

College of Engineering and Applied Science
Minutes of CEAS Curriculum Committee Meeting

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| Date: | 19 Nov 2021 |
| Place: | Virtual – Microsoft Teams |
| Members Present: | Hamid Seifoddini, Rohit Kate, Priyatha Premnath, Robert Cuzner, Roshan D’Souza, Ben Church (Chair), Habib Tabatabai, Ethan Munson (Ex Officio), Todd Johnson (Ex Officio) |
| Members Absent: | |
| Guest: | Rani El-Hajjar |

The meeting was called to order at 9:03 AM.

Announcements

Church: UWM is considering micro-credentials as another offering to students. These would be transcript-listed items that have lower requirements than minors. This is still a work in progress. Details of the proposal can be found here: <https://uwm.edu/secu/wp-content/uploads/sites/122/2021/11/Microcredential-Report-and-Recommendations.pdf>

Approval of the Agenda

Agenda approved without changes.

Approval of Minutes: Minutes from the Sept 17, 2021 meeting were approved by automatic consent.

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
Considered along with item #2 below.
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
Motion to approve discontinuation of EAS 121 and 122 (Kate, Cuzner). Motion approved unanimously.
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).
Motion to approve (Seifoddini, Kate). Motion approved (5-2-0).

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).
 Motion to approve (Seifoddini, Kate). Motion approved with five in favor and two opposed.

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)~~.
 Motion to approve (Seifoddini, Kate). Motion approved unanimously.

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)
 Motion to approve (Premnath, Seifoddini). Motion approved with five in favor and one opposed.

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 (P).
 Motion to approve (Premnath, Seifoddini). Motion approved unanimously.

8. **Program Change** – Biomedical Engineering
 See attachment.
 Motion to approve (Premnath, Church). Motion approved with three in favor and one opposed.

Old Business

1. Civ Eng 573, Design of Masonry 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**. Motion to approve (Seifoddini, Premnath). Motion approved unanimously.

Meeting adjourned at 10:20 AM

Submitted by,
 Ben Church, 22 Nov 2021