



Republic of the Philippines
MINDANAO UNIVERSITY OF SCIENCE AND TECHNOLOGY
 Lapasan, Cagayan De Oro City

COLLEGE OF ENGINEERING & ARCHITECTURE

B.S. in Computer Engineering
Major in Computer Engineering
BSCoE SY 2008-2009

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T			PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC	CREDIT		
1ST YEAR - 1ST SEMESTER								
MATH13	College Algebra	0.0	3.0	0.0	3.0	3.0		
MATH17a	Plane & Spherical Trigonometry	0.0	3.0	0.0	3.0	3.0		
CHEM10a	General Chemistry 1	3.0	3.0	1.0	3.0	4.0		
ENGL11	Study & Thinking Skills	0.0	3.0	0.0	3.0	3.0		
SS10a	New Constitution	0.0	3.0	0.0	3.0	3.0		
SS20a	Rizal's Life, Works & Writings	0.0	3.0	0.0	3.0	3.0		
DRWG20	Engineering Drawing 1	3.0	0.0	1.0	0.0	1.0		
PD10	Essence of Personality	0.0	1.0	0.0	1.0	1.0		
NSTP10	ROTC/CWTS/LTS 1	0.0	3.0	0.0	3.0	3.0		
		6.0	22.0	2.0	22.0	24.0		
1ST YEAR - 2ND SEMESTER								
MATH14	Advanced Algebra	0.0	2.0	0.0	2.0	2.0	MATH13	
MATH19	Solid Mensuration	0.0	2.0	0.0	2.0	2.0	MATH13, MATH17a	
MATH30	Analytic Geometry	0.0	2.0	0.0	2.0	2.0	MATH13, MATH17a	
MATH61	Discrete Mathematics	0.0	3.0	0.0	3.0	3.0	MATH13	MATH14
ENGL20	Writing Across Disciplines	0.0	3.0	0.0	3.0	3.0	ENGL11	
HUM11b	Logic & Ethics	0.0	3.0	0.0	3.0	3.0		
SS30	General Economics, Taxation & Agrarian Reform	0.0	3.0	0.0	3.0	3.0		
CADD10	Basic CADD	3.0	0.0	1.0	0.0	1.0	DRWG20	
PD20	Social Graces & Social Relations	0.0	1.0	0.0	1.0	1.0	PD10	
NSTP20	ROTC/CWTS/LTS 2	0.0	3.0	0.0	3.0	3.0	NSTP10	
ENGL54	Culture, Arts & Literature	0.0	3.0	0.0	3.0	3.0		
		3.0	25.0	1.0	25.0	26.0		
2ND YEAR - 1ST SEMESTER								
COE10	C Programming	3.0	2.0	1.0	2.0	3.0	MATH13, MATH17a	
COE12	Computer Hardware Fundamentals	3.0	0.0	1.0	0.0	1.0		
MATH32	Differential Calculus	0.0	5.0	0.0	5.0	5.0	MATH14, MATH19, MATH30	
PHYS10a	General Physics 1	3.0	3.0	1.0	3.0	4.0	MATH13, MATH17a	
ENGL30	Speech & Oral Communication	0.0	3.0	0.0	3.0	3.0		
ENGL40	Technical Writing & Reporting	0.0	3.0	0.0	3.0	3.0	ENGL20	
PSYC20	Applied Psychology	0.0	3.0	0.0	3.0	3.0		
		9.0	19.0	3.0	19.0	22.0		
2ND YEAR - 2ND SEMESTER								
COE11	Object Oriented Programming	3.0	2.0	1.0	2.0	3.0	COE10	
COE20	Data Structure & Algorithm Analysis	3.0	2.0	1.0	2.0	3.0	COE10	
COE25	Introduction to Computer Engineering	3.0	2.0	1.0	2.0	3.0	COE10, COE12	
COE26	Engineering Ethics & Computer Laws	0.0	2.0	0.0	2.0	2.0		
MATH34a	Integral Calculus	0.0	5.0	0.0	5.0	5.0	MATH32	
PHYS11a	General Physics 2	3.0	3.0	1.0	3.0	4.0	PHYS10a	
		12.0	16.0	4.0	16.0	20.0		

