

STUDENT PROGRAM HANDBOOK



كلية الصحة العامة وطب المناطق الحارة
Faculty of Public Health & Tropical Medicine

جامعة جازان
JAZAN UNIVERSITY



قسم المعلوماتية الصحية

Department of Health Informatics

YOUR PROGRAM HANDBOOK

This handbook sets out a range of information and, where applicable, points to a number of other important documents to help support you through your studies at the University.

The purpose of this handbook is to provide information about your program of study.

It is designed to support you throughout your studies and it is important to familiarise yourself with all the contents of this handbook.

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WELCOME MESSAGE FROM THE DEAN

All praises to Allah who teaches us with pen and who teaches the mankind what they do not know. Prayers and peace upon the only teacher of the mankind, its guide to the way of light and truth.

The Kingdom of Saudi Arabia devotes great attention and care to education through establishment of the state of the art educational institutions and universities through the whole kingdom.



Due to the steady increase in the health services, the Kingdom of Saudi Arabia advocates and prioritizes great attention and interest in health education. Therefore, the Faculty of Public Health and Tropical Medicine is considered one of the achievements of Jazan University following its establishment in 2011.

Public health is the cornerstone to improve community health through control and prevention of diseases and other health issues including psychological health problems affecting population in developed and developing countries through local health systems and non-governmental organizations.

Graduation of well-trained health specialists who are competent to serve in different disciplines of public health and who are able to solve the public health concerns arising in the Kingdom is the major outcome from establishment of the Faculty of Public Health and Tropical Medicine in Jazan University. The Faculty of Public Health and Tropical Medicine comprises eight different departments which specialize in all aspects of public health. This diversity in specialties reflect the objective of the faculty of Public Health and Tropical Medicine to provide the health sector with public health specialists and to adopt the comprehensive scientific picture to achieve the desired goal which is the improvement of community and individual health. The latter is considered the cornerstone to develop the community and makes it parallel to other developed communities globally.

In conclusion, I hope that our work is conducted for the sake of Allah and that we will be accountable to the mission.

Thank you,

Dr. Mohammed Jubran Almalki

Dean,

Faculty of Public Health and Tropical Medicine

WELCOME MESSAGE FROM THE HEAD OF DEPARTMENT

Our goal is to become a national model for the delivery of high-quality, technically-oriented education by focusing on student-centered learning and the integration of hands-on computer Labs and Health Informatics based experiences. With this in mind, we have started undergraduate programs in Health Informatics (HI) in 1433.

The undergraduate Health Informatics (HI) program includes three domains: Management, Information Technology, and Health Informatics.



Our full-time faculty members provide students with a strong foundation of Health Information Management and Technology practices and stimulate students' interest by using a problem-solving approach in Health Informatics. In addition, the computer labs serve as training center for undergraduate HI students.

HI graduates from Jazan University will be applications-oriented with a solid background in Health Informatics, Management and technology. They will be able to manage the health records in primary care centers and hospitals, install and operate technical systems, develop and produce application systems, provide services and maintenance of health information systems.

Our recently approved Bachelor's degree program provides a graduate-level educational opportunity on a full time basis in the area of health informatics. I wish all my students a wonderful journey with us and have a bright future in the area of health information management.

Abdulrahman Jabour .PhD
Head of Department
Department of Health Informatics
Faculty of Public Health and Tropical Medicine

PROGRAM OVERVIEW

Program Duration

- Total duration is 4 years
- First year is preparatory year (university requirement), second year is foundation year (faculty requirement), and third and fourth year (department requirement) are specialty years.
- After finishing the four years, the students will have to work as an intern in different healthcare sectors (ministry, hospitals, primary healthcare centers, vendors and private dispensaries) for a period 48 weeks.

Credit Hours

- Total 134 credit hours

Program Aims

- To increase the workforce in the field of Health Informatics.
- To deliver high quality professional education and develop student's ability to think critically and communicate effectively with community.
- To serve as a bridge between research practices of healthcare and information technology.
- To develop the leadership skills to navigate the privacy, security, legal, ethical and social challenges essential for Health Informatics.
- To nurture expertise in the field of emerging technologies and promote interdisciplinary research.

