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To: HSSEAS Faculty Executive Committee

From: Jian Zhang, Vice Chair of Undergraduate Affairs
Civil and Environmental Engineering

A handwritten signature in cursive script, appearing to read "Jian Zhang".

Subject: Updates of CEE Undergraduate Curriculum for 2021-2022 Academic Year

The purpose of this memo is to update the CEE undergraduate curriculum to include several new/revised courses that have been approved by FEC during 2020-2021 academic year. The detailed changes are highlighted in the proposed 2021/22 curriculum and listed below:

- (1) C106/C206: Modeling and Simulation of Civil Engineering Material is a revised course which has been approved by FEC on October 16, 2020. It is added as one of the major field electives under Materials track.
- (2) C111/C211: Machine Learning and Artificial Intelligence for Civil Engineering is a new course which has been approved by FEC on October 16, 2020. It is added in CEE curriculum as an alternative course to CEE 110 and also listed as one of the major field electives under Materials track.
- (3) C158/C258: Coastal Engineering is a new course, which has been approved by FEC on December 11, 2020. It is added as one of the major field electives under Hydrology and Water Resources Engineering track.
- (4) C181/C281: Traffic Engineering Systems is a revised course, which has been approved by FEC on December 11, 2020. It is listed as one of the major field electives under Transportation Engineering.
- (5) C185/C285: Transportation Systems Analysis is a new course, which has been approved by FEC on December 11, 2020. It is added as one of the major field electives under Transportation Engineering.
- (6) C186/C286: Intelligent Transportation Systems is a new course, which has been approved by FEC on December 11, 2020. It is added as one of the major field electives under Transportation Engineering track.
- (7) CEE 148: Wood and Timber Design has been approved by FEC in 2019-2020 academic year. It is added as one of the major field electives under Structural Engineering and Mechanics track.

- (8) CEE 129L: Engineering Geomatics added to Hydrology and Water Resources Engineering major field elective. Added “129L can be taken along with either 128L or 157L” under Additional Elective Options.
- (9) CEE C159: Green Infrastructure, added to Environmental Engineering major field elective.

Civil and Environmental Engineering Department has discussed the proposed changes during the faculty meeting on January 7, 2021. Ballots were distributed afterwards and the curriculum changes have been approved by vote (Yes: 16, No: 0, Abstain: 0, Absent: 6).