

BS in Electrical and Computer 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
	Exploring Perspectives: Social Scientist (Select One)	3
Total Units		16

Term Two		Units
KEISER	ENC2102: English Composition II	3
SU	GMAT2603: Calculus & Analytical Geometry II	3
	GSCI1305L: General Physics with Calculus I	3
	GSCI1105L: General Physics with Calculus I Lab	1
	COMP1401: Comp. Progr. for Eng. Applications	3
	Exploring Perspectives: Humanist (Select One)	3
Total Units		16

Year Two

Term Three		Units
U of A	HED 102A: Succeeding as a Global Wildcat	0.5
SU	COMP2424: Data Structures & Algorithms	4
	COMP2303: Digital Systems	3
	MTED3314: Discrete Mathematics	3
	GMAT2407: Calculus III	4
	GSCI2306: General Physics with Calculus II	3
	GSCI2106L: General Physics with Calculus II Lab	1
Total Units		18.5

Term Four		Units
U of A	HED 102B: Succeeding as a Global Wildcat	0.5
SU	COMP1402: Object Oriented Prog	4
	GSCI2210: Introduction to Optics and Thermodynamics	2
	COMP2304: Compu Org & Arch	3
	GMAT2308: Intro. to Ordinary Differential Equations	3
	Exploring Perspectives: Artist (Select One)	3
	Building Connections 1 (Select One)	3
Total Units		18.5

Year Three

Term Five		Units
U of A	ECE 220: Basic Circuits	5
SU	COMP3423: Mathematics for Engineering Applications	4
	COMP3408: Database Management Systems	4
	ENGR3303: Environmental Ethics	3
	SU Major Elective Course	3
Total Units		19

Term Six		Units
U of A	ECE 320A: Circuit Theory	3
	ECE 372A: Microprocessor Organization (with Lab)	4
SU	COMP3309: Computer Networks	3
	GHUM1207: Kewarganegaraan	2
	GHUM1208: Bahasa Indonesia	2
	Building Connections 2 (Select One)	3
	Building Connections 3 (Select One)	3
Total Units		20

Summer		Units
SU	STEM4301: Internship	3
Total Units		3

Year Four

Term Seven		Units
U of A	ECE 351C: Electronic Circuits	4
	ECE 340A: Intro. To Communications	3
	ECE 462: Technical Elective: Computer Architecture & Design	3
SU	COMP3311: Software Engineering	3
	STEM4302: Senior Capstone I	3
Total Units		16

Term Eight		Units
U of A	ECE 466: Technical Elective: Knowledge System Engineering	3
	ECE 471: Technical Elective: Fundamentals of Information and Network Security	3
	ECE 474A: Technical Elective: Computer Aided Logic Design	3
SU	COMP3315: Artificial Intelligence	3
	STEM4303: Senior Capstone II	3
Total Units		15