Program Learning Outcomes

- To manage critical data accurately and efficiently at the time of emergency disaster.
- To equip students with a firm base in analytical, technical and management skills related to the health information management.
- To graduate leaders with critical and independent thinking, and deep understanding of existing and new emerging technologies in health information management.
- To graduate professionals who are capable of planning, designing, and serving as a key team member in the development of computer-based medical record systems.

COURSE STRUCTURE

211 BHI Public Health Informatics (2 credit hours)

This course highlights the systematic application of information science and technology to public health practice, research, and learning in the area of public health. Key challenges of health informatics and IT applications for the core public health areas of epidemiology, environmental health, health policy, community assessment, and international health are included in the course.

321 BHI Introduction to eHealth (2 credit hours)

The course outlines the current practices and developments in the field of e-Health. It highlights the use of advanced technology to achieve provision of better quality healthcare services. The course provides an outline of using health applications like electronic health record software, clinical decision support systems, Telemedicine, mHealth and patient monitoring systems. It also describes the use of standards for the purpose of electronically integrating health services.

322 BHI Health Records (3 credit hours)

The course provides an understanding about the structure, functions and organization of a health records department and how medical records are compiled and maintained by health care providers. It highlights the various methods of record keeping around the world, discusses various types of record retention describes policies and procedures essential for successful, safe and accurate record keeping.

323 BHI Medical Terminology (3 Credit hours)

This course introduces students about basic medical terminologies used in the healthcare. This course focuses on many components of a medical terms and how to break down the terms by simply knowing the meaning of suffix and prefix. It also helps students to learn how to combine word to make a meaningful medical term.

331 BHI Information Systems in Healthcare (2 credit hours)

The main focus in this course is on the processes of health information systems and how they interact for the safe and secure exchange of personal health information. In this course, students will study about basic concepts of information technology, database management system, Health information management.

312 BHI Introduction to Psychology (3 credit hours)

The course introduces students to the scientific study of human behavior. The students will learn about the history of psychology, current patterns and theories, research methods, and statistical techniques. The goals of this course are to help acquire current scientific knowledge of theories, methods, and scientific findings from the field of psychology and an understanding of the importance of critical thinking when evaluating psychological material.

321 HSM Essentials of Health Economics (2 credit hours)

Students will learn about the issues healthcare market environment is facing and how to ideally deal with them. The course will briefly cover the concepts of equity, principles of macroeconomics and microeconomics, relationship between economics and healthcare development, basic concept of demand and supply (law of demand and supply).

332 BHI Computer Applications 1(2 credit hours)

This course is designed to enhance the knowledge and skills of the participants in computer applications. Appropriate software for Introduction of computers, classifications of computers, components of digital computers will be taught. Students will also perform activities using integrated software programs.

341 BHI Introduction to Database (3 credit hours)

This course is intended to provide students with an understanding of the current theory and practice of database management systems. The course provides a solid technical overview of database management systems, using a current database product as a case study. In addition to technical concerns, more general issues are emphasized.

342 BHI Health Data Classification and Coding Systems (4 credit hours)

The course describes in detail the disease and procedure classification using the International Classification of Disease (ICD9 & ICD 10) Clinical Modification and Current Procedural Terminology (CPT) systems. This course also focuses briefly on process of medical insurance, billing and reimbursement. The students practice in the labs by applying basic principles of coding healthcare data using various components of the coding system. The AHIMA virtual lab codes are being used for practical purposes.

421 BHI Communication Skills (3 credit hours)

In this course the students will be familiarized about the characteristics of good communication skills and the 7Cs of communication i.e. completeness, conciseness, consideration, concreteness, clarity, courtesy, correctness. It also describes the barriers of communication and how to overcome these barriers.

451 BHI Research Methodology and Report Writing (3 credit hours)

The course will provide the students with the understanding of research concepts with the exploration of key aspects. The students will be introduced the elements of research process within qualitative, quantitative and mixed approaches. Students will utilize their theoretical understandings of the course which will assist them in writing the research document.

432 BHI Quality and Performance Improvement (2 credit hours)

This course is designed to give the student an introduction to the broad topic of quality management and improvement in the health care delivery performance. The quality assurance models, plan-do-check-act cycle, principles of quality, roles and responsibilities will be discussed while following the NCAAA guidelines.

