

BS in Industrial and Systems Engineering Curriculum: Fall 2010

Freshman Year

Semester 1 (Fall) Courses			Cr	Semester 2 (Spring) Courses			Cr
UNST 100	University Experience		1	UNST 120	The Contemporary World		3
UNST 110	Critical Writing		3	UNST 130	Analytical Reasoning		3
CHEM 106	Gen. Chemistry VI		3	GEEN 162	Computer Programming in VB for Eng		2
CHEM 116	Gen. Chemistry VI Lab.		1	MATH 132	Calculus II		4
MATH 131	Calculus I		4	PHYS 241	General Physics I		3
GEEN 100	Engineering Design and Ethics		2	PHYS 251	General Physics I Lab.		1
GEEN 110	Colloquium I		0	GEEN 120	Colloquium II		0
Semester Total			14	Semester Total			16

Sophomore Year

Semester 3 (Fall) Courses			Cr	Semester 4 (Spring) Courses			Cr
UNST 140	The African American Experience		3		Cluster Theme Elective		3
INEN 102	Graphic Visualization for IE		2		Cluster Theme Elective		3
INEN 246	Industrial Production Proc		3	INEN 380	Information Technology for IE		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
	Cluster Theme Elective		3		Cluster Theme Elective		3
INEN 430	Deterministic Operations Research		3	INEN 324	Computer Aided Design and Mfg		3
INEN 361	Engineering Econ and Cost Analysis		3	INEN 389	Systems Approaches for IE		1
INEN 370	Engineering Statistics		3	INEN 435	Stochastic Operations Research		3
INEN 471	Ergonomics		2	INEN 465	Facilities Design		3
MEEN 313	Statics / Mechanics of Materials		3	INEN 472	Cognitive Human Factors		2
Semester Total			17	Semester Total			15

Senior Year

Semester 7 (Fall) Courses			Cr	Semester 8 (Spring) Courses			Cr
INEN 425	Quality Assurance		3	MEEN 260	Material Science		2
INEN 455	Production Control		3	INEN 446	Automation and Production Systems		3
INEN 415	Discrete Event Simulation		3	INEN 489	Professionalism and Ethics for IE		1
INEN 475	Design of Experiments		3	INEN 595	Design Projects in Industrial Engineering		3
INEN 500	General Engineering Topics Review		1		IE Technical Elective ¹		3
ECEN 440	Electrical Circuits		3		IE Technical Elective ¹		3
Semester Total			16	Semester Total			15
							Program Total 125

¹ See your academic advisor for a list of eligible courses.