

# Health Informatics and Information Management, B.S.

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## Degree Offered

- Bachelor of Science

## Nature of the Program

Health Informatics and Information Management (HIIM) integrates business, science, and information technology. The Bachelor of Science (BS) program is designed for students who are hands-on learners interested in having a direct and valuable impact on patients without being in the physical clinic. The program strives to graduate students who understand current and emerging healthcare industry trends and issues; who can develop, communicate and manage resources and solutions to address healthcare industry challenges; and who have the skills and experience to improve overall quality and outcomes of the healthcare system.

Students gain valuable experience with advanced healthcare applications currently in use through the internet-based V-Lab, developed by the American Health Information Management Association (AHIMA), and through three required professional practice experiences (PPE). Typically, students are required to complete 400 hours of PPE to fulfill program requirements and be eligible to graduate. However, non-traditional students holding a significant level of work experience and/or certification relevant to HIIM may be eligible to create a professional portfolio to reduce the total amount of PPE hours needed. Qualifying experiences will be reviewed on a case-by-case basis.

The program - which is the first and only baccalaureate degree of its kind in West Virginia - is offered via the HyFlex format, with all HIIM classes offered face-to-face and online during the class time and also recorded for viewing later. HyFlex is a student-directed, multi-option approach to learning which allows each student to decide on a day-to-day basis how to participate in each class and activity.

Students graduating with this degree are prepared for leadership roles in a wide variety of job settings, or for graduate study in fields related to healthcare management, data analytics and informatics, or business. Career opportunities are available in the areas of compliance and risk management; medical and health services management; healthcare privacy and security; health informatics and data analytics; clinical documentation improvement; information governance; operations and administration; and revenue cycle management (clinical coding and billing).

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## ADMINISTRATION

### PROGRAM DIRECTOR

- Sally Lucci - MS, RHIA, CCA (Geneva College)  
Assistant Professor

### ASSISTANT PROGRAM DIRECTOR

- Megan McDougal - MS, RHIA, CHTS-IM (College of Saint Scholastica)  
Assistant Professor

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## FACULTY

### ASSISTANT PROFESSORS

- Sally Lucci - MS, RHIA, CCA (Geneva College)  
Program Director
- Megan McDougal - MS, RHIA, CHTS-IM (College of Saint Scholastica)  
Assistant Program Director
- Ashley Simmons - MBA, RHIA, CCS, CDIP (West Liberty University)
- Danielle Sollenberger - MS (University of North Carolina at Greensboro)

### ADJUNCT FACULTY

- Nicole Ludwig - MS, PA-C (Seton Hill University)
- Zach Otey - MS, RHIA (Marshall University)

## Admissions for 2026-2027

First-time freshmen and transfer applicants who meet the WVU minimum admission requirements are admitted to the program.

Current WVU students must have a 2.0 overall grade point average to be admitted to the program.

Please see details at <http://admissions.wvu.edu/how-to-apply> (<http://admissions.wvu.edu/how-to-apply/>).

Major Code: 8320

## General Education Foundations

Please use this link to view a list of courses that meet each GEF requirement. (<http://registrar.wvu.edu/gef/>)

NOTE: Some major requirements will fulfill specific GEF requirements. Please see the curriculum requirements listed below for details on which GEFs you will need to select.

Code	Title	Hours
<b>General Education Foundations</b>		
F1 - Composition & Rhetoric		3-6
ENGL 101 & ENGL 102 or ENGL 103	Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research Accelerated Academic Writing	
F2A/F2B - Science & Technology		4-6
F3 - Math & Quantitative Reasoning		3-4
F4 - Society & Connections		3
F5 - Human Inquiry & the Past		3
F6 - The Arts & Creativity		3
F7 - Global Studies & Diversity		3
F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree)		9
Total Hours		31-37

Please note that not all of the GEF courses are offered at all campuses. Students should consult with their advisor or academic department regarding the GEF course offerings available at their campus.

