

Graduate Curriculum Committee (GCC)
Meeting Minutes
Wednesday, October 5, 2011

Regular Members Present:

Rose Allen (Chair)
Jim Decker (Vice-Chair)
Carol Brown
Hamid Fonooni
Will Forsythe
Ravi Paul
Bob Thompson

Regular Members Absent/Excused:

None

Ex-Officio Members Present:

Linner Griffin

Ex-Officio Members Absent/Excused:

Marc Stevens

Academic Program Planning and Development:

Kimberly Nicholson and Karen Summey

Guests:

College of Allied Health Sciences: Laura Ball, Paul Bell, Patrick Carter, Julie Daniel-Yount, and Xiaoming Zeng
Thomas Harriot College of Arts and Sciences: Rick Ericson, Jamie Kruse, and Heather Ries

Actions of Committee:

I. Call to Order

1. Report on GSAB Actions

Elections for the Graduate Council are in progress. The final GSAB meeting will be held on 10-13-11. The Graduate Council will have their organizational meeting on 10-24-11. The first regular meeting of the Graduate Council is scheduled for 11-21-11 with monthly Monday meetings from 3:00 pm – 5:00 pm through 05-07-12.

2. The 09-07-11 GCC minutes were approved electronically and forwarded to the GSAB for agenda placement.

Approved at the 09-26-11 GSAB meeting and included the physics package.

- 3. The 09-21-11 GCC minutes will be distributed via e-mail for an electronic vote then forwarded to the GSAB for agenda placement.**

Submitted to the Graduate School for placement on the 10-13-11 GSAB agenda.

- 4. Due to fall break, the revision submission deadline for this meeting will be 5:00 pm on Thursday, 10-13-11.**

II. College of Allied Health Sciences, Department of Physician Assistant Studies

GCC recommended unit take a look at PADP 6980 for revision at a future meeting, as there appears to be a problem with the catalog description for this course.

Proposal of New Courses: PADP 6390, 6395

Approved as amended

- (1.) Revise justification (PADP 6390, 6395)
- (2.) Revise course description (PADP 6390, 6395)
- (3.) Revise course credit (PADP 6390, 6395)
- (4.) Revise staff statement of support (PADP 6390)
- (5.) Revise textbooks/readings (PADP 6395)
- (6.) Revise course objectives (PADP 6390, 6395)
- (7.) Revise course topic outline (PADP 6395)
- (8.) Revise course assignments/grading; submit one *Final Preceptor Evaluation* document to include with the package (PADP 6390, 6395)
- (9.) Revise marked catalog copy (PADP 6390, 6395)

Revision of Existing Courses: PADP 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380

Approved as amended

- (1.) Revise course description (PADP 6310, 6320, 6330, 6340, 6350, 6360, 6370)
- (2.) Revise course credit (PADP 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380)
- (3.) Revise course objectives (PADP 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380)
- (4.) Revise course topic outline (PADP 6340)
- (5.) Revise course assignments/grading (PADP 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380)
- (6.) Revise marked catalog copy (PADP 6310, 6320, 6330, 6340, 6350, 6360, 6370)
- (7.) Incorporate editorial recommendations from Diane Coltraine (PADP 6320, 6330, 6340, 6350, 6360, 6370, 6380)

III. College of Allied Health Sciences, Department of Health Services and Information Management

Discussed impact of conversion from GSAB to Graduate Council on approval timeline. Unit expressed concerns over the possibility of not meeting their GA deadline. Chair Allen will request the Graduate Council consider reviewing the 10-05-11 GCC minutes at their 10-24-11 organizational meeting. Unit reassured by Dr. Griffin that the Academic

Program Planning and Development Office will assist HSIM with the next stages in the approval process and moving forward for UNC-GA approval.

Request for Authorization to Establish a New Degree Program: MS in Health Informatics and Information Management

Approved as amended

- (1.) Clarify comment 10 in the memoranda of request (external review responses)
- (2.) Comments from GCC:
 - a. Unit commended on their extensive work to incorporate suggested GCC revisions from the 09-21-11 meeting in a short period of time
 - b. Expect Graduate Council to closely look at committed resources
 - c. When responding, explain how faculty will use time at the launch of the program to convert to a master's level program
 - d. Be sure to elaborate on research focus
 - e. Illustrate the impact of inability to secure requested faculty while also showing the ability to move forward, if needed
 - f. Show growth of program and how new faculty can be integrated as part of the growth process
 - g. Consider other options, such as elimination of thesis, if there are no faculty to direct the thesis

IV. Thomas Harriot College of Arts and Sciences, Department of Economics

Proposal of New Courses: ECON 8111, 8112, 8211, 8212, 8241, 8242, 8310, 8350, 8411, 8412, 8413, 8510, 8540, 8620, 8650, 8720, 8901, 8951, 9000, 9001

