USING THIS BULLETIN

Changes to the Undergraduate Bulletin

Changes to the Undergraduate Bulletin will be tracked in real-time and listed below. At the end of every semester, these updates are incorporated into the Bulletin.

Courses Added: Effective Summer 2022

- ADTED 300: Social Movements and Education: Global Perspectives
- AG 180N: Contemporary Issues in Food, Ag, Natural Resources, and Human Sciences
- ANTH 434N: Black Ecologies
- BBH 330: Clinic Intern Training
- BBH 426: HealthWorks Peer Education Experience
- BIOL 128: Investigations in Anatomy with Cadavers
- BIOL 477: Biology Cadaver Dissection
- BIOL 484: Biodiversity of Pennsylavnia
- BIOL 489: Biology of Ecohealth in Tanzania
- CMLIT 7: Introduction to Middle Eastern Literatures
- CMPSC 330: Advanced Programming in C++
- CMPSC 446: Data Mining
- CMPSC 476: Systems Debugging
- DS 305: Algorithmic Methods and Tools
- DS 440W: Data Science Capstone
- EARTH 10: Energy and Earth's Climate
- EDUC 414: Teaching Secondary Science
- ENGL 10: Group Writing Tutorial
- ENT 440: Plant-Insect Interactions
- FIN 426: Analysis of Interest Rates and Debt Markets
- FIN 480: Alternative Investments
- FRNSC 490: Traceology & Event Reconstruction
- FRNSC 412: Laboratory in Criminalistics: Trace and Impression Evidence
- HDFS 101S: "Helping People:" Introduction to Understanding Social Problems & How to Help
- HHD 245N: Health, humanity, and longevity: Conversations with elders
- HIST 305Y: Middle East Studies Research Workshop
- HIST 400: Global History of Food and Famine
- HIST 425: History of the Incas
- HLS 495: Homeland security internship
- HM 210N: The Impact of Culture and Customs in Global Hospitality Environments
- HPA 123S: Exploring Health Policy and Administration
- IST 144N: Invasion of Technology from a 21st Century Perspective
- KINES 470: Genetics and Human Physical Performance
- ME 493: ME Honors Thesis Writing Preparation
- MUSIC 127: Introduction to Music Technology
- MUSIC 177: ROARS Lab
- MUSIC 437: Music Information Retrieval and Computer-Assisted Music
- MKTG 495A: Penn State Prime Practicum: Brand Management and Campaign Strategy
- RHS 93: WorkLink Seminar I

Courses Dropped: Effective Summer 2022

- RHS 193: WorkLink Seminar II
- RHS 295A: WorkLink Internship
- RHS 404: Rehabilitation Services for Transition Age Youth with Disabilities: Theory and Practice
- RHS 493: Professional Development and Internship Preparation in RHS
- SPLIED 410: Culturally Responsive Pedagogy in Special Education
- SPLIED 495D: Professional Development for Special Education Teacher Candidates
- STS 115: Pre-departure Intercultural Learning
- THEA 206: Critical Theory for Performance
- THEA 474: Theatre Design History I
- THEA 475: Theatre Design History II
- WFED 472: Platform Skills for Workplace Learning and Performance

Course Changes: Effective Summer 2022

ARTH 475: Contemporary Women Artists (3 Credits) (US) (BA)
Old Listing Effective Through Spring 2022:

An interdisciplinary course that investigates women artists who were integral to the production of contemporary art primarily in the Americas, Europe, and Asia. Cross-Listed Courses: ART 475 Prerequisites: Enforced Prerequisite at Enrollment: Fifth-semester standing and ARTH 111 and ARTH 112 and enrollment in the ARTBA_BA, ARBFA_BFA, AED_BS, or INART_BA degree program.

