



**UNIVERSITY OF  
Baguio**  
SCHOOL OF ENGINEERING AND ARCHITECTURE  
General Luna Road, Baguio City, Philippines

**CURRICULUM FOR THE BS SANITARY ENGINEERING**  
Effective School Year 2012-2013

CODE	DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITES
<b>FIRST YEAR</b>					
<b>First Semester</b>					
	<b>Course</b>	<b>Descriptive Title</b>			
	ENGMAT1	College Algebra	3		3
	ENGMAT2	Plane and Spherical Trigonometry	3		3
	ENGLIS1	Communication Skills 1	3		3
	ENGCHM1	General Inorganic Chemistry 1	3		3
	ENGCHL1	General Inorganic Chemistry 1 Laboratory		1	1 w/ ENGCHM1
	DRAWNG1	Engineering Drawing 1		2	2
	KOMFIL1	Sining ng Pakikipagtalastasan	3		3
	PESELF1	Self-Testing Activities	2		2
	SOCORN2	Social Orientation	1		1
	NSTPRO1	National Service Training Program 1	3		3
	<b>TOTAL</b>		<b>21</b>	<b>3</b>	<b>24 (30HRS)</b>
<b>Second Semester</b>					
	ENGMAT2	Advanced Algebra	3		3 ENGMAT1
	ENGMAT3	Analytic Geometry	4		4 ENGMAT1,ENGMAT2
	ENGMAT4	Solid Mensuration	2		2 ENGMAT1,ENGMAT2
	ENGLIS2	Communication Skills 2	3		3 ENGLIS1
	ENGPHS1	Engineering Physics 1	3		3 w/ ENGMAT3
	ENGPL1	Engineering Physics 1 Laboratory		1	1 W/ ENGPHS1
	FILPPP2	Pagbasa at Pagsulat Tungo sa Pananaliksik	3		3 KOMFIL1
	PHILOS1	Logic	3		3
	PELECT2	PE Elective 2	2		2
	NSTPRO2	National Service Training Program 2	3		3
	<b>TOTAL</b>		<b>26</b>	<b>1</b>	<b>27 (29HRS)</b>
<b>SECOND YEAR</b>					
<b>First Semester</b>					
	ENGMAT5	Differential Calculus	5		5 ENGMAT2,ENGMAT3,ENGMAT4
	ENGPHS2	Engineering Physics 2	3		3 ENGPHS1,ENGPL1
	ENGPL2	Engineering Physics 2 Laboratory		1	1 W/ ENGPHS2
	ENGCHM2	General and Inorganic Chemistry 2	3		3 ENGCHM1, ENGCHL1
	SOCIOG1	Society and Culture w/ Family Panning	3		3
	PSYCHO1	General Psychology	3		3
	COMFUN1	Computer Fundamentals		1	1 w/ ENGMAT5
	COMFUN2	Advance Computer Programming		1	1 w/ COMFUN1
	HISTORY1	Phil. History, Government and Constitution	3		3
	PELECT3	PE Elective 3	2		2
	<b>TOTAL</b>		<b>22</b>	<b>3</b>	<b>25 (31HRS)</b>
<b>Second Semester</b>					
	ENGMAT6	Integral Calculus	5		5 ENGMAT5
	ORGCHM1	Organic Chemistry	3		3 ENGCHM2
	PHILOS2	Values Education and Ethics	3		3
	ECONOM1	Basic Economics with TAR	3		3
	ENGLIS4	Public Speaking	3		3 ENGLIS2
	LITRAT1	Philippine Literature in English	3		3
	BLDDES1	Building Design 1	1		1 DRAWNG1, ENGMAT2,SURVNG1
	BLDDEL1	Building Design 1-LAB		1	1 w/ BLDDES1
	SURVNG1	Surveying 1 (Elem. & Higher Surveying)	3		3 ENGMAT4, DRAWNG1
	SURFLD1	Surveying 1-LAB		1	1 w/ SURVNG1
	PELECT4	PE Elective 4	2		2
	<b>TOTAL</b>		<b>26</b>	<b>2</b>	<b>28 (32HRS)</b>

Note:

1. All Education subjects for 1st & 2nd year level should be completed prior to enrolling in the 3rd year level.
2. Students have to pass the College Retention Requirements prior to enrolling 3rd year student
3. All students are required to finish NSTP1 and NSTP2 prior to 3rd year level.
4. General Education subjects maybe revised subject to institutional requirements.

THIRD YEAR

First semester

ENGMAT7	Differential Equations	3		3	ENGMAT6
MECHAS1	Engineering Mechanics/ Statics of Rigid Bodies	3		3	ENGMAT6, ENGPHS1
THERMO1	Basic Thermodynamics	3		3	ENGMAT6,ENGPHS2
SURVNG2	Surveying 2 (Engineering Surveys)	3		3	SURVNG1, SURFLD1
SURFLD2	Surveying 2-LAB		1	1	w/ SURVNG2
ELECIR1	Electrical Circuits	3		3	ENGPHS2, ENGMAT6
ENVIRO1	Environmental Engineering	3		3	ENGCHM2, ENGPHS2
MICRBP1	Microbiology & Parsitology	3		3	ORGCHM1
MICRBP1L	Microbiology & Parsitology-Lab		1	1	w/ MICRBP1
RIZALU1	Life, Works and Writings of Rizal	3		3	
<b>TOTAL</b>		<b>24</b>	<b>2</b>	<b>26</b>	<b>(30HRS)</b>

