

# CEAS Curriculum Committee Meeting Agenda

**Date: 17 Sept 2021; Time: 9 AM**

Microsoft Teams, +1 414-253-8850 Conference ID: ID: 896 018 044#

**1) Announcements**

**2) Approval of the agenda**

**3) Automatic Consent**

Approval of May 20, 2021

**4) New business**

**1. CompSci 557, Introduction to Database Systems (U/G), Prerequisite Change**

General database system concepts. Physical data organization. Data models and database systems. Database design theory. Query optimization. Transaction management. Logic and database.

Prerequisites: jr st; CompSci ~~315(215)(P)~~ & 251(P) or equiv.

Note: The prerequisite of COMPSCI 315 (Computer Organization and Assembly Language Programming) is no longer needed based on the current coverage of the course.

**2. Matleng 485, Intro to Computational Materials Modeling and Simulations (U/G), New Course**

Description: Intro to basic principles of materials modeling and molecular simulation techniques used to study the properties and behavior of materials at the molecular level. Topics include statistical and molecular mechanics, molecular dynamics, Monte Carlo method, free energy computations, controlling dynamics, and simulation methods in various ensembles (NVE, NVT, NPT, grand canonical). No prior knowledge in modeling and simulation is required. However, basic knowledge of crystal structures, classical mechanics, and materials thermodynamics is assumed.

Prerequisites: jr st, MatlEng 201(P)

**5) Old business**

None

**6) Adjournment**