Changes Effective Summer 2022:

- Prerequisites

ARTH 476: History and Theory of Digital Art (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

History and theories of contemporary digital art emphasizing humanistic approaches to technology. ART 476 / ARTH 476 History and Theory of Digital Art (3)(BA) This course meets the Bachelor of Arts degree requirements. Approaches to Digital Art is a survey class that will offer the web designer, cyberspace architect, MUD traffic controller or enthusiastic surfer an opportunity to examine the humanistic aspects of contemporary digital art. Through readings and direct interaction with digital media and digital artists, the class will develop an appreciation of the ways in which the interface between human beings and technology has been historically constructed and is subject to critical investigation. The goal of the class is to prepare each student so that she or he may engage with digital media in a way that is every more historically and socially self aware. Students will address the ways in which digital technologies transform artistic practices such as museum display, the writing of art criticism, the definition of works of art, changing role of the artist and the changing space of the art studio. More important, however, by engaging with digital works of art students will learn to think critically about technology and its engagement with culture at large. They will be encouraged to think about the political, economic and social impact of digital technologies. This humanistic approach to technology would make this course particularly useful to students of art history,
philosophy, comparative literature, art education, and the visual/plastic arts. A significant portion of the course will be devoted to the ways in which art on the internet and digital art in general challenge the integrity of categories such as race and national identity. For example, students will have an opportunity to engage with African American artists such as Keith Obadike, whose on-line performances include an attempt to put his “blackness” up for sale on ebay.com in August of 2001. Students may also look at the ways in which net.art (Art made to be viewed on the internet) can critique commercial cooption of global culture: etoy.com, for example, is an international and collaborative artist’s group that satirizes global capital by camouflaging itself as a multinational corporation. This class will depend largely upon written responses and class discussion, rather than upon tests. Thus, students will learn how to approach difficult theoretical sources that have been assigned to them, and they will learn how to ask the kinds of questions that will help them understand such sources. This course will emphasize critical thinking rather than memorization, so students will develop analytical skills that will be useful in many other contexts. Because students will be given weekly writing assignments, they will be able to improve their skills in composition.

Cross-Listed Courses: ART 476;
Prerequisites: Enforced Prerequisite at Enrollment: ARTH 100 or ARTH 112 or ARTH 307 or ARTH 325 or ARTH 326 or ART 211

Changes Effective Summer 2022:

• Prerequisites

BBH 410: Developmental and Health Genetics (3 Credits)
Old Listing Effective Through Spring 2022:

Discussion of genetic influences on development and the interrelationships between genetics and health.

Prerequisites: Enforced Prerequisite at Enrollment: (BIOL 133 or BIOL 222) and (STAT 200 or STAT 250)

Changes Effective Summer 2022:

• Abbreviated Title
• Description
• Prerequisites

BBH 440: Principles of Epidemiology (3 Credits) (US) (IL)
Old Listing Effective Through Spring 2022:

Theory of epidemiology and significant case studies; potential applications to health care. BBH / HPA 440 Principles of Epidemiology (3) (US) (IL)This course is designed to provide students with a basic understanding of the principles of Epidemiology and to familiarize students with the methods and applications of epidemiology to understanding the bases for heterogeneity of disease and health among populations. The goals of the course are: 1) recognize and use basic principles, concepts, terminology, and techniques in Epidemiology as applied to the study of infectious disease, chronic diseases, and other health-related problems; 2) examine and understand measures of risk and burden of illness on populations defined in terms of age, race, gender, class, time, and other relevant socio-cultural and demographic factors; 3) be able to interpret and critique epidemiological research reports on the identification of risk factors and casual factors for diseases in populations; 4) assess the health status and burden of diseases and health problems of populations at multiple levels of analysis for the purpose of planning health promotion activities and health care services; 5) have a basic understanding of the epidemiology tools for disease screening and other methods for primary and secondary prevention of disease and health problems; 6) examine the validity and applicability of various health interventions used to improve health status and the barriers for successful interventions; and 7) have a basic understanding of the epidemiology of the major causes of morbidity and mortality in the U.S. and for other selected regions and nations of the world. This is a required course in the Biobehavioral Health major and an elective course in the Health Policy and Administration major. The course is also appropriate for students intending to advance to post-baccalaureate graduate and professional programs in medicine, public health, health policy and planning, and other health-related careers. Students will be evaluated based on their performance on a combination of written assignments, a term paper or project, and exams.

