

**BSc HONS. IN HEALTH MANAGEMENT AND COMMUNITY  
DEVELOPMENT**

**SCHOOL OF AGRICULTURAL SCIENCES AND TECHNOLOGY**

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**REGULATIONS FOR THE BACHELOR OF SCIENCE HONOURS DEGREE  
IN HEALTH MANAGEMENT AND COMMUNITY DEVELOPMENT  
(BScHMCD)**

**1.0 INTRODUCTION**

The prevalence of communicable and non-communicable diseases has become a major social and economic burden for the government. Diseases impact negatively not only on the livelihoods of people, but also on the country's productivity. While the Ministry of Health and Child Care has made significant strides in providing health care nationwide, non-clinical and community development approaches have been developed by other stakeholders including Non-Governmental Organisations, to compliment that effort and to alleviate the impacts of disease in society. This programme was designed to meet the diverse capacity development needs of health management and community development practitioners, working as facilitators, field officers, project supervisors, and programme managers, to equip them with requisite competencies to make their interventions more effective and efficient. The programme bridges the gap between clinical interventions and social welfare concerns through entrepreneurial community development and empowerment strategies to ensure sustainable livelihoods of people infected and affected by disease. The programme also enables students acquire academic knowledge and skills in research that is necessary for the development of innovative and sustainable interventions in health management and community development.

**1.1 OBJECTIVES OF THE PROGRAMME**

The Bachelor of Science Honours Degree in Health Management and Community Development seeks to:

- 1.1.1 Address the skills gap among health management and community development practitioners in government and non-governmental organisations.
- 1.1.2 Provide a basis for postgraduate studies for the advancement of knowledge and best practices in Health management and Community development in Zimbabwe and beyond borders.
- 1.1.3 Promote non-clinical interventions for the prevention of disease incidence and enhance dissemination of knowledge at community level.

- 1.1.4 To strengthen the intervention strategies of development partners operating in the health and community development sectors.
- 1.1.5 Promote the on-clinical approaches to reduce the vulnerability of the infected and affected people through sustainable interventions across all sectors of the economy..

## **1.2 EXPECTED OUTCOMES**

**Students who successfully graduate from this program will be able to:**

- 1.2.1 Understand and criticize literature in health management and community development.
- 1.2.2 Undertake scientific research, and report, analyse and interpret the results in relation to relevant literature.
- 1.2.3 Communicate scientific facts, results and ideas about communicable and non-communicable diseases both in writing and orally.
- 1.2.4 Demonstrate working knowledge of health management and community development strategies to meet the needs of the employer organisations in government and non-governmental sectors
- 1.2.5 Follow trends in addressing the contemporary issues of health management and community development and contribute to improved research.
- 1.2.6 Use their knowledge to enhance operations of organisations for which they work.].
- 1.2.7 Initiate or contribute to the development of new community-based interventions.
- 1.2.8 Qualify for enrolment for Masters and Doctorate studies at other world-class educational institutions.

## **2.0 CAREER OPPORTUNITIES**

Graduates of this programme have diverse career opportunities in both government and non-governmental sectors as; community development facilitators, field officers, project supervisors, and programme managers. Students have the opportunity to undertake further studies in Health Management studies and other higher degrees in the field of community development. Graduates can also be self-employed as community health and development consultants.

## **3.0 REGULATIONS**

These regulations must be read in conjunction with the Chinhoyi University of Technology General Academic Regulations for Undergraduate Degrees, hereafter referred to as the General Regulations.

The Bachelor of Science Honours Degree in Health Management and Community Development will be awarded to candidates who successfully complete the programme in accordance with the following regulations:

### **3.1 QUALIFICATIONS FOR ENTRY**

#### **3.1.1 Normal Entry**

Admission into the programme shall be granted to candidates with 5 “O” level passes including English Language and Mathematics and a relevant Diploma in Social Welfare, Counselling; Teaching; Nursing, Environmental Health or Community Development from recognized institutions and with more than one year’s work experience.

#### **3.1.2 Special entry**

Notwithstanding the requirements for % ‘O levels, special entry shall be granted to holders of relevant certificates with more than three years’ work experience in relevant fields.

