HI 41095  SPECIAL TOPICS IN HEALTH INFORMATICS  1-3 Credit Hours
(Repealable for credit) Topics could include current or emerging issues in health informatics. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HI 41096  INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS  1-3 Credit Hours
(Repealable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level. In-progress (IP) mark permissible.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

HI 60401  HEALTH INFORMATICS MANAGEMENT  3 Credit Hours
(Slashed with HI 80401) This introductory course is a survey course that acts as a foundation for all other courses in the Health Informatics program. Basic concepts of Health Informatics are emphasized throughout. The course targets students who are working or have direct input on one of the highest expenditure areas for health care organizations—the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS) and other health information technologies (health IT).
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60402  LEGAL ISSUES IN HEALTH INFORMATICS  3 Credit Hours
(Slashed with HI 80402) This course provides students with an introduction to the fundamentals of law for Health Informatics and Information Management. Components of learning will include general legal principles and regulatory issues in the U.S. healthcare system. Primary topics will include ethical issues, consideration of state laws and the Federal Health Insurance Portability and Accountability Act (HIPAA), privacy and security rules. Through discussion board and writing assignments, students will demonstrate understanding of practical issues of health information access, its use and disclosure, and the legal and regulatory consequences associated with breaches of health information confidentiality and security. We will explore some of the special legal issues with electronic health records (EHR) and health information exchange; secondary uses of health information, compliance; and related ethics issues.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60403  HEALTH INFORMATION SYSTEMS  3 Credit Hours
(Slashed with HI 80403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60410  HEALTH RECORDS MANAGEMENT  3 Credit Hours
(Slashed with HI 80410) This course examines Health Information Management, the role of the HIM professional in the context of the health system and the role of the health record. The role of information management and documentation principles is essential to the successful application of technology and ensuring an effective health information infrastructure. The course discusses confidentiality, privacy, security, reliable standards, data integrity, quality, governance, and ethical principles that make health care information of use for organizations and individuals.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60411  CLINICAL ANALYTICS  3 Credit Hours
(Slashed with HI 80411) The use of well-defined and well-integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions that are standard setters in the industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60412  CLINICAL DECISION SUPPORT  3 Credit Hours
(Slashed with HI 80412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
HI 60413 CHANGE MANAGEMENT IN HEALTH INFORMATICS  3 Credit Hours
(Slashed with HI 80413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment and buy-in are among those covered.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS  3 Credit Hours
(Slashed with HI 80414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60415 HEALTH INFORMATICS INQUIRY AND ASSESSMENT  3 Credit Hours
(Slashed with HI 80415) Provides a foundation for understanding research in health informatics with a focus on user and experience design research. Through lectures, readings, discussions and assignments, students review user research methods, data collection techniques and communication strategies within the healthcare context. Students then apply this knowledge to creating a research plan for assessing health information technology and communicating results to key organizational stakeholders.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60416 HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS  3 Credit Hours
(Slashed with HI 80416) This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. Course's primary focus is on the United States, but international approaches are also be discussed. Legislation affecting health information technology area are examined, including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to health informatics also are discussed, including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60417 PUBLIC HEALTH INFORMATICS  3 Credit Hours
(Slashed with HI 80417) Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60418 CLINICAL Analytics II  3 Credit Hours
As the volume and complexity of health data continues to grow, analysis of that data requires more advanced tools to transform that data into meaningful information for clinical decisions. Not only is data from electronic medical records (EMRs) growing at a rapid pace but new types of data are available for analysis, such as, genomic data and patient generated data. These advanced analytic tools break down into three areas, each of which will be examined in this course: new data warehousing techniques to manage big data, new analytic tools including cognitive computing and predictive analytics and new ways to visualize the data. All of these techniques transform the raw data into use cases, such as, population health, precision medicine and clinical decision support using artificial intelligence and machine learning which will also be addressed in this course.
Prerequisite: HI 60411; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HI 60419 CONSUMER HEALTH INFORMATICS  3 Credit Hours
This course examines the history and current trends in consumer health informatics, examining how patients and healthcare stakeholders manage health in the digital age. The evolution of health information technology has expanded the role of the patient to include being a consumer of healthcare, bringing with it more capabilities and responsibilities. The course will discuss health information and communication technologies and their influence on health care for patients, affecting health information seeking behaviors and expectations among multiple stakeholder groups. The course will discuss US and global perspectives for health information professionals serving health information needs in the community and in medical, academic, and public libraries.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Grade Mode</th>
