

# Healthcare Informatics AAS DEGREE

## Program Overview

The Healthcare Informatics program integrates education from health information, computer science and information technology.

Healthcare informatists work and support healthcare organizations in a multifaceted methodology by providing support directly related to industry practices and procedures regarding complex electronic health record systems.

Responsibilities may include supporting tasks and roles relating to data analysis, database design and administration, support of numerous software applications, implementation of data standards, knowledge of interoperability, and maintenance of clinical decision support protocols supported by evidence based medicine, routine system upgrades and preservation, system architecture, hardware, system networking, and legal knowledge to support information privacy and security.

## Career Opportunities

Individuals enrolled in the program will obtain a broad body of knowledge of health information, computer science, and information technology that will allow them to become employed in many capacities within a healthcare system. Employment opportunities may include: data and information technology support personnel, analytics staff, data standards personnel, documentation integrity specialists, health information privacy and security personnel, electronic health record trainer or educator, implementation and data systems upgrade specialist and may include supervisory or leadership roles based on skill and ability.

Graduates of the Healthcare Informatics degree will find positions in various health care settings such as private physician offices, clinics, specialty clinics, hospitals, long-term care facilities, and rehabilitation facilities. Employment can also be found in government offices, the insurance industry, dental and chiropractic clinics, and information technology suppliers/vendors.

According to the Bureau of Labor Statistics, Computer User Support Specialists Occupations are anticipated to increase by +/- 12.8% between 2014-2024 ([www.bls.gov](http://www.bls.gov)).

## Program Outcomes

1. Graduates will apply policies and procedures to assure the accuracy and integrity of information management based systems directly related to healthcare.
2. Graduates will use specialized software in the completion of health informatics and information management processes that include, working with practice management systems, data abstraction and analytics, record tracking, release of information, registries, and quality improvement initiatives.
3. Graduates will apply knowledge and skill set to manage and maintain healthcare related information systems.
4. Graduates will apply policies and procedures to comply with the changing regulations among various information systems within healthcare.
5. Graduates will possess a knowledge base, which will allow them to find employment in the healthcare industry.

## Program Faculty

Jennifer Anglin [jennifer.anglin@saintpaul.edu](mailto:jennifer.anglin@saintpaul.edu)

## Program Requirements

- Check off when completed
- All classes must be successfully completed with grade "C" or better.

Course	Cr
<input type="checkbox"/> CSCI 1410 Computer Science and Information Systems . . . . .	4
<input type="checkbox"/> CSCI 1440 Networking Fundamentals . . . . .	4
<input type="checkbox"/> CSCI 1523 Introduction to Computing and Programming Concepts . . . . .	4
<input type="checkbox"/> CSCI 1550 Database Management Fundamentals . . . . .	4
<input type="checkbox"/> CSCI 2410 Management Information Systems. . . . .	3
<input type="checkbox"/> CSCI 2570 Machine Architecture and Organization . . . . .	4
<input type="checkbox"/> MEDS 1420 Health Information Foundations. . . . .	3
<input type="checkbox"/> MEDS 1470 Anatomy & Physiology/ Medical Office . . . . .	3
<input type="checkbox"/> MEDS 1480 Medical Terminology . . . . .	3
<input type="checkbox"/> MEDS 1560 Computerized Health Information . . . . .	3
<input type="checkbox"/> MEDS 2432 Alternative Health Record Systems . . . . .	2
<input type="checkbox"/> MEDS 2434 Legal and Ethical Aspects of Health Information . . . . .	2
<input type="checkbox"/> MEDS 2440 Supervision of Health Information . . . . .	2
<input type="checkbox"/> MEDS 2510 Quality Management and Health Statistics . . . . .	3
<b>Subtotal. . . . .</b>	<b>44</b>

*Information is subject to change.  
This Program Requirements Guide is not a contract.*

## General Education/MnTC Requirements Cr

- Refer to the Minnesota Transfer Curriculum Course List for each Goal Area
- Goal 1: Communication . . . . .7  
ENGL 1711 Composition 1 – 4 cr  
COMM 17XX – 3 cr
  - Goal 4: Mathematical/Logical Reasoning. . . . .3  
MATH 1730 College Algebra (or higher) – 3 cr
  - Goal 5: History, Social Science and Behavioral Sciences . . . . .3
  - Goal 6: Humanities and Fine Arts. . . . .3
- General Education Requirements . . . . . 16**

**Total Program Credits . . . . . 60**

## Program Start Dates

Fall, Spring, Summer-limited course offerings

## Course Sequence

The course sequence listed on the back of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Faculty with questions.