Approved as amended

- (1.) Revise requested action (ECON 8413)
- (2.) Revise course description (ECON 8112, 8310, 8411, 8412, 8413, 8650, 8901, 8951, 9000, 9001)
- (3.) Revise course credit (ECON 8413, 8901)
- (4.) Revise staff statement of support (ECON 8412, 8413, 8720)
- (5.) Revise unit computer resources statement of support (ECON 8212)
- (6.) Revise textbooks/readings (ECON 8111, 8112, 8211, 8212, 8241, 8242, 8310, 8350, 8411, 8412, 8413, 8540, 8620, 8650, 8720)
- (7.) Revise course objectives (ECON 8111, 8211, 8212, 8241, 8242, 8310, 8350, 8411, 8412, 8510, 8540, 8620, 8720, 8901, 9000, 9001)
- (8.) Revise course topic outline (ECON 8350, 8411, 8510, 8620, 8901, 8951)
- (9.) Revise assignments/grading (ECON 8111, 8112, 8211, 8212, 8241, 8242, 8310, 8350, 8411, 8412, 8413, 8510, 8540, 8620, 8650, 8720, 8901, 8951, 9000, 9001)
- (10.) Revise marked catalog copy (ECON 8310, 8411, 8412, 8413, 8650, 8901, 8951, 9000, 9001)
- (11.) Unit will be provided with the approved proposal form and marked catalog copy for BIOC 9000 to use as a guide in setting up the S and U text in the course description and grading scale for ECON 9000 and ECON 9001

Deletion of Existing Certificate: Certificate in Applied Economics

Per the unit memorandum, this action was approved at the 09-09-11 EPPC meeting.
Complete package approved as amended.

Request for Authorization to Plan: PhD in Economics

Approved as amended

- (1.) Obtain letter of support from Coastal Resources Management program director
- (2.) Provide notification to the Department of Mathematics regarding use of MATH 5101, 5102, 5801, 6001, 6702 in proposed PhD in Economics
- (3.) Revise marked catalog copy to include:
 - a. Replace “is a post-baccalaureate program” with “is a post-baccalaureate and post-masters program”
 - b. Replace “concentrations in applied microeconomics, applied macroeconomics, and risk analysis” with “fields in applied microeconomics, applied macroeconomics, and risk analysis”
 - c. Replace “(82 graduate semester credit hours)” with “(82 post-baccalaureate or 52 post-masters graduate semester credit hours)” or text similar to this
 - d. Replace “a risk analysis concentration is required of all students” with “a risk analysis field is required of all students”
 - e. Replace “field exams are required in risk analysis and in either applied micro or applied macro”
 - f. Replace “primary objective of the PhD program is to graduate economists” with “primary objective of the PhD program is to prepare economists”
 - g. Replace “Research – 8 – 13 s.h.” with Research – 8 – 11 s.h.”
 - h. Replace Risk Analysis Concentration” with “Risk Analysis Field”
 - i. Replace “Concentration (Choose one area)” with “(Choose one)”
 - j. Replace “Applied Microeconomics Area” with “Applied Microeconomics Field”
 - k. Replace “Applied Macro Economics Area” with “Applied Macroeconomics Field”
 - l. Revise title for ECON 8951 to *ECON 8951. Doctoral Seminar* in all instances

V. College of Nursing

Deletion of Existing Course: NURS 5620

Approved

VI. Old Business

1. Proposal justifications – draft text for manual and/or proposal form.

Read e-mail from Chair Allen dated 10-04-11 with recommended revisions for the proposal form and manual text – item carried over to 10-19-11 agenda.

- 2. Implement any actions recommended by the Academic Council relative to 5000-level courses.**
Read e-mail from Chair Allen dated 10-04-11 with updated status/information regarding resolution of the 5000-level courses issue – item carried over to 10-19-11 agenda.
- 3. Focus on deleting or banking courses not in use when adding new courses.**
No discussion – item carried over to 10-19-11 agenda.
- 4. Send forward a motion to the GSAB/Graduate Council for a policy on deleting courses that have not been offered, or had no enrollment, for a specific time period.**
No discussion – item carried over to 10-19-11 agenda.
- 5. Vice Chair Decker recommended the GCC continue their work with the Graduate Working Group on 3.6.2 Graduate Curriculum.**
No discussion – item carried over to 10-19-11 agenda.
- 6. Develop training modules utilizing Media site technology with topics to include: Pieces in a Curriculum Development Package, Completion of the Course Proposal Form, and Tips for Certificate Planners. Recordings will be posted on the GCC Web site.**
No discussion – item carried over to 10-19-11 agenda.
- 7. SACS Principle 4.9 – awaiting definition of credit hour from GA.**
No discussion – item carried over to 10-19-11 agenda.
- 8. Initiate annual graduate banked courses process**
No discussion – item carried over to 10-19-11 agenda.

VII. New Business

- 1. A thank you to the Graduate Curriculum Committee from Bill Sugar.**

Marked Catalog Copy:

II. College of Allied Health Sciences

Department of Physician Assistant Studies

URL: <http://www.ecu.edu/cs-acad/great/programPADP.cfm>

College of Allied Health Sciences

Department of Physician Assistant Studies

J. Patrick Carter, Interim Chair, 4310K Health Sciences Building

MS in Physician Assistant

Physician assistant majors must pass all physician assistant core courses with a minimum numerical grade of 70 percent and an overall GPA of 3.0 for the semester. A student earning less than a grade of 70 percent or an overall GPA of 3.0 for the semester must petition the Department of Physician Assistant Studies for probationary continuation. A student must have completed a baccalaureate degree from a college or university accredited by a regional accrediting organization, must have completed the prerequisite requirements as listed below and must have a minimum prerequisite GPA of 3.0 to be eligible to apply for admission into the professional phase of the physician assistant curriculum. Any exceptions must be approved by the department chair. All requirements for continuation in the graduate school must be met. The minimum requirement for the degree is 99 s.h. as follows:

Prerequisite Requirements: Courses to be completed prior to entering the program with at least a 3.0 GPA.

