

Fitchburg State University
Environmental Public Health Proposal
Submitted for Board of Trustee Approval on August 21, 2018

Introduction

Fitchburg State University is in a unique position to offer the only Environmental Public Health (EPH) undergraduate degree in a public institution of higher learning in New England.

In 2015, the concept of a program that studies public health from an environmental and geographical perspective originated from discussions between faculty in the departments of Nursing and Earth & Geographic Sciences, and the Dean of Health & Natural Sciences. Aligned with Fitchburg State's mission to provide leadership and support for the economic, environmental, social, and cultural needs of North Central Massachusetts and the Commonwealth, it is a logical extension of our faculty's experience and interest in community health, geospatial data analysis, social justice and community service. Discussions among faculty across the university resulted in a curriculum in EPH (attached), an inherently interdisciplinary field. Guided by the standards set by the Council on Education for Public Health (CEPH), and with the support of the Vice President for Academic Affairs, the program was approved by governance as a new major within the Earth & Geographic Sciences Department in May 2018.

Purpose and Goals

The EPH major will be available for students who are interested in health sciences but seek an alternative career choice than those offered in traditional STEM or health professions majors. The EPH major focuses on the relationships between people and their environment, promotes human health and well-being, and fosters healthy and safe communities. Students graduating with a B.S. in EPH will be qualified to collect, review, study and analyze public health data. They will be able to work to develop strategies and educational programs to mitigate the persistence and transmission of communicable diseases, advance policies and programs to reduce chemical and other environmental exposures, protect people from environmental hazards, and provide communities with healthier environments. The EPH major will also provide another option for students who choose a post-baccalaureate studies in the health professions such as graduate entry programs in Nursing or M.S. degrees in health professions or sciences.

Need for the Proposed Program

The persistence of environmental contaminants (e.g. New Bedford harbor as a source of airborne PCBs, the Woburn groundwater contamination incident, and the heavy pollution in the Nashua River) is one example of a regional environmental and public health concern whose solution requires specialized training to study and address. Nationally and in the Commonwealth, growth in rates of adult and childhood obesity, disparities in drinking water quality, and the health impacts from climate change are some areas where scientists are needed to study and educate the public about how the environment impacts their health.

The Bureau of Labor Statistics (BLS) projects a growth in demand for Health Educators and Community Health workers that is much faster than average, growing 16% between 2016 and 2026. Such positions require a bachelor's degree. In the Commonwealth, there is a projected demand increase of 9.5% from 2014 and 2024 for Environmental Scientists and Specialists, including those who work in the health fields. As defined by the Executive Office of Labor and Workforce Development, these scientists and specialists "Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Using knowledge of various scientific disciplines, may collect, synthesize, study, report, and recommend action based on data derived from measurements or observations of air, food, soil, water, and other sources."

What is *unique* about Fitchburg State's proposed B.S. in EPH is the focus on the intersection of public health and the environment. While including the core set of public health courses that other high quality programs have, the Fitchburg State B.S. in EPH includes a focus on geography, the use of GIS for geospatial data analysis, studies in geology, and an education in environmental science. There are B.S. degrees in Public Health offered in the Commonwealth. UMass Lowell and Worcester State University house two of these traditional, public health programs within our region. They maintain a core curriculum of STEM and public health courses but those degrees do not have the focus on geology or geospatial data analysis that the proposed Fitchburg degree program will include.

Curriculum

Please see the attached proposed curriculum for details. Following the guidelines of the CEPH, B.S. in EPH students will demonstrate competency in each of the following areas:

- The history and philosophy of public health as well as its core values, concepts and functions across the globe and in society
- The basic concepts, methods and tools of public health data collection, use and analysis and why evidence-based approaches are an essential part of public health practice. *In particular, our graduates will demonstrate competency in the use of geographic science and geospatial tools for data collection and analysis, as well as using them for studies of public health.*
- The underlying science of human health and disease including opportunities for promoting and protecting health across the life course
- The socioeconomic, behavioral, biological, environmental and other factors that impact human health and contribute to health disparities.
- The fundamental characteristics and organizational structures of the US health system as well as the differences in systems in other countries
- Basic concepts of legal, ethical, economic and regulatory dimensions of health care and public health policy and the roles, influences and responsibilities of the different agencies and branches of government
- The underlying science of environmental health and disease including opportunities for promoting and protecting health across the life course
- The built and natural environment that impacts human health and contributes to health disparities. *In particular our graduates will demonstrate competency in geology and environmental science as they relate to public health.*

