University Vice-Presidency of Academic Affairs

College of Health Sciences

Department of Health Informatics

Academic Study Plan
Bachelor of Science in Health Informatics

August 2025

Program Definition and General Information

1.1 Program Name and Qualification:

Bachelor of Science in Health Informatics

1.2 Number of Credit Hours Required to Complete the Program:

The study plan consists of 130 credit hours distributed as follows:

- University Requirements: 34 Credit hours

- College Requirements: 36 Credit hours

- Department Requirements: 54 Credit hours

- Elective Requirements: 6 Credit hours

1.4 Employment Fields for Program Graduates:

Graduates of this program can be employed or participate in many fields including, but not limited to:

- E-health /Health Informatics

- Health Information Systems Management

- Public Healthcare Systems

- Management, Planning, and Implementation of Health Information Projects

- Electronic Medical/Health Records

- Education in Health / Medical E-learning

- Health Database Management

1.5 Field Experience (Internship Period):

12 weeks of training at a selected healthcare institution according to the specialization. During this training period, the student will apply what they have learned under the supervision of both onsite supervisors and a coordinator from the College of Health Sciences. Students will be evaluated in each department, and completing this training period is mandatory for graduation and obtaining the bachelor's degree. The internship is done after successfully completing all courses in the study plan.

1.6 Special Admission Requirements for the Program:

- The applicant must hold a high school diploma with competitive admission based on the high school certificate (scientific specialization).

- Completion of the first year (preparatory year) at the Saudi Electronic University.

- TOEFL or STEP certificate.

1.7 Program Supervisor:

Head of the Health Informatics Department

Program structure by years:

First Year

First Semester

Course Code	Course Title	Credit Hours	Pre-requisites	Co-requisites
ENG001	English Language Skills	8		
CS001	Computer skills	3		
COMM101	Communication Skills	2		
Total		**13**		

Second Semester

Course Code	Course Title	Credit Hours	Pre-requisites	Co-requisites
ENG102	English Language Skills	8		
MATH001	Introduction to Mathematics	3		
CI001	Academic Skills	2		
Total		**13**		

Second Year

Third Semester

Course Code	Course Title	Credit Hours	Prerequisite
BIO101	Basic Medical Terminology	3	PYP
HCM101	Health Care Management	3	PYP
HCM102	Organizational Behavior	3	PYP
PHC121	Introduction to Biostatistics	3	PYP
IT231	Introduction to IT and IS	3	PYP
IT232	Object Oriented Programming	3	PYP
Total		**18**	

Forth Semester

Course Code	Course Title	Credit Hours	Prerequisite
BIO102	Introduction to Anatomy and Physiology	3	BIO101
IT244	Introduction to Database	3	IT232
IT245	Data Structure	3	IT232
PHC131	Introduction to Epidemiology	3	PHC121
HCM113	Health Policy and Saudi Healthcare System	3	HCM101
ISLM101	Introduction to Islamic Culture I	2	PYP
Total		**17**	

Third Year

Fifth Semester

Course Code	Course Title	Credit Hours	Prerequisite
PHC212	Concepts of Health Education and Promotion	3	BIOL101
IT351	Computer Networks	3	IT231
IT352	Human Computer Interaction	3	IT231-IT245
HCI111	Introduction to Health informatics	3	PYP
ISLM102	Prof. Conduct & Ethics in Islam	2	
IT353	System Analysis and Design	3	IT245
Total		**17**	

Sixth Semester

Course Code	Course Title	Credit Hours	Prerequisite
HCM213	Financial Management for Healthcare	3	HCM101
PHC215	Healthcare Research	3	PHC131
IT362	IT Project Management	3	IT353
PHC216	Ethics & Regulations in Healthcare	3	HCM113
HCI112	Electronic Health Records	3	HCI111 - IT231
IT361	Web Technologies	3	IT352 - IT244
Total		**18**	

Fourth Year

Seventh Semester

Course Code	Course Title	Credit Hours	Prerequisite
IT475	Decision Support Systems	3	IT244
IT476	IT Security & Policies	3	IT351
HCI214	Consumer Health Informatics	3	HCI112
ISLM103	Islamic Economic System	2	
HCI213	Medical Coding and Billing	3	HCI111 - HCI112
PHC312	Health Communications	3	PHC216
Total		**17**	

Eighth Semester

Course Code	Course Title	Credit Hours	Prerequisite
HCI315	Telehealth and Telemedicine	3	HCI213
HCI316	E-Health	3	HCI214
HCI314	Public Health Informatics	3	HCI213
ISLM104	Social System and Human Rights	2	
xxx	Elective 1	3	PHC312 - HCI213 - HCI214
xxx	Elective 2	3	PHC312 - HCI213 - HCI214
Total		**17**	

Elective courses:
Students must register two courses from the elective course listed below

Course Code	Course Title	Credit Hours	Prerequisite
IT487	Mobile Application development	3	PHC312 - HCI213 - HCI214
IT364	IT Innovation and Entrepreneurship	3	
IT485	IT Professional Ethics in IT	3	
ECOM101	E-Commerce	3	
PHC101	Introduction to Public Health	3	
PHC151	Environmental Health	3	
PHC261	Occupational Health	3	
PHC273	Introduction to Mental Health	3	
PHC311	Global Health	3	
Total		**6**	