Chemistry: One full academic year

Genetics: One semester

Human Anatomy and Physiology: One full academic year

Medical Terminology: One semester

Microbiology: One semester

Psychology: One semester

Statistics: One semester

Core Courses: PADP 6000, 6010, 6020, 6030, 6040, 6050, 6150, 6200, 6210, 6220, 6250, 6500, 6650, 6680, 6800, 6810, 6850, 6980. To continue to the clinical portion of the curriculum, the student must successfully pass all didactic courses listed above with an overall 3.0 GPA and no more than 6 s.h. of Cs.

Clinical Courses: PADP 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, [6390](#), [6395](#).

URL: <http://www.ecu.edu/cs-acad/grcat/coursesPADP.cfm>

PADP: Physician Assistant Studies

6000. The Role of the Physician Assistant and the History, Philosophy, and Ethics of Medical Practice (1)

History of medicine. Introduces medical ethics, nonclinical aspects of dependent practice, and roles of other health care providers involved in medical team approach to medical care and disease prevention. Explores different cultures and their perception of medicine, legal issues, quality assurance, and risk management. Facilitates development of realistic role identity for the physician assistant.

6010. Diagnostic Methods I (3)

Laboratory procedures used to identify pathophysiological processes and the rationale for ordering them. Interpretation of laboratory results and treatment options.

6020. Diagnostic Methods II (3)

Continuation of PADP 6010. Emphasis on ordering and interpreting lab tests in organ system based pathological case studies. Interpretation and ordering of electrocardiography, radiography and MRI, CT and PET scans.

6030. Clinical Gross Anatomy (5,0)

Structure of human body with virtual anatomy lab and clinical case studies.

6040. Human Physiology (5)

P: Enrolled in the PA program or by permission of the chair. Physiological principles fundamental to living tissue. All body systems studied as they relate to normal and pathological conditions in humans.

6050. Introduction to Clinical Medicine (3)

Emphasis on medical problem-solving using patient management format and case studies.

6150. Clinical Medicine I (5)

Clinically-oriented didactic and lab skills as preparation for clinical rotations and future clinical practice. Etiology, pathophysiology, clinical manifestations, and appropriate management of selected disease entities. Clinical training in lab sciences, standardized patients, and obtaining and writing history and physical exams. Enhances acquisition of skills necessary to formulate a diagnosis and treatment plan. Presents musculoskeletal, infectious disease, dermatology, and cardiology systems.

6200. History and Physical Exam I (2)

Emphasis on patient interviewing, communication skills, and counseling skills. Proper use of instruments and techniques used in performing a thorough physical examination.

6210. History and Physical Examination II (3)

Continuation of PADP 6200. Emphasis on adult physical examination.

6220. History and Physical Examination III (3)

Continuation of PADP 6200 and 6210. Emphasis on examination of the pediatric patient and the geriatric patient.

6250. Clinical Medicine II (4)

Continuation of PADP 6150. Presents pulmonary, nephrology, neurology, endocrine, and hematology/oncology systems. Includes geriatrics and pediatrics.

6310. Behavioral Medicine Clinical Practicum (4) (5)

P: Consent of instructor. Emphasis on behavioral medicine evaluation and treatment in an outpatient and inpatient setting. ~~Advanced rotation focuses on community settings in area of student's medical vocational interest. Facilitates acquisition of communication and behavioral modification skills useful in primary care setting.~~

6320. Internal Medicine Clinical Practicum (6) (5)

P: Consent of instructor. Emphasis on the internal medicine approach to direct care, initial care, comprehensive care and continuity of care. ~~Applies medical knowledge to basic and complicated problems and situations encountered in internal medicine practice. Collect database, formulate complete problem list, and participate in daily rounds and management of patient problems. Develops awareness of complexity of disease processes and differential diagnosis.~~

6330. Family Medicine Clinical Practicum (6) (5)

P: Consent of instructor. Emphasis on the family medicine approach to initial care, comprehensive care and preventive care. ~~In-depth emphasis on outpatient evaluation, treatment of conditions common at family medicine/primary care level, and appropriate health maintenance measures for all age groups.~~

6340. General Surgery Clinical Practicum (4) (5)

P: Consent of instructor. Emphasis on the surgical evaluation and treatment of patients in an inpatient and outpatient setting. ~~Routine health care of variety of surgical inpatients and outpatients. Assignment to surgical team with emphasis on pre-operative evaluation and preparatory procedures, assisting at operating table, and management of patients through post-operative period to discharge.~~

6350. Emergency Medicine Clinical Practicum (4) (5)

P: Consent of instructor. Emphasis on eEvaluation and management of emergency and surgical problems seen in the emergency department. ~~Initial evaluation of potential surgical conditions and performance of problem-specific exams, emergency procedures, and minor surgical skills.~~

6360. Pediatrics Clinical Practicum (4) (5)

P: Consent of instructor. ~~Assignment to institutional setting or community-based pediatric site.~~ Emphasis on communication skills and relating sensitively to children and parents. Familiarization with normal growth and development, pediatric preventive medicine, and evaluation and management of common childhood illnesses.

