

# Surigao Del Sur State University

Tandag City, Surigao del Sur

## COLLEGE OF COLLEGE OF ENGINEERING, COMPUTER STUDIES AND TECHNOLOGY

### BACHELOR OF SCIENCE IN CIVIL ENGINEERING

2008-2009

#### 1ST YEAR - FIRST SEMESTER

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
Eng 1	Communication Arts 1	3.0	3.0			
Fil 1	Sining ng Pakikipagtalastasan	3.0	3.0			
Hist 1	Phil. History, Roots and Development	3.0	3.0			
Math 17	College Algebra	5.0	5.0			
Math 3	Trigonometry	3.0	3.0			
NSTP 1	CWTS / ROTC 1	3.0	3.0			
NSTP 1	CWTS / ROTC 1	3.0	3.0			
PE 1	Self-Testing Activities	2.0	2.0			
Psycho 1	General Psychology	3.0	3.0			
<b>28.00 Units</b>						

#### 1ST YEAR - SECOND SEMESTER

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
Chem 16	General Chemistry 1	5.0	3.0	2.0	Math 17 Math 3	
Eng 2	Communication Arts 2	3.0	3.0		Eng 1	
Math 51	Calculus with Analytic Geometry 1	6.0	6.0		Math 17 Math 3	
NatSci 2	Basic Biology	3.0	3.0			
NSTP 2	CWTS / ROTC 2	3.0	3.0		NSTP 1	
NSTP 2	CWTS / ROTC 2	3.0	3.0		NSTP 1	
PE 2	Rythmic Activities	2.0	2.0		PE 1	
Phys 21	General Physics 1	4.0	3.0	1.0	Math 17 Math 3	
<b>29.00 Units</b>						

#### 2ND YEAR - FIRST SEMESTER

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
Econ 101	Principles of Economics with Taxation and Agrarian Reforms	3.0	3.0			
Eng 3	Speech and Oral Communication	3.0	2.0	1.0	Eng 2	
ES 1	Engineering Drawing 1	2.0	1.0	1.0		
Human 1	Humanities	3.0	3.0			
Math 61	Calculus with Analytic Geometry II	6.0	6.0		Math 51	
PE 3	Fundamentals of Games and Sports	2.0	2.0		PE 2	
Phys 31	General Physics 2	4.0	3.0	1.0	Phys 21	
PolSci 1	Politics & Governance w/ Philippine Constitution	3.0	3.0			
<b>26.00 Units</b>						

#### 2ND YEAR - SECOND SEMESTER

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
ES 2	Computer Aided Drawing and Design I	3.0	2.0	1.0	ES 1	
ES 40	Fundamentals of Problem Solving & Programming	3.0	2.0	1.0	Math 17 Math 3	
Fil 2	Pagbasa at Pagsulat sa Ibat Ibang Disiplina	3.0	3.0		Fil 1	
Lit 1	Literature of the Philippines	3.0	3.0			
Math 71	Calculus with Analytic Geometry III	6.0	6.0		Math 61	
PE 4	Creative and Recreational Activities	2.0	2.0		PE 3	
Philo 1	Logic	3.0	3.0			
Phys 41	General Physics 3	4.0	3.0	1.0	Phys 31	
<b>27.00 Units</b>						

#### 3RD YEAR - FIRST SEMESTER

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
ES 51	Differential Equations	3.0	3.0		Math 71	
ES 61	Statics of Rigid Bodies	3.0	3.0		Math 71 Phys 21	
ES 71	Probability and Statistics	3.0	3.0		Math 17	
ES 89	Safety Management	1.0	1.0			
GE 41	Elementary and Higher Surveying	4.0	3.0	1.0	Math 17 Math 3	
Geol 40	Engineering Geology	3.0	3.0			
ME 151	Basic Mechanical Engineering	3.0	3.0		Phys 41	
Rizal	Life Works of Jose rizal	3.0	3.0			
<b>23.00 Units</b>						

#### 3RD YEAR - SECOND SEMESTER

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
CE 100	Intro to Environmental Engineering	2.0	2.0		Geol 40	
EE 123	Elementary Electrical Engineering & Instrumentation	3.0	3.0		Phys 31	
Eng 4	Technical Writing	3.0	3.0		Eng 2	
ES 55	Numerical Methods	3.0	3.0		ES 51 ES 40	
ES 62	Dynamics of Rigid Bodies	3.0	3.0		ES 61	
ES 64	Mechanics of Deformable Bodies	3.0	3.0		ES 61	
GE 42	Engineering Surveys	4.0	3.0	1.0	GE 41	
<b>21.00 Units</b>						

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**4TH YEAR - FIRST SEMESTER**

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
CE 101	Hydrology	3.0	3.0		Geol 40	
CE 111	Building Design 1	2.0	1.0	1.0	ES 1	
CE 120	Highway Engineering	3.0	3.0		GE 42	
CE 140	Construction Materials and Testing	4.0	3.0	1.0	ES 64	
CE 141	Structural Theory 1	4.0	4.0		ES 64	
ES 65	Fluid Mechanics	4.0	3.0	1.0	ES 62	
ES 90	Engineering Economy	3.0	3.0			

**23.00 Units**

**4TH YEAR - SECOND SEMESTER**

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
CE 102	Water Resource Engineering 1	4.0	1.0	3.0	ES 65 CE 101	
CE 112	Building Design II	2.0	1.0	1.0	CE 111	
CE 121	Transportation Engineering	3.0	3.0		CE 120	
CE 142	Structural Theory II	3.0	3.0		CE 141	
CE 144	Design of Concrete Structures 1	4.0	4.0		CE 141	
CE 150	Geotechnical Engineering 1	4.0	3.0	1.0	Geol 40 ES 65	
ES 56	Advanced Engineering Mathematics for CE	3.0	3.0		ES 51	

**23.00 Units**

**4TH YEAR - SUMMER**

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
CE 197	CE Work Experience	3.0				

**3.00 Units**

**5TH YEAR - FIRST SEMESTER**

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
CE 145	Design of Concrete Structures II	3.0	3.0		CE 144	
CE 147	Design of Metal and Timber Structures	4.0	4.0		CE 142	
CE 151	Geotechnical Engineering II	4.0	3.0	1.0	CE 150	
CE 181	CE Elective I	3.0	3.0		CE 120	
CE 198	Construction Engineering & Project Management	4.0	4.0			
CE 199	Civil Engineering Project	3.0	3.0			

**21.00 Units**

**5TH YEAR - SECOND SEMESTER**

Subject Name	Subject Description	Credit Units	Lec. Units	Lab. Units	Pre- Requisites	Grade
CE 103	Water Resources Engineering II	3.0	3.0		CE 102	
CE 182	CE Elective II	3.0	3.0			
CE 183	CE Elective III	3.0	3.0		CE 121	
CE 184	CE Elective IV	3.0	3.0			
CE 195	CE Laws, Ethics, Bids, Contracts, & Specs	3.0	3.0			
ES 91	Engineering Management	3.0	3.0		ES 90	

**18.00 Units**