

**TENTATIVE**

Autumn 2018 - Spring 2019 Elective Offerings

**TENTATIVE****Management Systems & Operations Research**

Course	Title	Credit Hours	Autumn 2018	Spring 2019
ISE 5110	Design of Engineering Experiments	3		X
ISE 5220	Complementarity Theory & Applications	3		X
ISE 5230	Decomposition Techniques in Mathematical Programming	3	X	
ISE 5350	Probabilistic Models and Methods in Operations Research	3		X
ISE 5410	Quantitative Models in Production & Distribution Logistics	3	X	
ISE 5800	Advanced Project Management	3	X	X
ISE 5810	Lean Sigma Foundations	4	X	X

**Manufacturing**

Course	Title	Credit Hours	Autumn 2018	Spring 2019
ISE 3500	Process Engineering for Machining Operations	3	X	X
ISE 5520	Industrial Automation	1.5	X (session 1)	X (session 1)
ISE 5525	Industrial Robotics	1.5	X (session 2)	X (session 2)
ISE 5540	Polymer Processing Fundamentals	3		X
ISE 5555	Manufacturing Processes and Machine Tools	3		X
ISE 5682.01	Fundamentals of Product Design Engineering	3	X	X

**Human Systems Integration & Design**

Course	Title	Credit Hours	Autumn 2018	Spring 2019
ISE 5110	Design of Engineering Experiments	3		X
ISE 5610	Ergonomics in the Product Design Process	3	X	
ISE 5620	Risk Assessment Tools for Occupational Musculoskeletal Disorders	3		X
ISE 5640	Occupational Safety: Analysis and Design of Work Environments	3	X	
ISE 5682.01	Fundamentals of Product Design Engineering	3	X	X
ISE 5760	Visual Analytics and Sensemaking	3		X

**Supply Chain Management & Logistics**

Course	Title	Credit Hours	Autumn 2018	Spring 2019
ISE 5110	Design of Engineering Experiments	3		X
ISE 5350	Probabilistic Models and Methods in Operations Research	3		X
ISE 5410	Quantitative Models in Production & Distribution Logistics	3	X	
ISE 5682.01	Fundamentals of Product Design Engineering	3	X	X
ISE 5760	Visual Analytics and Sensemaking	3		X
ISE 5800	Advanced Project Management	3	X	X
ISE 5810	Lean Sigma Foundations	4	X	X