Faculty

A core group of existing faculty will initially teach in the curriculum. Full-time faculty in the departments of Nursing and Earth & Geographic Sciences are qualified to teach the core "EPH" courses. The university has a full-time geographic sciences faculty member who is supported by adjunct faculty. Cognate courses in STEM and other fields will be taught by existing full-time and adjunct faculty. Once fully implemented, we anticipate needing one new full-time faculty member to support the program. Experts from public health and related fields will be invited to teach as adjunct faculty.

Students

We anticipate 10-20 students in the first year of the program. Students will initially originate from an internal pool of those who change majors. Growth after five years is expected to be 100 majors, with 15-20 joining the program each year as first-year freshman or transfers.

Administration and Operation

The major in EPH will be housed within the Earth & Geographic Sciences Department. Primarily drawing on faculty from that and the Nursing departments to teach major core curriculum courses, the program will be supported by an existing part-time administrative assistant, and an existing part-time laboratory technician in the home department. Program oversight (scheduling, faculty hiring, personnel actions, student recruitment and

advisement, budgeting, program assessment, etc.) will include the chair and faculty in Earth & Geographic Sciences as well as the Dean of Health and Natural Sciences, offices of the Provost, Admissions, the Registrar, Human Resources, Institutional Research and Planning and more.

Resources

Resources to support the B.S. in EPH are already in place at the university. The Antonucci Science Center was opened in 2013 with extensive renovation to the existing Condike Science Wing completed at that time as well. That renovation includes offices and classrooms for the home department as well as dedicated laboratories for geographic information, geographic, and geologic sciences. Related laboratories for health assessment and evaluation are available in the departments of Nursing and Exercise & Sports Science.

Budget

<i>One Time/ Start Up Costs</i>	<i>Cost Categories</i>	<i>Annual Expenses</i>			
		<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>
	Full Time Faculty (Salary & Fringe)	-0-	-0-	\$85,000	\$86,236
	Part Time/Adjunct Faculty (Salary & Fringe)	\$20,502	\$27,951	\$15,200	\$16,920
	Staff	-0-	-0-	-0-	-0-
	General Administrative Costs	\$2,080	\$2,652	\$8,103	\$8,591
\$3,000	Instructional Materials, Library Acquisitions	\$5,000	\$5,150	\$12,000	\$10,300
	Facilities/Space/Equipment				\$3,090
	Field & Clinical Resources	\$1,000	\$1,030	\$1,061	\$1,093
\$5,000	Marketing	\$5,000	\$5,150	\$5,305	\$5,464
\$ 500	Other (Professional Development)	\$750	\$3,000	\$3,090	\$3,183
\$8,500	TOTALS	\$34,332	\$44,933	\$129,759	\$134,877

<i>One Time/Start-Up Support</i>	<i>Revenue Sources</i>	<i>Annual Income</i>			
		<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>
	Grants				
	Tuition and Fees	\$106,323	\$243,065	\$344,356	\$392,942
	Departmental				
	Reallocated Funds				

	Other (specify)				
	TOTALS	\$106,323	\$243,065	\$344,356	\$392,942

We anticipate needing 2.25 full-time faculty (FTEs) to staff the program once fully implemented and enrolled. This would include one new hire (starting the third year if demand requires it). In addition (.25 FTEs), experts from the public health field would be invited to teach as adjuncts in the program. Other staff and administrative responsibilities will be assumed by existing personnel. Some funds have been added to pay a program area chair, if there is a demand.

The program, will share resources with the existing GIS lab in the department. However, as we move forward, we will need to add some software updates. In addition the department will require some professional development in the area of general public health as well as in GIS. The library holdings in the area of public health will also need to be reinforced. The financial support needed for these has been included throughout the budget and start-up costs cited above.

Please note, anticipated revenue projections were generated using current tuition and fee rates. If enrollments meet expectations, and we fully anticipate that they will, we project revenue exceeding total costs, including start-up support, by the end of Year 1 of the program and continuing.

