

6 October 2020

TO: Faculty Senate

FROM: Susan Ginley, Chair, Undergraduate Curriculum Committee

RE: November 2020 Consent Agenda

The following proposals have been approved by the Undergraduate Curriculum Committee and are recommended for approval by the Faculty Senate.

You may read the full text for any proposal, as well as Budget Committee comments, at the [Online Curriculum Management System \(OCMS\) Curriculum Dashboard](#).

Maseeh College of Engineering and Computer Science

New Course

E.1.b.1

- *ME 461 Buildings and health: Indoor air quality, 4 credits
We spend 90% of our time inside buildings and much of our exposure to air pollution occurs indoors. Students develop mass-balance models of pollutant fate, transport, and transformation for indoor spaces including parameterizing indoor sources (emissions), indoor-outdoor transport (ventilation), transformation (removal and chemical reactions), and control strategies for indoor air pollutants. Students solve developed models with analytical and numerical methods. Students use mass-balance models to inform assessment of human exposure to air pollution and infectious disease transmission.
Prerequisite: ME 320 or equivalent.

* This course is part of a dual-level (400/500) course. For any revisions associated with the 500-level section please refer to the Grad Council consent agenda memo.