Cross-Listed Courses: HPA 440
Prerequisites: Enforced Prerequisite at Enrollment: (BBH 101 or BIOL 110 or HPA 310) and (STAT 200 or STAT 250)

Changes Effective Summer 2022:

• Abbreviated Title
• Description
• Prerequisites

BIOL 220M: Honors Biology: Populations and Communities (4 Credits) (H) (WF) (BA)
Old Listing Effective Through Spring 2022:

Honors study of the major physical, chemical, and biological factors constituting environment and their dynamic interaction with organisms forming ecosystems. A study of the structures and functions of organismic interactions from simple populations to complex ecosystems. (BIOL 220W, BIOL 230W, and BIOL 240W each carry only 1 credit of “writing”; all three courses must be taken to meet the writing requirement.) BIOL 220M is an introductory course in ecology. It introduces students to the fundamental ecological principles, concepts, patterns, and processes regarding populations, communities, and ecosystems. This course provides students with a foundation of ecological science, as well demonstrating linkages between ecology, population genetics, and evolution. The course objectives are the same as those described in the original course proposal and are to provide students with a fundamental understanding of: 1) genetic processes within populations of living things, 2) evolutionary processes involved in speciation, 3) dynamic interactions of organisms within and among populations, especially pertaining to energy cycles, various biogeochemical cycles, predator-prey interactions, and the like, and 4) distribution patterns of living organisms and the need to conserve the resources of the earth.

Prerequisites: Enforced Prerequisite at Enrollment: BIOL 110H

Changes Effective Summer 2022:

• Prerequisites

BIOL 240M: Honors Biology: Function and Development of Organisms (4 Credits) (H) (WF)
Old Listing Effective Through Spring 2022:

Honors study of development and physiological processes at the organismic level. (BIOL 220W, BIOL 230W, and BIOL 240W each carry
only 1 credit of “writing”; all three courses must be taken to meet the writing requirement.) This course provides an understanding of the major unifying principles as they apply to the study of the development and physiological mechanisms utilized by organisms from both animals and plants. In lecture a comparative approach will be taken in the examination of reproduction, development, and physiology primarily at the organ level. In laboratory, experimental investigations of both animal and plant systems will reinforce the concepts covered in lecture. Through the lab, students are expected to become proficient in the interpretation and presentation of experimental results through written and oral reports. Taken together with the other core courses in the biology curriculum ( BIOL 110, BIOL 220, BIOL 230W ), BIOL 240M will help students to integrate concepts ranging from molecular and cellular events through principles governing entire populations and ecosystems. Further, BIOL 240M provides the foundation on which students further their study of animal physiology and development—two of the largest options in the biology majors’ curriculum. Through this class, and the other core course, students will develop skills integral to the General Education mission. Evaluation methods in the lecture part of the course include two to three “mid-term” exams and a comprehensive final exam. Evaluation methods in the lab portion of the course include in-class quizzes, one or more formal lab reports on experiments or data analysis conducted in lab sessions, and short write-ups of existing data sets or relevant ecological issues. The Honor’s version of the course will differ in a number of ways from the parent BIOL 240W course. First, there are more opportunities to discuss current applications of the information. In addition, a unique project (either in lab and/or in lecture) will allow students to explore a specific area of the course in more detail (e.g., students choose a topic in the current literature and present a paper along with its significance to the class). Where appropriate, students will be exposed to current research in specific areas. The evaluation for the course will be modified from that of the parent course in accordance with the changes in assignments.

Prerequisites: Enforced Prerequisite at Enrollment: BIOL 110H and CHEM 110 or CHEM 110H

Changes Effective Summer 2022:

• Prerequisites

CAMS 440W: Studies in Classical and Ancient Mediterranean Archaeology (3-6 Credits: Maximum of 6 Credits) (WF) (BA)
Old Listing Effective Through Spring 2022:

