentation technology.

Prerequisites: none

2. EAS 122, Motion Control and Safety (U), Discontinue course

AC drive and motor technology; visualization and information software; machine safety technology; motion control technology.

Prerequisites: none

3. EAS 110 Fundamentals of Smart Systems Engineering I (U) New Course

Course Description: 2 Cr. U, Electrical sources, resistance, Kirchhoff's laws, Resistive sensors, application, introduction to robotics, laboratory experiments and projects. Prereq: Math-115 (C).

4. EAS 210 Fundamentals of Smart Systems Engineering II (U) New Course

Course Description: 2 Cr. U., Electrical capacitance, inductance, simple circuit application, diodes, opamps, digital logic, microcontroller basics, laboratory experiments and projects.

Prereq: EAS 110 (P).

5. BME 101, Fundamentals of Biomedical Engineering (U), Prerequisite Change

A system approach to physiology, cell physiology and transport, major organ systems, cardiovascular system, biomedical signal processing, biomechanics, biomedical engineering design.

Prerequisite: Math **115(C)**. ~~221(C) or Math 231(C)~~

6. BME 296: Fundamentals of Biomaterials (U) New Course

Course Description: 4 Cr. U., Fundamentals of biomaterials including ceramics, metals, polymers, and natural biomaterials; Biological responses to implants; clinical perspectives;

designing new biomaterials; tissue engineering. Laboratory experiments.
Prerequisite: Bio Sci 203 (P)

7. BME 306: Introduction to Engineering Biomechanics (U) **New Course**

Course Description: 4 Cr. U., Introduction to engineering biomechanics principles applied to the musculoskeletal system and human body for analysis of human movement, Laboratory experiments. Prereqs: BioSci 203 (P), BME 302.

8. Program Change – Biomedical Engineering
See attachment.

5) Old business

1. Civ Eng 573, Design of Masonry and Wood Structures (U/G), title and description change

Title Change: Design of Masonry **and Wood** Structures

Properties ~~Topics in design~~ of masonry ~~structures~~; materials, loads, design codes, reinforced & unreinforced ~~axial & flexural~~ members, composite & cavity walls, shear ~~walls.~~ **walls,** ~~seismic requirements.~~ **Properties of wood, design of wood structural members by LRFD including beams, columns and connections.**

6) Adjournment