<th>Contact Hours</th>
<th>Schedule Type</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI 60636</td>
<td>STANDARDIZED TERMINOLOGIES IN HEALTHCARE</td>
<td>3</td>
<td>Satisfactory/Unsatisfactory-IP</td>
<td>3 lecture</td>
<td>Lecture</td>
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<td></td>
<td>Introduce various types of standardized healthcare terminologies (controlled vocabularies) used in the Electronic Health Records (EHR) and Health information Exchange (HIE). Present the benefits of using standardized terminologies, as well as the interoperability and Meaningful Use (MU) requirements and standards. Explain the purposes, structures, components, and application of the most widely implemented standardized terminologies such as ICD, CPT, SNOMED CT, LOINC, RxNorm, ICNP and UMLS. Prerequisite: Graduate standing. Schedule Type: Lecture Contact Hours: 3 lecture Grade Mode: Standard Letter</td>
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<tr>
<td>HI 60691</td>
<td>SEMINAR IN HEALTH INFORMATICS</td>
<td>1-3</td>
<td>Satisfactory/Unsatisfactory-IP</td>
<td>1-3 other</td>
<td>Seminar</td>
<td>(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas in health informatics. Prerequisite: Graduate standing. Schedule Type: Seminar Contact Hours: 1-3 other Grade Mode: Standard Letter</td>
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<tr>
<td>HI 60693</td>
<td>VARIABLE TITLE WORKSHOP IN HEALTH INFORMATICS</td>
<td>1-3</td>
<td>Satisfactory/Unsatisfactory</td>
<td>1-3 other</td>
<td>Workshop</td>
<td>(Repeatable for credit) Intensive examination of special topics of interest to those involved in health informatics program. Maximum workshop credit for the M.S. degree in health informatics is 4 semester hours. Prerequisite: Graduate standing. Schedule Type: Workshop Contact Hours: 1-3 other Grade Mode: Satisfactory/Unsatisfactory</td>
</tr>
<tr>
<td>HI 60792</td>
<td>ELECTIVE INTERNSHIP IN HEALTH INFORMATICS</td>
<td>2-3</td>
<td>Satisfactory/Unsatisfactory-IP</td>
<td>6-18 other</td>
<td>Practical Experience</td>
<td>(Repeatable for credit) Supervised work experience in health informatics of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours). Prerequisite: Graduate standing; and special approval. Schedule Type: Practical Experience Contact Hours: 6.66-10 other Grade Mode: Satisfactory/Unsatisfactory-IP</td>
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<tr>
<td>HI 61095</td>
<td>SPECIAL TOPICS IN HEALTH INFORMATICS</td>
<td>1-3</td>
<td>Satisfactory/Unsatisfactory-IP</td>
<td>1-3 other</td>
<td>Lecture</td>
<td>(Repeatable for credit) (Slashed with HI 81095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes. Prerequisite: Graduate standing. Schedule Type: Lecture Contact Hours: 1-3 lecture Grade Mode: Standard Letter</td>
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<tr>
<td>HI 61096</td>
<td>INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS</td>
<td>1-3</td>
<td>Satisfactory/Unsatisfactory-IP</td>
<td>3-9 other</td>
<td>Individual Investigation</td>
<td>(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master’s level students. Maximum 6 credit hours towards master’s degree. Prerequisite: Graduate standing; and special approval. Schedule Type: Individual Investigation Contact Hours: 3-9 other Grade Mode: Standard Letter-IP</td>
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<tr>
<td>HI 66092</td>
<td>MASTER’S INTERNSHIP IN HEALTH INFORMATICS</td>
<td>3</td>
<td>Satisfactory/Unsatisfactory-IP</td>
<td>10 other</td>
<td>Practical Experience</td>
<td>Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of health informatics and integrates their knowledge from all HI courses and experiences. Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval. Schedule Type: Practical Experience Contact Hours: 10 other Grade Mode: Satisfactory/Unsatisfactory-IP</td>
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<tr>
<td>HI 66099</td>
<td>MASTER’S PROJECT IN HEALTH INFORMATICS</td>
<td>3</td>
<td>Satisfactory/Unsatisfactory-IP</td>
<td>3 other</td>
<td>Project or Capstone</td>
<td>Provides a means for the application of the knowledge, research and competencies learned through study in health informatics to the development of an information system, product, setting or service. Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum overall 3.000 overall GPA; and graduate standing; and special approval. Schedule Type: Project or Capstone Contact Hours: 3 other Grade Mode: Satisfactory/Unsatisfactory-IP</td>
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<tr>
<td>HI 66198</td>
<td>MASTER’S RESEARCH PAPER IN HEALTH INFORMATICS</td>
<td>3</td>
<td>Satisfactory/Unsatisfactory-IP</td>
<td>9 other</td>
<td>Research</td>
<td>Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the Health Informatics master’s degree. Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval. Schedule Type: Research Contact Hours: 9 other Grade Mode: Satisfactory/Unsatisfactory-IP</td>
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<tr>
<td>HI 66199</td>
<td>THESIS I</td>
<td>2-6</td>
<td>Satisfactory/Unsatisfactory-IP</td>
<td>6-18 other</td>
<td>Masters Thesis</td>
<td>(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, HI 60414 and HI 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval. Schedule Type: Masters Thesis Contact Hours: 6-18 other Grade Mode: Satisfactory/Unsatisfactory-IP</td>
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<tr>
<td>HI 66299</td>
<td>THESIS II</td>
<td>2</td>
<td>Satisfactory/Unsatisfactory-IP</td>
<td>6 other</td>
<td>Masters Thesis</td>
<td>(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: HI 66199; and graduate standing; and special approval. Schedule Type: Masters Thesis Contact Hours: 6 other Grade Mode: Satisfactory/Unsatisfactory-IP</td>
</tr>
</tbody>
</table>
**HI 80401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours**
(Slashed with HI 60401) This introductory course is a survey course that acts as a foundation for all other courses in the Health Informatics program. Basic concepts of Health Informatics are emphasized throughout. The course targets students who at some point in their career will oversee or have direct input on one of the highest expenditure areas for health care organizations—the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (health IT).