6370. Women's Health and Prenatal Care Clinical Practicum (4) (5)

P: Consent of instructor. ~~Enrolled in PADP program; or consent of chair. Clinical experiences in prenatal care and women's health, gynecology.~~ Emphasis on the examination of the female patient with focus on the most common, prenatal, obstetric, and gynecologic problems and their diagnostic assessment, formulation of appropriate treatment plans, utilization of preventive medicine, and health maintenance modalities.

6380. Geriatrics Clinical Practicum (4) (5)

P: Consent of instructor. Clinical experience with the aging population focusing on unique medical, psychosocial, environmental and cultural aspects of aging.

6390. International Medicine Clinical Practicum (2)

May be repeated once at a different site. P: Consent of instructor. Emphasis on evaluation and treatment of disease in an outpatient and inpatient setting outside of the United States.

6395. Physician Assistant Studies Clinical Practicum (2)

May be repeated once at a different site. P: Consent of instructor. Emphasis on evaluation and treatment of disease in a medical and/or surgical setting of the student's choice from selective sites.

6500. Pharmacology and Pharmacotherapeutics (4)

Pharmacological knowledge basic to assessment and management skills for advanced clinical practice. Pharmacological management of patients throughout life span with common acute and chronic health problems. Overviews of selected drug classes. Emphasis on data collection and diagnostic reasoning in relation to major drug classifications, monitoring, and evaluation of pharmacological interventions. Application of cost-benefit, risk-benefit, efficacy, side-effects, and adverse responses through case studies to develop knowledge and skills that adhere to legal standards of practice.

6650. Surgery and Emergency Medicine Skills (4)

Clinically-oriented didactic and lab skills related to knowledge and skills needed in emergency department and surgical arena. In-depth focus on acute and surgical conditions encountered in primary care and surgical settings. Pre-operative and post-operative care as well as surgical preparation to be properly demonstrated.

6680. Introduction to Clerkship (4)

Emphasis on preparing the student for clinical rotation experiences and medical procedures.

6800. Behavioral Medicine and Psychosocial Issues in Health Care (2)

General survey of fundamental principles underlying human behavior. Includes physiological development, learning, memory, motivation, and social and abnormal behavior. Emphasis on improving communication skills and integrating knowledge of psychosocial principles and diagnoses with clinical situations. Development of counseling skills, ability to handle patients with stress, and death and dying issues. Covers additional content in psychiatric case studies, problem-solving methodologies, and evidence-based medicine.

6810. Medical Ethics and Jurisprudence (2,0)

Develop critical skills necessary to identify, analyze, and resolve ethical, legal, and professional issues.

6850. Health Promotion/Disease Prevention (2)

Basic concepts include distribution, prevalence, causation, mode of transmission and dissemination, control, and prevention strategies used to counter significant infectious disease and occupational injuries. Investigates reportable diseases and conditions; role of state health departments in the process; and role of CDC&P in collecting and evaluating data reported by state, identifying emerging pathogens, and informing treatment community in a timely manner through such venues as the MMWR.

6980. Research Project (4)

Admission to candidacy, successful completion of didactic and clinical phases of the program, and successful performance on comprehensive exam as designated by dept.

III. College of Allied Health Sciences

Department of Health Services and Information Management

<http://www.ecu.edu/cs-acad/grcat/programHIMA.cfm>

College of Allied Health Sciences

Department of Health Services and Information Management

Xiaoming Zeng, Chair, 4340D Health Sciences Building

~~Thomas Ross, Contact for the~~ [Pat Royal, Director](#), Health Care Administration Certificate, 4340GJ Health Sciences Building

MS in Health Informatics and Information Management

The Department of Health Services and Information Management offers the master of science in health informatics and information management degree. The degree requires 36 s.h. of core courses and 12 s.h. from one of the following options: non-thesis, thesis, or Registered Health Information Administrator (RHIA). The RHIA option allows graduates to be eligible to take the RHIA examination.

Admission

Application for admission to the graduate program in health informatics and information management must be initiated through the Graduate School. (See Section 2, Admission and Readmission.) The department requires that the applicant meet the following minimum admission requirements: a minimum cumulative GPA of 3.0 on a 4.0 scale, satisfactory scores on the Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT), and acceptable TOEFL score for non-English foreign students. At the time of application, the applicant must submit three letters of reference, a resume, and a completed statement of purpose as specified in the Graduate School application.

Applicants must present evidence of an undergraduate degree from an accredited institution and completion of the following prerequisite courses within the last 5 years: computer programming (3 s.h. minimum) and statistics (3 s.h. minimum). Completed applications should be received no later than March 1st for enrollment in the fall semester. Applicants may be interviewed as part of the admission process. Applications for full-time study beginning in either the spring or summer semesters will be considered only under special circumstances because of the sequential nature of the program of study.

Degree Requirements

The degree requires a minimum of 48 s.h. of graduate work as follows:

Core courses: 36 s.h.

BIOS 7021; COHE 6000, 6410, 6420, 6430, 6470, 6480, 6490, 6510, 6630; HIMA 6060; MIS 6843

Choose one of the following options for the completion of the degree:

Non-thesis option: 12-18 s.h.

COHE 6440, 6450, 6803 (3-9 s.h.); SENG 6230

Thesis option: 12-21 s.h.

COHE 6440, 6450, 7000 (3-12 s.h.); SENG 6230

RHIA option: 12-18 s.h.

