



Ateneo de Zamboanga University
COLLEGE OF SCIENCE, INFORMATION TECHNOLOGY, AND ENGINEERING
BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING (BSECE)

FIRST YEAR

First Semester

FG	Course No.	Course Title	Units
	ENG.111	Pre-Calculus Mathematics	4
	ENG.112	Calculus 1: Differential Calculus	3
	ENG.101	Physics 1: Physics for Engineers	6
	ENG.102	Chemistry for Engineers	6
	MATMOD	Mathematics in the Modern World	3
	FFP1	Freshman Formation Program 1	3
	NSTP1	National Service Training Program 1	3
	PATHFIT 1	Movement Enhancement	2
		Total	30

Second Semester

FG	Course No.	Course Title	Units
	ENG.121	Calculus 2: Integral Calculus	3
	ENG.122	Physics 2	6
	PHIHIS	Readings in Philippine History	3
	SPIECO	Spirituality & Ecology in the Christian, Ignatian & Islamic Traditions	3
	UNDSELF	Understanding the Self	3
	FFP2	Freshman Formation Program 2	3
	NSTP2	National Service Training Program 2	3
	PATHFIT2	Fitness Exercise	2
		Total	26

SUMMER

FG	Course No.	Course Title	Units
	ENG.131	Computer-Aided Design	2
	ENG.032	Engineering Data Analysis	3
	ENG.132	Engineering Management	3
		Total	8

SECOND YEAR

First Semester

FG	Course No.	Course Title	Units
	ECE.211	Fundamentals of Computer Programming	6
	ECE.212	Circuits 1	6
	ENG.211	Differential Equations	3
	RIZAL	Life and Works of Rizal	3
	SCITECS	Science, Technology & Society	3
	ARTAPP	Art Appreciation	3
	ACAD WRI	Academic Writing	3
	PATHFIT3	Dance/Sports/Rec & Games I	2
		Total	29

Second Semester

FG	Course No.	Course Title	Units
	ECE.221	Advanced Engineering Math for ECE	6
	ECE.222	Circuits 2	6
	ECE.223	Electronics 1:Electronic Devices & Circuits	6
	GE ELECT-DA	Data Analytics	3
	PHIHUM	Philosophy of the Human Person Social & Political Dimensions	3
	PURCOM	Purposive Communication	3
	VOCMIS	Vocation and Mission in the Christian, Ignatian and Islamic Traditions	3
	PATHFIT4	Dance/Sports/Rec & Games II	2
		Total	32

SUMMER

FG	Course No.	Course Title	Units
	ENG.031	Engineering Economics	3
	ENG.231	Occupational, Health & Safety Engineering	3
	ENG.233	Materials Science and Engineering	3
		Total	9

THIRD YEAR

First Semester

FG	Course No.	Course Title	Units
	ECE.311	Electronic2:Electronics Circuit Analysis & Design	6
	ECE.312	Digital Electronics 1:Logic Circuit and Switching Theory	6
	ECE.313	Electromagnetics 1(Vector Analysis)	4
	ECE.314	Signals, Spectra & Signal Processing	6
	ECE.315	Communications 1: Principles of Communications Systems	6
	ENG.311	Technopreneurship	3
	ETHICS	Ethics	3
		Total	33

Second Semester

FG	Course No.	Course Title	Units
	ECE.321	Electronics 3: Electronic Systems and Design	6
	ECE.322	Digital Electronics 2: Microprocessor & Microcontroller Systems	6
	ECE.323	Communications 2: Modulation and Coding Technique	6
	ENG.321	Feedback & Control Systems	6
	ENG.322	Methods of Research	3
	GE ELECT-LM	Literatures of Mindanao	3
	CONWOR	Contemporary World	3
		Total	33

SUMMER

FG	Course No.	Course Title	Units
	ECECog1	Cognate Course 1 - Mobile Application Programming	3
		Total	3

FOURTH YEAR

First Semester

FG	Course No.	Course Title	Units
	ECE.411	ECE, Design & Capstone Project 1	3
	ECE.412	Communications 3:Transmission Media and Antenna Systems	6
	ECE.413	Communications 4: Data Communications	6
	ECECog2	Cognate Course 2 - Machine Learning	3
	ECE.415	ECE Integration Course 1	3
	ENG.411	Environmental Science & Engineering	3
		Total	24

Second Semester

FG	Course No.	Course Title	Units
	ECE.421	ECE, Design & Capstone Project 2	3
	ECE.422	ECE Laws, Contracts, Ethics and Standards	3
	ENG.421	Seminars and Colloquium	3
	ENG.422	Field Placement and Report (Immersion and OJT 300 Hours)	3
	ECE.425	ECE Integration Course 2	3
		Total	15