*See back of this guide for Course Sequence and Transfer Opportunities*

### Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

**Reading:** Score of 78+ or grade of "C" or better in READ 0722

**Writing:** Score of 78+ or grade of "C" or better in ENGL 0922

**College Level Mathematics:** Score of 50+ or grade of "C" or better in MATH 0920

**Keyboarding Skills:** Minimum of 40 WPM with 3 errors or less or a grade of "C" or better in BTEC 1400.

**Computer Skills:** Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

**Assessment Results and Prerequisites:** Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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## Healthcare Informatics AAS DEGREE *(continued)*

### Course Sequence for Full-Time Schedule

The following sequence is recommended for full-time students. Students should consult with the program advisor to develop an appropriate educational plan.

All classes must be successfully completed with a grade of "C" or better.

#### First Semester (Year 1)

CSCI 1410 Computer Science and Information Systems . . . . .	4
MEDS 1420 Health Information Foundations . . . . .	3
MEDS 1470 Anatomy and Physiology of the Medical Office . . . . .	3
MEDS 1480 Medical Terminology . . . . .	3
Goal 1: COMM 17XX . . . . .	3
<b>Total Semester Credits . . . . .</b>	<b>16</b>

#### Second Semester (Year 1)

CSCI 1523 Introduction to Computing and Programming Concepts . . . . .	4
CSCI 1550 Database Management Fundamentals . . . . .	4
MEDS 1560 Computerized Health Information . . . . .	3
Goal 1: ENGL 1711 Composition 1 . . . . .	4
<b>Total Semester Credits . . . . .</b>	<b>15</b>

#### Third Semester (Year 2)

CSCI 2410 Management Information Systems . . . . .	3
CSCI 2570 Machine Architecture and Organization . . . . .	4
MEDS 2432 Alternative Health Record Systems . . . . .	2
MEDS 2434 Legal and Ethical Aspects of Health Information . . . . .	2
Goal 4: MATH 1730 College Algebra or higher . . . . .	3
<b>Total Semester Credits . . . . .</b>	<b>14</b>

#### Fourth Semester (Year 2)

CSCI 1440 Networking Fundamentals . . . . .	4
MEDS 2440 Supervision of Health Information . . . . .	2
MEDS 2510 Quality Management and Health Statistics . . . . .	3
Goal 5: History, Social Sciences, and Behavioral Sciences . . . . .	3
Goal 6: Humanities and Fine Arts . . . . .	3
<b>Total Semester Credits . . . . .</b>	<b>15</b>

**Total Program Credits . . . . . 60**

### Course Sequence for Part-Time Schedule

The following sequence is recommended for part-time students. Students should consult with the program advisor to develop an appropriate educational plan.

All classes must be successfully completed with a grade of "C" or better.

#### First Semester (Year 1)

CSCI 1410 Computer Science and Information Systems . . . . .	4
MEDS 1470 Anatomy and Physiology of the Medical Office . . . . .	3
MEDS 1480 Medical Terminology . . . . .	3
<b>Total Semester Credits . . . . .</b>	<b>10</b>

#### Second Semester (Year 1)

CSCI 1523 Introduction to Computing and Programming Concepts . . . . .	4
MEDS 1420 Health Information Foundations . . . . .	3
Goal 1: COMM 17XX . . . . .	3
<b>Total Semester Credits . . . . .</b>	<b>10</b>

#### Third Semester (Year 2)

MEDS 1560 Computerized Health Information . . . . .	3
MEDS 2432 Alternative Health Record Systems . . . . .	2
Goal 1: ENGL 1711 Composition 1 . . . . .	4
<b>Total Semester Credits . . . . .</b>	<b>9</b>

#### Fourth Semester (Year 2)

CSCI 1550 Database Management Fundamentals . . . . .	4
MEDS 2440 Supervision of Health Information . . . . .	2
Goal 4: MATH 1730 College Algebra or higher . . . . .	3
<b>Total Semester Credits . . . . .</b>	<b>9</b>

#### Fifth Semester (Year 3)

CSCI 2410 Management Information Systems . . . . .	3
CSCI 2570 Machine Architecture and Organization . . . . .	4
MEDS 2434 Legal and Ethical Aspects of Health Information . . . . .	2
Goal 5: History, Social Sciences, and Behavioral Sciences . . . . .	3
<b>Total Semester Credits . . . . .</b>	<b>12</b>

#### Sixth Semester (Year 3)

CSCI 1440 Networking Fundamentals . . . . .	4
MEDS 2510 Quality Management and Health Statistics . . . . .	3
Goal 6: Humanities and Fine Arts . . . . .	3
<b>Total Semester Credits . . . . .</b>	<b>10</b>

**Total Program Credits . . . . . 60**

### Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institutions for the baccalaureate degree programs listed below.

For more information please go to [saintpaul.edu/Transfer](http://saintpaul.edu/Transfer).

#### Healthcare Informatics AAS

BA	Health Care Administration Concordia University, St. Paul
BA	Individualized Studies Metropolitan State University
BS	Healthcare and Human Service Management Saint Mary's University, Twin Cities Campus