

BSGE Bachelor of Science in Geodetic Engineering
Implemented First Semester SY 2018-2019
Per Board Resolution Number 64 s. 2018
[Per CMO No. 89 Series of 2017](#)



Republic of the Philippines
EASTERN VISAYAS STATE UNIVERSITY
COLLEGE OF ENGINEERING
Tacloban City
Curriculum Checklist

BACHELOR OF SCIENCE in GEODETIC ENGINEERING
A.Y. 2021-2022

Vision:
A Leading State University in Technological and Professional Education.

Mission :
Develop a Strong Technologically and Professionally Competent Productive Human Resource Imbued with Positive Values Needed to Propel Sustainable Development.

FIRST YEAR First Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	MATH 113	College Algebra	3	0	3	None
	MATH 133	Plane and Spherical Trigonometry	3	0	3	None
	MATH 153	Analytic Geometry	3	0	3	None
	MATH 112	Solid Mensuration	2	0	2	None
	GEN ED 004	Mathematics in the Modern World	3	0	3	None
	CAD 112	Computer-Aided Drafting*	1	3	2	None
	PE 112	PATFIT 1 – (Movement Competency Trainings)	2	0	2	None
	NSTP 113	CWTS, LTS. MTS (Naval and Air Force)	3	0	3	None
TOTAL			20	3	21	

*Computer Course with computer fee. ** Course with laboratory fee

FIRST YEAR Second Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	MATH 124	Calculus 1 (Differential)	4	0	4	MATH (113,133,153, 112)
	EDA 123	Engineering Data Analysis	3	0	3	MATH 113
	GE 123	General Surveying 1**	2	3	3	MATH (113,133,153, 112)
	GE 122	Introduction to the Laws on Private and Public Lands	2	0	2	None
	COMP 123	Computer Fundamentals and Programming*	1	6	3	MATH 113
	GEN ED 001	Purposive Communication	3	0	3	None
	MGT 121	Safety Management Course	1	0	1	None
	PE 122	PATHFIT – II (Fitness Training)	2	0	2	None
	NSTP 123	CWTS, LTS. MTS (Naval and Air Force)	3	0	3	None
TOTAL			21	9	24	

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FIRST YEAR Middle Term

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	MATH 104	Calculus 2 (Integral)	3	0	3	MATH 124
	PHYS 104	Physics for Engineers**	3	3	4	MATH 104
TOTAL			6	3	7	

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SECOND YEAR First Semester

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	MATH 213	Differential Equations	3	0	3	MATH 104
	GE 214	General Surveying 2**	2	6	4	GE 123
	GE 234	Engineering Surveys**	2	6	4	GE 214
	GE 213	Cartography*	1	6	3	CAD 122
	GE 233	Geometric Geodesy	3	0	3	GE 214
	GE 253	Theory of Errors and Adjustments	3	0	3	MATH 213
	MECH 213	Engineering Mechanics	3	0	3	MATH 104
	PE 212	PATHFIT III (Dance Sports, Group Exercise, Outdoor and Adventures Activities – 1)	2	0	2	
TOTAL			17	18	25	

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SECOND YEAR**Second Semester**

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	GE 224	Geodetic Computations and Adjustments**	2	6	4	GE 253
	GE 244	Geodetic Surveying**	2	6	4	GE 233, GE 222
	GE 223	Hydro graphic Surveying**	2	3	3	GE 214
	GE 243	Satellite Geodesy	3	0	3	GE 233, GE 222
	GE 263	Public Land Laws and Laws on Natural Resources	3	0	3	GE 122
	GE 222	Physical Geodesy	2	0	2	GE 233
	GE 242	Geodetic Engineering Laws, Obligations, and Contracts, Ethics	2	0	2	GE 122
	GEO 313	Principles of Geology	3	0	3	None
	PE 222	PATH FIT IV (Dance Sports, Group Exercise, Outdoor and Adventures Activities – 2)	2	0	2	None
TOTAL			21	15	26	

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SECOND YEAR**Middle Year**

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	GE 201	Survey Camp**	0	3	1	2 ND YEAR LEVEL***
TOTAL			0	3	1	