#### **3.1.3 Mature Entry**

Persons who are at least 25 years of age for males and 23 years of age for females on the first day of the academic year in which admission is sought and who are not eligible for entry under Normal or Special Entry requirements may apply for mature entry provided they have more than five years of relevant work experience.

3.1.3.1 Have passed at least 5 “O” level subjects including Mathematics and English Language or equivalents and must have demonstrated potential suitability for university studies by virtue of their attainments and/or relevant work experience.

3.1.3.2 Have completed their full-time school or college education at least five years before the start of the academic year in which admission is sought.

3.1.3.3 May be required to attend interviews and or special tests at university designed to assess their command of English Language, numeracy and reasoning ability and general suitability for admission to the degree programme.

3.1.4 Meeting the minimum admission requirements does not necessarily ensure admission. Admission is based on the number of places available and is awarded based on merit.

### **3.2 STRUCTURE OF THE PROGRAMME**

- 3.2.1 In accordance with the General Regulations, the Bachelor of Science Honours Degree in Health Management and Community Development requires the study of a range of courses over three (3) years. This includes a minimum of 8 months supervised Industrial Attachment in the third year.
- 3.2.2 The minimum number of credits to graduate from this programme is 500, having passed all courses on offer as stipulated in Section 3.5.
- 3.2.3 Each credit consists of 10 notional hours of engagement by the student in lectures, practical/tutorials/seminars/visits, directed and self-directed learning, assignments, tests and examinations.
- 3.2.4 Courses from the Department are normally worth 12 credits meaning that there are 120 notional hours of engagement in learning activities consisting of 48 hours of lectures + 24 hours of practicals/ tutorials/visits + 30 hours of directed and self directed learning + 18 hours for assignments, tests and examinations per course per semester.
- 3.2.5 Industrial attachment in the Third Year Semester 5 and 6 is worth 120 credits contributed from Continuous Assessment (40 credits) and the Industrial Attachment Report (80 credits)

### **3.3 ASSESSMENT AND SCHEME OF EXAMINATIONS**

The assessment of attainment and scheme of examination regulations for this degree programme must be read in conjunction with the General Regulations of Chinhoyi University of Technology.

#### **3.3.1 TAUGHT COURSES**

**3.3.1.1** Each course shall be assessed by coursework and formal examinations.

**3.3.1.2** The formal examination shall contribute between 60% to 70 % to the overall assessment. Normally, the course-work shall contribute between 30 and 40 % of the final mark, depending on the nature of work involved in that particular course. Course work shall **comprise practical work or tasks**, assignments and tests.

3.3.1.3A candidate must satisfy examiners in both coursework and examiners to pass a course.

3.3.1.4A candidate must achieve the minimum coursework attendance levels prescribed in the General Regulations and obtain a coursework mark of at least 50% to be deemed to have passed coursework and be allowed to write the final examination in each course.

3.3.1.5A candidate who fails to achieve an aggregate mark (coursework +examination) of at least 50% is deemed to have failed the course.

3.3.1.6A candidate who fails with an aggregate mark of between 40% and 49% will be allowed to write a supplementary examination in that course.

3.3.1.7A candidate who fails with an aggregate mark of less than 40% will carry or repeat the course, depending on the total number of courses failed.

3.3.1.8The contribution of each semester towards the overall **Degree Class** is as follows:

<b>Semester</b>	<b>Contribution</b>
Semester 1 & 2	20%
Semester 3 & 4	25%
Semester 5 & 6 + Industrial Attachment	40% + 15%
<b>TOTAL</b>	<b>100%</b>

### **3.3.2 INDUSTRIAL ATTACHMENT**

3.3.2.1A student can only proceed for industrial attachment after passing all First Year and Second Year courses.

3.3.2.2 Industrial attachment shall be assessed in two components viz. Continuous Assessment (HMCD381) and two final reports: Industrial Attachment Report and Attachment Project Report under the module HMCD382.

3.3.2.3 Continuous Assessment shall consist of marks awarded during assessments by academic supervisors when they visit the students on attachment and by industrial supervisors or work place mentors at the institution to which the student is attached.