Selected topics in the literary sources and material evidence for classical and ancient Mediterranean society. CAMS 440W/CAMS 440W Studies in Classical Archaeology (3-6)(BA) This course meets the Bachelor of Arts degree requirements. CAMS 440W is a writing-across-the-curriculum upper level archaeology course on various topics in the broad field of ancient Mediterranean archaeology. The course will vary depending on the specific topic, which could be a study of authors such as Herodotus and/or Pausanias in relation to the archaeological record; epigraphy; numismatics; food production and consumption (e.g., diet, subsistence requirements, public dining, symposia, Roman dining, furnishings) from the literary and archaeological record; various classes of ancient Mediterranean ceramics; or the archaeological study of a specific urban site, such as Troy, Babylon, Egyptian Thebes, the Athenian Agora, or Pompeii with an emphasis upon economic and social organization. In most semesters the topic will emphasize interdisciplinary themes, such as comparative state formation, or Egyptian-Greek-Persian relations, or the cultural development of a particular society, such as the Etruscan, that was strongly influenced by interaction with other Mediterranean cultures. Students will learn of major publications in the field of study, and how to conduct searches of the previous archaeological literature and the related literary record. As one requirement, students will complete a research paper on a topic related to the particular theme of the course that semester. The sequence of writing assignments is designed to allow students to develop a project, to search for related publications, to develop a proposal, and to revise drafts of the final paper. The course is also intended to provide students with a practical background in Classical and ancient Mediterranean archaeology that will help prepare them for fieldwork at ancient Mediterranean sites, for the interpretation of archaeological publications, and, as relevant, for utilizing the literary and/or epigraphic record for interpreting archaeological evidence. Those considering enrolling in this course may obtain information about the specific topic by asking the faculty member listed as teaching the course or the Undergraduate Officer in the Department of Classics and Ancient Mediterranean Studies.

Changes Effective Summer 2022:

• Description
• Prerequisites
• Cross-Listing

CRIM 250W: Research Methods in Criminology (3 Credits)
Old Listing Effective Through Spring 2022:

The purpose of this writing-intensive course is to engage students in the social scientific research process used by criminologists to answer empirical research questions. It is the second course (after CRIM 249) that overviews theory and research in criminology. Students learn to use social science research methods through instructor-led demonstrations and applications of research methods, data analysis exercises, and critical reading of published research. Students apply their research knowledge and skills to an empirical research project completed in a sequence of steps producing written drafts that receive instructor feedback. After completion of this course, students will have acquired the following knowledge and skills: (1) The ability to generate a research question and effectively and efficiently search and review the relevant research literature. (2) A working knowledge of how to apply social science research methods and research designs to answer research questions. (3) The ability to strategically read published research articles to extract different types of information. (4) An understanding of the inductive and deductive aspects of the research process. (5) The ability to collect, analyze, and interpret quantitative and qualitative data. (6) The ability to design a quantitative research project to test hypotheses of interest to criminologists. (7) The ability to summarize and explain in writing the methods used and results derived from studies seeking answers to a common research question. (8) An understanding of social science research methods needed to be critical consumers of research and claims about crime, criminal behavior, and social response to them. (9) A certified knowledge about ethical issues in social science research.

Cross-Listed Courses: CRIMJ 250W
Prerequisites: CRIM 12

Changes Effective Summer 2022:

• Remove Cross-Listing
• Prerequisites

CRIM 490: Crime Policy (3 Credits)
Old Listing Effective Through Spring 2022:
This course focuses on criminal justice policy and the factors that influence policy development and implementation. CRIM 490 Crime Policy (3) This class will study crime and criminal justice in the context of law and the development and implementation of public policy. The course will focus on the politics of law and social control by exploring the construction of crime as a social problem, fundamental aspects of the policy development and implementation process, the legal interpretation of public policy, and the role of federal, state, and local governments in crime control. Students will be evaluated on essay exams and a term paper. This course is intended to be a capstone course for advanced undergraduates. The course will draw on the broad range of course work that students will have taken prior to taking this course to develop a course that takes what we know about crime, the law and the justice system and focus on public policy as it relates to these areas. The course may be used toward the six credits required at the 400 level under Additional Courses or as one of the courses under the Legal Studies Option.

Changes Effective Summer 2022:

- Prerequisites
- Cross-Listing

DS 310: Machine Learning for Data Analytics (3 Credits)
Old Listing Effective Through Spring 2022:

The course teaches students the principles of machine learning (and data mining) and their applications in the data sciences. DS 310 Machine Learning for Data Analytics (3) The course introduces the principles of machine learning (and data mining), representative machine learning algorithms and their applications to real-world problems. Topics to be covered include: principled approaches to clustering, classification, and function approximation from data, feature selection and dimensionality reduction, assessing the performance of alternative models, and relative strengths and weaknesses of alternative approaches. The course will include a laboratory component to provide students with hands-on experience with applications of the algorithms to problems from several domains. Prerequisites for the course include basic proficiency in programming, elementary probability theory and statistics, and discrete mathematics.

