

DEPARTMENTAL CURRICULUM

Curriculum for B. Sc. Ed. Biology Degree

100 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 101	Introduction to the Teaching Profession	2	C
EDU 103	Foundations of Education	2	C
BIO 101	Basic Biology I	3	C
BIO 107	Experimental Biology I	1	C
CHM 101	General Chemistry I	3	C
CHM 107	Experimental Chemistry I	1	C
PHY 101	General Physics I	3	C
PHY 107	Experimental Physics I	1	C
MTH 101	General Mathematics I	3	C
GNS 101	Use of English I	2	R
GNS 103	Use of Library	1	R
	Total	22	

100 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 104	Educational Psychology	2	C
EDU 110	Introduction to the History and Policy of Education	2	C
BIO 102	Basic Biology II	3	C
BIO 108	Experimental Biology II	1	C
CHM 102	General Chemistry II	3	C
CHM 108	Experimental Chemistry II	1	C
PHY 102	General Physics II	3	C
PHY 108	Experimental Physics II	1	C
MTH 102	General Mathematics II	3	C
GNS 102	Use of English II	2	R
GNS 104	Nigerian Peoples and Culture	2	R
	Total	23	

200 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 201	Principles and General Methods of Teaching (Special Methods I)	2	C
BIO 201	General Ecology	2	C
BIO 207	Introductory Genetics & Cell Biology	2	C
BIO 209	Chordates	2	C
MCB 201	General Microbiology I	3	C
PBO 205	Seedless Plants	2	C
BCH 201	General Biochemistry I	3	C
STA 229	Statistics for Biological and Agricultural Science	3	C
GNS 203	Introduction to Entrepreneurial Skills	2	R
GNS 211	Basic French	2	R
	Total	23	

200 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 202	Subject Methods (Special Method II)	2	C
EDU 216	Educational Technology	2	C
BIO 202	Biological Techniques	2	C
BIO 206	Hydrobiology	2	C
BIO 212	Cell Physiology	2	C
PBO 206	Seed Plants	2	C
ZOO 202	Invertebrate Zoology	3	C
MCB 208	Introduction to Biotechnology	2	C
GNS 204	Logic & Philosophy	2	R
GNS 212	Introduction to Information & Communication Technology	2	R
	TOTAL	21	

300 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 301	Teaching Practices I	3	C
EDU 303	Test, Measurement and Educational Statistics	2	C
EDU 305	Research Methods	3	C
EDU 309	Curriculum and Instruction I	2	C
BIO 301	Genetics II	2	C
BIO 307	Soil Science	2	C
PBO 307	Plant Physiology	3	C
ZOO 301	Parasitology I	3	C
ZOO 307	Principles of Developmental Embryology	3	C
	Total	23	

300 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 306	Special Education	2	C
EDU 308	Educational Administration and Planning	2	C
EDU 310	Curriculum and Instruction II	2	C
BIO 304	Evolution	3	C
BCH 202	General Biochemistry II	3	C
ZOO 302	Comparative Animal Physiology	3	C
ZOO 304	Basic Entomology	3	C
	Total	18	

400 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 403	Seminar in Education	2	C
EDU 405	Science, Technology, Society	2	C
EDU 409	Teaching Practice II	3	C
BIO 417	Population Ecology	2	C
PBO 409	Plant Tissue Culture	2	C
ZOO 411	Animal Ecology	3	C
ZOO 425	Comparative Vertebrate Embryology	2	C
	Total	16	

400 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 414	Research Project In Education	4	C
EDU 416	Guidance and Counseling	2	C
EDU 418	Special Methods III (Post Teaching Practice Evaluation and Remediation)	2	C
BIO 420	Conservation & Development of Natural Resources	2	C
PBO 402	Plant Ecology	3	C
PBO 404	Plant Pathology	3	C
PBO 406	Plant Growth & Reproduction	3	C
	Total	19	