3.3.2.4 The Industrial Attachment Report shall consist of a diary of activities that the student was involved in during attachment and the teasing out of lessons learnt. The Attachment Project Report shall be a write-up on work done on a specific problem identified by the student in the workplace. The project shall focus on providing a solution to the identified problem.

3.3.2.5 The final mark for Industrial Attachment shall be determined as follows:

<b>Industrial Component</b>	<b>Attachment</b>	<b>Contribution to Final Mark</b>	<b>Credits</b>
<b>HMCD381</b>	(Continuous assessment)		<b>40</b>
Academic Assessor's mark		60%	
Industrial Supervisor' mark		40%	
<b>Total</b>		<b>100%</b>	
<b>HMCD382 (Final Reports)</b>			
Attachment project proposal		10%	<b>80</b>
Attachment Report		40%	
Attachment Project		50%	
<b>Total</b>		<b>100%</b>	

3.3.2.6 Where a student wishes to be attached abroad, it is the responsibility of the student to provide the university with relevant information for consideration before approval of the attachment placement.

3.3.2.7 While on attachment the student will be supervised in accordance with the university requirements.

3.3.2.8 A student may be assessed by an academic supervisor other than of this university.

3.3.2.9 Where a student obtains less than 50% in the Industrial Attachment Continuous assessment (HMCD381), the student is required to repeat Industrial Attachment.

3.3.2.10 Where the student obtains a mark within the supplementary range (less than 50% but more than 40%) in either of the two attachment reports, the student must resubmit within 3 months after publication of the results.

3.3.2.11 Where the student fails below supplementary range (less than 40%) in either of the two attachment reports he/she must repeat Industrial Attachment.

3.3.2.12 The Industrial Attachment Report and the Attachment Project Report should be submitted to the Department by the prescribed due date. A student who fails to meet the deadline for submission is deemed to have failed the module and may not proceed for the next semester.

### **3.3.3 RESEARCH PROJECT**

3.3.3.1 The assessment of the Research Project is designed to determine the relative ability of students to write and present a research proposal, implement the research proposal using appropriate experimental designs, materials and methods and analyze data to reach credible scientific inferences. Further, the

student must demonstrate an ability to write a research project report in the scientific format and present the synopsis of the research at a seminar.

3.3.3.2 The assessment of the Research Project shall consist of a Continuous Assessment component (Written Project Proposal, Project Proposal Presentation, Research Project Presentation) and a Research Project Report component with their contribution to the final Research Project Mark as follows;

<b>Research Project Component</b>	<b>Contribution to Final Research Project Mark</b>
Written Project Proposal	10%
Project Proposal Presentation	10%
Research Project Presentation	20%
Research Project Report	60%
Total	100%

#### **3.4 AWARD OF THE DEGREE**

Students are required to satisfy the Board of Examiners in all requirements before being awarded the degree.

#### 4.0 COURSE STRUCTURE

Course Code	Course Title
<b>Semester 1</b>	
HMCD 101	Communicable and Non-Communicable diseases
HMCD 102	Socio-Economic Impact of Disease
HMCD 103	Environmental Health Management
CUEB 104	Principles of Management
CUIT112	Information Technology & Computer Applications

<b>Semester 2</b>	
HMCD 104	Policy Development and Analysis
CUFS210	Nutrition and Dietetics
HMCD 105	Gender and Community Development
HMCD 106	Behaviour Change Communication
HMCD 107	Poverty Alleviation and Development

<b>Semester 3</b>	
HMCD 212	Principles of Counseling
HMCD	Developments in Health Management
HMCD 213	Health Management
CUPH 123	Research Methods
CUES426	Project Planning and Management
CUEB201	Principles of Entrepreneurship

<b>Semester 4</b>	
CUIM 115	Financial Management
HMCD 202	Issues in Epidemiology

HMCD 204	Food Toxicology
HMCD 205	Community Mobilisation
HMCD 206	Drug Management

<b>Semester 5</b>	
HMCD 301	Psychosocial Support
HMCD 302	Monitoring and Evaluation
HMCD 303	Integrated Development
HMCD 304	Laboratory Management