Prerequisites: Enforced Prerequisite at Enrollment: (CMPSC 122 or CMPSC 131) and STAT 318

Changes Effective Summer 2022:

- Prerequisites

DS 320: Data Integration (3 Credits)
Old Listing Effective Through Spring 2022:

Recommended Preparations: DS 310 Modern data-intensive applications (healthcare, security, public policy, science, commerce, crisis management, education, among others) increasingly call for integration of multiple types of data from disparate sources. This course introduces students to the principles and the practice of data integration, with particular emphasis on relational, knowledgebased, graph-based, and probabilistic methods. Carefully crafted assignments will help enhance the students’ mastery of both the theoretical underpinnings as well as practical aspects of data integration. The students will work in teams to solve representative data integration problems drawn from real-world applications. Upon completion of the course, students should be able design, implement, and evaluate data integration solutions to support data intensive applications.

Prerequisites: Enforced Prerequisite at Enrollment: DS 220 and STAT 318

Recommended Preparation: DS 310

Changes Effective Summer 2022:

- Prerequisites

DS 410: Programming: Models for Big Data (3 Credits)
Old Listing Effective Through Spring 2022:

Recommended Preparations: DS 310; CMPSC 448 This course introduces modern programming models and related software stacks for performing scalable data analytics and discovery tasks over massive and/or high dimensional datasets. The learning objectives of the course are that the students are able to choose appropriate programming models for a big data application, understand the tradeoff of such choice, and be able to leverage state-of-the art cyber infrastructures to develop scalable data analytics or discovery tasks. Building on data models covered in DS 220, this course will introduce programming models such as MapReduce, data flow supports for modern cluster computing environment, and programming models for large-scale clustering (either a large number of data samples or a large number of dimensions). Using these frameworks and languages, the students will learn to implement data aggregation algorithms, iterative algorithms, and algorithms for generating statistical information from massive and/or high dimensional data. The realization of these algorithms will enable the students to develop data analytic models for massive datasets.

Cross-Listed Courses: CMPSC 410

Prerequisites: Enforced Prerequisite at Enrollment: (CMPSC 122 or CMPSC 132) and DS 220. Recommended Preparation: DS 310 or CMPSC 448

Changes Effective Summer 2022:

- Prerequisites

EARTH 111: Water: Science and Society (3 Credits) (US)
Old Listing Effective Through Spring 2022:

Investigation of water behavior and occurrence, its relevance to life, human activities, politics, and society. EARTH 111 Water: Science and Society (3) (GN;US) The Earth is often called 'The Blue Planet', a reference to the fact that over two-thirds of its surface is covered by water. Despite its apparent abundance, water is a valuable and limited resource; less than 2.5% of the water on the planet is fresh, and only one third of that is potable. And that's not all — the small fraction of Earth's water that is usable to humans is distributed very unevenly. As a result, conflicts over water occur from the local level, for example: pitting rancher against developer – to the global level, at which nations square off against one another in war and use water as a mechanism for imposing sanctions. The dire situation in some regions has spurred numerous research and technological endeavors, such as water desalinization, genetic engineering of crops, and major overhauls of agricultural practice. In this course, we will explore the relationships between water and human populations, with emphasis on water resources and quality in the Western U.S., and how these have shaped history and modern politics. We will focus first on developing the scientific underpinnings of water's unique properties, behavior, movement, occurrence, and quality. With this background, we will then discuss key issues relating to modern and
historical conflicts, human impacts on the natural world, and human engineering accomplishments driven by our thirst for this valuable resource. We will discuss historical examples from the American West, specifically the development of water resources in Colorado and California. We will also explore modern and historical conflicts between stakeholders. Major themes will include political and economic conflicts over (1) water resources – for example, balancing agricultural and urban demands in the American west in the Denver and Los Angeles metropolitan areas, (2) water quality – for example, considering the impact of economically profitable human activities on water quality and transmission of disease, and (3) human impacts on natural processes, specifically connecting human activity with our cultural history of water use and exploration in the American West. Our approach is to include a substantial component of student-initiated learning. The course will include critical evaluation and discussion of assigned reading and films, a series of laboratory exercises and field trips to illustrate concepts and stimulate discussion, and a major research paper.