COHE 6310, 6460, 6600, 6803 (3-9 s.h.)

Certificate in Community Health Administration

In cooperation with the Department of Political Science, students seeking the master of public administration degree (MPA) may take 15 s.h. in COHE, and approved electives for the completion of a certificate in community health administration. Required courses are the following: COHE 6000, 6100; PADM 6400 or COHE 6971 or NURS 6971. Electives may be taken from the following: ACCT 6241; BIOS 5010; COHE 6300, 6310; ENGL 5780; FINA 6144; PADM 6410.

Admission requirements are available from the director of the MPA program in the Department of Political Science.

Certificate in Community Health Center Administration

In cooperation with the Department of Public Health, students seeking the MPH and nondegree students may take 15 s.h. for completion of a certificate in community health center administration. Required courses are: COHE 6100, 6310, 6600; HIMA 5060; MPH 6200.

Admission priority is given to individuals enrolled in the MPH degree or another graduate degree related to community health center administration or who are employed in community health centers. Individuals outside these three groups and without significant work experience in a community health center are required to take COHE 6000, MPH 6000, or equivalent.

Admission and other requirements are available from the director of the certificate program in community health center administration in the Department of Public Health.

MBA with Health Care Management Certificate

MBA students interested in pursuing the MBA with the health care management certificate must take COHE 6000, 6600, 6610, and 6620 as electives in the MBA program. Other graduate students interested in taking these electives must confer with the program directors of the respective schools.

Health Care Administration Certificate

The Health Care Administration Certificate is available to all students holding a baccalaureate degree. The certificate requires successful completion of 15 s.h. from the following COHE courses: COHE 6000 or HIMA 5060 and COHE 6300, 6310, 6600, and 6620. Students who have not previously passed a graduate health care systems course must first complete COHE 6000 before taking any other course. Students who have already taken the equivalent of COHE 6000, are advised to take HIMA 5060. Certificate students may transfer credits to other graduate programs but acceptance into the certificate program does not guarantee acceptance into other programs and non-degree students can only apply 9 s.h. toward a graduate degree.

Health Informatics Certificate

The Health Informatics Certificate is available to all students holding a baccalaureate degree. The certificate requires successful completion of 15 s.h. from the following COHE courses: HIMA 5060, COHE 6410, COHE 6420, COHE 6430, COHE 6440, COHE 6450. Students who have not previously passed a graduate health care systems course must first complete COHE 6000 before taking any other course. HIMA 5060 is a co-requisite and should be taken before or with COHE 6410, 6420, 6430, 6440, or 6450. Certificate students may transfer credits to other graduate programs but acceptance into the certificate program does not guarantee acceptance into other programs and non-degree students can only apply 9 s.h. toward a graduate degree.

<http://www.ecu.edu/cs-acad/grcat/coursesCOHE.cfm>

COHE: Community Health

6000. Health Care Systems and Problems (3)

P: Consent of instructor. Advanced study of contemporary health care problems. Evolution, philosophy, and present and future trends of our health care system. Emphasis on health policy and practices of community health service institutions and agencies.

6100. Community Health Administration (3)

P: COHE 6000 or MPH 6000, MPH 6200 or consent of instructor. Role and application of basic administrative theory and practice in health service institutions and agencies. Emphasis on public aspects of health service.

6300. Health Law (3)

P: Consent of instructor. Process and substance of law related to organization and delivery of health services in the US. Recognition of legal issues arising in the practice of

- health administration, understanding of how legal system thinks, and effective communicate with lawyers practicing in health care field.
6310. Health Care Accounting and Financial Administration (3)
Application of the theories, principles and concepts of financial management and accounting to decision-making and accountability in health care organizations.
6410. Electronic Health Records (3)
P/C: HIMA 5060 or consent of instructor. Principles and approaches to EHR technology.
6420. Evaluation Methods in Health Informatics (3)
P/C: HIMA 5060 or consent of instructor. Design, data collection, analysis and reporting of health informatics applications.
6430. Database Systems in Health Care (3)
P/C: HIMA 5060 or consent of instructor. Relational database theory and applications in health care.
6440. E-Health Care Information System (3)
P/C: HIMA 5060 or consent of instructor. Systematic analysis of electronic technologies in health care.
6450. Decision Support in Health Care (3)
P/C: HIMA 5060 or consent of instructor. Theories and applications of decision science in health care.
6460. Classification Systems (3)
P: BIOL 2130, 2131 or equivalent; HIMA 3000 or equivalent; HIMA 3113 or equivalent; COHE 6000, HIMA 6060 or consent of instructor. Coding of diseases and procedures by “International Classification of Diseases” and services and procedures according to the *Healthcare Common Procedure Coding System* for reimbursement.
6470. Health Information Privacy and Security (3)
P: COHE 6000; HIMA 6060; or consent of instructor. Security and privacy issues, legislation, regulations, and accreditation standards unique to the health care domain.
6480. Health Data Structures (3)
P: COHE 6000; HIMA 6060; or consent of instructor. Examination of the concept of a data set and use of a standard set of terminologies, vocabularies and classification systems for information management.
6490. Foundations of Health Information Technologies (3)
P: COHE 6000; HIMA 6060; or consent of instructor. Broad coverage of technology underlying modern medical computing and health information management.
- 6500, 6502. Independent Study (2,3)
P: Approval of outline of study by student’s committee or advisor. Tutorial study or supervised research in contemporary health problems, programs, and educational methods.
6510. Social and Organizational Issues of Health Information Technologies (3)
P: COHE 6000; HIMA 6060; or consent of instructor. Impact of information systems on the health care organization and application of theory through case study analysis.
6600. Management of Health Care Operations (3)
P: COHE 6000 or consent of instructor. Focus on day-to-day operational aspects of managing health care organizations. Operational needs of various health care providers. Emphasis on legal, marketing, service, quality, and personnel issues.
6610. Financial Management of Health Care Organizations (3)