	<b>Industrial Attachment</b>
HMCD 381	Industrial Attachment
HMCD 382	Industrial Attachment

<b>Semester 6</b>	
CU	Supply Chain Management
CUES 212	Occupational Health and Safety
HMCD 306	Health Care Quality Management
HMCD 308	Ethics in Health Care Management
HMCD 305	Research Project

## 5.0 COURSE SYNOPSES

### SEMESTER 1

#### **HMCD 101: Communicable and non-Communicable diseases**

This course introduces basic concepts of infectious disease. The goals of the course are for students to gain a basic knowledge and understanding of; microbial diagnosis - the basis, sensitivity, and limitations of clinical diagnostic tests, etiology- infectious agents responsible, differential diagnoses – infectious or not, epidemiology- transmission, susceptibility, patterns, pathogenesis -how the organisms cause disease, symptoms - symptoms that help in diagnosis, how these symptoms relate to disease, prevention - vaccines, hand washing, treatment - drug or other treatment options, and

complications - spectrum of disease, other complications of infection, for example, HIV/AIDS, cancer, diabetes, malaria, other viral infections.

### **HMCD 102: Socio-Economic Impact of Diseases**

The module gives an analysis of the impacts of disease on social, and economic aspects of life. The traditional and spiritual impacts assigned to the epidemic will be explored. Economic impact of disease to all societies and setbacks to developmental strides will be highlighted using case studies. The measurable indications of the impact on human resource depletion resulting from increased morbidity and mortality will be analysed to generate meaningful impact reduction strategies applicable for developing nations. Units for this module will include: social impacts of diseases, economical impacts, culture and disease, faith based organizations, disease impact on governance, impacts of human resources.

### **HMCD 103: Environmental Health Management**

Environmental Health is the assessment and management of environmental influences e.g. chemical, physical, biological, social and psychosocial factors on human health. This entails the study of food safety and hygiene including production, distribution and fitness for human consumption, community health communicable and non-communicable disease control and prevention, disaster management, health promotion and education, the built environment including homes, workplaces and public spaces and pollution control including the control of the air, land and water. Students will take a preventative approach to tackling disease and ill-health rather than a curative approach. This module will make students aware of how the individual lifestyle factors; social and community networks; and the general socio-economic, cultural and environmental conditions affect the individual and community health.

### **CUIT 112: Information Technologies and Computer Applications**

The module covers the following: History of Computers, Physical Structure of a Computer, Software, and Windows OS, Word Processing Package, Spreadsheet, and Presentation: MS PowerPoint, Computer Room Environment and Internet.

### **CUEB 104: Principles of Management**

The programme targets management personnel that need to be equipped with knowledge and skills in contemporary management issues. Decision-making procedures, negotiation skills and conflict resolution are areas of concern for managers. Some of the content areas in this module include: Management functions and skills (Planning, organizing, leading and controlling), Professional conduct, Groups and group formation. The Management, Delegation and supervision, Decision making and Problem solving. Resource utilization, Performance Management, Result-Based Management and Conflict Management.

## **SEMESTER 2**

### **HMCD 104: Policy Development and Analysis**

The module aims at equipping the students with sound knowledge to improve their capacity in critical analysis of available policies. Areas to be included in the module are: Constitutional and Statutory Regulations, policy development cycle and analysis, concepts of Primary Health Care, human rights and governance, property inheritance and sexual harassment/abuse, and democratic practices that may be associated with vulnerability to disease transmission. Democratic issues are analysed in a pro-poor bias to generate information on recommendations for action at community, national and regional level.

### **CUFS210 - Nutrition and Dietetics**

The course provides students with an overview of different aspects of nutritional sciences. The following are some of the areas that will be covered: definition of nutrition, nutrient requirements, factors influencing nutritional status (Agriculture and food, food paths, food flow charts), nutritional security conceptual framework, food security, health and nutrition, care and nutrition, global nutrition strategies, concept of primary health care, (PHC), gender and nutrition.

