

# HEALTH INFORMATICS (MS) ONLINE

Program Requirements	Quarter Hours
Introductory Courses	4
Degree Requirements	48
Total hours required	48-52

## Learning Outcomes

- Identify and analyze elements of a sociotechnical health system.
- Define and evaluate the quality and effectiveness of a health informatics technology.
- Accurately identify and analyze elements of the U.S. health care financial system.
- Conduct a systems analysis for a healthcare problem.
- Identify errors that affect patient safety and develop solutions to promote safer systems.
- Identify features of a functioning health information exchange.

## Degree Requirements

### Course Requirements

No Introductory Course may be substituted for any other course at any level.

### Introductory Courses

Course	Title	Quarter Hours
IT 403	STATISTICS AND DATA ANALYSIS	4

Introductory courses may be waived for any of the following conditions:

- The student has the appropriate course work to satisfy an Introductory Course.
- The student has appropriate and verified professional experience to satisfy an Introductory Course.
- If an exam is available, the student passes a Graduate Assessment Examination (GAE) in the Introductory Course area.

### Foundation Courses

Course	Title	Quarter Hours
HIT 421	HEALTH INFORMATICS	4
MGT 559	HEALTH SECTOR MANAGEMENT	4
HIT 451	ACCOUNTING AND FINANCIAL MANAGEMENT IN HEALTHCARE	4
IS 421	SYSTEMS ANALYSIS AND DESIGN	4
IS 451	DATABASE DESIGN FOR INFORMATION SYSTEMS (FORMERLY CSC 451)	4
HIT 422	SYSTEM DESIGN FOR HEALTH CARE	4
HIT 440	HEALTH INFORMATION EXCHANGE AND NETWORKING	4

## Major Elective Courses

Students must take 20 credit hours of Major Elective courses selected among a list of selected areas below. There is no restriction on the

number of areas from which electives may be selected. Students may choose to take the Major Elective courses from a single area or from multiple areas, depending on their career interests.

### Database Processing

Course	Title	Quarter Hours
DSC 450	DATABASE PROCESSING FOR LARGE-SCALE ANALYTICS <sup>1</sup>	
CSC 452	DATABASE PROGRAMMING <sup>1</sup>	
IS 549	DATA WAREHOUSING	
IPD 451	BIG DATA AND NOSQL PROGRAM	

<sup>1</sup> Courses require programming experience with Python.

### Analytics

Course	Title	Quarter Hours
DSC 423	DATA ANALYSIS AND REGRESSION	
DSC 424	ADVANCED DATA ANALYSIS	
DSC 441	FUNDAMENTALS OF DATA SCIENCE	
DSC 465	DATA VISUALIZATION	
DSC 480	SOCIAL NETWORK ANALYSIS	
CSC 575	INTELLIGENT INFORMATION RETRIEVAL	
MKT 798	SPECIAL TOPICS (Health Care Data Analysis Topic) <sup>1</sup>	
MKT 798	SPECIAL TOPICS (Service Design & Patient Experience Topic) <sup>1</sup>	

<sup>1</sup> Student must take only sections of MKT 798 with the topics specified above.

### Enterprise Management

Course	Title	Quarter Hours
ECT 424		
HIT 511	HEALTHCARE MANAGEMENT IN NON-HOSPITAL SETTINGS	
HTHC 515	INTRO TO HEALTH COMMUNICATION	
IS 430	FUNDAMENTALS OF IT PROJECT MANAGEMENT	
IS 505	BUSINESS CONTINUITY/DISASTER RECOVERY THEORIES AND STRATEGIES	
IS 560		
MGT 798	SPECIAL TOPICS (Managerial & Marketing Epidemiology) <sup>1</sup>	
NET 478	INFORMATION STORAGE AND MANAGEMENT (FORMERLY TDC 478)	

<sup>1</sup> Student must take only sections of MKT 798 with the topics specified above.

### Innovations in Health Care

Course	Title	Quarter Hours
HIT 430	ELECTRONIC HEALTH RECORDS	
HCI 440	INTRODUCTION TO USER-CENTERED DESIGN	
HCI 512	INFORMATION VISUALIZATION AND INFOGRAPHICS	
HIT 590	TOPICS IN HEALTH INFORMATICS	
MGT 590	MANAGEMENT OF INNOVATION AND TECHNOLOGICAL CHANGE	

### Practicum Courses

Course	Title	Quarter Hours
CSC 599	INDEPENDENT STUDY <sup>1</sup>	
CSC 697	GRADUATE INTERNSHIP	

<sup>1</sup> CSC 599 should be taken in two consecutive quarters, 2 credit hours each quarter.

### Security Management

Course	Title	Quarter Hours
CSEC 440	INFORMATION SECURITY MANAGEMENT (FORMERLY CNS 440)	
HIT 515	HEALTHCARE LAW	

### Degree Requirements

Students in this degree program must meet the following requirements:

- Complete a minimum of 48 graduate credit hours in addition to any required introductory courses of the designated degree program.
- Complete all graduate courses and requirements listed in the designated degree program.
- Earn a grade of C- or better in all courses of the designated degree program.
- Maintain a cumulative GPA of 2.5 or higher.
- Students pursuing a second (or more) graduate degree may not double count or retake any course that applied toward the completion of a prior graduate degree. If a required course in the second degree was already completed and applied toward a previous degree, the student must meet with a faculty advisor to discuss a new course to be completed and substituted in the new degree. This rule also applies to cross-listed courses, which are considered to be the same course but offered under different subjects.
- Students pursuing a second master's degree must complete a minimum of 48 graduate credit hours beyond their first designated degree program in addition to any required introductory courses in their second designated degree program.

Students with a GPA of 3.9 or higher will graduate with distinction.

For DePaul's policy on repeat graduate courses and a complete list of academic policies, see the DePaul Graduate Handbook.