423 BHI Financial Accounting (2 credit hours)

The course introduces the students to the principles of financial accounting and provides an insight into the concepts and uses of financial accounting information in context of a business environment. The course aims to provide the students a foundation for developing their skills in interpreting financial statements through practical training sessions.

424 BHI Ethical and Legal Aspects in Health Informatics (2 credit hours)

This course is designed to give the students a brief introduction about the major ethical and legal issues in health informatics; and laws and regulations for these issues, like Liability Law, Privacy and confidentiality rules, and HIPPA guidelines. Students will examine the trends in health informatics which may impact privacy rules.

433 BHI Computer Applications 2 (3 credit hours)

This course is designed to understand the operational basics of personal computers. Students will be covering the basic concepts in Computer Hardware, Software, Operating Systems, Databases, as well as the usage of the Internet and conversion of Microsoft file format into various other file formats. This is a complete lab based course where students will learn these applications by working on class assignments in the lab.

443 BHI Data Mining and Data Warehouse (2 credit hours)

The course addresses the concepts, skills, methodologies, and models of data warehousing. Students will be taught techniques of designing data warehouses for various business domains, and covers concepts for potential uses of the data warehouse and other data repositories in mining opportunities.

425 BHI Hospital Statistics (2 credit hours)

This course includes instructions on how to understand, manage and manipulate the hospital related data. Students will be taught as to how the health records are the primary source of data used in compiling health care statistics and the implications of collection, analysis, interpretation and presentation of statistical data.

434 BHI Systems Analysis and Design Methodology (3 credit hours)

This course introduces the evolving methodologies for the analysis, design, and development of an information system in healthcare. The course covers the important concepts and theories of systems analysis and designing, organizational structure, human computer interaction, and information processing; role of information systems analyst in an organization, structured analysis and modeling techniques, object oriented analysis and design, as well as unified modeling language.

435 BHI Network Architecture and Security Issues (3 credit hours)

This course covers mini-cases to develop a network security context. This course presents network and network security architecture viewpoints for selected security issues, including various security mechanisms, different layers of wired/wireless security protocols, different types of security attacks and threats and their countermeasures or mitigation.

444 BHI Database Management Systems (3 credit hours)

An introduction to computer databases examines the basic functions and capabilities of database management systems (DBMS). Emphasis is placed on the use of DBMS in solving information processing problems which will include database design case studies as well as SQL programming assignments. A class project may be assigned to each team. The students will be trained to develop the database system using CASE tools; and familiar with what it means to develop and implement a DBMS in an organization.

452 BHI Project Management (3 credit hours)

The course uses the project life cycle as the organizational guideline, and contents will cover the whole process of project management, including project initiation, project planning, project implementation and project termination. Students will study the characteristics of project and project management, look at how to define a project, how to organize a project, how to plan a project, how to implement, trace and control a project, and how to terminate and post-evaluate a project.

453 BHI Professional Practice (2 credit hours)

This course provides the opportunity to students to evaluate their strengths and weaknesses prior to stepping in professional life. The students will be assigned one day in a week for a visit to a healthcare facility to get familiar with the health information management tasks. By the end of the course students will submit a research proposal through discussions with allotted research coordinator.

STAFF AND CONTACT DETAILS

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CALENDAR AND TIMETABLE

The academic calendar is available to view at any time on the university website.

Through your online portal you'll be able to see exactly where and when each of your lectures, practical and other course-related activities for the forthcoming term are due to take place.

If you have any issues with your timetable, please report them to the Program coordinator.

ASSESSMENT

You'll be assessed throughout the semester through quizzes, academic essay assignments, presentations and class participation. Mid-term exam will be conducted in seventh or eighth week and final exam at the end of semester.

Students are required to submit the assignments and course work in the given time.

ACADEMIC ADVISING

Every student will be assigned an academic advisor who will support the student's educational and career success. Advisors will provide you guidance on academic policies and regulations, post-graduate opportunities, and other resources available on-campus that offer academic and personal support.

Approved By:

Abdulrahman Jabour PhD

Department Head/ V.Dean: _____

Signature:  _____