- P: COHE 6000; FINA 6144. Focus on acquisition, allocation, and management of financial resources within health care organizations. Emphasis on application of financial tools to unique problems of these organizations.
6620. Health Care Strategic Planning and Management (3)
P: COHE 6600, 6610. Focus on methods for strategic planning and management health services organizations. Emphasis on techniques for determining strategies for unique services. Integrates strategy, structure, and administrative systems.
6630. Quality Management in Health Care (3)
P: COHE 6000; HIMA 6060; or consent of instructor. Health care quality management tools and applications and review of current literature.
6803. Internship in Health Informatics and Information Management (3-9)
P: Consent of health informatics and information management program director. Workplace experience or credit by portfolio to include specific project, cooperative practicum, professional shadowing, or individual relevant topic of study.
6971. Health Policy (3) Same as NURS 6971 or PADM 6400
Overview of health policy and legal issues related to delivery of health care. Emphasis on action, theory, and roles; strategies of power politics; legal foundations; and trends in policy formation with implications for health care administrators.
6990. Internship in Community Health (3)
P: COHE 6000 or consent by the student's advisor and the Department of Community Health. Professional learning experience in work study program in community health setting. Supervised by experienced health professional approved by Department of Community Health and student's faculty advisor.
7000. Thesis (1-6)
May be repeated. May be taken for a maximum of 12 s. h. P: Consent of health informatics and information management program director.
- COHE Banked Courses
- 5460, 5461. Patient Education for Interdisciplinary Health Care Providers (3,0)
 - 6200. Community Health Education I: Concepts and Theories (3)
 - 6201. Community Health Education II: Methods and Techniques (3)
 - 6400. Trends and Issues in Health Care (3)
 - 6501. Independent Study (2)
 - 6991. Internship in Community Health (3)
 - 6992. Internship Project (1)
 - 6993. Major Paper (4)
 - 6999. Thesis (4-6)

<http://www.ecu.edu/cs-acad/grcat/coursesAHS.cfm>

HIMA: Health Information Management

5060. Health Informatics (3)
P: Consent of instructor. Informatics in health care delivery systems with focus on the clinical, public health, and consumer aspects.

6060. Theories and Applications (3)

P: Consent of instructor. Theoretical and practical foundations of health informatics for clinical, managerial, community health, and public health services.

HPRO: Health Professions

5000. Seminar in Human Sexual Dysfunctions (3)

Explores problems in human sexual behavior and functioning. Emphasis on development of assessment and intervention skills in delivery of sexual health care to broad spectrum of clients.

5011, 5012. Gross Anatomy (5,0)

P: Enrolled in OCCT or PTHE programs or consent of dept chairs. Structure of human body. Lab dissection.

5030, 5031. Neuroanatomy (3,0)

P: Enrolled in OCCT or PTHE programs or consent of dept chairs; HPRO 5011, 5012. Relationship between structure and function of the nervous system and foundations of neurology. Pathophysiology of specific neurologic disorders common to practice of occupational and physical therapy.

IV. Thomas Harriot College of Arts and Sciences

Department of Economics

<http://www.ecu.edu/cs-acad/grcat/programECON.cfm>

Thomas Harriot College of Arts and Sciences

Department of Economics

Richard E. Ericson, Chair, A-428 Brewster Building

John A. Bishop, Director of Graduate Studies, A-436 Brewster Building

The Department of Economics offers a master's degree in applied and resource economics and a PhD program in economics with a concentration in risk analysis. The MS program requires completion of a research skills course and written comprehensive examinations. The PhD program requires the defense of a dissertation as well as written core qualifying and field examinations. It is important to note that requirements of both the Graduate School and the Department of Economics must be met before a degree is awarded.

MS in Applied and Resource Economics

Applicants to the MS in applied and resource economics must meet the admissions requirements of the Graduate School, submit three letters of recommendation, make an acceptable score on the general portion of the Graduate Record Examinations, and have had at least one undergraduate course each in introductory statistics and differential calculus. Non-native speakers must make an acceptable score on the TOEFL. Undergraduate courses in intermediate microeconomics and macroeconomics are strongly recommended.

Students in this degree program must complete a minimum of 33 s.h. of course work. Core requirements in economics theory, econometric technique, and research methodology constitute 21 s.h. with the remaining 12 s.h. being electives. Up to 6 s.h. of electives may be taken outside the department with the approval of the graduate director.

1. Core courses: ECON 5360, 5501, 6301, 6302, 6390, 6401, 6402.
2. A comprehensive examination is administered after completion of ECON 5360, 5501, 6301, 6302, 6401, 6402. The examination will test skills in applied theory and econometrics. Successful performance on this examination is necessary to continue in program.
3. **Research skills:** Four of the core courses listed above constitute 12 s.h. of research skills in quantitative methods and research methodology: ECON 5360, 6301, 6302, 6390.
Research project: The final component, ECON 6390 (research project) is the culmination of student's analytical work and is designed to demonstrate applied research skills.

