

### 13.2.3 BACHELOR OF SCIENCE (ANALYTICAL CHEMISTRY WITH MANAGEMENT)

#### Entry Requirements:

- i. KSCE C+ (plus), Maths C+ (plus), Chemistry/Biological Sciences – B-(minus)  
Alternatively: KSCE C (plain), Maths C+(plus), Chemistry C+(plus) and Diploma in Analytical Chemistry
- ii. Mean grade of C- (minus) at KCSE and progressed from certificate to Diploma at Kenyatta University or any other recognized/accredited Institutions.

Mode of Study (e.g. Regular, IBP, ODeL, etc): Regular

#### Examination:

Each course is one unit of 35 hours. Examination mark consists of written exam (70%) and continuous assessment (30%). Continuous assessment tests include written tests practical reports and home assignments. Practical report marks are mandatory in units with practical classes before a grade is awarded.

**Certification:** Degree - B.Sc. (Analytical Chemistry with Management)

#### Unit Code and Title

##### Level 100

SCH 100: Fundamentals of Inorganic Chemistry

SCH 101: Introduction to Physical Chemistry

SCH 102: Organic Chemistry I

SCH 104: Introduction to Laboratory Procedures and Classical Analysis  
SCH 106: Quality Assurance and Laboratory Management  
SMA 102: Basic Mathematics  
SMA 104: Calculus I  
SMA 160: Probability and Statistics  
BBA100: Business Studies  
BBA 101: Business Law I  
BBA 102: Principles of Management  
BAC 100: Fundamentals of Accounting I  
SCT 100: Fundamentals of Computing  
UCU Unit

### **Level 200**

SCH 200: Atomic Structure  
SCH 201: Chemical Thermodynamics  
SCH 202: Organic Chemistry II  
SCH 203: Theory of Spectroscopy Methods  
SCH 204: Separation Techniques  
SCH 207: Introduction to Computational Chemistry  
SMA 200: Calculus II  
SMA 260: Probability and Statistics  
BBA 200: Organizational Behaviour  
BBA 201: Principles of Marketing  
BAC 202: Cost Accounting I  
BAC 203: Business Finance I  
SCT 101: Programming Techniques  
UCU Unit

### **Level 300**

SCH 300: Comparative Study of S & P Block Elements  
SCH 301: Coordination and Organometallic Chemistry  
SCH 304: Introduction to Analytical Instrumentation  
SCH 305: Chemical Kinetics  
SCH 309: Introduction to Photochemistry  
SCH 310: Radiochemistry and Radiation Chemistry  
SCH 311: Organic Spectroscopy  
SCH 315: Concepts in Biotechnology  
SCH 320: Industrial/Institutional Attachment  
SCH 321: Research Methods  
BBA 300: Organizational Theory  
BBA 301: Human Resource Management I  
BBA 303: Marketing Strategies and Plans  
BAC 300: Management of Accounting I  
UCU Unit

### **Level 400**

SCH 400: Comparative Study of Transition Elements\*  
SCH 401: Electrochemistry\*  
SCH 403: Phase Equilibria\*

SCH 406: Surface and Colloid Chemistry\*

SCH 407: Environmental Chemistry\*

SCH 409: Structural Chemistry

SCH 415: Computer Applications in Chemistry

SCH 416: Project

SCH 417: Spectroscopic Methods of Analysis\*

SCH 418: Non-Spectroscopic Methods of Analysis\*

SCH 422: Polymer Chemistry

BBA 400: Business Policy and Decisions

BBA 401: Company Law

BBA402: Management of International Business and Organization  
BMS 401: Production and Operations Management  
\* Core Units

