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SR-16-17-31 CC

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CURRICULUM COMMITTEE RECOMMENDATION

SR-16-17-31 CC

NOTE: The curricular form for each item listed may be accessed at www.marshall.edu/senate/ucc. Click the UCC Agendas/Minutes link; click the link for the January 27, 2017 meeting date; click the link in the Description column to open a particular item.

Recommends approval of the listed UNDERGRADUATE COURSE CHANGES in the following colleges and/or schools/program:

Course Change

- COLLEGE of INFORMATION TECHNOLOGY and ENGINEERING

***Course Title:** CE 312 Structural Analysis

***Rationale:** No discussion was made in the original description regarding the stability and static determinacy of structures, which is one of the more fundamental topics in the course. Whether a structure is statistically determinate/indeterminate is the key factor in choosing an appropriate analysis technique.

Also, the discussion of “dead, live, snow, and wind loads” was deemed superfluous and therefore removed. The description was also slightly reworded to be grammatically consistent with other course descriptions.

***Curriculum:** <http://www.marshall.edu/senate/ucc/archives/CE%20312%20-%20Fall%202017.pdf>

***Course Title:** CE 413 Reinforced Concrete Design

***Rationale:** Structural engineers have not used “working stress” design methods (i.e. simplified factors of safety) in reinforced concrete design for a number of years now. We now use more refined probabilistic-based approaches. Therefore, this was removed to keep the course content current. The description was also slightly reworded to be grammatically consistent with other course descriptions.

***Curriculum:** <http://www.marshall.edu/senate/ucc/archives/CE%20413%20-%20Fall%202017.pdf>

***Course Title:** CE 414 Structural Steel Design

***Rationale:** The previous description did not separately reference bolted and welded connections, which are quite unique and critical topics for this course. In addition, no mention of serviceability requirements (which can greatly influence beam and frame design) were present in the previous course description. Therefore, these topics were added for clarity. Also, the phrase “introduction to the design of steel structures” was deemed redundant and therefore removed. The description was also slightly reworded to be grammatically consistent with other course descriptions.