

BS in Industrial Engineering

Study plan for students admitted to U of A beginning Spring 2022 and beyond. Course codes, names, equivalencies, unit amounts and terms are subject to change.

Year One

Term One		Units
KEISER	ENC1101: English Composition I	3
	CHM1045: General Chemistry	3
	CHM1045L: General Chemistry Lab	1
SU	GMAT1313: Calculus I	3
	GENG1301: Introduction to Engineering	3
	GHUM1207: Kewarganegaraan	2
	Exploring Perspectives: Humanist (Select One)	3
Total Units		18

Term Two		Units
KEISER	ENC2102: English Composition II	3
SU	CHM1046: Advanced Chemistry	3
	CHM1046L: Advanced Chemistry	1
	GMAT2603: Calculus & Analytical Geometry II	3
	ENGR1301: Computer Programming for Engineering Applications	3
	GSCI1305: General Physics with Calculus I	3
	GSCI1105L: General Physics with Calculus I Lab	1
	GHUM1208: Indonesian Language (Bahasa Indonesia)	2
	Total Units	19

Year Two

Term Three		Units
U of A	HED 102A: Succeeding as a Global Wildcat	0.5
SU	IENG2301: Introduction to Systems and Industrial Engineering	3
	GMAT2407: Calculus & Analytical Geometry III	4
	GSCI2306: General Physics with Calculus II	3
	GSCI2106L: General Physics with Calculus II Lab	1
	IENG2302: Object-Oriented Modeling & Design	3
	Exploring Perspectives: Social Scientist (Select One)	3
	Building Connections 1 (Select One)	3
Total Units		20.5

Term Four		Units
U of A	HED 102B: Succeeding as a Global Wildcat	0.5
SU	IENG2304: Engineering Economy	3
	IENG2305: Mathematical Foundations of IE	3
	IENG2103: Industrial Engineering Colloquium	1
	ENGR2302: Statics	3
	IENG4319: Human Side of Organizations (Building Connection 2)	3
	Exploring Perspectives: Social Scientist (Select One)	3
	Building Connections 3 (Select One)	3
Total Units		19.5

Year Three

Term Five		Units
U of A	SIE 340: Deterministic Operations Research	3
	SIE 377: Software for Engineers	3
SU	IENG3306: Intro. to Engr. Probability & Statistics	3
	IENG3309: Manufacturing Processes for IE	3
	IENG3109L: Manufacturing Processes for IE Lab	1
	IENG3310: Technical Writing	3
	IENG3330: Fundamentals of Data Science for Engineering	3
Total Units		19

Term Six		Units
U of A	SIE 321: Probabilistic Models in Operations Research	3
	SIE 330R: Engineering Experiment Design	3
	SIE 370: Embedded Computer Systems	4
SU	IENG3312: Integrated Manufacturing Systems	3
	IENG3315: Quality Control & Six Sigma	3
	IENG3313: Production Systems Analysis (SCM I)	3
Total Units		19

Summer		Units
SU	STEM4301: Technical Elective (Internship)	3
Total Units		3

Year Four

Term Seven		Units
U of A	SIE 431: Simulation Modeling and Analysis	3
	SIE 410A: Human Factors & Ergonomics in Design	3
	SIE 457: Project Management	3
SU	STEM4302: Senior Capstone I	3
Total Units		12

Term Eight		Units
U of A	SIE 465: Supply Chain Management	3
	SIE 415: Technical Sales and Marketing	3
SU	STEM4303: Senior Capstone II	3
Total Units		9