Conclusion

We believe that the B.S. in Environmental Public Health is clearly aligned with the mission of Fitchburg State University. Not only does it work to serve the needs of communities in the Commonwealth, but it blends a professional education with a liberal arts & sciences core. The major will be unique among those available in our region, by integrating a core framework of geographic and geospatial knowledge and skill sets in the program. Our faculty have sufficient experience and the resources necessary to offer a program that will meet national and regional needs for public health and environmental scientists and specialists.

The program has received internal approvals from Earth and Geographic Sciences Curriculum Committee, the All College Committee and the President.

It still requires approvals from the Fitchburg State University Board of Trustees which would then permit us to forward to the Massachusetts Board of Higher Education for final approval.

We therefore respectfully request the Board’s approval of the Fitchburg State University Environmental Public Health major.

Undergraduate Program Curriculum Outline

(Insert additional rows as necessary.)

<i>Required Courses in the Major (Total # courses required: Core + Cognate + LA&S) = 11 + 9 + 11) = 31</i>		
Course Number	Course Title	Credit Hours
EPH 2XXX	Public Health in the United States (new course)	3
EPH 2XXX	Fundamentals of Epidemiology (new course)	3
EPH 3XXX	Environmental Health (new course)	3
EPH 3XXX	Evaluation Methods in Public Health (new course)	3
GEOG/POLS 3XXX	Environmental Policy (new course)	3
GEOG 1000 or GEOG 2XXX	*Earth Systems Science Environmental Geology (new course)	3
GEOG 1100	Principles of Human Geography	3
GEOG 3300	Urban Geography	3
GEOG 4000 or GEOG 4XXX	Geographic Information Systems Web GIS (Geographic Information Systems, new course)	3
GEOG 4500	Remote Sensing of the Environment	3
GEOG4900 or GEOG4940	Independent study in Geography Internship in Geography	3
	*intended for transfer students or those changing majors to facilitate 4-year degree completion.	
	Sub Total Required Core Credits	33
Cognate Courses = 9		
Course Number	Course Title	Credit Hours
BIOL 1200	Anatomy & Physiology 1	4
BIOL 1300	Anatomy & Physiology 2	4
BIOL 2700	Medical Microbiology	4
EXSS 2400 or NURS 2300	Health Promotion *Health Assessment	3
HIST 2022 or HIST 2140 or HIS 3710	Constructing History US Economic History Urban America	3
SOC 2440	Urban Sociology	3
SOC 2720	Medical Sociology	3
PHIL 2001 or PHIL 2500	Medical Ethics Contemporary Ethical Problems	3
PSY 2350 or PSY 2665	Abnormal Psychology Health Psychology	3
	*intended to facilitate timely degree completion for students who transition from the Nursing to EPH	
	Sub Total Required Cognate Credits	30

<i>Required Courses that Meet General Education (LA&S) Requirements = 11</i>		
Course Number	Course Title	Credit Hours
CHEM 1200	Chemistry for Health Sciences	4
GEOG 2400	Introduction to Geospatial Technology	3
EXSS 1000	Health and Fitness	3
HIST 2056 or HIST 2021 or HIST 2650 or HIST 3900	Climate Change and Human History Reading Historical Landscapes Young America Frontier in American History	3
MATH 1700	Applied Statistics	3
PSY 1100	Introduction to Psychology	3
SOC 1100	Introduction to Sociology	3
ECON 1100	Principles of Macroeconomics	3
ECON 2010 or ECON 2500 or GEOG 3000	Political Economy of Gender Economic Development Geographic Economic System	3
POLS 1000	US Government	3
POLS 3000	Public Policy Analysis	3
	<i>Sub Total Required Credits that Meet General Education (LA&S) Requirements</i>	34

