



Ateneo de Davao University
School of Arts and Sciences
Bachelor Science in Computer Engineering
Revised Curriculum 2007

First Year

First Semester

Course Code	Course Title	Units
Math 111E	College Algebra	5
Math 112E	Plane and Spherical Trigonometry	3
ES 113	Engineering Drawing 1 (Manual)	2
Eng 11	Basic Communication Skills	3
Fil 1	Komunikasyon sa Akademikong Filipino	3
Hum 1	Introduction to Arts Appreciation	3
Socio 111	Society and Culture with Family Planning	3
FYCF 1	First Year Christian Formation	1
PE 1	Physical Education	2
	Total Number of Units	25

Second Semester

Course Code	Course Title	Units
Math 121E	Analytic Calculus	3
Math 211E	Differential Calculus	5
Chem 12	Principles of Chemistry Lec	3
Chem 12L	Principles of Chemistry Lab	2
ES 123	Engineering Drawing 2 (CAD)	2
Fili 2	Pagbasa at Pagsulat Tungo sa Pananaliksik	3
Engl 13	Grammar and Composition	3
FYCF 2	First Year Christian Formation	1
PE 2	Physical Education	2
	Total Number of Units	24

Second Year

First Semester

Course Code	Course Title	Units
ES 211	Computer Fundamentals and Programming Lec	3
ES 212	Computer Fundamentals and Programming Lab	1
Math 221E	Integral Calculus	5
Phys 211	University Physics I Lec	3
Phys 212	University Physics I Lab	2
Theo 111	Jesus Christ and Salvation History	3
Hist 111	Philippine History	3
Lit 1	Literatures of the Philippines	3
PE 3	Physical Education	2
NSTP – CWTS 1	National Service Training Program Civil Welfare Training Service	3
	Total Number of Units	28

Second Semester

Course Code	Course Title	Units
ES 221	Advanced Computer Programming Lec	3
ES 222	Advanced Computer Programming Lab	1
Math 31E	Differential Equations	3
Phys 221	University Physics II Lec	3
Phys 222	University Physics II Lab	2
ES 312	Engineering Mechanics	5
Eng 21	Speech Arts	3
Psych 111	General Psychology	3
PE 4	Physical Education	2
NSTP – CWTS 2	National Service Training Program Civil Welfare Training Service	3
	Total Number of Units	28



Third Year

First Semester

Course Code	Course Title	Units
CoE 310	Database Management System	3
EE 310	Circuits I Lec	3
EE 312	Circuits I Lab	1
EE 312	Electromagnetics	3
ECE 311	Engineering Materials	3
Math 320E	Advanced Engineering Math	3
Math 321E	Probability and Statistics	3
ES 322	Strength of Materials	3
Theo 121	Church and Sacraments	3
Eng 23	Writing Across the Disciplines	3
	Total Number of Units	28

Second Semester

Course Code	Course Title	Units
CoE 320	Data Structures and Algorithm Lec	3
CoE 321	Data Structures and Algorithm Lab	1
EE 320	Circuits II Lec	3
EE 321	Circuits II Lab	1
ECE 321	Electronics I Lec	3
ECE 321	Electronics I Lab	1
ME 310	Thermodynamics	3
Math 322E	Numerical Methods	3
ES 323	Research Methods	3
PS 211	Philippine Constitution and Government	3
Philo 103	Introduction to Philosophy with Logic and Critical Thinking	3
	Total Number of Units	27



Fourth Year

First Semester

Course Code	Course Title	Units
CoE 410	Computer Org./Assembly Language Lec	3
CoE 411	Computer Org./Assembly Language Lab	1
CoE 412	Logic Circuits and Switching Theory Lec	3
CoE 413	Logic Circuits and Switching Theory Lab	1
CoE 414	Structures of Programming Language	3
ECE 410	Electronics II Lec	3
ECE 411	Electronics II Lab	1
EE 410	Energy Conversion Lec	3
EE 411	Energy Conversion Lab	1
Theo 131	Christian Morality and Spirituality	3
ES 420	Engineering Economy and Accounting	3
Philo 104	Philosophy of Human Person	3
Total Number of Units		28

Second Semester

Course Code	Course Title	Units
CoE 100	Elective I	3
CoE 420	Computer Systems Architecture Lec	3
CoE 421	Computer Systems Architecture Lab	1
CoE 422	Advanced Logic Circuit Analysis and Design Lec	3
CoE 423	Advanced Logic Circuit Analysis and Design Lec	1
CoE 425	Principles of Communications	3
ECE 514	Control Systems/Robotics Lec	3
ECE 515	Control Systems/Robotics Lab	1
Econ 111	Introduction to Economics with Agrarian Reform and Taxation	3
Hist 50	Life and Works of Rizal	3
Philo 106	Philosophy of Religion	3
Total Number of Units		27

Summer

Course Code	Course Title	Units
CoE 509	Practicum/Industry Practice	2
Total Number of Units		2



Fifth Year

First Semester

Course Code	Course Title	Units
CoE 200	Elective II	3
CoE 510	Microprocessor Systems Lec	3
CoE 511	Microprocessor Systems Lab	1
CoE 512	Operating Systems Lec	3
CoE 513	Operating Systems Lab	1
CoE 514	Project Study I (Thesis based)	1
ECE 524	Date Communications	3
ES 511	Engineering Management	3
Philo 107	Moral Philosophy	3
Theo 141	Christian Commitment and Solidarity	3
Total Number of Units		28

Second Semester

Course Code	Course Title	Units
CoE 300	Elective III	3
CoE 520	Software Engineering	3
CoE 521	I/O and Memory Systems Lec	3
CoE 522	I/O and Memory Systems Lab	1
CoE 523	Seminars and Field Trip	1
CoE 524	Project Study II (Thesis Based)	2
ES 510	Safety Engineering	3
ES 512	Introduction to Environmental Engineering	3
Total Number of Units		22

Electives:

Very Large Scale Integration; Digital Controllers; Programmable Logic Controllers; Power Electronics; Solid State Physics and Fabrication Electropneumatics; Medical and Biomedical Electronics.