Changes Effective Summer 2022:

- Add GS Designation
- Add Inter-Domain Designation
- Change Course Number to 111N
- Description

EDUC 495B: Senior Field Experience (1 Credit: Maximum of 1 Credit)
Old Listing Effective Through Spring 2022:

EDUC 495B Senior Field Experience (1) This course is designed to provide Elementary Education majors with an intensive field experience that acquaints the student with the ‘real’ world of elementary education in an urban setting. The experience will be under the direction of a certified elementary teacher in the Harrisburg or Steelton-Highspire School Districts. Students will have an opportunity to actively work at the primary (K-3) and/or the intermediate (4-6) level, and will be directed to accomplish specific field tasks assigned by their course instructors. These tasks are directly related to each course in which the student is enrolled. Students are assigned a university supervisor who observes and consults with the students throughout the experience. Specific activities will vary depending on the grade level and the school district’s curriculum. Students are evaluated by both the cooperating teacher and the university supervisor, and evaluations are based on classroom observations. This course is offered each semester and is required of all students enrolled in the Elementary Education program.

Changes Effective Summer 2022:

- Credits
- Description

EE 341: Semiconductor Device Principles (3 Credits)
Old Listing Effective Through Spring 2022:

Quantitative description of properties and behavior of materials with application to integrated circuits, photonic devices, and quantum well devices.

Changes Effective Summer 2022:

- Description
- Prerequisites
- Concurrent

EGEE 120: Oil: International Evolution (3 Credits) (US) (IL)
Old Listing Effective Through Spring 2022:

Survey of the commercial development of the world petroleum industry from various international, historical, business, and cultural perspectives. EGEE 120 Oil: International Evolution (3) (GS;US;IL) Oils is the world’s most important commodity. Access to oil was decisive in the great military struggles of the 20th century. The economic and strategic value of oil has led to the evolution of a fascinating array of business, political, and strategic alliances around the world. The objective of this course is to describe this evolution and the technological, commercial, and political innovations shaping its current face. This knowledge is vital in achieving a more complete understanding of the role of oil in international affairs and economic development. The course begins with a discussion of the development of the American and European oil industries during the 19th century and the formation of the first great industrial oil monopolies. The emergence of oil as a strategic commodity prior to and during World War I will then be discussed. The economic and technological reasons for the recurring boom-bust cycles of oil markets and the political arrangements developed to cope with their effects is the third major topic of the course. The focus then shifts back to military affairs with a discussion of the role of oil in the battles of World War II. We then examine the social and cultural roots of the post-war dissolution of company ownership and the nationalization of oil reserves. Also in the policy arena, is a discussion of the policy response of western governments to a growing dependence upon low-cost oil from the Middle East, Africa, and South America. The analysis then focuses on the ideology and strategy behind the formation of the Organization of Petroleum Exporting Countries (OPEC) and the motivations and execution of their strategies to drive up oil prices during the 1970s and early 1980s. The last part of the course discusses the emergence of oil as a commodity traded in open commodity market exchanges, the development of reserves in deep water and in Africa, and the relationship between oil policy and the war on international terrorism. The course will be offered during the spring semester and will include a field trip to the Pennsylvania oil region. Evaluation and assessment of student performance will rely on grading on-line quizzes and assignments, team papers and presentations, and examinations.

