

**(b) Development Planning Option**

Semester I		CU
STA 3108	Manpower Planning and Human Resource Policies	4
STA 3109	Economic Dimensions of Development	2
STA 3110	Theory and Analysis of Economic Development	3
Semester II		
STA 3208	Social Dimensions of Development	3
STA 3209	Stabilisation and Structural Adjustment	3
STA 3206	Monitoring and Evaluation	2

**(c) Statistical Computing Option**

Semester I		CU
STA 3111	Computer Architecture	2
STA 3112	Software Engineering	2

STA 3113	Operations Research	2
STA 3114	Systems Analysis and Design	3
STA 3115	Introduction to Generalised Linear Models	2
STA 3116	Industrial Statistical Modeling	2
STA 3119	Computer Networking	2
Semester II		
STA 3210	Operating Systems	2
STA 3211	Computer Networking	2
STA 3212	Database Management Systems	2
STA 3213	Management of Information Systems	2
STA 3215	Econometric Methods	
STA 3223	Operations Research	2

**TOTAL YEAR III CREDIT UNITS = 41**  
**Total load for BSTA = 148 Credit**

**BACHELOR OF SCIENCE IN QUANTITATIVE ECONOMICS DEGREE (BSQE)**

**Introduction**

The programme is offered both as a Full-time Day and as an Evening programme. Over the past quarter century, the Institute has achieved its primary objective of training high level personnel in Statistics and Applied Economics.

While B.Stat is a Regional Programme catering for Anglophone Africa and primarily producing statisticians for Government Offices in the areas of official statistics, computing and development planning and policy, Bsc. (QE) is intended to produce analysts with strong background in Statistics, and quantitative techniques of Economists who are currently in high demand in Uganda. The Bsc. (QE) graduates will be used in the many economic sector projects increasing daily.

Furthermore, the graduates of this programme are trained to have a strong base in Mathematics, Statistics, Computing and Economics which should enable them do research and further studies in Quantitative Economics.

Year I: Semester 1		
STA1101	Descriptive Statistics	2

STA 1102	Official Statistics	3
STA 1103	Time Series and Index Numbers	3
STA 1105	Introduction to ICT	3
STA 1106	Statistical Practical I	
ECO 1101	Introductory Micro-Economics	3
BPS 1103	Sociology I	2
MTH 1101	Calculus 1	3
MTH 1102	Linear Algebra 1	3
ECO 1102	Marketing and Cooperatives	3
Semester II		
STA 1201	Statistical Organization	
STA 1202	Probability Theory I	3
STA 1203	Statistical Inference I	3
STA 1205	Non parametric Statistics	2
STA 1209	Statistics Practical I	2
ECO 1201	Introductory Macro economics	3
ECO 1202	Principles of Development Economics	3
MTH 1201	Calculus 2	3
MTH 1202	Linear Algebra 2	3
MTH 1255	Vector Calculus	3
<b>Total Year I Credit Unit = 42</b>		

<b>Year II: Semester I</b>		
STA 2101	Probability Theory II	3
STA 2102	Statistical Inference II	3
STA 2103	Sampling Theory	3
STA 2104	Industrial Statistics	2
STA 2106	Time Series Analysis	2
ECO 2101	Micro-Economics	3
ECO 2102	Agricultural Production Economics	3
ECO 2105	Marketing and Cooperatives	3
ECO 2106	Industrial Economics	3
MTH 2101	Introduction to Real Analysis	3
MTH 2103	Differential and Difference Equations	3
MTH 2104	Linear Algebra II	3
<b>Semester II</b>		
STA 2201	Introduction to Computer Programming	3
STA 2204	Research Methods	2
STA 2205	Linear Models	3
STA 2206	Regression Analysis	3
STA 2209	Statistical Practicals II	2
STA 2210	Linear Programming I	3
ECO 2201	Macro economics	3
ECO 2202	Economics of Industry & Labour	2
ECO 2204	Mathematical Economics	3
ECO 2206	Farm Management and Production Economics	3
MTH 2201	Linear Programming	2
MTH 2202	Elements of Mathematics	2
MAT 2203	Calculus 3	2
BPS 2206	Research Methods	3
BQE 2203	Elements of Developing Planning	3
BQE 2204	Mathematical Economics	
<b>Year III: Semester I</b>		<b>CU</b>
BPS 3101	Monitoring and Evaluation	2
BPS 3104	Aquarial Science I	2
BQE 3103	Resource and Environmental Economics	
BQE 3104	Development Economics Planning and Policies	3
STA 3101	Econometric Methods	4
STA 3102	Multivariate Analysis	3
STA 3113	Operations Research	3

STA 3116	Industrial Statistical Modeling	2
STA 3117	Computer Programming II	3
ECO 3103	Resource and Environment Economics	3
ECO 3101	Intermediate Micro-Economics	3
ECO 3104	Dev. Econ, Planning and Policy	3
ECO 3102	Intermediate Macro-Economics III	3
ECO 3105	Resource Economics	3
ECO 3106	International Economics	3
ECO 3108	Government Business Relations	
ECO 3109	Monetary Economics	3
<b>Choose one Statistics Elective</b>		<b>3</b>
<b>Semester II</b>		
BQE 3203	Elements of Development Planning	3
BQE 3204	Transport Economics	3
BQE 3205	Health Economics	3
BQE 3206	International Economics	3
STA 3201	Industrial Statistical Modelling	2
STA 3203	Research Project	3
STA 3206	Monitoring and Evaluation	2
STA 3216	Statistics Practical III	2
ECO 3201	Intermediate Macro-Economics	2
ECO 3202	Project Planning and Management	3
ECO 3205	Health Economics	
ECO 3206	Public Sector Economics	3
ECO 3210	Money and Banking	3
MTH 3203	Linear Programming I	

**The following are Statistics Elective Courses (Select one)**

STA 3115	Official Statistics	3
STA3 103	National Accounts & Income Analysis	3
STA 3105	Agricultural Statistics	3
STA 3106	Demographic and Social Statistics	3

**The following are Economics Elective Courses (Select one)**

BQE 3203	Public Finance	3
BQE 3204	Transport Economics	3
BQE 3205	Health Economics	3
BQE 3206	International Economics	3

**TOTAL Load for B.Sc QE = 136CU**