

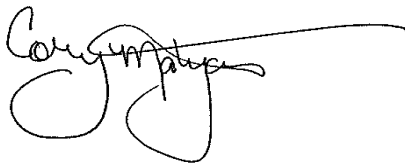


To: Randy Smith, Vice Provost for Academic Programs, Office of Academic Affairs
From: Cory Matyas, Assistant Dean for Curriculum and Assessment
Date: September 1, 2026

The Department of Integrated Systems Engineering proposes to add ISE 4230 (Decision Analytics for Integrated Systems Engineering) as a technical elective option in the undergraduate ISE curriculum across the following tracks: Management Systems and Operations Research, Manufacturing, and Human Systems Integration.

This change expands the available elective options within each track without altering degree requirements and is requested to take effect immediately.

The Engineering College Committee on Academic Affairs reviewed this proposal as an informational item on September 1, 2026. There were no questions or concerns, and a College-level record of support for this proposal was created.



2026 May 1

Cory Matyas
Assistant Dean for Curriculum and Assessment
College of Engineering
117 Hitchcock Hall, 2070 Neil Ave.
Columbus, OH 43210

Dear Assistant Dean Matyas,

ISE would like to add ISE 4230 - Decision Analytics for Integrated Systems Engineering as a technical elective course for the following technical elective tracks in the ISE undergraduate curriculum:

Management Systems and Operations Research Track:

Add to the ISE elective options, to increase from 12 to 13

Manufacturing Track:

Add to the Group 2: Manufacturing Connected Skills, Any ISE technical elective from another track

Human Systems Integration Track:

Add as option in the "Any ISE Technical elective from another track" within the "Minimum of 6 hours" section of TEs

I have included screen shots to supplement and clarify where this course is to be added to each of these tracks. Please see the addendum to this letter (starting on the next page).

We would like these modifications/additions included in our degree audit, to take effect as of Fall 2026.

Please let us know if you have any concerns or questions about this.

Sincerely,



Carolyn M. Sommerich, PhD, CPE, FHFES
ISE Undergraduate Studies Chair

cc.

Farhang Pourboghraat PhD,
Chair, ISE Department

Leslie Dowler, MEd
Senior Academic Advisor, ISE Department

ADDENDUM: see next pages

Choose three courses (9 hours)

Course Number	Credit Hours	Course Name
ISE 5043	3	Power Systems: Analysis and Operation
ISE 5110	3	Design of Engineering Experiments
ISE 5220	3	Complementarity Theory and Applications
ISE 5230	3	Decomposition Techniques in Mathematical Programming
ISE 5350	3	Probabilistic Models and Methods in Operations Research
ISE 5410	3	Quantitative Models in Production and Distribution Logistics
ISE 5745	3	Human-Centered Machine Learning
ISE 5760	3	Visual Analytics and Sensemaking
ISE 5800	3	Advanced Project Management
ISE 5820	3	Systems Thinking in Engineering and Design
ISE 5830	3	Decision Analysis
ISE 5870	3	Resilience Engineering

ISE Management Systems & Operations Research Technical Elective Track

ISE 4230 to be added here

Minimum of 6 hours from the following elective options (See Buckeye Degree Planner for full list)

Any ISE technical elective from this track (*listed above*)

Any ISE technical elective from another track

Any Connected Skills elective

Required course (3 hours)

Course Number	Credit Hours	Course Name
ISE 4510	3	Manufacturing Engineering

Choose 6 hours from the following courses.

Course Number	Credit Hours	Course Name
ISE 3500	3	Process Engineering for Machining Operations
ISE 5570	3	Manufacturing Data Processing and Analysis
ISE 5520	1.5	Industrial Automation I
ISE 5525	1.5	Industrial Robotics

Choose 6 hours. Students are encouraged to take all 6 hours from the same group.**Group 1: Manufacturing Processes**

MATSCEN 5451 or ISE 5502 - 3 hours

WELDENG 5027 - 3 hours

ISE 5540 - 3 hours

OR

Group 2: Manufacturing Connected Skills (see Buckeye Degree Planner for full list)

Any ISE technical elective from another track

Any Connected Skills elective**ISE Manufacturing Technical Elective Track****ISE 4230 to be added here**

ISE Human Systems Integration Elective Track

Choose three courses (9 hours)

Course Number	Credit Hours	Course Name
ISE 5110	3	Design of Engineering Experiments
ISE 5610	3	Ergonomics in the Product Design Process
ISE 5620	3	Risk Assessment Tools for Occupational Musculoskeletal Disorders
ISE 5640	3	Occupational Safety: Analysis and Design of Work Environments
MECHENG 5682.01	3	Fundamentals of Product Design Engineering
ISE 5710	3	Behind Human Error: Safety and Complex Systems
ISE 5740	3	Cognitive Engineering Systems: Human-Centered Automation
ISE 5745	3	Human-Centered Machine Learning
ISE 5760	3	Visual Analytics and Sensemaking
ISE 5820	3	Systems Thinking in Engineering and Design
ISE 5870	3	Resilience Engineering

Minimum of 6 hours from the following elective options (See Buckeye Degree Planner for full list)

Any ISE technical elective from this track ([listed above](#))

Any ISE technical elective from another track



ISE 4230 to be added here

Any [Connected Skills elective](#)