<p>Distribution of General Education Requirements (Liberal Arts & Sciences, LA&S) Attach List of General Education Offerings (Course Numbers, Titles, and Credits)</p> <p>Liberal Arts and Sciences Core Outline Start Date: Fall 2008</p> <p>Curricular Clusters Core (36 credits)</p> <p>1. Science, Math and Technology: 4 courses (Minimum 12 credits) 1 math course 1 lab science course 1 health/fitness related course—currently those courses approved by the Exercise and Sports Science department 1 elective</p> <p>2. Citizenships and the World: 3 courses (Minimum 9 credits) 1 history course 1 human behavior course 1 elective</p> <p>3. The Arts: 5 courses (Minimum 15 credits) 1 art or music course 1 literature course Writing I and II 1 elective</p> <p>Global Diversity: Two of the courses taken within the three clusters must have a Global Diversity designation. These courses provide a context for understanding the political, economic, cultural, and historical events or experiences of other countries, including those that are non-Western. (Western means Europe—including Russia—and North America.) At least one of the two courses must address the relationship of two or more global regions.</p> <p>GDC=Global Diversity Citizenship GDCN=Global Diversity Citizenship non-Western GDA=Global Diversity Arts GDAN=Global Diversity Arts non-Western</p> <p>Advanced Options In addition to the 36-credit core, students must select from three LA&S options.</p> <p>Option A: 6 credits in a foreign language <i>and</i> 6 credits of LA&S coursework at or above the 2000 level.</p> <p>Option B: 12 credits (with a minimum of six at or above the 2000 level) in a single discipline outside of the student’s first major.</p> <p>Option C: 12 credit unique curriculum based on the student’s interests, needs or goals and with advisor assistance. The curriculum, with a statement of rationale, must be approved by the advisor, department chair and the appropriate dean and then filed with the registrar. The curriculum must be submitted before the student has completed 60 credits. No more than one course within this option may be completed before the curriculum has been approved.</p>	<p># of Gen Ed Credits = 48</p>
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<p>Science, Math and Technology: 4 courses</p>	<p>12</p>
<p>LAB SCIENCES: (at least one required) BIOL 1000 LIFE SCIENCE I BIOL 1050 LIFE SCIENCE FOR EDUCATORS BIOL 1100 LIFE SCIENCE II BIOL 1400 GENERAL BOTANY BIOL 1650 NUTRITION BIOL 1750 HUMAN GENETICS BIOL 1800 GENERAL BIOLOGY I BIOL 1900 GENERAL BIOLOGY II BIOL 2100 FLORA OF NEW ENGLAND CHEM 1000 CHEMISTRY IN A CHANGING WORLD CHEM 1200 CHEMISTRY FOR THE HEALTH SERVICES CHEM 1300 GENERAL CHEMISTRY I CHEM 1400 GENERAL CHEMISTRY II GEOG 1000 EARTH SYSTEMS SCIENCE GEOG 1300 EARTH, SEA AND AIR GEOG 2100 GEOLOGY GEOG 2200 METEOROLOGY GEOG 2500 OCEANOGRAPHY PHYS 1100 PHYSICAL SCIENCE PHYS 2300 GENERAL PHYSICS I PHYS 2400 GENERAL PHYSICS II PHYS 2600 CALCULUS BASED PHYSICS I PHYS 2700 CALCULUS BASED PHYSICS II MATH REQUIREMENT: (at least one required) MATH 1100 MATH IN SOCIETY MATH 1200 FINITE MATH MATH 1250 INTRODUCTION TO FUNCTIONS MATH 1300 PRE-CALCULUS MATH 1500 INFORMAL NUMBER THEORY MATH 1600 INFORMAL MATHEMATICAL MODELING MATH 1700 APPLIED STATISTICS MATH 1800 BUSINESS STATISTICS MATH 1900 DISCRETE MATH MATH 2000 INFORMAL GEOMETRY MATH 2100 TECHNICAL CALCULUS MATH 2200 BUSINESS CALCULUS MATH 2300 CALCULUS I MATH 2400 CALCULUS II MATH 2500 INTRO TO MATH THOUGHT MATH 2600 LINEAR ALGEBRA HEALTH AND FITNESS REQUIREMENT: (at least three credits required) EXSS 1000 HEALTH AND FITNESS HON 1151 EXPERIENTIAL APPROACHES TO WELLNESS EXSS 2060 EXERCISE, NUTRITION AND HEART DISEASE MILS 1100 FOUNDATIONS OF OFFICERSHIP AND MILS 1200 BASIC LEADERSHIP EQUAL ONE CREDIT OF HEALTH AND FITNESS CREDIT WHEN BOTH ARE TAKEN. MILS 2100 INDIVIDUAL LEADERSHIP AND MILS 2250 LEADERSHIP AND TEAMWORK EQUAL TWO CREDITS OF HEALTH AND FITNESS WHEN BOTH ARE TAKEN. MILS 1100, 1200, 2100 AND 2250 EQUAL THREE CREDITS WHEN ALL FOUR ARE TAKEN.</p>	

