IA 405. Ethics, Law and Intelligence Analysis. 3 credits.
This course will examine ethical and legal issues raised in the practice of intelligence analysis. It will draw on philosophical ethical theories and reasoning to explicate the issues addressed, and will explore the relevant constitutional and other legal constraints on the practice of intelligence analysis, particularly issues of information privacy, civil liberties and limitations on government action. Prerequisite: IA 314.

IA 440. Seminar in Intelligence Analysis. 3 credits.
This course will focus on important issues in the theory and practice of intelligence analysis as the basis for implementing team projects in the IA Capstone Seminar. Students will individually identify, analyze, plan and report on a feasible capstone seminar project. Students will then organize teams and develop plans to complete a subset of the most promising projects in the Capstone Seminar. Prerequisites: Senior standing in the IA program and IA 314.

IA 450. Capstone Project in Intelligence Analysis. 3 credits.
Building on the Seminar on Issues in Intelligence Analysis students will complete and present solutions for team-based intelligence community or competitive intelligence IA projects. Students will produce written and oral technical reports/briefs of their results. Prerequisite: IA 440.

IA 459/ISAT 459. Awareness and Understanding of Chemical, Biological and Radiological Weapons of Mass Destruction. 3 credits.
This course introduces awareness, scientific and societal impact of weapons of mass destruction (WMD) agents. Students study the development of vaccines and therapeutic and diagnostic drugs used in the detection and treatment of these agents. The course consists of lectures and safety training sessions that introduce tactical and logistical techniques used against chemical, biological and radiological WMD. Prerequisite: Basic chemistry and/or biology.

IA 460. All Hazards Response And Management Systems. 3 credits.
Incident Command Systems enable incident management by integration of facilities, equipment, personnel, procedures, and communications operating in a common organizational structure. ICS is used to organize near and long-term operations for a spectrum of emergencies, small to complex incidents, natural and man-made. ICS is used by government, many private and nongovernmental organizations in 5 major functional areas: command, operations, planning, logistics, and finance and administration.

IA 480. Selected Topics in Intelligence Analysis. 3 credits.
This course will examine topics of interest to upper-division students in intelligence analysis not otherwise offered in regular course offerings. They are offered only with the approval of the program director and they may be repeated when course content changes. Students should consult with the instructor prior to enrolling in the course. Prerequisites: Junior standing.

IA 499A. Honors Thesis I. 1 credit. Spring only.
This is an honors thesis proposal course. It is the first of the three-course sequence intended to satisfy the requirements for the honors program as well as the Intelligence Analysis program. Students will develop a thesis proposal, including objectives, audience, literature review, timeline and deliverables. The goal of the course is for the student to develop a compelling and complete senior thesis proposal. Prerequisites: Junior standing; must be in the honors program.

IA 498B. Honors Thesis II. 3 credits. Fall only.
This is an honors thesis development course. It is the second of the three-course sequence intended to satisfy the requirements for the honors program as well as the Intelligence Analysis program. Most of the course will be jointly administered/taught with IA 440: Senior Seminar in Intelligence Analysis. In addition, students may be required to meet with the instructor to discuss progress on his or her project. Prerequisite: Senior standing; must be in the honors program.

IA 499C. Honors Thesis III. 3 credits. Spring only.
This is an honors thesis completion course. It is the third of the three-course sequence intended to satisfy the requirements for the honors program as well as the Intelligence Analysis program. Most of the course will be jointly administered/taught with IA 459: Capstone Project in Intelligence Analysis. In addition, students may be required to meet with the instructor to discuss progress on his or her project. Prerequisite: Senior standing; must be in the honors program.

**Interdisciplinary Liberal Studies**

IDLS 350. Literacy and Society. 3 credits.
An exploration and analysis of societal literacy practices as viewed through cognitive, cultural, class, workplace and technological lenses. Prerequisite: WRITC 103 or equivalent.

IDLS 391. Study Abroad. 1-6 credits.
Credit for academically-grounded, interdisciplinary study abroad. Students seeking credit must secure the approval of the department head and a faculty supervisor who will provide the academic structure, assignments and student evaluation.

IDLS 395. Topics in Interdisciplinary Liberal Studies. 1-6 credits.
Examination of selected interdisciplinary topics of importance to teacher education content areas. May be taken for a maximum of six credit hours toward the major.

IDLS 400. Seminar in Liberal Studies. 3 credits.
Capstone seminar for IDLS students in humanities/social sciences content area. Students will apply different disciplinary perspectives to a single topic. Course requirements will emphasize superior written and oral communication skills and the integration and application of content area knowledge to the teaching environment. Prerequisites: Students must have completed their IDLS core requirements and be within one course of completing the track. Education students should be in their third semester of their teacher education program.

