

BINGHAM UNIVERSITY, KARU
FACULTY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE

COURSE STRUCTURE (100 LEVEL)

FIRST SEMESTER

SECOND SEMESTER

COURSE CODE	TITLE	UNITS	COURSE CODE	TITLE	UNITS
CMP 101	Intro to Computer Science (Basic)	3	CMP 102	Computer Systems Principles	2
CMP 103	Intro to Computer Applications and Google Apps	2	CMP 104	Programming in C	3
MTH 101	Elementary Mathematics I	3	CMP 106	Intro to Hardware/Software Maintenance	2
MTH 103	Elementary Mathematics III	3	CMP 110	Intro to Problem solving	2
PHY 101	General Physics I	2	MTH 102	Elementary Mathematics II	3
PHY 107	Physics Lab I	1	BST 102	Christian Beliefs II	0
LIB 101	Library Skills	1	GST 102	Philosophy & Logic	2
GST 111	Communication in English I	2	GST 124	Communication in French or Arabic	2
GST 103	Nigeria People & Culture	2	GST 122	Communication in English II	2
BST 101	Christian Beliefs I	0	PHY102	General Physics II	2
STA 111	Descriptive Statistics	2	PHY 108	General Physics Lab II	1
CMP107	Intro to Hardware/Software Maintenance	1	CISCO	CCNA 1	0
	Total	22	<i>19102</i>	Total	21

*** Notes***

- It is mandatory for Computer Science students to complete the CISCO certifications (CCNA I to CCNA 4) before graduation;
- Students are required to write A+ certification Examination (external). There will be no internal Exam for CMP 106 & CMP107.
- Students are required to enhance their French or Arabic Language skills by registering for and obtaining external certification before graduation.
- Certificates will be issued to all successful students in CMP 103 examination.

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COURSE STRUCTURE (200 LEVEL)

FIRST SEMESTER

SECOND SEMESTER

COURSE CODE	TITLE	UNITS	COURSE CODE	TITLE	UNITS
CMP 201	Computer Programming I (C++)	3	CMP 202	Computer Programming II (JAVA)	3
CMP 205	Online Business Systems	2	CMP 204	Intro to File Processing	2
CMP 211	Operating Systems I	2	CMP 206	Intro to Data Communication Networks	2
CMP 213	Computer Hardware	2	CMP 212	Fundamental of Data Structures	3
CMP 215	Discrete Structure	2	EPS 224	Entrepreneurship Studies I	2
CMP 217	Foundations of Sequential Program	2	CMP 216	Industrial Training	3
MTH 205	Linear Algebra I	3	PHY 202	Electronic Circuit & Electronics	2
GST 201	Communication Skills	2	GST 222	Peace Studies and Conflict Resolution	2
BST 201	Christian World View I	0	BST 202	Christian World View II	0
	Electives		MTH 204	Linear Algebra II	3
CISCO	CCNA 2	0	CISCO	CCNA 3	0
	Total	20		Total	22
	Electives				
STA 203	Statistics for Physical Science & Eng.	2			
MTH 201	Mathematical Methods	3			

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COURSE CODE	TITLE	UNITS	COURSE CODE	TITLE	UNITS
CMP 201	Computer Programming I (C++)	3	CMP 202	Computer Programming II (JAVA)	3
CMP 205	Online Business Systems	2	CMP 204	Intro to File Processing	2
CMP 211	Operating Systems I	2	CMP 206	Intro to Data Communication Networks	2
CMP 213	Computer Hardware	2	CMP 212	Fundamental of Data Structures	3
CMP 215	Discrete Structure	2	EPS 224	Entrepreneurship Studies I	2
CMP 217	Foundations of Sequential Program	2	CMP 216	Industrial Training	3
MTH 205	Linear Algebra I	3	PHY 202	Electronic Circuit & Electronics	2
GST 201	Communication Skills	2	GST 222	Peace Studies and Conflict Resolution	2
BST 201	Christian World View I	0	BST 202	Christian World View II	0
	Electives		MTH 204	Linear Algebra II	3
CISCO	CCNA 2	0	CISCO	CCNA 3	0
	Total	20		Total	22
	Electives				
STA 203	Statistics for Physical Science & Eng.	2			
MTH 201	Mathematical Methods	3			

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COURSE STRUCTURE (400 LEVEL)

FIRST SEMESTER

SECOND SEMESTER

COURSE CODE	TITLE	Pre-Requisite	UNITS	COURSE CODE	TITLE	UNITS
CMP 401	Organization of Programming Langs.	CMP201, CMP202, CMP325 & CMP 327	3	CMP 404	Software Engineering II	2
CMP 331	Compiler Construction I		3	CMP 410	Computer Networks/Communications	3
CMP 403	Software Engineering I		2	CMP 416	Web Development Issues	3
CMP 409	Artificial Intelligence		3	CMP 422	Database Management II	3
CMP 441	Human Computer Interface		2	CMP 499B	Project	6
CMP499 A	Project		0			
CMP443	Net-Centric Computing		3		Total	17
	Total		16		Electives	
	Electives			CMP 406	Management Information Systems	2
CMP 405	Computer Graphics		2	CMP 408	Information Security	2
CMP 411	Modeling and Simulation		2	CMP 414	Computer Systems Performance Evaluation	2
CMP 415	Image Processing		2	CMP 426	Special Topics in Computer Science	3
CMP 425	Distributed Computer Systems		2	CMP 428	Formal Models of Computation	3
CMP 423	Special Topics in Software Engineering		2	CMP 430	Optimization Techniques	3
CMP 427	Information Technology Law		2	CMP 432	Queuing Systems Performance Evaluation	3
			2	CMP 422	Project Management	3
				CMP 418	Compiler Construction II	3