

Fall 2012 BS in Industrial and Systems Engineering Curriculum

Freshman Year

Semester 1 (Fall) Courses			Cr	Semester 2 (Spring) Courses			Cr
ENGL 100	Ideas and their Expressions I	3	ENGL 101	Ideas and their Expressions II	3		
CHEM 106	Gen. Chemistry VI	3		Social/Behavioral Science Elective ¹	3		
CHEM 116	Gen. Chemistry VI Lab.	1	GEEN 162	Computer Programming in VB for Eng	2		
MATH 131	Calculus I	4	MATH 132	Calculus II	4		
GEEN 100	Engineering Design and Ethics	2	PHYS 241	General Physics I	3		
GEEN 111	College of Engineering Colloquium I	1	PHYS 251	General Physics I Lab.	1		
			INEN 121	ISE Colloquium	1		
Semester Total			14	Semester Total			17

Sophomore Year

Semester 3 (Fall) Courses			Cr	Semester 4 (Spring) Courses			Cr
PSYC 320	General Psychology	3		Humanities/Fine Arts Elective ¹	3		
INEN 102	Graphic Visualization for IE	2	MATH 450	Linear Algebra and Matrix Theory	3		
INEN 246	Industrial Production Proc	3	INEN 380	Information Technology for ISE	3		
MATH 431	Introduction to Differential Equations	3	INEN 255	Methods Engineering	3		
PHYS 242	General Physics II	3	INEN 289	Engineering Teams & Leadership	1		
PHYS 252	General Physics II Lab.	1	MATH 231	Calculus III	4		
Semester Total			15	Semester Total			17

Junior Year

Semester 5 (Fall) Courses			Cr	Semester 6 (Spring) Courses			Cr
	Humanities/Fine Arts Elective ¹	3	INEN 324	Computer Aided Design and Mfg	3		
INEN 430	Deterministic Operations Research	3	INEN 389	Systems Approaches for ISE	1		
INEN 361	Engineering Econ and Cost Analysis	3	INEN 435	Stochastic Operations Research	3		
INEN 370	Engineering Statistics	3	INEN 465	Facilities Design	3		
INEN 471	Ergonomics	2	INEN 472	Cognitive Human Factors	2		
MEEN 313	Statics / Mechanics of Materials	3	ECEN 340	Electrical Circuits	3		
Semester Total			17	Semester Total			15

Senior Year

Semester 7 (Fall) Courses			Cr	Semester 8 (Spring) Courses			Cr
INEN 425	Quality Assurance	3	INEN 460	Decision Support Systems for ISE	3		
INEN 455	Production Control	3	MEEN 260	Material Science	2		
INEN 415	Discrete Event Systems Mod. & Sim.	3	INEN 489	Professionalism and Ethics for ISE	1		
INEN 475	Design of Experiments	3	INEN 495	Design Projects in ISE	3		
INEN 400	General Engineering Topics Review	1		ISE Technical Elective ²	3		
	ISE Technical Elective ²	3		ISE Technical Elective ²	3		
Semester Total			16	Semester Total			15
							Program Total 126

¹ Of the nine (9) total credits of general education electives, at least three (3) credits must come from African-American studies, and at least three (3) from global studies. See your advisor for a list of courses that satisfy these requirements.

² See your academic advisor for a list of eligible courses.