Curriculum for B. Ed. Chemistry Degree

100 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 101	Introduction to the Teaching Profession	2	C
EDU 103	Foundations of Education	2	C
BIO 101	Basic Biology I	3	C
BIO 107	Experimental Biology I	1	C
CHM 101	General Chemistry I	3	C
CHM 107	Experimental Chemistry I	1	C
PHY 101	General Physics I	3	C
PHY 107	Experimental Physics I	1	C
MTH 101	General Mathematics I	3	C
GNS 101	Use of English I	2	R
GNS 103	Use of Library	1	R
	Total	22	

100 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 104	Educational Psychology	2	C
EDU 110	Introduction to the History and Policy of Education	2	C
BIO 102	Basic Biology II	3	C
BIO 108	Experimental Biology II	1	C
CHM 102	General Chemistry II	3	C
CHM 108	Experimental Chemistry II	1	C
PHY 102	General Physics II	3	C
PHY 108	Experimental Physics II	1	C
MTH 102	General Mathematics II	3	C
GNS 102	Use of English II	2	R
GNS 104	Nigeria People and Culture	2	R
	Total	23	

200 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 201	Principles and General Methods of Teaching (Special Methods I)	2	C
CHM 201	Structure and Bonding Chemistry	2	C
CHM 205	Physical Chemistry I	2	C
CHM 207	Inorganic Chemistry I	2	C
CHM 215	Analytical Chemistry	2	C
CHM 291	Experimental Physical/Inorganic Chemistry I	1	C
ICH 205	Industrial Chemical Processes I	2	C
GNS 203	Introduction to Entrepreneurial Skills	2	R
GNS 211	Basic French	2	R
Electives : one of the following			
MTH 203	Linear Algebra I	2	E
MTH 211	Mathematical Methods I	3	E
	Total	19/20	

200 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 202	Subject Methods (Special Method II)	2	C
EDU 216	Educational Technology	2	C
CHM 202	Organic Chemistry I	2	C
CHM 206	Spectroscopy	2	C
CHM 208	Physical Chemistry II	2	C
CHM 292	Experimental Physical/Organic Chemistry	1	C
GNS 204	Logic & Philosophy	2	R
GNS 212	Introduction to Information and Communication Technology	2	R
	Total	15	

300 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 301	Teaching Practices I	3	C
EDU 303	Test, Measurement and Educational Statistics	2	C
EDU 305	Research Methods	3	C
EDU 309	Curriculum and Instruction I	2	C
CHM 301	Inorganic Chemistry II	2	C
CHM 303	Organic Chemistry II	2	C
CHM 305	Atomic and Molecular Structure & Symmetry	2	C
CHM 307	Polymer Chemistry	2	C
CHM 391	Experimental Inorganic/Organic Chemistry II	1	C
	Total	19	

300 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 306	Special Education	2	C
EDU 308	Educational Administration and Planning	2	C
EDU 310	Curriculum and Instruction II	2	C
CHM 402	Nuclear and Radiation Chemistry	2	C
CHM 404	Organic Synthesis	2	C
CHM 410	Environmental Chemistry	2	C
CHM 414	Fats and Oils	2	C
CHM 418	Reaction Kinetics	2	C
	Total	16	

400 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 403	Seminar in Education	2	C
EDU 405	Science, Technology, Society	2	C
EDU 409	Teaching Practice II	3	C
CHM 401	Instrumental Analytical Methods	2	C
CHM 403	Structure and Coordination Chemistry	2	C
CHM 409	Organic Chemistry III	2	C
CHM 411	Electrochemistry	2	C
CHM 413	Quantum Chemistry	2	C
	Total	17	

400 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 414	Research Project in Education	4	C
EDU 416	Guidance and Counseling	2	C
EDU 418	Special Methods III (Post Teaching Practice Evaluation and Remediation)	2	C
CHM 420	Macromolecular Chemistry II	2	C
CHM 426	Chemistry of Lanthanides & Actinides	1	C
CHM 428	Statistical Thermodynamics	2	C
CHM 430	Organometallic Chemistry	2	C
	Total	15	