**Prerequisite:** Doctoral standing.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter

**HI 80402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours**
(Slashed with HI 60402) This course provides students with an introduction to the fundamentals of law for Health Informatics and Information Management. Components of the learning will include general legal principles and regulatory issues in the U.S. healthcare system. Primary topics will include ethical issues, consideration of state laws and the Federal Health Insurance Portability and Accountability Act (HIPAA), privacy and security rules. Through discussion board and writing assignments, students will demonstrate understanding of practical issues of health information access, its use and disclosure, and the legal and regulatory consequences associated with breaches of health information confidentiality and security. We will explore some of the special legal issues with electronic health records (EHR) and health information exchange; secondary uses of health information; compliance; and related ethics issues.

**Prerequisite:** Doctoral standing.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter

**HI 80403 HEALTH INFORMATION SYSTEMS 3 Credit Hours**
(Slashed with HI 60403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.

**Prerequisite:** Doctoral standing.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter

**HI 80410 HEALTH RECORDS MANAGEMENT 3 Credit Hours**
(Slashed with HI 60410) This course examines Health Information Management, the role of the HIM professional in the context of the health system and the role of the health record. The role of information management and documentation principles is essential to the successful application of technology and ensuring an effective health information infrastructure. The course discusses confidentiality, privacy, security, reliable standards, data integrity, quality, governance, and ethical principles that make health care information of use for organizations and individuals.

**Prerequisite:** Doctoral standing.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter

**HI 80411 CLINICAL ANALYTICS 3 Credit Hours**
(Slashed with HI 60411) The use of well-defined and well integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: Improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions that are standard setters in the industry.

**Prerequisite:** Doctoral standing.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter

**HI 80412 CLINICAL DECISION SUPPORT 3 Credit Hours**
(Slashed with HI 60412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical analytics throughout the healthcare value chain. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.

**Prerequisite:** Doctoral standing.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter

**HI 80413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours**
(Slashed with HI 60413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment, end user computing and buy-in are among those covered.

**Prerequisite:** Doctoral standing.
**Schedule Type:** Lecture
**Contact Hours:** 3 lecture
**Grade Mode:** Standard Letter
HI 80414  HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS  
 3 Credit Hours  
(Slashed with HI 60414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability, and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.  
Prerequisite: Doctoral standing.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HI 80415  HEALTH INFORMATICS INQUIRY AND ASSESSMENT  
3 Credit Hours  
(Slashed with HI 60415) This course will provide a foundation for understanding research in health informatics with a focus on user and experience design research. Through course lectures, readings, discussions and assignments, students will review user research methods, data collection techniques and communication strategies within the healthcare context. Students will then apply this knowledge to creating a research plan for assessing health information technology and communicating results to key organizational stakeholders.  
Prerequisite: Doctoral standing.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HI 80416  HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS  
3 Credit Hours  
(Slashed with HI 60416) This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. Course's primary focus is on the United States, but international approaches are also be discussed. Legislation affecting health information technology area are examined, including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to health informatics also are discussed, including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care.  
Prerequisite: Doctoral standing.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HI 80417  PUBLIC HEALTH INFORMATICS  
3 Credit Hours  
(Slashed with HI 60417) Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.  
Prerequisite: Doctoral standing.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HI 80691  SEMINAR IN HEALTH INFORMATICS  
1-3 Credit Hours  
(Repeatable for credit) (Slashed with HI 60691) Advanced research by students who are qualified to examine problems of certain special areas in health informatics.  
Prerequisite: Doctoral standing.  
Schedule Type: Seminar  
Contact Hours: 1-3 other  
Grade Mode: Standard Letter  

HI 81095  SPECIAL TOPICS IN HEALTH INFORMATICS  
1-3 Credit Hours  
(Repeatable for credit) (Slashed with HI 61095) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.  
Prerequisite: Doctoral standing.  
Schedule Type: Lecture  
Contact Hours: 1-3 lecture  
Grade Mode: Standard Letter  

HI 81096  INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS  
1-3 Credit Hours  
(Repeatable for credit). Research or individual investigation in areas not covered by the existing curriculum for doctoral level students. Deliverables determined with instructor of record.  
Prerequisite: Doctoral standing; and special approval.  
Schedule Type: Individual Investigation  
Contact Hours: 3-9 other  
Grade Mode: Standard Letter-IP