IDLS 486. Internship and Field Experience. 1-6 credits.
IDLS credit for academically-grounded internships and field experiences. Students seeking credit must secure the approval of the department head for the use of academic structures, assignments and evaluation plans provided by qualified internship or field experience supervisors.

IDLS 490. Independent Study in Interdisciplinary Liberal Studies. 3 credits.
Individualized projects in interdisciplinary liberal studies. Prerequisite: Permission of the director.

IDLS 499A, B and C. Honors. 1-6 credits.

**Interdisciplinary Social Science**

ISS 200. Introduction to the Social Sciences. 3 credits.
The course serves as an introduction to the social sciences. It includes a review of the general content of selected social sciences with emphasis on primary focus, methods employed and perspectives guiding each disciplinary approach. The course will vary each semester according to the interests and specialization of the instructor(s).

ISS 300. Experiential/Service Applications. 3 credits.
Provides students with practical work experience through an internship, service learning program, etc. This experience culminates in the application of knowledge and skills emerging from previous courses. Prerequisite: Junior standing.

ISS 330. Maps, Money and World Trade. 3 credits.
This is an interdisciplinary class designed to help students, especially future teachers, integrate perspectives from various disciplines, especially history, geography, and economics, into a coherent account of an increasingly globalized world. We will pay particular attention to map construction and use (both historical and contemporary) and the relationship between economic ideas and world events, focusing on a variety of case studies over the last millennium.

ISS 400. Senior Seminar in Social Science. 3 credits.
The course builds upon all previous course listings and serves as the final integrating experience providing closure to the interdisciplinary social sciences. Students are expected to integrate theories, research and/or methods from several social science disciplines to present a senior level research paper. The course will vary each semester according to the interests and specialization of the instructor.

**International Affairs**

INTA 295. Cross-National Research Skills. 4 credits.
Students learn how to conduct research from theory formulation through data collection and hypothesis testing in the field of international affairs. Special emphasis on research and computer literacy. Prerequisite: MATH 220.

INTA 301W: The Washington Semester Experience: Global Affairs. 3 credits.
Part of the "Global Affairs" Washington Semester program, the course entails intensive study of a global theme. The theme's dynamics will be explored in varied settings: localities, nation-states, global geographic regions and international organizations (both governmental and non-governmental). The course provides outlets for engagement with policy actors and institutions based in Washington, D.C., as well as for individual and group experiential learning activities. Prerequisite: Enrollment in the Washington Semester program.
INTA 489. Seminar in International Affairs. 4 credits.
This is the capstone course in the international affairs major. It provides an interdisciplinary overview of the fields within international affairs and an opportunity for students to complete individual research projects on international problems. Prerequisites: Completion of all courses in the core requirement of the major and senior standing.

International Business
IB 294. Internship Abroad. 3 credits.
A course providing students an opportunity to work in an organization abroad in order to gain insight into the practical side of modern business operations.
IB 298. Special Topics in International Business. 3 credits.
The course is designed to allow exploration of current topics in international business. Course content will vary. See program director for current content.
IB 480. International Business Theory and Policy. 3 credits.
The course is designed to serve as an application of theory for business students to allow them to put the total picture of international business together. Prerequisite: IB major, senior standing.
IB 490. Special Studies in International Business. 1-3 credits.
Designed to give capable students in international business an opportunity to complete independent study under faculty supervision. Prerequisites: GPA of 2.8, recommendation of the instructor and approval of the director prior to registration.
IB 494. International Business Internship. 3 credits.
A course providing students an opportunity to work in and with an organization in order to gain insight into the practical side of modern international business operations. Prerequisites: IB major, completion of 85 credit hours and COB 300, minimum cumulative GPA of 3.0, and approval of director of International Business program prior to registration.
IB 498. Special Topics in International Business. 3 credits.
An advanced course designed to allow exploration of current topics in international business. Course content will vary. See the program director for current content. Prerequisites: COB 300 and permission of the instructor.
IB 499. Honors. 6 credits.
See catalog section "Graduation With Honors."

