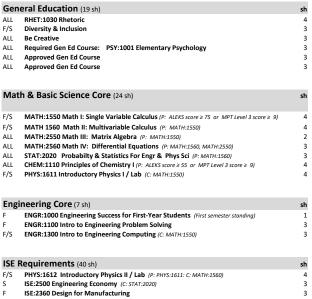
## INDUSTRIAL ENGINEERING

Department of Industrial and Systems Engineering



S	ISE:2500 Engineering Economy (C: STAT:2020)	3
F	ISE:2360 Design for Manufacturing	3
S	ISE:3300 Manufacturing Systems (P: ISE:2360 & ISE:3700)	3
F	ISE:3350 Process Engineering (P: ISE:3700)	3
F	ISE:3400 Human Factors (P: PSY:1001)	3
S	ISE:3450 Ergonomics	3
S	ISE:3500 Information Systems Design (P: ENGR:1300)	3
F	ISE:3600 Quality Control (P: STAT:2020, or BAIS:9100 or (STAT:3100 & STAT:3101 & STAT:3200)	3
F	ISE:3610 Stochastic Modeling (P: STAT:2020; C: ISE:3700)	3
S	ISE:3660 Data Analytics with R (P: STAT:2020)	3
F	ISE:3700 Operations Research (P: MATH:2550; C: STAT:2020)	3
S	ISE:3750 Digital Systems Simulation (P: ISE:3700 & ISE:3610)	3
	apstone Design Courses (4 sh)	- 1-
		sh
F/S	ISE:4600 Indusrial Engineering Design Project (IEDP) (C: ALL IE Required Courses - ISE:2360, ISE:3200, ISE:33300, ISE:3350, ISE:3400, ISE:3450, ISE:3500, ISE:3600, ISE:3660, & ISE:3750)	4

ISE:2000 Sophomore Seminar: Industrial Engineering (Status: Sophomore)

ISE:3000 Professional Seminar: Industrial Engineering (Status: Junior)

IE Departmental Seminars (0 sh)

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	neering Fundamentals Electives (11 sh) at least 11 sh from the list of courses below.	s
ALL	ENGR:2110 Statics (P: MATH:1550; C: MATH:1560, PHYS:1611)	2
ALL	ENGR:2120 Electrical Circuits (P: MATH:2560)	
ALL	ENGR:2130 Thermodynamics (P: CHEM:1110, PHYS:1611; C:MATH:1560)	3
ALL*	ENGR:2710 Dynamics (P: ENGR:2110 & MATH:1550)	3
ALL*	ENGR:2720 Materials Science (P: CHEM:1110; C:MATH:1550)	3
F/S	ENGR:2730 Computers in Engineering (P: ENGR:1300)	3
ALL*	ENGR:2750 Mechanics of Deformable Bodies (P: ENGR:2110; C: MATH:2560)	3
S	ENGR:3110 Intro to AI & Machine Learning in Engr (P: ENGR:1300; C: MATH2550)	
F	BME:2710 Engineering Drawing, Design, and Solid Modeling	
S	CBE:2040 Environment, Energy, and Climate Change	
F/S	ECE:2400 Linear Systems I (P: ENGR:2120 & MATH:2560)	
F/S	ECE:2410 Principles of Electronic Instrumentation (P: ENGR:2120 & PHYS:1612 & MATH:2560)	
Electiv	es (refer to individual Focus Area requirements)	
ALL	Elective: Focus Area - Systems	
ALL	Required/Elective: Focus Area - Math / Science	3
ALL	Required/Elective: Focus Area, Minor, Certificate, etc.	3
ALL	Required/Elective: Focus Area, Minor, Certificate, etc.	3
ALL	Required/Elective: Focus Area, Minor, Certificate, etc.	3
ALL	Required/Elective: Focus Area, Minor, Certificate, etc.	
ALL	Required/Elective: Focus Area, Minor, Certificate, etc.	
	Required/Elective: Focus Area, Minor, Certificate, etc.	

Big Data Analytics Computer and Information Systems . Design and Manufacturing Entrepreneurship Human Factors and Ergonomics Management

Focus Areas:

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Key: \*Check MyUI for course offerings