OTHER SCIENCE, MATH AND TECHNOLOGY COURSES:

CJ 2030 MPTC APPLIED CONCEPTS IN FITNESS FOR POLICE
CSC 1000 INTRODUCTION TO PROGRAMMING
CSC 1010 COMPUTER SCIENCE BASICS
CSC 1100 COMPUTER APPLICATIONS
CSC 1400 COMPUTER INFORMATION SYSTEMS
CSC 1500 COMPUTER SCIENCE I
GEOG 2300 CLIMATOLOGY
GEOG 2400 COMPUTER APPLICATIONS IN GEOG/ES
GEOG 2800 MAP USE AND INTERPRETATION
GEOG 3500 GEOGRAPHIC INFORMATION SYSTEMS
GEOG 4800 COMPUTER GEOGRAPHY
PHIL 1100 LOGIC
PHYS 2000 ASTRONOMY

Citizenships and the World: 3 courses	9
<p>HISTORY REQUIREMENT: (at least one course required)</p> <p>ARAB/HIS20303 CONTEMPORARY ARAB WORLD - <i>GDCN</i></p> <p>HIST 1000 WORLD CIVILIZATION I - <i>GDCN</i></p> <p>HIST 1100 WORLD CIVILIZATION II – <i>GDCN</i></p> <p>HIST 1200 WORLD CIVILIZATION III – <i>GDCN</i></p> <p>HIST 1400 US HISTORY TO 1865</p> <p>HIST 1500 US HISTORY II</p> <p>HIST 1900 FRESHMAN SEMINAR</p> <p>HIST 2050 BYZANTINE EMPIRE – <i>GDC</i></p> <p>HIST 2070 EUROPEAN RENAISSANCE - <i>GDC</i></p> <p>HIST 2080 EUROPEAN ENLIGHTENMENT –<i>GDC</i></p> <p>HIST 2140 U. S. ECONOMIC HISTORY</p> <p>HIST 2155 NAZI GERMANY – <i>GDC</i></p> <p>HIST 2160 THE HOLOCAUST – <i>GDC</i></p> <p>HIST 2170 ARMENIAN GENOCIDE – <i>GDC</i></p> <p>HIST 2290 SILK ROAD IN HISTORY AND CULTURE - <i>GDCN</i></p> <p>HIST 2300 AFRICAN AMERICAN HISTORY</p> <p>HIST 2501 CULTURE AND SOCIETY OF INDIA - <i>GDCN</i></p> <p>HIST 2530 MEDIEVAL HISTORY – <i>GDA</i></p> <p>HIST 2700 HISTORY OF MEXICO – <i>GDCN</i></p> <p>HIST 2722 COMPARATIVE SLAVERY – <i>GDCN</i></p> <p>HIST 2730 WOMEN IN LATIN AMERICAN HISTORY – <i>GDCN</i></p> <p>HIST 2760 CONQUEST OF SLAVERY - <i>GDCN</i></p> <p>HIST 2770 LATIN AMERICAN REVOLUTION – <i>GDCN</i></p> <p>HIST 3120 POSTWAR AMERICA 1945 TO THE PRESENT</p> <p>HIST 3420 THE FRENCH REVOLUTION</p> <p>HIST 3600 THE CIVIL WAR</p> <p>HIST 3710 URBAN AMERICA</p> <p>HIST 3720 CIVIL RIGHTS MOVEMENT</p> <p>HIST 3760 CHINA SINCE 1900 - <i>GDCN</i></p> <p>HON 2225/HIST 2225 HONORS HISTORY SEMINAR</p> <p>HUMAN BEHAVIOR REQUIREMENT:(At least one course required)</p> <p>PSY 1100 GENERAL PSYCHOLOGY</p> <p>PSY 2200 HUMAN DEVELOPMENT</p> <p>SOC 1100 INTRODUCTION TO SOCIOLOGY - <i>GDC</i></p> <p>OTHER CITIZENSHIP AND THE WORLD COURSES:</p> <p>AAST 1000 INTRO TO AFRICAN-AMERICAN STUDIES -<i>GDCN</i></p> <p>AMST 1800 INTRO TO AMERICAN STUDIES I</p> <p>AMST 1900 INTRO TO AMERICAN STUDIES II</p> <p>ARAB 1026 ARABIC FOR BEGINNERS I – <i>GDCN</i></p> <p>ARAB 1100 ARABIC FOR BEGINNERS II - <i>GDCN</i></p> <p>ASL 1000 AMERICAN SIGN LANGUAGE FOR BEGINNERS I</p> <p>ASL 2000 AMERICAN SIGN LANGUAGE FOR BEGINNERS II</p> <p>CHIN 1000 MANDARIN FOR BEGINNERS I - <i>GDCN</i></p> <p>CHIN 1100 MANDARIN FOR BEGINNERS II – <i>GDCN</i></p> <p>ECON 1050 INTRO TO US ECONOMY</p> <p>ECON 1100 MACROECONOMICS</p> <p>ECON 1200 MICROECONOMICS</p> <p>ECON 2140 ECONOMIC HISTORY</p> <p>IDIS 1000 INTRO TO WOMEN’S STUDIES</p> <p>IDIS 1002 INTRO TO DISABILITY STUDIES - <i>GDA</i></p> <p>IDIS 1100 WOMEN IN LATIN AMERICA - <i>GDCN</i></p> <p>IDIS 1200 INTRO TO INTERNATIONAL STUDIES – <i>GDCN</i></p> <p>IDIS 1800 GLOBAL ISSUES - <i>GDCN</i></p>	