Second Semester

ENGMAT9	Probability and Statistics	3		3	ENGMAT7
FLUIDS1	Fluid Mechanics	3		3	W/ MECHAN2 & MECHAD1
FLUIDL1	Fluid Mechanics - L		1	1	W/ FLUIDS
MECHAD1	Engg Mechanics 2-Dynamics of Rigid Bodies	2		2	MECHAS1
MECHAN2	Strength of Materials	5		5	W/ MECHAD
SAFETY1	Safety Engineering	1		1	ORGCHM1, 3RD YR. STANDING
SEGEO1	Engineering Geology	1		1	ENGPHS1, SURBNG2
SANCHE1	Sanitary Chemistry	2		2	ORGCHM1
SANCL1	Sanitary Chemistry -Lab		1	1	W/ SANCHE1
TCHWRS1	Technical Writing w/ Introduction to Research	3		3	ENGLIS2
CECADD1	Computer Aided Drafting & Design		1	1	COMFUN1, DRAWNG1,ENGMAT4
<b>TOTAL</b>		<b>20</b>	<b>3</b>	<b>23</b>	<b>(29HRS)</b>

FOURTH YEAR

First Semester

CEMATH1	Advance Engineering Math for CE	3		3	w/ THEORY1
ENGECO1	Engineering Economy	3		3	ENGMAT9
THEORY1	Theory of Structures 1	3		3	MECHAN2
THEOTYL1	Theory of Structures 1-L		1	1	W/ THEORY1
HYDRAU1	Hydraulics	3		3	FLUIDS1, FLUIDL1
HYDRAUL1	Hydraulics - L		1	1	W/ HYDRAU1
MATEST1	Engineering Materials and Testing	3		3	MECHAN2
MATESL1	Engineering Materials and Testing - L		1	1	W/ MATEST1
GEOTCH1	Soil and Rock Mechanics	3		3	MECHAN2, SEGEO1
GEOTCL1	Soil and Rock Mechanics - L		1	1	W/ GEOREC1
PHEENG1	Public Health Engineering	3		3	MICRBP1, SANCHE1
<b>TOTAL</b>		<b>21</b>	<b>4</b>	<b>25</b>	<b>(33HRS)</b>

Second Semester

HYDRAU2	Hydrology	3		3	HYDRAU1, HYDRAL1
CEMGMT1	Engineering Management	3		3	4th year standing
ECOEIA1	Ecology & Environment Impact Assessment	3		3	PHEENG1, SANCHE1
PRFENG1	Professional English	3		3	ENGLIS4
SELAWS1	Environmental Laws, Contracts and Ethics	3		3	PHEENG1, SANCHE1, ENVPOL1
OCCUHE11	Occupational Health	2		2	MICRBP1, PHEENG1
HYDRAU3	Water Supply Engineering	3		3	HYDRAU1, HYDRAL1
ENVPOL1	Environmental Pollution (AIR and SOIL)	3		3	PHEENG1, SANCHE1
CELAWS1	CE Laws, Contracts, Specifications & Ethics	3		3	W/ CEMGMT1
RESMTH1	Methods of Research		1	1	TCHWRS1
<b>TOTAL</b>		<b>26</b>	<b>1</b>	<b>27</b>	<b>(29HRS)</b>

Summer

SEOJT1	Sanitary Engineering OJT/Practicum	0	240	1	5th yr standing
<b>TOTAL</b>		<b>0</b>	<b>240</b>	<b>1</b>	

FIFTH YEAR

First Semester

CONMGMT1	Constructin Management1	2		2	ENGECO1, CEMGMT1
CONMGML1	Constructin Management1 -L		1	1	W/ CONMGMT1
SOLMAN1	Solid Waste Management	2		2	PHEENG1, SANCHE1
ESTLAW1	Engineering Estimates and Bldg. Laws	3		3	W/ CONMAN1
SEWENG1	Sewerage and Drainage Engineering	3		3	Fifth Year Standing
ESELAB	Environmental and Sanitary Engineering Lab		1	1	SOLMAN1, ENVPOL1
SANSCI1	Sanitary Science Applied to Buildings	3		3	W/ SEWENG1
RBAESE1	Risk & Benefit Analysis in Environmental & Sanitary Engineering	3		3	W/ CONMAN1
ESEPROJ	ESE Project Study	1		1	RESMTH1
ESEPROL	ESE Project Study -L		2	2	W/ ESEPROJ
<b>TOTAL</b>		<b>17</b>	<b>4</b>	<b>21</b>	<b>(29HRS)</b>

Second Semester

ADVWPP1	Advanced Water Purification Process Design	3		3	
ADVWAS1	Advanced Wastewater Treatment	2		2	
INDWAS1	Industrial Wastewater Treatment	2		2	
SETECH1	Planning and Design in Environmental & Sanitary Engineering	1		1	
SETECL1	Planning and Design in Environmental & Sanitary Engg-LAB		2	2	
WATRES1	Water Resource Planning	3		3	
ESECC1	Correlation Course (ESE Review)		1	1	
<b>TOTAL</b>		<b>11</b>	<b>3</b>	<b>14</b>	<b>(20HRS)</b>

Total Units 214 26 241  
 CY 2004-2005:244 units  
 CMO No:35 S. 2009: 218 UNITS