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THIRD YEAR**First Semester**

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	GE 315	Property Surveys**	3	6	5	GE 214
	GE 314	Photogrammetry*	2	6	4	GE 213, GE 224
	GE 313	Land Registration Laws	3	0	3	GE 122, GE 263,
	GE 333	Geographic Information Systems*	1	6	3	GE 213
	GE 353	Electrical and Electronics Engineering for Geodetic Engineers	3	0	3	PHYS 104
	GEN ED 006	Ethics	3	0	3	None
	ICT 313	Advanced Information & Communications Technology	3	0	3	None
TOTAL			18	18	24	

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THIRD YEAR**Second Semester**

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	GE 324	Remote Sensing *	2	6	4	GE 333, PHYS 104
	GE 323	Land Use Planning and Development **	2	3	3	GE 333
	GE 343	Land Administration and Management	3	0	3	None
	ENV 303	Environmental Science and Engineering	3	0	3	None
	GEN ED 008	Science, Technology and Society	3	0	3	None
	MGT 323	Engineering Management	3	0	3	None
TOTAL			16	9	19	

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THIRD YEAR**Middle Term**

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	GE 302	Geodetic Engineering Immersion/OJT (240 hours)*	0	6	2	4 th YEAR LEVEL****
TOTAL			0	6	2	

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FOURTH YEAR**First Semester**

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	GE 413	Geodetic Engineering Elective (DRRM)	3	0	3	GE 333
	GE 411	Methods of Research	1	0	1	EDA 123
	GE 431	Special Topic 1 (Spatial Geodetic Practice)**	0	3	1	
	TECH 413	Technopreneurship	3	0	3	None
	GEN ED 003	Readings in Philippine History	3	0	3	None
	GEN ED 002	Understanding the self	3	0	3	None
	GEN EL 002	Environmental Science for GE	3	0	3	None
	MGT 413	Engineering Economics	3	0	3	MATH 113
TOTAL			19	3	20	

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FOURTH YEAR**Second Semester**

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	GE 423	Special Studies in Geodetic Engineering **	1	6	3	GE 411
	GE 421	Special Topics 2 (Advancement in Geomatics)	0	6	2	4th Year
	GEN EL 001	Living in IT Era for GE	3	0	3	None
	GEN EL 003	Entrepreneurial Mind for GE	3	0	3	None
	RIZAL 423	Life and Works of Rizal	3	0	3	None
	GEN ED 007	The Contemporary World	3	0	3	None
	GEN ED 005	Art Appreciation	3	0	3	None
TOTAL			16	12	20	

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SUMMARY OF BSGE PROGRAM CURRICULUM COMPONENTS

CLASSIFICATION / FIELDS	MINIMUM NUMBER OF UNITS PER CMO 89 s. 2017	EVSU BSGE CURRICULUM
I Technical Course		
A. Mathematical and Physical Sciences	16	17
B. Basic Engineering Science	18	18
C. Allied Course	12	12
D. Professional Course	79	79
SUB TOTAL	125	126
II Non-Technical Course		
A. Required General Education Course	24	24
B. General Education Electives	9	9
C. Mandated Course	3	3
D. Physical Education	8	8
E. National Service Training Program	6	6
SUB TOTAL	50	50
III Additional Course		
A. Mathematics Course		11
B. Special Topics		3
SUB TOTAL		14
TOTAL NUMBER OF UNITS	175	190

List of Electives, Special Topics, and Mathematic Courses

Professional Courses- Electives	Special Topics	General Education Elective	Mathematic Courses
Disaster Risk Reduction and Management	Advancement in Geomatics	Living in IT ERA for GE	College Algebra
3D GIS	Spatial Geodetic Practice	Entrepreneurial Mind for GE	Plane and Spherical Trigonometry
Geovisualization		Environmental Science for GE	Analytic Geometry
Location Based Service			Solid Mensuration
Land Valuation			
Hydrology			
Geo-Spatial Information System			
Building Information Modelling			
Unmanned Aerial System			
Spatial Data Base			