Health Information Technology

The Health Information Technology curriculum prepares individuals with the knowledge and skills to process, analyze, abstract, compile, maintain, manage and report health information. Graduates will

- supervise department functions,
- classify, code and index diagnoses and procedures,
- coordinate information for cost control, quality management, statistics, marketing and planning,
- monitor governmental and non-governmental standards,
- facilitate research,
- design system controls to monitor patient information security, and
- work with electronic health records and other technology as it becomes available.

Graduates of this program may be eligible to write the national certification examination to become a Registered Health Information Technician (RHIT). Employment opportunities include: hospitals, rehabilitation facilities, nursing homes, health insurance organizations, out-patient clinics, physicians' offices, hospice, mental health facilities, IT departments working with electronic health records, and electronic health record vendors.

For specific information about potential positions and wages in Health Information employment, visit the Central Piedmont Career Coach (https://cpcc.emsicc.com/programs/health-information-technology-academic-program-for-credit/198260?radius=&region=50%20Mile%20Radius) website.

Health Information Technology (A45360)

Program Accreditation

The Health Information Technology program at Central Piedmont is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

Admissions

- A high school diploma or equivalent is required for program admission.
- Complete an Admissions Application to Central Piedmont.
- Submit official high school transcripts and any official college transcripts (if applicable) to the Central Piedmont Student Records Office.
- Complete required placement testing.
- Meet with an academic advisor or counselor for preliminary counseling and interpretation of placement test scores.
- Take the Test of Essential Academic Skills (TEAS)
- This curriculum may be completed on a part-time or full-time basis. For more information, visit the Health Information Technology (http://www.cpcc.edu/health_sciences/health-information-technology) website.
- Attend a HIT Program Information Session prior to admission to the program. Visit the program website listed above for dates and times.
- Complete the HIT Program Admission Packet located at the program website link above.
- Upon admission to the program, students must take all courses as scheduled and sequenced.
- Progression in this program is dependent on satisfying course prerequisites, co-requisites and maintaining a grade of "C" or better for all courses in the curriculum.
- BIO 168, BIO 169, CIS 110, DBA 112, MED 121, and MED 122 must have been completed within the five years previous to registration for a HIT course for which they are prerequisites or co-requisites.
- Students re-entering the HIT program must successfully re-take any HIT courses taken five or more years prior to the re-entry point.
- Many courses have prerequisites or co-requisites; check the Courses section for details.
- In order to participate in Professional Practice Experiences at health care facilities, students are required to submit results of a North Carolina state or national criminal background check at their own expense.
- Students must complete a medical exam, drug test, provide record of immunizations, show proof of medical insurance, and carry Central Piedmont accident insurance. The student is responsible for the cost of medical exams, drug tests, immunizations, insurance and criminal background checks.

Notes

- The Health Information Technology Program is offered entirely online with the exception of Professional Practice Experience courses. Professional Practice Experience sites must be geographically accessible to our faculty to insure adequate supervision.
- In addition to tuition and textbooks, there are program-related costs. Professional Practice Experience courses requires a physical examination (including drug testing), updated immunizations and criminal background checks. Professional Practice Experience courses require travel to health care facilities that may be at a distance from the student's home.

Contact Information

The Health Information Technology Program is in the Health Sciences Division. For more information, visit the Health Information Technology (http://www.cpcc.edu/health_sciences/health-information-technology) website. For further assistance, contact the Health Sciences Admissions Clerk at 704.330.6958.

General Education Requirements

ENG 111	Writing and Inquiry	3.0
PSY 150	General Psychology	3.0
Select 3 credits of the following:		3.0
ENG 112	Writing and Research in the Disciplines	
ENG 113	Literature-Based Research	
ENG 114	Professional Research & Reporting	
COM 110	Introduction to Communication	3.0
or COM 231	Public Speaking	
Select 3 credits of the following:		3.0
MAT 110	Mathematical Measurement and Literacy	
MAT 143	Quantitative Literacy	
Select 3 credits of the following:		3.0
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	

HUM 120	Cultural Studies	
HUM 130	Myth in Human Culture	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	
Major Requirements		
HIT 110	Fundamentals of Health Information Management	3.0
HIT 112	Health Law and Ethics	3.0
HIT 114	Health Data Systems and Standards	3.0
HIT 210	Healthcare Statistics	3.0
HIT 214	CPT/Other Coding Systems	2.0
HIT 211	ICD Coding	4.0
HIT 216	Quality Management	2.0
HIT 280	Professional Issues	2.0
MED 121	Medical Terminology I	3.0
MED 122	Medical Terminology II	3.0
HIT 226	Principles of Disease	3.0
HIT 218	Management Principles in HIT	3.0
BIO 168	Anatomy and Physiology I	4.0
BIO 169	Anatomy and Physiology II	4.0
HIT 122	Professional Practice Experience I	1.0
HIT 124	Professional Practice Experience II	1.0
HIT 222	Prof Practice Exp III	2.0
CIS 110	Introduction to Computers	3.0
DBA 112	Database Utilization	3.0
HIT 215	Reimbursement Methodology	2.0
Technical Electives		
Take 2 credits of the following:		2.0
HIT 220	Health Informatics & EHRs	
HIT 221	Lifecycle of Electronic Health Record	
HIT 225	Healthcare Informatics	
HIT 227	Informatics Project Management	
Total Credits		74