IDIS 2500 CULTURE AND SOCIETY OF INDIA - **GDCN**
 IDIS 3000 INTEGRATIVE SEMINAR IN DISABILITY
 STUDIES
 ITAL 1000 ITALIAN FOR BEGINNERS I – **GDC**
 ITAL 1100 ITALIAN FOR BEGINNERS II – **GDC**
 ITAL 3000 ITALIAN CULTURE IN ENGLISH I – **GDC**
 ITAL 3100 ITALIAN CULTURE IN ENGLISH II – **GDC**
 ITAL 3250 ITALY THROUGH FILM – **GDC**
 ITAL 3300 WOMEN IN ITALY – **GDC**
 ITEC 1700 EVOLUTION OF INDUSTRIAL TECHNOLOGY
 FREN 1000 FRENCH FOR BEGINNERS I – **GDCN**
 FREN 1100 FRENCH FOR BEGINNERS II – **GDCN**
 GEOG 1100 PRINCIPLES OF HUMAN GEOGRAPHY – **GDCN**
 GEOG 3400 POPULATION GEOGRAPHY – **GDCN**
 GEOG 4400 URBAN GEOGRAPHY – **GDNC**
 LATN 1000 LATIN FOR BEGINNERS I – **GDC**
 LATN 1100 LATIN FOR BEGINNERS II – **GDC**
 LATN 2000 INTERMEDIATE LATIN I – **GDC**
 LATN 2100 INTERMEDIATE LATIN II - **GDC**
 HON 1005 FOUNDATIONS OF LEADERSHIP I
 HON 1020 CURRENT EVENTS AND SERVICE LEARNING
 PHIL 1000 INTRO TO WESTERN PHILOSOPHY - **GDC**
 PHIL 2001 MEDICAL ETHICS
 PHIL 2500 CONTEMPORARY ETHICAL PROBLEMS
 PHIL 2600 PHILOSOPHY OF HUMAN NATURE - **GDC**
 PHIL 3600 PHILOSOPHY OF RELIGION
 PHIL 3610 WORLD RELIGIONS - **GDCN**
 PHIL 4700 ETHICAL ISSUES IN BUSINESS
 POLS 1000 US GOVERNMENT
 POLS 1100 INTRO TO POLITICAL SCIENCE
 POLS 1200 MODEL UN - **GDCN**
 POLS 2200 CONTEMP INTERNATIONAL RELATIONS – **GDCN**
 ENGL/POLS 2540 GLOBAL ISSUES IN FILM - **GDNC**
 POLS 2780 HISTORY OF POLITICAL THEORY - **GDC**
 SPAN 1000 SPANISH FOR BEGINNERS I – **GDCN**
 SPAN 1100 SPANISH FOR BEGINNERS II – **GDCN**
 SPAN 2000 INTERMEDIATE SPANISH I – **GDCN**
 SPAN 2 001 SPANISH FOR HERITAGE STUDENTS – **GDC**
 SPAN 2100 INTERMEDIATE SPANISH II – **GDCN**
 SPAN 3000 CINEMA FOR SPANISH CONVERSATION - **GDCN**