### **HMCD 105: Gender and Community Development**

The module sensitizes the students on the basic gender concepts and clarifies the biological roles as opposed to the acquired perceptible gender roles. The social influences and positions that discriminate men and women to share resources equally are analysed to equip students with knowledge and skills for community human rights realization and economic empowerment. Gender analysis tools are learnt as developmental objects and their application in community work to improve the quality of life among infected and affected communities. The following units are part of this module: Social, economic and political gender inequalities. Access to legal gender policies, socio-cultural gender material generation, Exploring the available natural resources, HIV/AIDS, communicable and non-communicable diseases and gender relations, social interactions and economic transformatory processes that increase women and men's access to education, health, employment and political representation, gender budgeting, inheritance, property disownment policies, and gender streaming. Trans-gender issues.

### **HMCD 106: Behaviour Change Communication**

The course targets communication strategies to facilitate behaviour change. Sensitive issues that include HIV/AIDS, communicable and non-communicable diseases need to be communicated delicately. The students are assisted to be able to handle the crucial issues of stigmatization and discrimination for positive living. Exploration of impact of faith based organizations, media issues, facilitation skills, and change agency. Resistance to change and its management.

### **HMCD 107: Poverty Alleviation and Development**

The course covers the social aspects that impact on development and poverty. The vulnerable societal groups like orphans, children, women and girls. Those infected and affected by HIV, communicable and non-communicable diseases, and the elderly are specifically addressed in a move to involve them in sustainable livelihood activities for economic viability. The students are assisted to master valuable issues of capabilities, sustainability, and livelihoods. The civil societal roles are explored for mutual reinforcement to uphold democratic values a multi-sectoral approach that includes the following: on-governmental organisations, faith-based organisations, private and public sectors and international communities.

## **SEMESTER 3**

### **CUES426: Project Planning and Management**

Concepts of project planning, development, management and administration are core in the course. Strategic planning, workplace project management and appraisal are included. The financial management, budgeting, fund raising, project marketing and business communication are also included in this course. Report writing and the art of disseminating scientific studies will be part of the course. Project cycle, monitoring and evaluation will be covered and supported by projects visits/tours.

### **HMCD 212: Principles of Counseling**

To capacitate students with counseling skills as mitigatory measures to help people in denial and empower them to make good positive decisions. Knowledgeable skills to contemporary issues surrounding the subject matter are necessary. These include interpersonal skills, empathy, non-judgemental, basic counseling skills, supporting tested people, knowledge of various cultures and or languages. Voluntary Counseling and Positive living principles, facilitation skills, ethical issues, and life skills training will be learnt to capacitate the students in handling such issues in practical settings.

### **: Principles of Entrepreneurship**

The course explores the processes of creativity and innovation through an interdisciplinary lens. The course will examine how thinking creatively and informatively gives the vision to see opportunities to impact society.

### **CUPH 123: Research Methods**

Probability theory, statistical distribution, types of research proposal development, principles of research design, experimental designs for quantitative and qualitative research, data analysis and interpretations, computer-based data analysis.

**HMCD 213: Health Management**

Health related contemporary issues such as preventing the spread of disease, knowledge of health status, know-how and skills to respond to health problems individually, at community level, or national level. Students should appreciate the structure and organization of the health-care management sector, for example, the government, ministries, urban and rural councils. The need to deal with current issues that affect the existing management principles of communicable and non-communicable diseases cannot be overlooked. This course equips the students with skills to manage current health problems at local, national, regional and global levels. The students are assisted to develop workable health management strategies that address the identified problems for sustainability. The research studies on selected diseases and new therapies for sustainability and affordability in various community settings. Generating home-grown information on new developments in managing disease will be critical for this course, for example, drug management.

**CUES426: Project Planning and Management**

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**CUPH 123: Research Methods**

Probability theory, statistical distribution, types of research proposal development, principles of research design, experimental designs for quantitative and qualitative research, data analysis and interpretations, computer-based data analysis.