(c) Curriculum for B. Ed. Mathematics Degree

100 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 101	Introduction to the Teaching Profession	2	C
EDU 103	Foundations of Education	2	C
CHM 101	General Chemistry I	3	C
CHM 107	Experimental Chemistry I	1	C
PHY 101	General Physics I	3	C
PHY 107	Experimental Physics I	1	C
MTH 101	General Mathematics I	3	C
GNS 101	Use of English I	2	R
GNS 103	Use of Library	1	R
	Total	18	

100 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 104	Educational Psychology	2	C
EDU 110	Introduction to the History and Policy of Education	2	C
CHM 102	General Chemistry II	3	C
CHM 108	Experimental Chemistry II	1	C
PHY 102	General Physics II	3	C
PHY 108	Experimental Physics II	1	C
MTH 102	General Mathematics II (Calculus)	3	C
MTH 104	General Mathematics III (Vectors, Geometry & Dynamics)	3	C
STA 112	Probability I	2	C
GNS 102	Use of English II	2	R
GNS 104	Nigeria Peoples and Culture	2	R
	Total	24	

200 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 201	Principle and Practices in Education (Special Methods I)	2	C
MTH 203	Linear Algebra I	2	C
MTH 207	Real Analysis I	3	C
MTH 211	Mathematical Methods I	3	C
MTH 213	Sets, Logic and Algebra	3	C
STA 221	Statistics for Physical Science & Engineering	3	C
GNS 203	Intro. to Entrepreneurial Skills	2	R
GNS 211	Basic French	2	R
	Total	20	

200 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 202	Subject Methods (Special Method II)	2	C
EDU 216	Educational Technology	2	C
MTH 204	Linear Algebra II	2	C
MTH 206	Introduction to Numerical Analysis	3	C
MTH 210	History of Mathematics	2	C
MTH 222	Elementary Differential Equation I	3	C
STA 202	Probability Theory II	2	C
GNS 204	Logic and Philosophy	2	R
GNS 212	Introduction to information & Communication Technology	2	R
	Total	20	

300 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 301	Teaching Practices I	3	C
EDU 303	Test, Measurement and Educational Statistics	2	C
EDU 305	Research Methods	3	C
EDU 309	Curriculum and Instruction I	2	C
MTH 301	Abstract Algebra I	3	C
MTH 303	Elementary Differential Equation II	3	C
MTH 307	Complex Analysis I	3	C
MTH 321	Advance Calculus	3	C
	Total	22	

300 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 306	Special Education	2	C
EDU 308	Educational Administration and Planning	2	C
EDU 310	Curriculum and Instruction II	2	C
MTH 332	Mathematical Methods II	3	C
MTH 334	Metric Space Topology	3	C
MTH 336	Real Analysis II	3	C
MTH 338	Complex Analysis II	3	C
MTH 340	Abstract Algebra II	3	C
MTH 342	Introduction to Mathematical Modelling	3	C
	Total	24	

400 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 403	Seminar in Education	2	C
EDU 405	Science, Technology, Society	2	C
EDU 409	Teaching Practice II	3	C
MTH 401	Theory of Ordinary Differential Equation	3	C
MTH 403	Lebesgue Measure and Integration	3	C
MTH 427	Mathematical Method III	3	C
	Total	16	

400 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 414	Research Project in Education	4	C
EDU 416	Guidance and Counseling	2	C
EDU 418	Special Methods III (Post Teaching Practice Evaluation and Remediation)	2	C
MTH 402	General Topology	3	C
MTH 404	Theory of Partial Differential Equation	3	C
MTH 410	Functional Analysis	3	C
CSC 112	Introduction to Computer Programming	3	C
	Total	20	

Curriculum for B. Ed. Physics Degree

100 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 101	Introduction to the Teaching Profession	2	C
EDU 103	Foundations of Education	2	C
BIO 101	Basic Biology I	3	C
BIO 107	Experimental Biology I	1	C
CHM 101	General Chemistry I	3	C
CHM 107	Experimental Chemistry I	1	C
PHY 101	General Physics I	3	C
PHY 107	Experimental Physics I	1	C
MTH 101	General Mathematics I	3	C
GNS 101	Use of English I	2	R
GNS 103	Use of Library	1	R
	Total	22	