## Degree Requirements

Code	Title	Hours
University Requirements		26
Program Requirements		22
Health Informatics and Information Management Major Requirements		72
Total Hours		120

## University Requirements

Code	Title	Hours
General Education Foundations (GEF) 1, 2, 3, 4, 5, 6, 7, and 8 (31-37 Credits)		
Outstanding GEF Requirements 1, 4, 5, 6, 7, and 8		24
HIIM 191	First-Year Seminar	1
General Electives		1
Total Hours		26

## Program Requirements

Code	Title	Hours
BIOL 102 & 102L	General Biology 2 and General Biology 2 Laboratory (GEF 2)	4
CS 101	Intro to Computer Applications (GEF 8)	4
STAT 111	Understanding Statistics (GEF 3)	3
PALM 200	Medical Terminology	3
PALM 205 & PALM 206	Introduction to Human Anatomy and Human Anatomy Laboratory	4

PSIO 241	Elementary Physiology	4
Total Hours		22

## Health Informatics and Information Management Major Requirements

Code	Title	Hours
A grade of C- or higher must be earned in all graded courses required for the major.		
HIIM 110	Introduction to U.S. Healthcare Delivery System	3
HIIM 112	Fundamentals of Health Information Management	3
HIIM 231	Health Information Management Applications	2
HIIM 233	Health Informatics and Information Management Disease Fundamentals and Management	3
HIIM 235	Coding and Classification of Diseases	3
HIIM 237	Introduction to Professional Practice	1
HIIM 240	Classification of Healthcare Procedures	3
HIIM 242	Healthcare Reimbursement and Revenue Cycle Management	2
HIIM 244	Principles of Health Informatics and Information Management Quality Management	2
HIIM 246	Fundamentals of Clinical Documentation Improvement	3
HIIM 247	Registries in Healthcare	2
HIIM 248	Health Informatics and Information Management Professional Practice 1	1
HIIM 351	Healthcare Data Privacy, Confidentiality, and Security	3
HIIM 353	Healthcare Information System Analysis and Design	3
HIIM 355	Health Informatics and Information Management Legal Issues	3
HIIM 360	Application of Healthcare Classification Systems	3
HIIM 362	Data Governance in Healthcare Systems	3
HIIM 364	Healthcare Data Design	3
HIIM 366	Healthcare Analytics 1	2
HIIM 368	Health Informatics & Information Management Professional Practice 2	1
HIIM 471	Health Informatics & Information Management Research	3
HIIM 473	Healthcare Analytics 2	2
HIIM 475	Project Management in Health Informatics & Information Management	3
HIIM 477	Leadership in Health Informatics & Information Management	3
HIIM 480	Health Informatics & Information Management Administration	3
HIIM 482	Health Informatics and Information Governance	3
HIIM 484	Capstone in Health Informatics & Information Management	3
HIIM 486	Advanced Professional Practice in Health Informatics & Information Management	3
Total Hours		72

## Suggested Plan of Study

### First Year

Fall	Hours	Spring	Hours
HIIM 191		1 ENGL 101	3
BIOL 102 & 102L (GEF 2)		4 PALM 205 & PALM 206	4
CS 101 (GEF 8)		4 HIIM 110	3
PALM 200		3 HIIM 112	3
STAT 111		3 GEF Requirements (4, 5, 6, 7 or 8)	3
		15	16

### Second Year

Fall	Hours	Spring	Hours
ENGL 102		3 HIIM 240	3
HIIM 231		2 HIIM 242	2
HIIM 233		3 HIIM 244	2
HIIM 235		3 HIIM 246	3

HIIM 237		1 HIIM 247	2
PSIO 241		4 HIIM 248	1
		General Elective	1
		16	14
<b>Third Year</b>			
<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
HIIM 351		3 HIIM 360	3
HIIM 353		3 HIIM 362	3
HIIM 355		3 HIIM 364	3
GEF Requirements (4, 5, 6, 7, or 8)		6 HIIM 366	2
		HIIM 368	1
		GEF Requirement (4, 5, 6, 7 or 8)	3
		15	15
<b>Fourth Year</b>			
<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
HIIM 471		3 HIIM 480	3
HIIM 473		2 HIIM 482	3
HIIM 475		3 HIIM 484	3
HIIM 477		3 HIIM 486	3
GEF Requirement (4, 5, 6, 7 or 8)		3 GEF Requirement (4, 5, 6, 7 or 8)	3
		14	15

Total credit hours: 120

## Accelerated Program

- B.S. Health Informatics and Information Management and M.H.A. Health Administration (p. 4)

## Accelerated Bachelor's/Master's Degree Requirements

Students must fulfill all degree requirements for the B.S. in Health Informatics and Information Management, including earning a minimum grade of C- in all HIIM courses required for the major and a 3.0 GPA average in all 400 level HIIM courses and all HPML courses. In addition to all the requirements of the M.H.A in Health Administration, students must also meet all the requirements of the ABM.