**HMCD: Developments in Health Management**

Health related contemporary issues that evolve with global transformation and ecological processes will be discussed. The need to deal with current issues that affect the existing management principles of communicable diseases cannot be overlooked. This course equips the students with skills to search current health problems at local, national, regional and global levels. The students are assisted to develop workable strategies that address the identified problems. The research studies on selected diseases and new therapies are analyzed for sustainability and affordability in various community settings. Generating home-grown information on new developments in managing disease will be critical for this course.

**SEMESTER 4****CUIM 115: Financial Management****HMCD 202: Issues in Epidemiology**

Epidemiology of disease in human populations is reviewed at national, regional and global levels to visualize how comparable the situation applies to their epidemic situation. The purpose and methods of investigating epidemiology, variables and attributes are included. Population samples and fieldwork techniques are part of the course. The students are exposed to data analysis and presentation of statistical data. Disease causimotology focusing on risk factor analysis.

### **HMCD 204: Food Toxicology**

The module will focus on various issues in Food toxicology involved in delivering a safe and edible supply of food to the consumer.

### **HMCD 205: Community Mobilisation**

Community empowerment for development is the major thrust of this course Students are assisted to mobilize communities for programme ownership and support management systems that are in place. Organizing community meetings for communicable and non- communicable diseases, HIV/AIDS projects and developmental programmes will be instrumental to prepare the student for the practicum assignment on community mobilization. The module will expose students to a lot of community mobilization strategies. Information dissemination and cascading statute laws that address poverty, human rights, communicable and non-communicable diseases, HIV and AIDS are components of this course as a means of community empowerment for development. Students choose to organize any one of the following community gatherings: Meeting, Seminar, Field day, Conference and Workshop. The participatory approaches to community mobilization are encouraged and reinforced by the ability.

### **HMCD 206: Drug Management**

This course will examine various drug distribution systems in pharmacy practice, and prepare learners to effectively manage operations in different practice settings to ensure safe and effective drug supply and distribution. Accurate product release within the parameters of the pharmacy technician role receives special emphasis. Learners will explore distributive functions in institutional settings, as well as common drug plans and their formularies, adjudication challenges, inventory management elements and common business practices such as community based drug distribution, online drug distribution and utilization, value and utilization of traditional medicines and herbal medicine interventions as well as drug regulations

## **SEMESTER 5**

### **HMCD 301: Psycho Social Support**

The course addresses the discriminatory and stigmatization practices that dominate in most communities against individuals and families affected with communicable and

non-communicable diseases. Peer education processes and organizing communities to form support groups for the infected and affected are key issues in this course. The students are assisted to completely organize support groups for psychosocial support and development projects in their areas of attachment. The counselling skills and concepts learnt in Semester 3 are incorporated in this course.

### **HMCD 302: Monitoring and Evaluation**

This course introduces the theories, methods and applications of monitoring and evaluation for social mission organizations including the fundamentals of planning and implementing programme-based monitoring and evaluation with emphasis on practical applications. Content will include the definitions and introduction to monitoring and evaluation, the comprehensive monitoring and evaluation framework, levels of monitoring and evaluation and responsibilities, monitoring and evaluation theories for social mission organizations, theories of change, methods for monitoring and evaluation (qualitative and quantitative), formulating evaluation questions, goals and objectives; monitoring and evaluation tools, monitoring and evaluation work plan, evaluation design, sample design, selecting indicators, measurement of indicators, management of data collection strategies, data analysis and reporting results. In addition, the methodological challenges and implementation challenges on the programme assessment, impact, development, interventions and overall implementation will be assessed. The impact and use of modern digital technology tools, methods and research resources used for improving the quality and efficiency of data collection, access, analysis and visualization will also be covered. The course will also include practical sessions.

### **HMCD 303: Integrated Development**

The module is designed to fill a need in providing planning approaches and guidelines for the integrated and sustainable development of communities, local districts, municipalities, provinces, and local government that is responsive to community desires and needs. Local government and community groups pursue opportunities to improve economic, wealth, and employment base in ways that promote sustainability and equity, e.g., local business creation, create new economic development activities, create diversity in organisational structures and initiatives, with one common goal to provide the neighbourhood, locality, or region with the greater capacity to contribute to determine its own destiny. Communities must develop human capacity and innovations to produce competitive products and services while reducing energy and raw materials consumption. This involves increased knowledge and cooperation on the part of government officials, businesses, unions, professional leaders, and community groups. Community groups and local government to mobilise adequate resources. Criteria are used to evaluate the methods' applicability in a multi-stakeholder integrated development planning process, , e.g., influence of national and state policies on economic development, concepts and theories of economic development, local development of profession and professionals, local development

planning process, introducing analytical methods for development planning, economic development strategy, locality development, business development, human resources development, community economic development, building implementation plan, advanced manufacturing and use of other advanced technologies in response to climate challenged world.

