

MEMORANDUM

To: University Senate
From: W. Randy Smith, Vice Chair, Council on Academic Affairs
Subject: Proposal to Establish a Master of Systems Engineering
Date: April 14, 2025

A PROPOSAL FROM THE COUNCIL ON ACADEMIC AFFAIRS TO ESTABLISH A PROFESSIONAL MASTER OF SYSTEMS ENGINEERING, COLLEGE OF ENGINEERING

- Whereas the proposed Master of Systems Engineering is a professional program aimed at practicing engineers seeking to increase their systems engineering modeling, planning, and decision-making skills; and is a technically-based program that teaches concepts, principles, tools and methods to model and manage systems engineering projects and programs in an engineering setting and can be applied throughout any engineering discipline; and
- Whereas the College completed a detailed market analysis that demonstrated need; target audience is engineers in business, industry, healthcare and government who have worked in the field for 3-10 years and are responsible for modeling, designing and deploying complex systems and may be employed in the public or private sectors; and admission eligibility requirements are clearly specified; and
- Whereas the curriculum is a minimum of 30 semester credit hours, will be delivered completely online, has well-developed learning outcomes, includes 15 required credit hours, 12 credit hours of electives and a 3 credit hour capstone course, with content offered by faculty in the College of Engineering and the John Glenn College of Public Affairs; and the program will be administered through the College of Engineering's Professional and Distance Education Programs Office, and will have a Faculty Director, a Graduate Studies Committee, and an industry advisory board; and
- Whereas the proposal was approved by the Department of Integrated Systems Engineering, the College of Engineering and the John Glenn College of Public Affairs, was reviewed by the combined Graduate School Council / Council on Academic Affairs subcommittee and then approved by the full Council on Academic Affairs at its meeting on March 19, 2025;

Now therefore be it resolved that the University Senate approve the proposal to establish the Master of Professional Master of Systems Engineering degree program and respectfully request approval by the Board of Trustees.