



BACHELOR OF SCIENCE IN GEODETIC ENGINEERING

Per CMO No. 89, series of 2017

Effective School Year 2018-2019

FIRST YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 131	Engineering Calculus I	3		3	
ENS 131	Engineering Orientation (GDE)	2		2	
GDE 131	Elementary Surveying	3	3	4	
GE 1	Understanding the Self	3		3	
GE 2	Readings in Philippine History	3		3	
GE 3	The Contemporary World	3		3	
PE 1	Physical Fitness and Health	2		2	
NSTP 1	National Service Training Program 1	3		3	
TOTAL		22	3	23	
*ENM 011	Algebra 1	2		2	
*ENM 012	Plane & Spherical Trigonometry	2		2	

* Enhancement courses for NON-STEM Senior High Graduates

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 141	Engineering Calculus 2	3		3	ENM 131
EPS 141	Physics for Engineers	3	3	4	ENM 131
ENS 142	Computer Fund. & Programming	2	3	3	
GDE 141	Higher Surveying	2	6	4	GDE 131
GE 4	Mathematics in the Modern World	3		3	
PE 2	Recreational Games and Sports	2		2	
NSTP 2	National Service Training Program 2	3		3	
TOTAL		18	12	22	
*ENM 021	Algebra 2	2		2	
*ENM 022	Analytic Geometry w/ Solid Mensuration	2		2	

SECOND YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 231	Differential Equations	3		3	ENM 141
ENS 231	Statics of Rigid Bodies	3		3	EPS 141
ENS 232	Computer-Aided Design	1	3	2	ENS 142
ENS 234	Electrical & Electronics Engineering for GDE	3		3	ENM 141
GDE 231	Geometric Geodesy	3		3	GDE 141, ENM 131
GDE 232	Engineering Surveys	2	6	4	GDE 141
GDE 233	Introduction to the Laws on Private & Public Lands	2		2	GDE 141
GE 5	Purposive Communication	3		3	
FIL 1	Akademiko sa Wikang Filipino	3		3	
PE 3	Rhythmic and Social Recreation	2		2	
TOTAL		25	9	28	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 241	Engineering Data Analysis	3		3	ENM 231
ENS 241	Dynamics of Rigid Bodies	3		3	ENS 231
GDE 241	Cartography	1	6	3	ENS 232, GDE 231
GDE 242	Physical Geodesy	3		3	GDE 231
GDE 243	Property Surveys	3	6	5	GDE 141
GDE 244	Public Land Laws & Laws of Natural Resources	3		3	GDE 233
FIL 2	Pagbasa at Pagsulat sa Iba't Ibang Disiplina	3		3	
PE 4	Cultural Presentation & Sports Management	2		2	
TOTAL		21	12	25	

Summer

Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
GDE 300	Survey Camp 120 hours		3	1	GDE 223, GDE 224

THIRD YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 233	Environmental Science & Engineering	3		3	EPS 141
ENS 331	Engineering Economics	3		3	ENM 241
GDE 331	Remote Sensing	2	6	4	EPS 141
GDE 332	Satellite Geodesy	3		3	GDE 242
GDE 333	Theory of Errors and Adjustments	2	3	3	ENM 231
GDE 334	Land Registration Laws	3		3	GDE 233
GE 6	Art Appreciation	3		3	
TOTAL		19	9	22	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 244	Principles of Geology	3		3	ENS 233
GDE 341	Geographic Information Systems	1	6	3	GDE 241, GDE 331
GDE 342	Geodetic Computations & Adjustments	2	6	4	GDE 333
GDE 343	GDE Laws, Obligations, Contracts & Ethics	2		2	GDE 233
GDE 344	Geodetic Surveying	2	6	4	GDE 332
GE 7	Science, Technology & Society	3		3	
GE 8	Ethics	3		3	
TOTAL		16	18	22	

Summer

Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
GDE 400	On-the-Job Training 300 hours	3	300	5	Completed all 3rd year Major Subjects

FOURTH YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 431	Advanced Information & Comm. Tech.	3		3	ENS 131
GDE 431	Hydrographic Surveying	2	3	3	GDE 344
GDE 432	Land Use Planning and Development	2	3	3	GDE 341
GDE 433	Methods of Research for GDE	1		1	GDE 400
GDE 434	Photogrammetry	2	6	4	GDE 342
GDE 435	Mine Surveying (GDE Elective)	2	3	3	GDE 232, ENS 244
LIT 2	World Literature	3		3	
TOTAL		15	15	20	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 243	Technopreneurship	3		3	4th yr standing
ENS 343	Engineering Management	3		3	4th yr standing
ENS 441	Safety Management	3		3	4th yr standing
GDE 441	Special Studies in GDE	1	6	3	GDE 433
GDE 442	Land Administration and Management	3		3	GDE 244, GDE 334
GDE 500	NORSU Eng'g Competency Assessment	3		3	4th yr standing
GE 9	Life & Works of Rizal	3		3	
TOTAL		19	6	21	

Summary:

NON TECHNICAL	50
General Education:	24
GE Elective/Mandated:	12
Physical Education:	8
NSTP:	6
TECHNICAL	139
Eng'g Math & Physical Sciences:	16
Engineering Sciences:	25
Allied Courses:	12
Professional Courses:	86
Total	189
With Enhancement	8
Total	197