#### **HMCD 304: Laboratory Management**

The course provides participants with an overview of the management of laboratory services across the public and private sector. The course will also provide an overview of internal and external factors influencing health services management, and the management of laboratories; it will consider current theories, models and approaches to the management of organisations, teams and individuals in healthcare and in laboratories; it will help participants reflect on the role of the health services manager within the laboratory setting; and to consider the impetus for strategic management within the context of laboratory services, including change management. In the last part of the course, participants will consider key quality and safety improvement mechanisms, including accreditation requirements as prescribed by the ISO 15189 and IW0 17 025 guidelines, process innovation and inter-professional teamwork. The course will build on participants' current workplace experience and assist them in critically analyzing current theories and applying them in practice.

#### **HMCD 305: Research Project**

The research project is evaluated over two semesters in the Third Year. Research topics are chosen by students from a selection of topics provided their supervisors. If necessary other supervisors approved by the Biotechnology Department may be allowed to supervise research projects of undergraduate students. The research project will be evaluated using two components viz. continuous assessment that includes the assessment of the proposal and final project write-up presentations and the assessment of the final research project write up

### **SEMESTER 6**

#### **XXXXX: Supply Chain Management**

#### **CUES 212: Occupational Health and Safety**

The student is introduced to local and international legislation governing Occupational Health and Safety. The course covers the recognition and control of safety hazards in the workplace. Topics include job hazard analysis, accident investigation and reporting, machine guarding, personal protection, fire protection, Hazardous substance Management, Lock Out and Tag Out, Confined Space Entry, Fall Protection,

Emergency Action Plans, Ergonomics , Electrical safety , Machine safety, Fire safety, Safety Management Systems Auditing.

### **HMCD 306: Health Care Quality Management**

The goal of this course is to introduce students to the management of operations and explore how healthcare organizations can use advance methods to improve healthcare processes, delivery, and outcomes. Students must know the structures and roles of various government departments and agents, eg., ministries, municipalities, district and provincial councils, NGOs, health professional bodies, Health and standards Act, and community organizations in managing health care. Specific focus will be on analyzing cycle times (e.g., patient wait times), measuring productivity, streamlining process flows, tracking outcomes and performance metrics, and generally improving health management processes and health outcomes. The course will mention basic principles of international quality management systems such as ISO17025 and iso15819 for inter-professional teamwork. The process improvement will be measured by how it can improve quality of care and safety of healthcare delivery, reduce waste, and reduce costs. The role of technology and innovative approaches in improving communication, sourcing, production, quality, distribution, decision making, and utilization of drugs.

### **HMCD 308: Ethics in Health Care Management**

The course examines ethical considerations for multicultural, socioeconomic, political, legal factors in health care systems in-order to improve human interactions within the healthcare system. Ethics plays a great role in understanding societal views in relationship to health care system and services. A number of issues, terminology and principles of ethics in health care will be discussed. Ethical issues encompass rights, responsibilities and moral obligations of practitioners and clients within the health care system. The course will elucidate on the discipline of dealing with the ethical implications of research and emerging technologies in health care, impact of clinical trials, biobanking, free medication, humans as guinea pigs in experimental research etc. Legal and regulatory issues will be discussed in-order to understand violation of both moral and legal aspects with consideration to aspects such as ethical clearance, confidentiality, unauthorized research, policies etc in health care systems. Due to multicultural aspects affecting both practitioners and clients in the health care system, ethical aspects to do with religious, ethnic, racial differences and how these affect various outcomes for example in treatment, psychosocial support etc will be discussed.