Interprofessional Education
IPE 201. Health Professionals in Diverse Communities. 1 credit. Offered fall.
An introduction to skills in professionalism and interprofessional collaboration in addressing local and global health challenges. First year pre-professional health students examine social determinants of health and diverse communities, and learn skills in reflection as they interact with health professionals and faculty. Prerequisite: Membership in the Huber Learning Community.
IPE 202. Health Care Service in Diverse Communities. 2 credits. Offered spring.
This course is the second in a two-course sequence for first year pre-professional health students in the Huber Learning Community. Students examine interprofessional perspectives on complex global health issues and apply skills in professionalism, integration, collaboration and reflection to community-based, experiential service learning. Prerequisites: IPE 201 and membership in the Huber Learning Community.
IPE 220. Adult Health and Development Program. 3 credits. Offered fall.
In this academic course and outreach program to adults age 55+ in the surrounding community, JMU students are trained to work 1:1 with the surrounding community, JMU students are trained to work 1:1 with the surrounding community, JMU students are trained to work 1:1 with the surrounding community, JMU students are trained to work 1:1 with the surrounding community, JMU students are trained to work 1:1 with the surrounding community, JMU students are trained to work 1:1 with the surrounding community, JMU students are trained to work 1:1 with the surrounding community, JMU students are trained to work 1:1 with the surrounding community. Students examine social determinants of health and diverse communities, and learn skills in reflection as they interact with health professionals and faculty. Prerequisite: Membership in the Huber Learning Community.
IPE/HTH/NSG/SOWK 314. Rural Health: An Interprofessional Approach. 3 credits.
Students study, observe and participate in interprofessional assessment, planning and delivery of community-based primary health care in partnership with residents and agencies of a host rural county. Learning activities will emphasize rural culture, rural health care and interprofessional practice.
IPE 320. Adult Health and Development Program – Leadership. 3 credits. Offered fall.
Both an academic course and an outreach program to adults age 55+ in the surrounding community, this course offers JMU students who have previously participated in the program the opportunity to become senior staff who provide program leadership, oversight and implementation to the program. Prerequisites: Permission of the instructor and completion of one semester of AHDP.
IPE 391. Introduction to Informatics for Health Care Professionals. 1 credit.
Electronic health records and health apps exemplify how health information technology (IT) is changing health care today. Students will learn how health IT tools and big data can improve communication between health providers, support better patient outcomes and reduce spending on health care. Designed with an emphasis on interprofessional collaborative practice, students will learn about their own and others’ professional roles and responsibilities in achieving health goals using health IT.
IPE 401. Workshops in Interprofessional Education and Practice. 0 credits.
IPE workshops offer a time-limited and concentrated focus on issues that are specific to interprofessional education and/or practice.
Healthcare ethics is a shared, relevant concern among health and human service disciplines; it is an ideal vehicle for students to learn other discipline perspectives. Students examine dilemmas encountered in practice and apply interprofessional knowledge using a case method of instruction. Readings and activities emphasize interprofessional competencies and ethical principles for practice in the context of respectful communication, analysis and problem solving in interprofessional teams.
IPE 440. International Health and Human Services in Malta. 4 credits. Offered May.
This May session, study abroad course examines health issues in Malta and provides a team oriented project experience. Project participation, tours and arranged meetings with local experts are used to illustrate health related problems that apply globally and which are compared and contrasted with those in the United States.
IPE/NSG 460. Healthcare Informatics. 2 credits.
This course focuses on the nature and functions of present and future application of health care informatics. Emphasis is on preparing current and future health care professionals to plan, design, collaborate with other health care disciplines, and utilize healthcare informatics for effective health care delivery, health organizational management and improved client outcomes. Prerequisite: Minimum of sophomore standing.
IPE 490. Special Topics in Health and Human Services. 0-4 credits. Offered fall and spring.
This course involves topics of special interest in the area of health and human services but is open to all students. The focus of specific courses is identified for specific offerings. Courses are offered based on faculty and student interests.

Interdisciplinary Science
ISCI 101. Physics, Chemistry and the Human Experience. 3 credits.
A survey of the fundamental concepts, principles and ideas of chemistry and physics. Particular emphasis is placed on understanding the development of the principles and their application in understanding the world around us. May be used for general education credit. Prerequisite or corequisite: One of the following: MATH 103, MATH 107, MATH 205, MATH 220, MATH 231 or MATH 235.
ISCI 104. Scientific Perspectives. 1 credit.
A study of topics selected to allow students to participate in mathematical and scientific problem solving approaches to knowledge. May be used for general education credit. Prerequisite or corequisite as indicated on MyMadison.
ISCI 171. Earth and Planetary Science for Teachers. 3 credits.
This course provides university-level foundations of earth and planetary science for future pk-8 teachers. Content aligns with various teacher competencies, and includes such topics as the formation and evolution of the earth and the earth’s solar system, the characteristics of stars, planets, asteroids, and comets, and how earth and planetary science knowledge and technologies function with social context. Hands-on, experiential inquiry will be integrated into the course, as will an exploration of such methods as observation, classification, comparison, measurement, data interpretation, mathematical analysis, inference, prediction, and hypothesis testing. Normally open to IDLS majors only, but other students may request admission by special permission. May be used for general education credit.

http://www.jmu.edu/catalog/15