Certificate in Applied Economics

~~In addition to the MS in economics, the department offers a certificate in applied economics with five options: econometrics, forecasting/macroeconomics, health policy, public policy, and resource policy. Entry requirements include a degree application for regular admission and a letter to the graduate director, requesting enrollment in the program. The certificate will be awarded after completion of 9 s.h. of B or better work in the respective areas as follows:~~

~~Econometrics: ECON 6301 and two electives
Forecasting: ECON 6353 and two electives
Health policy: ECON 5910 and two electives
Public policy: ECON 5800 and two electives
Resource policy: ECON 5170 and two electives~~

PhD in Economics

The PhD in economics is a post-baccalaureate and post-masters program with fields in applied microeconomics, applied macroeconomics, and risk analysis (82 post-baccalaureate or 52 post-masters graduate semester credit hours). Students can choose between applied microeconomics and applied macroeconomics; however, a risk analysis field is required of all students. Qualifying exams are required in economic theory and econometrics; field exams are required in risk analysis and in either applied micro or applied macro. The primary objective of the PhD program is to prepare economists who can apply the tools and concepts of economics to solve significant problems relating to risk and uncertainty in areas such as environmental risk, public sector risk, risk and decision making, and analytical/econometric risk evaluation.
Program requirements include:

Preparatory Courses – 30 s.h.

- ECON 5360. Mathematical Economics (3)
- ECON 5501. Macroeconomic Theory (3)
- ECON 6301. Econometrics I (3)
- ECON 6302. Econometrics II (3)
- ECON 6401. Microeconomic Theory I (3)
- ECON 6402. Microeconomic Theory II (3)
- MATH 5801. Probability Theory (3)
- MATH 6001. Matrix Algebra (3)
- MATH 5101. Advanced Calculus I (3)
- MATH 5102. Advanced Calculus II (3)

Economic Theory Core – 15 s.h.

- ECON 8111. Economic Theory I (4)
- ECON 8112. Economic Theory II (4)
- ECON 8211. Macroeconomic Theory I (4)
- ECON 8411. Risk Analysis I (3)

Econometric Theory Core – 7 s.h.

- ECON 8310. Advanced Econometrics (4)
- MATH 6802. Statistical Inference (3)

Research – 8-11 s.h.

- ECON 8350. Applied Research Methods (3)
- ECON 8901. Research Workshop (1)
- GRAD 7004. Research Ethics for a Complex World (2)

Risk Analysis Field (required) – 6 s.h.

- ECON 8412. Risk Analysis II (3)
- ECON 8413. Risk Analysis III (3)

(Choose one) – 6 s.h.

Applied Microeconomics Field

- ECON 8510. Applied Welfare Analysis (3)
- ECON 8540. Environmental and Resource Economics (3)
- ECON 8620. Labor Economics (3)
- ECON 8650. Health Economics (3)
- ECON 8720. Industrial Organization (3)

Applied Macroeconomics Field

- ECON 8212. Macroeconomic Theory II (3)
- ECON 8241. Applied Macro I (3)
- ECON 8242. Applied Macro II (3)

Seminars – 1-4 s.h.

ECON 8951. Doctoral Seminar (1)

Dissertation Research – 9-18 s.h.

ECON 9000. Dissertation Research (3-9)

ECON 9001. Dissertation: Summer Research (1)

<http://www.ecu.edu/cs-acad/grcat/coursesECON.cfm>

ECON: Economics

5000. General Topics (3)
May be repeated for credit with change of topic. P for undergraduate students: ECON 3144, 3244. Considers new or advanced topics in economics.
5150. Development (3)
P for undergraduate students: ECON 3144. Application of microeconomic analysis to investments in human resources, efficient organization of rural economics, intersectoral and international exchange, and interaction between politics and markets, especially in less developed countries.
5170. Resources I (3)
P for undergraduate students: ECON 3144. Applies microeconomic analysis to allocation of natural resources.
5360. Mathematical Economics (3)
P for undergraduate students: MATH 2171 or equivalent. Mathematical analysis applied to economic theory. Structure and specification of quantitative models.
5501. Macroeconomic Theory (3)
P for undergraduate students: ECON 3244; ECON 5360 or MATH 2172. Business cycle fluctuations. Emphasis on determinants of consumption and investment and effectiveness of monetary and fiscal policy.
5800. Public Economics (3)
P for undergraduate students: ECON 3144. Applies microeconomic analysis to collective choice in democratic societies, government expenditure programs, and taxation.
5910. Health Economics (3)
P for undergraduate students: ECON 3144, 3244. Organizational structure, financing, and regulation of health care delivery and economic measurement of performance.
6000. Advanced Topics (3)
May be repeated for credit. Current advanced-level topics in economics.
6102. Labor Supply (3)
P: ECON 6301, 6401. Theory and estimation of static labor supply models and general theory of allocation of time.
6125. Regulation (3)
P: ECON 6401. Market failure rationale for non-market allocation. Causes and effects of regulatory action. Behavior of regulatory agencies and regulated firms.
6172. Resources II (3)
Applies microeconomic analysis to environmental problems, such as air and water pollution and formation of environmental policy.
6300. Economics of Coastal Populations (3)