<p>The Arts: 5 courses</p>	<p>12</p>
<p>ARTS CLUSTER: (ART) (Minimum 12 credits) WRITING REQUIREMENT: ENGL 1100 WRITING I or HON 1050 HONORS ENGLISH I ENGL 1200 WRITING II or HON 1100 HONORS ENGLISH II ARTS OR MUSIC: (One course required) ART 1100 ART APPRECIATION ART 1300 INTRODUCTION TO STUDIO ART ART 1400 INTRODUCTION TO DRAWING ART 1450 INTRODUCTION TO PAINTING (RENUMBERED) ART 1600 DESIGN ART 1650 THREE DIMENSIONAL DESIGN ART 1720 CONTEMPORARY ART(RENUMBERED) ART 2010 ANCIENT AND MEDIEVAL ART ART 2150 ART OF PUPPETRY-SCULPTURE INTO THEATER ART 2300 AMERICAN ART – BEING RETIRED ART 2350 AMERICAN ART I ART 2360 AMERICAN ART II ART 2450 WATER-BASED MEDIA ART 2550 ART OF THE RENAISSANCE – GDA ART 2700 BAROQUE ART – GDA ART 2800 ASIAN ART – GDAN ART 2800 NORTHERN RENAISSANCE ART ART 2850 ITALIAN RENAISSANCE ART ART 2900 19TH CENTURY ART -GDA ART 3150 EARLY 20TH CENTURY ART – GDA ART 3300 HISTORY OF ARCHITECTURE - GDA ART 3500 MODERN ARCHITECTURE – GDA ART 3700 WOMEN, ART AND SOCIETY ART 3800 ARTS AND CULTURE ABROAD - GDA HON 1070 MOZART TO MODERNISM – GDA HON 2150 CONTEMPORARY ISSUES IN HUMANITIES - GDA MUSC 1000 ART OF MUSIC – GDA MUSC 1100 WOODSTOCK TO IPOD MUSC 1400 INTRODUCTION TO MUSIC TECHNOLOGY MUSC 1500 WORLD MUSIC – GDAN MUSC 2100 COMMONWEALTH OF ANCIENT ARTS – GDAN MUSC 2120 COMMONWEALTH OF THE ASIAN ARTS - GDAN MUSC 2000 COMMONWEALTH OF THE ARTS – GDAN MUSC 2200 BASIC MUSIC THEORY MUSC 2210 COMMONWEALTH OF THE ARTS MEDIEVAL TO BAROQUE MUSC 2310 COMMONWEALTH OF THE ARTS CLASSICAL TO CONTEMPORARY MUSC 2300 CHORAL ARTS MUSC 2400 INSTRUMENTAL INSTRUCTION MUSC 2500 CLASS PIANO MUSC 2600 CLASS VOICE MUSC 3100 SYMPHONY MUSC 3450 APPRECIATING THE AMERICAN MUSICAL MUSC 3455 MUSIC AND FILM MUSC 3460 FILM SCORING MUSC 3550 ROMANTICISM AND ROCK - GDA</p>	

