



**CHECKLIST - BACHELOR OF SCIENCE IN AGRICULTURAL AND BIOSYSTEMS ENGINEERING**  
(BOR Res. No. 42-2018; Effective SY 2018-2019)

**FIRST YEAR**

	First Semester	Units	Grade	Prerequisite
ABEN	1110 Introduction to AB Engineering	1	2.00	NONE
MATH	1103 Mathematics in the Modern World	3	2.25	NONE
FILKOM	1100 Kontekstwalisadong Komunikasyon sa Filipino	3	1.50	NONE
CHEM	1103 Chemistry for Engineers, Lec.	3	1.75	NONE
CHEM	1104 Chemistry for Engineers, Lab.	1	1.75	NONE
PHYS	1107 Physics for Engineers	5	2.50	NONE
PE	1100 Foundation of Physical Fitness	2	1.25	NONE
NSTP	1100 National Service Training Program I	3	1.50	NONE
		<b>18</b>		

**TOTAL:**

	Second Semester	Units	Grade	Prerequisite
PSYCH	1100 Understanding the Self	3	1.25	NONE
ENGR	1210 Computer Aided Drafting	1	1.75	NONE
MATH	1110 Calculus I	3	3.00	MATH 1100
CENGR	1221 Surveying	3	2.25	MATH 1100
CRSCI	1100 Principles of Crop Science	3	2.25	NONE
SOILS	1100 Principles of Soil Science	3	2.75	NONE
PE	1105 Rhythmic Activities	2	1.50	PE 1100
NSTP	1200 National Service Training Program II	3	1.75	NSTP 1100
		<b>18</b>		

**SECOND YEAR**

	First Semester	Units	Grade	Prerequisite
SOCSCI	1110 Ethics	3	1.75	NONE
MATH	2111 Calculus II	3	(5) 2.00	MATH 1110
MENGR	2320 Thermodynamics and Heat Transfer	5	2.00	PHYS 1107; MATH 1110
ENGR	2312 Engineering Mechanics 1	3	(5) 2.00	PHYS 1107; MATH 1110
ANSCI	1100 Principles of Animal Science	3	2.25	NONE
PE	2110 Individual and Dual Sports	2	1.00	PE 1100
		<b>19</b>		

	Second Semester	Units	Grade	Prerequisite
SOCSCI	1100 Readings in Philippine History	3	1.50	NONE
ENSCI	1100 Science, Technology and Society	3	1.50	NONE
MATH	2230 Differential Equations I	3	1.75	MATH 2111
ENGR	2323 Fluid Mechanics	3	1.75	ENGR 2312
ENGR	2320 Materials and Processes for ABE	3	2.00	CHEM 1103; CHEM 1104; ENGR 1210; ENGR 2312
ENGR	2313 Engineering Mechanics 2	3	2.00	ENGR 2312
ABEN	2427 ABE and Related Laws, Specs, Contracts & Prof. Ethics	1	1.50	SOCSCI 1110; ABEN 1110
PE	2115 Team Sports	2	1.25	PE 1100
		<b>21</b>		

	Summer	Units	Grade	Prerequisite
COMM	1100 Purposive Communication	3	1.25	NONE
PHIL	1100 The Life and Works of Rizal	3	1.25	NONE
		<b>6</b>		

Name: LOMIBAO, DARWIN A.

Total No. of Units: 171

Prepared by:

*A Saturno*  
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Record-in-charge

### THIRD YEAR

First Semester		Units	Grade	Prerequisite
FILDIS	1110 Filipino sa Iba't Ibang Disiplina	3	1.50	NONE
ENGR	3321 Strength of Materials	3	2.00	ENGR 2313
ENGR	3322 Engineering Economy	3	1.50	3rd Year Standing
ABEN	3413 Engineering Data Analysis	3	2.25	MATH 1100
ABEN	3410 Hydrometeorology	3	1.50	ENGR 2323; MATH 2111
ABEN	3411 AB Power Engineering	3	1.50	MENGR 2320; MATH 2111
ABEN	3513 Properties of AB Materials	3	1.75	ENGR 2320; MENGR 2320
		21		

Second Semester		Units	Grade	Prerequisite
ABEN	3426 Computer Applications in AB Engineering	3	2.75	3rd Year Standing
ABEN	3424 AB Structures Engineering	3	2.25	ENGR 3321
ABEN	3412 Irrigation and Drainage Engineering	4	2.00	CENGR 1221; ABEN 3410; MATH 2230; SOILS 1100; CRSCI 1100
ABEN	3423 AB Machinery and Mechanization	4	2.25	ABEN 3411; SOILS 1100; CRSCI 1100
ABEN	3421 AB Products Processing and Storage	3	2.25	ABEN 3513; SOILS 1100; CRSCI 1100
ABEN	3521 AB Electrification and Control Systems	3	1.25	PHYS 1107; MATH 2230
ABEN	3501 Thesis 1	1	1.25	3rd Year Standing
		21		

Summer		Units	Grade	Prerequisite
ABEN	3500 Industry Immersion Program	3	1.25	3rd Year Standing
		3		

### FOURTH YEAR

First Semester		Units	Grade	Prerequisite
ARTS	1100 Art Appreciation	3	1.00	NONE
SOCSCI	1105 The Contemporary World	3	2.00	NONE
ABEN	4514 Aquaculture Engineering	3	2.25	ABEN 3412
ABEN	4511 Machine Design for AB Production	3	2.00	ABEN 3423; ENGR 3321; ABEN 3513
ABEN	4510 Food Process Engineering	4	2.00	ABEN 3421
ABEN	4512 Plant and Livestock Systems and Environmental Control Engineering	4	2.25	ABEN 3424; SOILS 1100; CRSCI 1100; ANSCI 1100
ABEN	4523 Undergraduate Seminar	1	1.25	4th Year Standing
ABEN	4502 Thesis 2	2	1.25	ABEN 3501
		23		

Second Semester		Units	Grade	Prerequisite
ABEN	4520 Technopreneurship 101	3	2.25	ENGR 3322
FILLIT	1120 Sobyedad at Literatura / Literaturang Panlipunan	3	1.00	NONE
ABEN	4422 Land and Water Conservation Engineering	3	2.25	ABEN 3412
ABEN	4420 Renewable Energy for AB Applications	3	1.75	ABEN 3411
ABEN	4513 Design and Management of AB Processing Systems	3	2.75	ABEN 3421
ABEN	4425 AB Waste Management Engineering	3	2.50	ABEN 4512
ABEN	4503 Thesis 3	3	1.00	ABEN 4502
		21		