

**Healthcare Technology & Management  
Completion Degree Proposal  
Center for Professional Development**

The Center for Professional Development proposes a bachelor degree completion program in Healthcare Technology and Management (HTM). This proposal is in response to requests from the healthcare community for a bachelor completion degree designed for healthcare professionals with working experience and an Associate of Applied Science degree in medical technology or a related field. Prospective students typically have completed the following distribution of courses as part of their AAS degree:

- medical sciences (15 ch)
- medical technology (18 ch)
- clinical practice (15 ch)
- quality management (5 ch).

As a result, these working professionals will already have the background they need in both medical science and technology. What they are looking for from a bachelor degree completion program is for coursework in information technology to round out their technology background and for technology management coursework to prepare them for career advancement. The proposed IIT portion of the program focuses on these two areas and is the result of considerable discussions with members of the IIT Healthcare Advisory Committee as to what they want from this program. The description of the program outlines which courses students are expected to transfer from their AAS degree and which courses students will take at IIT.

Each student is expected to transfer sixty credit hours to IIT in the following categories. Deficiencies will be identified by Educational Services at IIT and students will be advised as to which courses they must take.

**HTM Transfer Courses**

	credit hours
HTM Major Courses & Free Electives	33
IIT General Education Requirements	
Science	11
Math	5
Humanities & Soc Studies	9
Computer Science	2
Total Transfer Credit Hours	60

## **IIT Degree Completion Courses**

At IIT each student is expected to complete the remaining sixty-six credit hours for the bachelor degree. Seven of these courses are new, whereas the others are existing IIT courses. The IIT courses are organized by the knowledge unit categories needed for AHIMA program accreditation.

<b>Healthcare Billing/Classification Systems</b>	credit hours	required/elective
Healthcare Medical Record Systems HTM 400 New Course – See Description	3	required
Healthcare Data, Statistics & Standards HTM 402 New Course – See Description	3	required
Clinical Classification Systems HTM 404 New Course – See Description	3	required
Reimbursement Methodologies HTM 406 New Course – See Description	3	required
<b>Healthcare Systems &amp; Technology</b>		
Healthcare Systems & Technology HTM 410 Revision of HM 510	3	required
Biomedical Science and Technology HTM 412 New Course – See Description	3	required
Medical Statistics HTM 415 New Course – See Description	3	elective
Research Methods SOC 309 or PS 309	3	elective
<b>Healthcare Management</b>		
Management of Healthcare HTM 470 Revision of HM 500	3	required
Technical Communications COM 421	3	required
Theory of Organization & Mgmt MT315 or 323	3	required
Strategic Mgmt of Health Systems HTM 474 Revision of HM 530	3	required
Project Management MT 322 or ITM 471	3	elective
Human Resource Management MT 425	3	required
Financial Management MT 408 possible revisions	3	required

## **Information Technology & Management**

Health Informatics HIM 420	3	required
Revision of HM 520		
Data Modeling & Applications ITM 421	3	elective
Strategic IT Management ITM 474	3	elective
Information Systems Security Mgmt ITM 478	3	elective

## **Safety**

System Safety MT 332	3	elective
Medical Safety HTM 460	3	elective
New Course – See Description		

## **IIT General Education Requirements**

IPRO	6	required
Humanities	6	required
Social Science	6	required

The following courses are recommended for the Humanities and Social Science Requirements:

Regulatory Policy and Politics PS 453

Ethics in Business PHIL 360 or 373

Sociology of Science SOC 301

Politics of Science & Technology PS 332 or SOC 304

Total IIT credit hours           66

## NEW COURSES

This program will piggyback off of numerous existing IIT courses in the CPD, Humanities and Social Sciences programs. The following is a course description of the new courses being proposed.

### **HTM 400 Healthcare Medical Record Systems**

Study of computerized patient record systems. Knowledge of essential concepts in medical histories, lab test reports, diagnoses, treatment plans, insurance information, medications and the notes of doctors and nurses; data indexing techniques, privacy/security issues; and development of information system support for quality patient care, facility reimbursement, medical research, health planning, healthcare evaluation.

### **HTM 402 Healthcare Data, Statistics & Standards**

Study of data abstracting, master patient index and transcription techniques, data coding standards, statistical data collection techniques, privacy standards, confidentiality requirements, regulatory report standards, and legal document standards.

### **HTM 404 Clinical Classification Systems**

Study of nomenclature and classification systems including coding and introduction to basic principles of coding with Current Procedure Terminology (CPT), Healthcare Common Procedure Coding System (HCPCS), International Classification of Diseases – Coding Modification (ICD - CM) classification systems.

### **HTM 406 Reimbursement Methodologies**

Healthcare reimbursement methodologies, prospective payment systems and clinical analysis. Medical office procedures.

### **HTM 412 Biomedical Science and Technology**

Study of the basic science behind and the technology trends across the range of technologies in healthcare use.

### **HTM 415 Medical Statistics**

Survey of medical statistics techniques, including sampling, distribution models, analysis of variance, correlation and regression, contingency tables, summary and descriptive statistics techniques, data mining within the context of medical applications.

### **HTM 460 Medical Safety**

Management of hospital safety, security, hazardous materials, emergency management, fire protection, medical system backup procedures, regulatory guidelines and compliance standards.

