

13.2.2 BACHELOR OF SCIENCE (INDUSTRIAL 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: 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 – Bachelor of Science (Industrial 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 103: Introduction to Classical Analysis and Separation Techniques
SCH 107: Introduction to Industrial Chemistry
SMA 102: Basic Mathematics
SMA 104: Calculus I
SMA 160: Probability and Statistics I
BBA 100: 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 205: Plant Economics and Industrial Management
SCH 206: Unit Operations I
SCH 207: Introduction to Computational Chemistry
SMA 200: Calculus II
SMA 260: Probability and Statistics II
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 304: Introduction to Analytical Instrumentation
SCH 305: Chemical Kinetics
SCH 317: Material and Energy Balances
SCH 319: Food Based Industries
SCH 320: Industrial/Institutional Attachment
SCH 321: Research Methods
SCH 322: Transition Metal Chemistry
SCH 323: Unit Operations II
SCH 325: Petrochemical Industries
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 415: Computer Applications in Chemistry

SCH 416: Project

SCH 420: Pharmaceuticals, Industrial and Agricultural Chemicals

SCH 421: Reactor Design* SCH 422:

Polymer Chemistry SCH 423: Food

Chemistry SCH 424: Industrial

Catalysis* SCH 425: Unit Operations

III*

SCH 426: Chemical Process and Equipment Design* SCH

429: Applied electrochemistry*

SCH 430: Industrial Instrumental Techniques*

SCH 431: Industrial and Non-Industrial Processes and the Environment* BBA

400: Business Policy and Decisions

BBA 401: Company Law

BBA 402: Management of International Business and Organization

BMS 401: Production and Operations Management

* Core Units