

2.7.2024

**To:** Undergraduate Studies Committee  
**From:** Department of Information Technology and Management

### **Proposed Change to the Bachelor of Information Technology and Management degree**

Based on recent research into mathematical requirements and expectations for students in the information technology discipline, the faculty of the Department of Information Technology and Management has voted to add **MATH 192 Finite Mathematics** as a mathematics requirement for the Bachelor of Information Technology and Management. This will increase the rigor and completeness of mathematics education in this degree, adding the topics of probability, linear algebra, and Markov chains. This will expand our mathematics sequence in this degree to **MATH 180 Fundamentals of Discrete Mathematics → MATH 192 Finite Mathematics → Statistics (BUS 221, PSYC 203, MATH 225, or MATH 425)**. With only a prerequisite knowledge of algebra, this will also maintain the accessibility of the Bachelor of Information Technology and Management degree as a technical STEM degree for students who have not had adequate preparation for calculus.

We have consulted with the Department of Applied Mathematics who were very receptive to this idea, and they have agreed to offer this course annually to serve our student population starting in Fall of 2025. We appreciate their ongoing support and efforts in the cooperative education of students in our department. MATH 192 may also be appropriate for use in undergraduate Business programs, and we have discussed this with appropriate Stuart School of Business faculty.

This is not a significant change to this degree program and is provided as an information item. This will not change the hours required for the degree; the only impact is a reduction in the free elective requirement from nine credit hours to six credit hours.

**SUMMARY:** Add MATH 192 to the degree; subtract 3 hours of free electives; not a significant change.



Ray Trygstad