100 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 104	Educational Psychology	2	C
EDU 110	Introduction to the History and Policy of Education	2	C
BIO 102	Basic Biology II	3	C
BIO 108	Experimental Biology II	1	C
CHM 102	General Chemistry II	3	C
CHM 108	Experimental Chemistry II	1	C
PHY 102	General Physics II	3	C
PHY 108	Experimental Physics II	1	C
MTH 102	General Mathematics II	3	C
GNS 102	Use of English II	2	R
GNS 104	Nigerian Peoples and Culture	2	R
	Total	23	

200 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 201	Principles and General Methods of Teaching (Special Methods I)	2	C
PHY 207	Experimental Physics IIA	1	C
PHY 213	Analytical Mechanics I	3	C
PHY 215	Elementary Modern Physics I	3	C
PHY 217	Thermal Physics	3	C
PHY 219	Properties of Matter	2	C
PHY 221	Electricity and Magnetism	2	C
MTH 211	Mathematical Methods I	3	C
GNS 203	Introduction to Entrepreneurial Skills	2	R
GNS 211	Basic French	2	R
	Total	23	

200 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 202	Subject Methods (Special Method II)	2	C
EDU 216	Educational Technology	2	C
PHY 204	Elementary Modern Physics II	2	C
PHY 206	Electric Circuit & Electronics	3	C
PHY 208	Experimental Physics IIB	1	C
PHY 210	Workshop Practice	2	C
PHY 212	General Physics III (Energy & Environment)	1	C
PHY 216	Analytical Mechanics II	3	C
MTH 222	Elementary Differential Equation I	3	C
GNS 204	Logic and Philosophy	2	R
GNS 212	Introduction to Information & Communication Technology	2	R
	Total	23	

300 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 301	Teaching Practices I	3	C
EDU 303	Test, Measurement and Educational Statistics	2	C
EDU 305	Research Methods	3	C
EDU 309	Curriculum and Instruction I	2	C
PHY 309	Electronics	2	C
PHY 311	Mathematical Methods in Physics I	3	C
PHY 319	Electromagnetic Waves and Optics	3	C
PHY 323	Solid State Physics I	3	C
PHY 325	Experimental Physics III	2	C
	Total	23	

300 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 306	Special Education	2	C
EDU 308	Educational Administration and Planning	2	C
EDU 310	Curriculum and Instruction II	2	C
PHY 302	Atomic Physics	2	C
PHY 304	Energy Physics	2	C
PHY 320	Instrumentation and Experimental Technique	2	C
PHY 330	Material Physics	2	C
PHY 332	Environmental Physics	2	C
PHY 422	Statistical and Thermal Physics	3	C
PHY 428	Electrodynamics	2	C
	Total	21	

400 Level Harmattan Semester

Course Code	Course Title	Units	Status
EDU 403	Seminar in Education	2	C
EDU 405	Science, Technology, Society	2	C
EDU 409	Teaching Practices II	3	C
PHY 401	Quantum Mechanics I	3	C
PHY 409	Experimental Physics IV	1	C
PHY 411	Computational Physics	3	C
PHY 423	Solid State Physics II	3	C
PHY 315	Nuclear & Particle Physics I	2	C
	Total	19	

400 Level Rain Semester

Course Code	Course Title	Units	Status
EDU 414	Research Project in Education	4	C
EDU 416	Guidance and Counseling	2	C
EDU 418	Special Methods III (Post Teaching Practice Evaluation and Remediation)	2	C
PHY 402	Quantum Mechanics II	3	C
PHY 410	Nuclear and Particle Physics II	2	C
PHY 426	Vibration and Waves	3	C
MTH 432	Fluid Mechanics	3	C
	Total	19	