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<u>3RD YEAR - 1ST SEMESTER</u>								
COE30	Structure of Programming Languages	0.0	3.0	0.0	3.0	3.0	COE20	
ECE20	Electronics 1	3.0	3.0	1.0	3.0	4.0	MATH34a, PHYS11a	EE20
EE20	Circuit Theory 1	3.0	3.0	1.0	3.0	4.0	MATH34a, PHYS11a	ECE20, MATH38
EE30	Electromagnetics	0.0	3.0	0.0	3.0	3.0	MATH34a, PHYS11a	
MATH36	Probability & Statistics	0.0	3.0	0.0	3.0	3.0	MATH13	
MATH38	Differential Equations	0.0	3.0	0.0	3.0	3.0	MATH34a	
ES10b	Statics of Rigid Bodies	0.0	3.0	0.0	3.0	3.0	PHYS10a	MATH34a
		6.0	21.0	2.0	21.0	23.0		
<u>3RD YEAR - 2ND SEMESTER</u>								
COE40	Computer System Organization w/ Assembly Language	3.0	3.0	1.0	3.0	4.0	COE11, COE20	ECE30
ECE21	Electronics 2	3.0	3.0	1.0	3.0	4.0	ECE20, EE20	
ECE30	Logic Circuits & Switching Theory	3.0	3.0	1.0	3.0	4.0	ECE20, EE20	ECE21, EE21
EE21	Circuit Theory 2	3.0	3.0	1.0	3.0	4.0	ECE20, EE20, MATH38	
ES11	Dynamics of Rigid Bodies	0.0	2.0	0.0	2.0	2.0	MATH34a, ES10b	
ES12	Strength of Materials	0.0	3.0	0.0	3.0	3.0	ES10b	
MATH60	Advanced Engineering Mathematics	0.0	3.0	0.0	3.0	3.0	MATH38	
		12.0	20.0	4.0	20.0	24.0		
<u>4TH YEAR - 1ST SEMESTER</u>								
COE43	Digital Signal Processing	3.0	3.0	1.0	3.0	4.0	MATH60	
COE45	Advanced Logic Circuits	3.0	3.0	1.0	3.0	4.0	ECE30	
COE50	Data Communication & Networking 1	3.0	3.0	1.0	3.0	4.0		
EE31	Energy Conversion	3.0	3.0	1.0	3.0	4.0	EE30, EE21	
EE40	Control Systems	0.0	3.0	0.0	3.0	3.0	EE21, MATH60	
ECE40	Principles of Communications	0.0	3.0	0.0	3.0	3.0	ECE21, MATH60	
		12.0	18.0	4.0	18.0	22.0		
<u>4TH YEAR - 2ND SEMESTER</u>								
COE35a	Operating Systems	3.0	3.0	1.0	3.0	4.0	COE30, COE40	
COE47	Computer System Architecture & Interfacing Techniques	3.0	3.0	1.0	3.0	4.0	COE40, ECE30, COE45	
COE51	Data Communication & Networking 2	3.0	3.0	1.0	3.0	4.0	COE50	
COE64	Microprocessor Systems	3.0	3.0	1.0	3.0	4.0	COE40, ECE30	
ME25	Thermodynamics 1	0.0	3.0	0.0	3.0	3.0	PHYS10a, MATH34a	
ES50	Safety Management	0.0	1.0	0.0	1.0	1.0		
TE10	Technical Elective 1	0.0	3.0	0.0	3.0	3.0		
		12.0	19.0	4.0	19.0	23.0		
<u>4TH YEAR - SUMMER</u>								
OJT10	On the Job Training	240.0	0.0	0.0	4.0	4.0		
		240.0	0.0	0.0	4.0	4.0		
<u>5TH YEAR - 1ST SEMESTER</u>								
COE52	Data Communication & Networking 3	3.0	3.0	1.0	3.0	4.0	COE51	
COE65	Microcomputer-Based I/O & Memory System	3.0	3.0	1.0	3.0	4.0	COE64	
COE70	Project Management (Systems Analysis & Design)	0.0	3.0	0.0	3.0	3.0	COE20	
COE75	Design Project 1 (Methods of Research)	6.0	1.0	2.0	1.0	3.0	ENGL40, COE64	COE65
COE80	Seminars & Field Trips	3.0	0.0	1.0	0.0	1.0		
ES40	Engineering Economy	0.0	3.0	0.0	3.0	3.0		
TE20	Technical Elective 2	0.0	3.0	0.0	3.0	3.0		
MATH41	Numerical Methods & Analysis	0.0	2.0	0.0	2.0	2.0	COE10, MATH60	
		15.0	18.0	5.0	18.0	23.0		

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5TH YEAR - 2ND SEMESTER								
COE53	Data Communication & Networking 4	3.0	3.0	1.0	3.0	4.0	COE52	
COE82	Technopreneurship	0.0	2.0	0.0	2.0	2.0		
COE83	Test & Quality Assurance	0.0	2.0	0.0	2.0	2.0		
COE71	Software Engineering	0.0	3.0	0.0	3.0	3.0	COE70	
COE76	Design Project 2 (Implementation)	6.0	1.0	2.0	1.0	3.0	COE75	
ES20	Engineering Materials	0.0	3.0	0.0	3.0	3.0	CHEM10a	
ES30	Environmental Engineering	0.0	2.0	0.0	2.0	2.0	CHEM10a	
ES70	Engineering Management	0.0	3.0	0.0	3.0	3.0		
		9.0	19.0	3.0	19.0	22.0		