



IUPUI

## SCHOOL OF INFORMATICS AND COMPUTING

DEPARTMENT OF BIOHEALTH INFORMATICS

Indiana University–Purdue University  
Indianapolis

### Practicum in Health Information Technology INFO B584

#### Course Info 3 Credit hours

- Placement in the Curriculum: Required course for Health Information Technology Certificates
- Prerequisites: Graduate standing or permission of instructor
- Co-requisites: none

**Course Description (50 words):** This course provides an opportunity for the learner to synthesize all previous coursework and to demonstrate beginning competency in Health Information Technology (HIT) applications. The course employs an application focus in which the learner demonstrates comprehension, critical thinking, and problem-solving abilities within the context of a real-world environment.

#### Learning Objectives:

Current Objectives	AMIA Functional Domains	Proposed competency driven objectives	Miller's Pyramid (map)	Class activities	Assessment
1. Function as an active participant in a professional health informatics role.	F7, F8,F9,F10	The student will provide written evidence of their active participation in fulfilling the requirements of a health informatics professional role.	Shows How	Class Participation , Class Project	Assignment, Project Work
2. Identify	F5	The student will	Shows	Class	Assignment,

strategies that can be used to manage information technology changes		demonstrate their ability to identify ways to plan for and implement new technologies in health informatics.	How	Participation , Class Project	Project Work
3. Perform the leadership roles of communicator, systems thinker, and decision-maker within the health care organization	F10	The student will demonstrate their performance in a leadership role in the execution of their practicum responsibilities related to communications, planning and decision making.	Does	Class Participation , Class Project	Assignment, Project Work
4. Identify health and information science theory used in the practice setting	F7	The student will demonstrate their use of health and information theory and practical knowledge in completing their practicum responsibilities.	Knows How	Class Participation , Class Project	Assignment, Project Work
5. Analyze the health informatics leadership role in the delivery of clinical services across the health care enterprise	F10	The student will demonstrate their ability to analyze the components of their practicum work assignment and to put their results into practice.	Shows How	Class Participation , Class Project	Assignment, Project Work

6. Evaluate the organization's use of health information systems to support data-driven decision-making	F7	The student will provide a written evaluation of the organization's implementation and use of health information technology in support of management decision making.	Does	Class Participation , Class Project	Assignment, Project Work
7. Examine the extent that research guides health informatics practice.	F4	The student will provide written evidence of their examination of the use of research in guiding health informatics within the organization.	Does	Class Participation , Class Project	Assignment, Project Work

**Rationale: Educational Outline:**

1. Function as an active participant in a professional health informatics role.
2. Identify strategies that can be used to manage information technology change.
3. Perform the leadership roles of communicator, systems thinker, and decision maker within a healthcare organization.
4. Identify health and information science theory used in the practice settings.
5. Analyze the health informatics leadership role in the delivery of clinical services across the healthcare enterprise.
6. Evaluate the organization's use of health information systems to support data driven decision making.
7. Examine the extent that research guides health informatics practice.

**Required Text:**

Shortliffe, EH; & Perreault, L.E *Medical Informatics: Computer Applications in*

*Health Care and Biomedicine* (6<sup>th</sup> ed.). Heidelberg: Springer Verlag.

Additional readings as necessary to meet learning objectives

**Teaching/Learning Strategies:**

- Supervised mentorship
- Assigned and independent reading, informed class participation (online format), organizational assessment, guided clinical experience.

**Evaluation and Grading**

- Participate in online practicum seminar 20%
- Written Organizational Assessment 30%
- HIT application project with written summary and analysis 50%

**Grading scale:**

Point Range	Grade	Point Range	Grade
97 – 100%	A+	80 – 82%	B-
93 – 96%	A	77 – 79%	C+
90 – 92%	A-	70 – 76%	C
87 – 89%	B+	60 – 69%	D
83 – 86%	B	59 and below	F

**Practicum Guidelines**

**Student’s Role:**

- Develop health informatics practicum goals and objectives that articulate personal learning needs. Schedule faculty contact for discussion by the end of the first week of the semester.
- Identify potential site and select a potential preceptor in consultation with course faculty based on informatics practicum goals and objectives.
- Schedule and complete an interview with potential preceptor agreed upon by the course faculty.
- Negotiate the following for a final learning contract with your preceptor:
  - Prioritize objectives;
  - Approximate the number of hours needed to complete each objective;
  - Make changes in objectives based on the organizations and the preceptor’s specific needs, resources and constraints;
- Identify the types of resources the student will need from the preceptor or agency for each objective, such as: regular meeting time for discussion; assistance in locating or gaining access to organizational resources; introduction to key members of the organization; others as needed.
- Determine the method of evaluation for each objective, such as: student discussion with preceptor; student diaries or written reports to preceptor; student presentations to health care providers and/or preceptor.
- Participate weekly in online informatics practicum seminar discussions;

- Complete a project in collaboration with preceptor, including a formal presentation as part of the online practicum seminar and written analysis of the project;
- Implement and complete student learning contract that includes passing evaluation by preceptor and faculty;
- Notify course faculty of any problems developed during practicum, related to completion of learning goals with possible solutions or alternatives.

**Faculty's role:**

- Review the student's initial goals and objectives.
- Discuss potential practicum placement sites with students.
- Provide syllabus and role expectation information to students and preceptors throughout practicum.
- Assist in informatics practicum placements in conjunction with students as necessary.
- Verify the site contracts if appropriate.
- Review learning contracts and objectives during the first week of the informatics practicum semester.
- Facilitate seminars with students during semester.
- Maintain contact with preceptor during practicum concerning student's progress and visit sites as possible.
- Problem-solve student/preceptor issues as appropriate.
- Identify formal online presentation dates and formats.
- Collect and review final student projects.
- Collect evaluation forms from preceptors.

**Preceptor's Role:**

- Interview the potential student preceptor
- Review the student's goals and objectives and revise as necessary to fit the needs, capabilities and constraints of the organization.
- Negotiate the type of activity you will provide for the student concerning each objective (example: discussion of project or role for teaching or analysis; coordination to direct them to proper resources, supervision in terms of approving or guiding student's work).
- Negotiate the evaluation method, i.e., how the student will demonstrate competency (through regular discussion with preceptor, formal presentation to group, written report, etc.).
- Complete written learning contract with student
- Serve as role model, resource, and guide learning experiences for the student;
- Negotiate student's schedule for completion of practicum.
- Evaluate student.
- Communicate with course faculty regarding student's performance during the practicum;
- Provide ongoing feedback to student during practicum on progress toward completion of learning objectives;
- Notify course faculty of any problems or concerns during the practicum;
- Provide a written grade of Satisfactory/Unsatisfactory for each student

objective.

- Note: If organizational barriers have prevented the student from completing one or more objectives, comments to that effect will be helpful.
- Complete preceptor's evaluation forms and return to course faculty.