MUSC 3600 WOMEN, MUSIC, AND SOCIETY – **GDA**
 MUSC 3800 HISTORY OF JAZZ
 MUSC 3900 BAROQUE AND CLASSICAL MUSIC - **GDA**
LITERATURE COURSES: (One course required)
 ENGL 2000 AMERICAN LITERATURE I
 ENGL 2100 AMERICAN LITERATURE II
 ENGL 2200 ENGLISH LITERATURE I
 ENGL 2210 ENGLISH LITERATURE II
 ENGL 2220 ENGLISH LITERATURE III
 ENGL 2300 LITERATURE AND DISABILITY
 ENGL 2330 LITERATURE AND FILM
 ENGL 2340 AMERICAN POLITICAL FILM AND LITERATURE
 ENGL 2400 WORLD LITERATURE I – **GDAN**
 ENGL 2500 WORLD LITERATURE II – **GDAN**
 ENGL 2600 BIBLE AS LITERATURE
 ENGL 2620 CLASSICAL MYTHOLOGY
 ENGL 2650 ETHNIC AMERICAN LITERATURE
 ENGL 2660 19TH C AFRICAN AMERICAN LITERATURE
 ENGL 2670 20TH C AFRICAN AMERICAN LITERATURE
 ENGL 2700 SHORT STORY
 ENGL 2710 INTRO TO SCIENCE FICTION AND FANTASY
 ENGL 2730 HISTORY OF THEATER I – **GDAN**
 ENGL 2740 HISTORY OF THEATER II – **GDAN**
 ENGL 2750 DETECTIVE FICTION
 ENGL 2890 STORYTELLING AND THE ORAL TRADITION
 ENGL 2900 CHILDREN’S LITERATURE
 ENGL 2910 LITERATURE FOR YOUNG ADULTS
 ENGL 3000 WORLD DRAMA – **GDAN**
 ENGL 3010 AMERICAN DRAMA
 ENGL 3020 MODERN DRAMA – **GDA**
 ENGL 3025 ENGLISH STUDIES ABROAD – **GDA**
 ENGL 3030 MIDDLE AGES
 ENGL 3040 BRITISH LITERATURE SINCE WW II
 ENGL 3050 20TH CENTURY IRISH LITERATURE
 ENGL 3060 MODERN POETRY
 ENGL 3061 JEWISH AMERICAN LITERATURE AND CULTURE - **GDA**
 ENGL 3070 EUROPEAN LITERATURE I – **GDA**
 ENGL 3080 EUROPEAN LITERATURE II – **GDA**
 ENGL 3091 ASIAN CINEMAS – **GDAN**
 ENGL 3092 TRANSATLANTIC LITERATURE - **GDA**
 ENGL 3093 REBELS IN AMERICAN FILM AND LITERATURE
 ENGL 3110 WORLD NOVEL SINCE 1914 – **GDAN**
 ENGL 3090 QUESTIONING WAR IN FILM AND LITERATURE
 ENGL 3120 GOLDEN AGE OF ENGLISH RENAISSANCE
 LITERATURE
 ENGL 3210 MAJOR AMERICAN WRITERS OF THE 20TH C
 ENGL 3230 AMERICAN NOVEL 1950
 ENGL 3300 WOMEN IN LITERATURE
 ENGL 3620 THE CLASSICAL TRADITION
 ENGL 3700 TRADITION IN WESTERN LITERATURE
 ENGL 3700 AFRICAN LITERATURE - **GDAN**
 ENGL 3710 SOUTH ASIAN LITERATURE – **GDAN**
 ENGL 3720 CARIBBEAN LITERATURE – **GDAN**
 ENGL 3750 THE ILLUSTRATED BOOK AND THE RISE OF THE
 GRAPHIC NOVEL
 ENGL 3880 FOLKLORE IN AMERICA - **GDA**

HON 2100 HONORS SEMINAR: LITERATURE OTHER ARTS COURSES: COMM 2400 HISTORY OF PHOTOGRAPHY COMM 2405 HISTORY OF FILM I COMM 2415 HISTORY OF FILM II COMM 2420 HISTORY OF TELEVISION COMM 2430 HISTORY OF GRAPHIC DESIGN COMM 3200 CONTEMPORARY CINEMA ENGL 2850 INTRODUCTION TO CULTURAL STUDIES ENGL 3450 WRITING FILM CRITICISM SPCH 1000 INTRODUCTION TO SPEECH SPCH 1100 ARGUMENTATION AND DEBATE SPCH 1400 SMALL GROUP COMMUNICATION SPCH 1600 PUBLIC SPEAKING SPCH 1700 VOICE AND ARTICULATION SPCH 2600 PERSUASION THEA 2700 ACTING I THEA 3003 DRAMATURGY THEA 3850 PLAY ANALYSIS		
<i>Sub Total General Education Credits</i>		48 (34 of which are contained in the major).
<i>Curriculum Summary</i>		
Total number of courses required for the degree	31 (97 credits)	
Total number of additional General Education courses (all in The Arts)	5 (15 credits)	
Free Electives	3 (at least 8 credits)	
Total credit hours required for degree	120	