

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING**

FIRST YEAR						
FIRST SEMESTER						
CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
BIO	100	Fundamentals of Biological Sciences	2	1	3	NONE
ENGL	100	Study and Thinking Skills	3	0	3	NONE
FILI	100	Komunikasyon sa Akademikong Filipino	3	0	3	NONE
HUMAN	100	Introduction to the Humanities	3	0	3	NONE
MATH	100	College Algebra	3	0	3	NONE
POLSCI	100	Philippine Government and Constitution	3	0	3	NONE
SOCSCI	100	Society and Culture with Family Planning	3	0	3	NONE
PE	100	Foundation of Physical Fitness	2	0	2	NONE
NSTP	1	National Service Training Program I	(3)	0	(3)	NONE
			TOTAL:		23	
SECOND SEMESTER						
CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CHEM	100	General Chemistry	2	1	3	NONE
COMSCI	100	Computer Fundamentals	2	1	3	MATH 100
ENGL	105	Speech Communication	3	0	3	ENGL 100
FILI	105	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	0	3	FILI 100
HIST	100	Philippine History	3	0	3	NONE
MATH	105	Plane Trigonometry	3	0	3	MATH 100
PI	100	Rizal's Life, Works and Writings	3	0	3	NONE
PE	105	Rhythmic Activities	2	0	2	PE 100
NSTP	2	National Service Training Program II	(3)	0	(3)	NSTP 1
			TOTAL:			

**SECOND YEAR**

**FIRST SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CHEM	200	Organic Chemistry I	2	1	3	CHEM 100
ENGL	110	Writing in the Discipline	3	0	3	ENGL 105
MATH	205	Spherical Trigonometry and Solid Geometry	3	0	3	MATH 105
MATH	216	Analytic Geometry	3	0	3	MATH 105
PHYS	105	Mechanics and Sound	2	1	3	MATH 105
PSYCH	100	General Psychology	3	0	3	NONE
ENGR	210	Fundamentals of Engineering Drawing	0	2	2	NONE
PE	110	Individual and Dual Sports	2	0	2	PE 100
			TOTAL:			

**SECOND SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
ECON	100	Principles of Economics w/ Land Reform & Taxation	3	0	3	NONE
PHILO	120	Philosophy of the Human Person	3	0	3	NONE
MATH	221	Differential Calculus	4	0	4	MATH 216
PHYS	110	Heat and Electricity	2	1	3	PHYS 105
CENGR	220	Elementary Surveying	2	2	4	MATH 105
ENGR	220	Applied Engineering Drawing	0	2	2	ENGR 210
PE	115	Team Sports	2	0	2	PE 100
			TOTAL:		21	

**THIRD YEAR**

**FIRST SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
ENGL	125	Technical Writing	3	0	3	ENGL 110
MATH	226	Integral Calculus	4	0	4	MATH 221
CENGR	310	Higher Surveying	2	2	4	CENGR 220
ENGR	310	Mechanics of Rigid Bodies	5	0	5	PHYS 105, MATH 211
ENGR	311	Carpentry, Plumbing and Masonry Works	0	1	1	3rd Year Standing
EENGR	310	Electrical Circuits and Wiring Design	2	1	3	PHYS 110
			TOTAL:		20	

**SECOND SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
MATH	230	Differential Equations	3	0	3	MATH 226
STAT	200	Introduction to Statistics	2	1	3	MAH 100
CENGR	320	Road Curves and Earthworks	2	1	3	CENGR 310
CENGR	321	Engineering Geology	3	0	3	CHEM 200
ENGR	321	Strength of Materials	3	0	3	ENGR 310
ENGR	322	Engineering Economics	3	0	3	ECON 100
MENGR	320	Thermodynamics	2	1	3	PHYS 110, MATH 226
			TOTAL:		21	

**FOURTH YEAR**

**FIRST SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CENGR	410	Hydraulics Engineering I	2	1	3	ENGR 321
CENGR	411	Soil Mechanics	3	1	4	ENGR 321
CENGR	412	Structural Theory I	2	1	3	ENGR 321
CENGR	413	Fundamentals of Computer-aided Design & Drafting	1	2	3	COMSCI 100, ENGR 220
ENGR	410	Advanced Engineering Mathematics	3	0	3	MATH 230
ENGR	411	Engineering Management	3	0	3	ENGR 322
TOTAL:					19	

**SECOND SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CENGR	420	Construction Materials and Testing	2	1	3	ENGR 311
CENGR	421	Planning and Estimating	3	0	3	CENGR 413
CENGR	422	Environmental Science	3	0	3	CENGR 410
CENGR	423	Hydraulics Engineering II	3	1	4	CENGR 410
CENGR	424	Structural Theory II	2	1	3	CENGR 412
CENGR	425	Highway Engineering	3	0	3	CENGR 320, ENGR 322
CENGR	426*	Urban Planning & Land Development* or	3*	0		4th Year Standing, CENGR 320
CENGR	427*	Transportation Engineering* or	3*	0	3	CENGR 320
CENGR	428*	Geographic Information Systems*	2*	0	1*	CENGR 310 & CENGR 411
TOTAL:					22	

**SUMMER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CENGR	430	Civil Engineering Apprenticeship	OJT	OJT	3	PASSED ALL SUBJECTS
TOTAL:						

**FIFTH YEAR**

**FIRST SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CENGR	511	Hydrology	3	0	3	CENGR 423
CENGR	512	Reinforced Concrete Design	3	2	5	CENGR 421, CENGR 424
CENGR	513	Timber Design	2	1	3	CENGR 421, CENGR 424
CENGR	514	Water Resources Planning	3	0	3	CENGR 423
CENGR	515	Computer Applications for Civil Engineers	1	2	3	CENGR 413
CENGR	516	CE Laws, Contracts, Specifications and Ethics	3	0	3	CENGR 421
CENGR	517	Safety Engineering	2	0	2	CENGR 430
			TOTAL:		22	

**SECOND SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CENGR	520	Steel Design	2	2	4	CENGR 421, CENGR 424
CENGR	521	Construction Project Management	2	1	3	CENGR 421, CENGR 515
CENGR	522	Special Problem	1	2	3	CENGR 512, CENGR 513
CENGR	523	Pre-stressed Concrete	3	0	3	CENGR 512
CENGR	524	Geotechnical Engineering	3	0	3	CENGR 411, CENGR 512
CENGR	525*	Water Engineering* or	3*	0		CENGR 423
CENGR	526*	Hydraulic System Design*	3*	0	3	CENGR 511 & CENGR 514
			TOTAL:		19	

\*Elective Subject (select one subject only within the semester)

**TOTAL NUMBER OF UNITS – 215**