



**ATENEO DE DAVAO UNIVERSITY**  
**SCHOOL OF ARTS AND SCIENCES**  
**Bachelor of Science in Chemical 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
Chem 11	General Chemistry I Lec	3
Chem 111L	General Chemistry I Lab	2
ES 113	Engineering Drawing I (Manual)	2
Eng 11	Basic Communication Skills	3
Fil 1	Komunikasyon sa Akademikong Filipino	3
Hum 1	Introduction to Arts Appreciation	3
FYCF I	First Year Christian Formation	1
PE I	Physical Education	2
<b>Total Number of Units</b>		<b>27</b>

Second Semester

Course Code	Course Title	Units
Math 121E	Analytic Geometry	3
Math 211E	Differential Calculus	5
Chem 112	General Chemistry II Lec	3
Chem 112L	General Chemistry II Lab	2
ES 123	Engineering Drawing 2 (CAD)	2
Eng 13	Grammar and Composition	3
Fil 2	Pagbasa at Pagsulat tungo sa Pananaliksik	3
Socio 111	Society and Culture w/ Family Planning	3
FYCF 2	First Year Christian Formation	1
PE 2	Physical Education	2
<b>Total Number of Units</b>		<b>27</b>

## Second Year

### First Semester

Course Code	Course Title	Units
Chem 221	Analytical Chemistry I Lec	3
Chem 221L	Analytical Chemistry I Lab	1
Math 221 E	Integral Calculus	5
Phys 211	University Physics I Lec	3
Phys 212	University Physics I Lab	2
Eng 21	Speech Arts	3
PS 211	Philippine Constitution and Government	3
NSTP-CWTS I	NSTP-CWTS 1	3
PE 3	Physical Education	2
<b>Total Number of Units</b>		<b>25</b>

### Second Semester

Course Code	Course Title	Units
Chem 222	Analytical Chemistry II Lec	3
Chem 222L	Analytical Chemistry II Lab	1
Math 311E	Differential Equations	3
Phys 221	University Physics II L.ec	3
Phys 222	University Physics II Lab	2
ES 211	Computer Fundamentals and Programming Lec	3
ES 212	Computer Fundamentals and Programming Lec	1
Lit I	Literatures of the Philippines	3
Theo 111	Jesus Christ and Salvation History	3
PE 4	Physical Education	2
NSTP-CWTS 2	NSTP-CWTS II	3
<b>Total Number of Units</b>		<b>27</b>



## Third Year

### First Semester

Course Code	Course Title	Units
Chem 312	Chemical Calculations I	3
Chem 331	Organic Chemistry Lec	4
Chem 331L	Organic Chemistry Lab	1
Math 320E	Advanced Engineering Math	3
Math 321E	Probability and Statistics	3
EE 312	Engineering Mechanics	5
EE 310	Circuits I Lec	3
EE 311	Circuits I Lab	1
Eng 23	Writing Across the Disciplines	3
<b>Total Number of Units</b>		<b>26</b>

### Second Semester

Course Code	Course Title	Units
Chem 320	Physical Principles I Lec	3
Chem 221	Physical Principles I Lab	1
Chem 323	Chemical Calculations II	4
Chem 323	Unit Operations I	4
ES 323	Research Methods	3
ES 322	Strength of Materials	3
Theo 121	Church and Sacraments	3
Hist 111	Philippine History	3
<b>Total Number of Units</b>		<b>24</b>



## Fourth Year

### First Semester

Course Code	Course Title	Units
Chem 410	Physical Principles II Lec	3
Chem 411	Physical Principles II Lab	1
Chem 412	Unit Operations II	4
Chem 413	Chemical Thermodynamics I	3
Chem 414	Chemical Process Ind.	3
Psych 111	General Psychology	3
Philo 103	Intro Philosophy with Logic and Critical Thinking	3
Econ 111	Introduction to Economics with Agrarian Reform and Taxation	3
<b>Total Number of Units</b>		<b>23</b>

### Second Semester

Course Code	Course Title	Units
Chem 100	Elective I	3
Chem 420	Material Science	3
Chem 422	Unit Operations III	3
Chem 423	Chemical Thermodynamics II	3
ES 420	Engineering Economy and Accounting	3
Hist 50	Life and Works of Rizal	3
Philo 104	Philosophy of Human Person	3
Theo 131	Christian Morality and Spirituality	3
<b>Total Number of Units</b>		<b>24</b>

### Summer

Course Code	Course Title	Units
Chem 509	Practicum/Industry Practice	2
<b>Total Number of Units</b>		<b>2</b>



## Fifth Year

### First Semester

Course Code	Course Title	Units
Chem 200	Elective II	3
Chem 511	Instrumentation and Proc. Control	3
Chem 512	Che Laboratory I	1
Chem 513	Che Kinetics	3
Chem 514	Plant Design/Equipment Design I	2
Chem 515	Computer Application in Chemical Engineering	2
Chem 516	Engineering Laws, Contracts and Ethics	2
ES 511	Engineering Management	3
Philo 106	Philosophy of Religion	3
<b>Total Number of Units</b>		<b>22</b>

### Second Semester

Course Code	Course Title	Units
Chem 300	Elective III	3
Chem 522	Che Laboratory II	1
Chem 523	Biochemical Engineering	3
Chem 524	Plant Design/Equipment Design II	3
ES 512	Introduction to Environmental Engineering	3
Theo 141	Christian Commitment and Solidarity	3
Philo 107	Moral Philosophy	3
<b>Total Number of Units</b>		<b>19</b>