No diplomas are offered in Health Information Technology.

Health Information Technology Certificate (C45360-C6)

Specialization in Practice Workflow & Information Management Redesign Specialist

This certificate is designed to prepare professionals for Health IT EHR workflow and design. Coursework includes fundamentals of healthcare, electronic health records, health care informatics and project management.

Employees in this role assist in reorganizing the work of a healthcare provider to take full advantage of health IT features and meaningful use of health IT to improve health and care.

Major Requirements		
HIT 110	Fundamentals of Health Information Management	3.0
HIT 114	Health Data Systems and Standards	3.0
HIT 216	Quality Management	2.0
HIT 221	Lifecycle of Electronic Health Record	3.0
HIT 225	Healthcare Informatics	4.0
HIT 227	Informatics Project Management	3.0
Total Credits		18

HIT 110. Fundamentals of Health Information Management. 3.0 Credits. Class-3.0. Clinical-0.0. Lab-0.0. Work-0.0
This course introduces Health Information Management (HIM) and its role in healthcare delivery systems. Topics include standards, regulations and initiatives; payment and reimbursement systems, healthcare providers and disciplines; and electronic health records (EHRs). Upon completion, students should be able to demonstrate an understanding of health information management and healthcare organizations, professions and trends.

HIT 112. Health Law and Ethics. 3.0 Credits. Class-3.0. Clinical-0.0. Lab-0.0. Work-0.0
This course covers legislative and regulatory processes, legal terminology, and professional-related and practice-related ethical issues. Topics include confidentiality; privacy and security policies, procedures and monitoring; release of information policies and procedures; and professional-related and practice-related ethical issues. Upon completion, students should be able to apply policies and procedures for access and disclosure of Protected Health Information and apply and promote ethical standards.

HIT 114. Health Data Systems and Standards. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-3.0. Work-0.0
This course covers concepts and techniques for managing and maintaining manual and electronic health records (EHR). Topics include structure and use of health information including data collection and analysis, data sources/sets, archival systems, and quality and integrity of healthcare data. Upon completion, students should be able to monitor and apply system-wide clinical documentation guidelines and comply with regulatory standards.

HIT 122. Professional Practice Experience I. 1.0 Credit. Class-0.0. Clinical-3.0. Lab-0.0. Work-0.0
This course provides supervised clinical experience in healthcare settings. Emphasis is placed on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices.
Corequisites: Take HIT 220

HIT 124. Professional Practice Experience II. 1.0 Credit. Class-0.0. Clinical-3.0. Lab-0.0. Work-0.0
This course provides supervised clinical experience in healthcare settings. Emphasis is placed on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices.

HIT 210. Healthcare Statistics. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0. Work-0.0
This course covers maintenance, compilation, analysis, and presentation of healthcare statistics and research protocols and techniques. Topics include basic statistical principles, indices, databases, registries, vital statistics, descriptive statistics, research protocol monitoring, Institutional Review Board processes, and knowledge-based research techniques. Upon completion, students should be able to apply, interpret, and present healthcare statistics and utilize research techniques to gather and interpret healthcare data.
Prerequisites: Take MAT 110 Minimum grade C
Corequisites: Take HIT 220

HIT 211. ICD Coding. 4.0 Credits. Class-2.0. Clinical-0.0. Lab-6.0. Work-0.0
This course covers ICD diagnostics and procedural coding conventions and guidelines for inpatient, outpatient and ambulatory care. Emphasis is placed on a comprehensive application of anatomy, physiology and interrelationships among organ systems. Upon completion, students should be able to accurately assign and sequence diagnostic and procedural codes for patient outcomes, statistical and reimbursement purposes.

