

INDUSTRIAL SYSTEMS AND ENGINEERING ELECTIVES COURSE LIST

Other graduate electives can be allowed with the graduate liaison and advisor's prior approval.

Code	Title	Credit Hours
ISE 4223	Fundamentals of Engineering Economy	3
ISE 4333	Production Systems/Operations	3
ISE 4804	Ergonomics in Systems Design	4
ISE 5103	Intelligent Data Analytics	3
ISE 5113	Advanced Analytics and Metaheuristics	3
ISE 5123	Software Tools-Dec Support	3
ISE 5133	Energy Analytics	3
ISE 5293	Cost Engineering	3
ISE 5373	Intro to Additive Manufacturing	3
ISE 5383	Systems Evaluation	3
ISE 5503	Healthcare Analytics	3
ISE 5543	Decision Analysis	3
ISE 5553	Data-Driven Decision Making I	3
ISE 5563	Quality & Reliability Engineering	3
ISE 5613	Multicriteria Optimization	3
ISE 5633	Supply Chain Mgt & Transport	3
ISE 5643	Engineering Optimization	3
ISE 5663	Systems Analysis Using Simulation	3
ISE 5693	Simulation Modeling and Analysis	3
ISE 5763	Project Management Methods	3
ISE 5773	Systems Requirements and Architecting	3
ISE 5813	Advanced Human Factors and Ergonomics	3
ISE 5823	Exercise Physiology	3
ISE 5970	Seminar-Industrial Engineering	1-3
ISE 5853	Data-Driven Decision Making II	3
DSA 4413	Algorithm Analysis	3
DSA 4513	Database Management Systems	3
DSA 5001	Data Analytics and Media	1
DSA 5005	Computing Structures	5
DSA 5011	Introduction to R	1
DSA 5013	Fundamentals of Engineering Statistical Analysis	3
DSA 5021	Data Analytics Applied to Meteorology Data	1
DSA 5031	Econometrics for DSA	1
DSA 5041	Advanced R	1
DSA 5051	Data Visualization	1
DSA 5061	Python for Data Science and Analytics	1
DSA 5103	Intelligent Data Analytics	3
DSA 5113	Advanced Analytics and Metaheuristics	3
DSA 5133	Energy Analytics	3
DSA 5203	Time Series Analysis	3
DSA 5303	Financial Engineering Analytics	3
DSA 5403	Bayesian Statistics	3
DSA 5703	Machine Learning Practice	3