- Advanced introduction to application of microeconomic analysis of coastal environmental problems and issues and economic basis for formation of coastal and marine policies.
6301. Econometrics I (3)
Statistical theory and its basic applications to analysis of economic data.
6302. Econometrics II (3)
P: ECON 6301, 6401. Development of general linear model and its extensions for analysis of economic data.
6335. Discrete Choice Econometrics (3)
P: ECON 6301, 6401. Advanced course in econometric. Focus on regression techniques for analysis of qualitative and limited dependent variables.
6353. Forecasting (3)
P: ECON 5501, 6301, 6401. Advanced course in econometrics. Focus on regression and time series techniques for forecasting of economic variables.
6390. Research (3)
May be repeated. May count a maximum of 6 s.h. P: ECON 6301, 6401; consent of graduate director. Objectives and structure of methodologies for formulation. Conduct empirical research in economics.
6401. Microeconomic Theory I (3)
Economic theory of behavior of households and firms in market economy.
6402. Microeconomic Theory II (3)
P: ECON 6401. Extensions of choice theory. Efficiency and equilibrium under conditions of uncertainty and imperfect information. Welfare under second-best constraints.
6910. Quantitative Methods in Health Economics (3)
Applications of quantitative methods to selected health economics topics of current policy relevance.
- [8111. Economic Theory I \(4\)](#)
[Fundamental models and methods of economic analysis: theory of choice; consumer and producer behavior; behavior under uncertainty; general competitive equilibrium, welfare, and efficiency; equilibrium with uncertainty.](#)
- [8112. Economic Theory II \(4\)](#)
[P: ECON 8111. Fundamental models and methods of economic analysis: elements of game theory; imperfect competition; analysis of market failure; problems of incomplete and asymmetric information; welfare economics, social choice and incentives, and mechanism design.](#)
- [8211. Macroeconomic Theory I \(4\)](#)
[P: ECON 5501 or consent of director of graduate studies. Foundations of macroeconomic behavior and analysis: household's choice problem, growth models, and real business cycle models.](#)
- [8212. Macroeconomic Theory II \(3\)](#)
[P: ECON 8211. Analysis of business cycles using canonic positive macroeconomic models; disequilibrium macroeconomic dynamics; normative analysis of monetary and fiscal policy using macroeconomic models.](#)
- [8241. Applied Macro I \(3\)](#)
[P: ECON 8211. Development of the models and statistical techniques used to study time series data with a special emphasis to applications in macroeconomics.](#)
- [8242. Applied Macro II \(3\)](#)
[P: ECON 8241. Development of the econometric tools necessary for advanced research in financial risk analysis.](#)

8310. Advanced Econometrics (4)
P: ECON 6302; MATH 5102, 6802; or consent of graduate director. Development of asymptotics and advanced estimation techniques.
8350. Applied Research Methods (3)
P: ECON 8310. Application of econometric techniques including limited dependent variable models, panel data estimators, instrumental variables estimators, and spatial econometric models.
8411. Risk Analysis I (3)
P: ECON 8011, 8012; MATH 5102, 5801. Analysis of risk and uncertainty.
8412. Risk Analysis II (3)
P: ECON 8411. Analysis of models relevant to natural hazards risks.
8413. Risk Analysis III (3)
P: ECON 8412. Explores frontiers of theoretical and applied research particularly with regard to market and regulatory risk.
8510. Applied Welfare Analysis (3)
P: ECON 8112. Theory of normative models for applied welfare economics and their application to public policy.
8540. Environmental and Resource Economics (3)
P: ECON 8112, 8310. Advanced economic theory of environmental management and policy, treatment of externalities, market and non-market approaches to environmental improvement, sustainable use of resources and non-renewable resources, and economics of climate change.
8620. Labor Economics (3)
P: ECON 8112, 8350. Modern economic theories and applied methodology on topics related to labor supply, human capital, distribution of earnings, and program evaluations.
8650. Health Economics (3)
P: ECON 8112, 8350, 8411. Economic analysis of the health production model and the delivery of health care.
8720. Industrial Organization (3)
P: ECON 8112. Combines the latest theories with empirical evidence about the organization of firms and industries.
8901. Research Workshop (1)
May be repeated for a maximum of 6 s.h. P: Consent of director of graduate studies. Present and discuss research methodologies as well as new results in the literature.
8951. Doctoral Seminar (1)
May be repeated for a maximum of 4 s.h. P: Consent of director of graduate studies. Students present work in progress to faculty and peers.
9000. Dissertation Research (3-9)
May be repeated for a maximum of 18 s.h. P: Consent of advisor and director of graduate studies. This course is graded S or U and is not included in meeting the cumulative "B" average required for graduation.
9001. Dissertation: Summer Research (1)
May be repeated. No credit may count toward degree. P: Consent of advisor and director of graduate studies.

V. College of Nursing

Division of Academic Affairs

Graduate Catalog 2011-12

<http://www.ecu.edu/cs-acad/grcat/coursesNURS.cfm>

NURS: Nursing

~~5620. International Health Care (3)~~

~~P: Graduate status or senior by consent of instructor. Issues, philosophy, and cultural differences in health care from international perspective. Compares US healthcare to that in other nations.~~