HIT 214. CPT/Other Coding Systems. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0
This course covers application of principles and guidelines of CPT/HCPCS coding. Topics include clinical classification/nomenclature systems such as SNOMED, DSM, ICD-O and the use of encoders. Upon completion, students should be able to apply coding principles to correctly assign CPT/HCPCS codes.
Prerequisites: Take HIT 211 Minimum grade C

HIT 215. Reimbursement Methodology. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-2.0. Work-0.0
This course covers reimbursement methodologies used in all healthcare settings as they relate to national billing, compliance, and reporting requirements. Topics include prospective payment systems, billing process and procedures, chargemaster maintenance, regulatory guidelines, reimbursement monitoring, and compliance strategies and reporting. Upon completion, students should be able to perform data quality reviews to validate code assignment and comply with reimbursement and reporting requirements.

HIT 216. Quality Management. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0
This course introduces principles of quality assessment and improvement, and utilization, risk, and case management, in healthcare. Topics include Continuous Quality Improvement, and case management processes, data analysis/reporting techniques, credentialing, regulatory quality monitoring requirements, and outcome measures and monitoring. Upon completion, students should be able to abstract, analyze, and report clinical data for facility-wide quality management/performance improvement programs and monitor compliance measures.
Prerequisites: Take HIT 114 Minimum grade C
Corequisites: Take HIT 214 HIT 215 HIT 280

HIT 218. Management Principles in HIT. 3.0 Credits. Class-3.0. Clinical-0.0. Lab-0.0. Work-0.0
This course covers organizational management concepts as applied to healthcare settings. Topics include roles/functions of teams/committees, leadership, communication and interpersonal skills, designing and implementing orientation/training programs, monitoring workflow, performance standards, revenue cycles, and organizational resources. Upon completion, students should be able to apply management, leadership, and supervisory concepts to various healthcare settings.

HIT 220. Health Informatics & EHRs. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-2.0. Work-0.0
This course covers EHR systems, design, implementation and application. Topics include EHR, Informatics, speech & imaging technology, information/network security & integrity, data dictionaries, modeling and warehousing. Upon completion, students should be able to facilitate usage of electronic health record systems and other technologies.
Prerequisites: Take HIT 114 CIS 110 with a minimum grade of C
Take HIT 114 CIS 111 with a minimum grade of C

HIT 221. Lifecycle of Electronic Health Record. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0. Work-0.0
This course covers the system selection, design and implementation of an electronic health record (EHR) in integrated delivery networks. Topics include the system development life cycle, analysis of existing systems, required resources, and common resource constraints. Upon completion, students should be able to understand system development life cycles, analyze design and engineering, and make recommendations to improve efficiency of operations.
Prerequisites: Take HIT 110 HIT 114
Corequisites: Take HIT 225

HIT 222. Prof Practice Exp III. 2.0 Credits. Class-0.0. Clinical-6.0. Lab-0.0. Work-0.0
This course provides supervised clinical experience in healthcare settings. Emphasis is placed on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices.

HIT 225. Healthcare Informatics. 4.0 Credits. Class-3.0. Clinical-0.0. Lab-2.0. Work-0.0
This course covers data analysis to support decision making, patient care, and regulatory compliance. Topics include clinical terminology and vocabulary systems, data capture methodology, data presentation and reporting, and initiatives to improve the quality of patient care. Upon completion, students should be able to identify data elements and sets, analyze capture methodology in healthcare settings, analyze compliance issues and make improvement recommendations.
Prerequisites: Take HIT 110 HIT 114
Corequisites: Take HIT 221

HIT 226. Principles of Disease. 3.0 Credits. Class-3.0. Clinical-0.0. Lab-0.0. Work-0.0
This course covers disease etiology and organ system involvement, including physical signs and symptoms, prognoses, and common complications and their management. Topics include basic microbiology, basic pharmacology, and principles of disease. Upon completion, students should be able to relate disease processes to etiology, physical signs and symptoms, prognosis, and common complications and their management.
Prerequisites: Take BIO 166 or BIO 169 Minimum grade C

HIT 227. Informatics Project Management. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0. Work-0.0
This course covers the required skills needed for implementing healthcare IT applications, with emphasis on electronic health records (EHR). Topics include leadership development skills, interdisciplinary collaboration, organizational change management, project management software, and the study of communication skills required across healthcare disciplines. Upon completion, students should be able to effectively collaborate and communicate with healthcare disciplines to implement informatics projects within the healthcare setting.
Prerequisites: Take HIT 110 HIT 114
Corequisites: Take HIT 221 and HIT 225

HIT 280. Professional Issues. 2.0 Credits. Class-2.0. Clinical-0.0. Lab-0.0. Work-0.0
This course provides a comprehensive discussion of topics common to the health information profession. Emphasis is placed on application of professional competencies, job search tools, and preparation for the certification examination. Upon completion, students should be able to demonstrate competence in entry-level domains and subdomains for health information technologies.
Prerequisites: Take HIT 211 Minimum grade C
Corequisites: Take DBA 112, HIT 214, HIT 215 and HIT 216