## ABM Requirements

Code	Title	Hours
HIIM Undergraduate Coursework		107
Shared Bachelor's/Master's Coursework		14
MHA Graduate Coursework		21
Total Hours		142

## Shared Coursework Curriculum Requirements

Code	Title	Hours
HIIM 366	Healthcare Analytics 1 *	2
HIIM 473	Healthcare Analytics 2 *	2
HIIM 477	Leadership in Health Informatics & Information Management *	3
HIIM 480	Health Informatics & Information Management Administration *	3
HPML 555	Health Services Project Management	3
HPML 582	Managing Quality Improvement in Healthcare	3
HPML 596	Graduate Seminar	2
Total Hours		14

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ABM students are not required to take PUBH 540 or HPML 522 from the traditional Master's program. The SOPH accepts 10 hours of equivalent coursework from the HIIM program (HIIM 366, HIIM 473, HIIM 477, HIIM 480).

## Suggested Plan of Study

### First Year

Fall	Hours	Spring	Hours
HIIM 191		1 STAT 111 (GEF 3)	3
BIOL 102 (GEF 2)		3 PALM 205	3
BIOL 102L (GEF 2)		1 PALM 206	1
CS 101 (GEF 8)		4 HIIM 110	3
PALM 200		3 HIIM 112	3
ENGL 101 (GEF 1)		3 GEF 4, 5, 6, 7, or 8	3
		15	16

### Second Year

Fall	Hours	Spring	Hours
ENGL 102 (GEF 1)		3 HIIM 240	3
HIIM 231		2 HIIM 242	2
HIIM 233		3 HIIM 244	2
HIIM 235		3 HIIM 246	3
HIIM 237		1 HIIM 247	2
GEF 4, 5, 6, 7, or 8		3 HIIM 248	1
		PSIO 241	4
		15	17

### Third Year

Fall	Hours	Spring	Hours
HIIM 351		3 HIIM 360	3
HIIM 353		3 HIIM 362	3
HIIM 355		3 HIIM 364	3
GEF 4, 5, 6, 7, or 8		3 HIIM 366	2
GEF 4, 5, 6, 7, or 8		3 HIIM 368	1
GEF 4, 5, 6, 7, or 8		3 GEF 4, 5, 6, 7, or 8	3
		18	15

### Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
HIIM 471		3 HIIM 480		3 HPML 626	1
HIIM 473		2 HIIM 482		3	
HIIM 477		3 HIIM 484		3	
HPML 582		3 HPML 555		3	
HPML 596		1 HPML 596		1	
		12		13	1

### Fifth Year

Fall	Hours	Spring	Hours
HPML 510		3 HPML 523	3
HPML 556		3 HPML 601	3
HPML 575		3 HPML 659	3
HPML 696		1 HPML 696	1
		10	10

Total credit hours: 142

## Major Learning Outcomes

### BACHELOR OF SCIENCE IN HEALTH INFORMATICS AND INFORMATION MANAGEMENT (HIIM)

Students completing the degree will be able to:

#### **Data Structure, Content, and Information Governance**

- Ensure data integrity, privacy, and security of health record content

#### **Information Protection: Access, Disclosure, Archival, Privacy and Security**

- Recommend privacy and security strategies for health information.

#### **Informatics, Analytics, and Data use**

- Conduct research and perform data analysis on healthcare issues.
- Present findings using data visualization for decision-making.

#### **Revenue Cycle Management**

- Code health records using ICD-10-CM, ICD-10-PCS, and CPT classifications in accordance with official guidelines and policies.
- Verify that documentation in the health record supports the diagnosis and reflects the patient's prognosis, clinical findings, and discharge status.
- Evaluate revenue cycle processes and reimbursement methodologies.

#### **Health Law and Compliance**

- Comply with healthcare legal processes, policy, and compliance, using an ethical perspective.
- Analyze components of risk management, quality improvement, and health policy.

#### **Organizational Management and Leadership**

- Oversee fundamental and change leadership activities, such as performance improvement, financial processes, training needs, and project management.

#### **Professional Preparedness**

- Engage in 400 hours of unique, customized, professional practice experience.
- Create a professional portfolio.

#### **Accreditation**

The Health Information Management accreditor of West Virginia University is the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). The College's accreditation for Baccalaureate degree in Health Informatics and Information Management has been reaffirmed through 2029-2030. All inquiries about the program's accreditation status should be directed by mail to CAHIIM, 200 East Randolph Street, Suite 5100, Chicago, IL, 60601; by phone at (312) 235-3255; or by email at [info@cahiim.org](mailto:info@cahiim.org).