Changes Effective Summer 2022:

- Abbreviated Title
- Description

ENGL 2: The Great Traditions in English Literature (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

Major works of fiction, drama, and poetry from the Middle Ages to the twentieth century expressing enduring issues and values. ENGL 2 The Great Traditions in English Literature (3) (GH)(BA) This course meets the Bachelor of Arts degree requirements. Students are expected to learn fundamental skills of close textual analysis in the context of established literary texts of English and Irish fiction, drama, and poetry from the Middle Ages to the twentieth century that address large questions of ethical and social value. They are also expected to learn to talk and write clearly about the issues and ideas generated by the texts that they are directed to read. The course will require all students to confront the major interpretive problems found in their assigned readings and to participate actively in the various forms of critical thinking required to comprehend and resolve those problems. ENGL 2 will require all students to participate in an assessment of the social behavior and other values, both communal and scholarly, relevant to the texts being read.
and discussed in the course. This course fulfills a General Education humanities requirement or a Bachelor of Arts humanities requirement.

Changes Effective Summer 2022:

- Add IL Designation
- Description

ENGL 2H: The Great Traditions in English Literature Honors (3 Credits) (H) (BA)
Old Listing Effective Through Spring 2022:

ENGL 2 is a lecture/discussion course that addresses major works of English and Irish fiction, drama, and poetry from the Middle Ages to the twentieth century. The course is designed to give students an introductory appreciation of a wide range of established works of literature written in English. The goal of this course is not only to give students a sense of literary history, but also to encourage students to question how such texts express larger concerns about issues and values central to human experience. English 2 is designed to prepare students for additional college-level literature courses and to help students learn the fundamental skills of close textual analysis vital to all humanistic study. This Honors section is enriched by more rigorous requirements (longer papers, and a research component to each paper where the student is required to cite and engage critical sources and conversations). Participation requirements are also enhanced, making for a richer honors experience.

Changes Effective Summer 2022:

- Add IL Designation
- Description

ENGL 104: The Bible as Literature (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

Study of the English Bible as a literary and cultural document. ENGL 104 The Bible as Literature (3) (GH) (BA) This course meets the Bachelor of Arts degree requirements. The purpose of this course is to acquaint students with the literature of the Bible. Throughout this course, students will examine the language, thought, images, and structures of the book that has arguably proved the central text of Western literature. Students will also actively explore the ways in which the Bible has shaped the literature of English-speaking cultures. Students will read substantial portions of the Old and New Testaments, learning to read critically and to interpret the Bible as they would any other literary text. They will also learn about the historical construction of the Bible and contemplate the competing versions of existing Biblical texts. Students will be asked to complete at least three writing assignments.

Cross-Listed Courses: JST 104

Changes Effective Summer 2022:

- Add IL Designation
- Description

ENGL 129: Shakespeare (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

ENGL 129 constitutes a broad introduction to Shakespeare's dramatic works from a variety of thematic, historical, formal, and/or generic vantages. Students will practice close reading Shakespeare's language while also learning how his plays reflect upon the social and theatrical conventions of the historical period in which they were written and performed. Approaches taken to the plays will vary from class to class, but may include a chronological introduction to the development of Shakespeare's plays, a consideration of a principal Shakespearean theme or themes through a number of plays from across Shakespeare's career, a consideration of Shakespeare's protagonists through a number of plays from across Shakespeare's career, or a consideration of a number of Shakespeare's plays in historical context. The class will attend to issues such as gender, social class, politics, sexuality, and race, and students will learn how Renaissance perspectives on these issues differed from their own. In order to analyze how Shakespeare's plays continue to be adapted and transformed, the class may also involve the study of modern stage and film performances of Shakespeare. Time allotted for the discussion of each play will vary, but students should expect to read, on average, one play every 1-2 weeks. This class will prepare students for advanced courses in early modern literatures as well as other academic courses that engage in the verbal and written analysis of complex written texts.

Changes Effective Summer 2022:

- Add IL Designation
- Description

ENGL 129H: Shakespeare (3 Credits) (H) (BA)
Old Listing Effective Through Spring 2022:

ENGL 129H constitutes a broad introduction to Shakespeare's dramatic works from a variety of thematic, historical, formal, and/or generic vantages. Students will practice close reading Shakespeare's language while also learning how his plays reflect upon the social and theatrical conventions of the historical period in which they were written and performed. Approaches taken to the plays will vary from class to class, but may include a chronological introduction to the development of Shakespeare's plays, a consideration of a principal Shakespearean theme or themes through a number of plays from across Shakespeare's career, a consideration of Shakespeare's protagonists through a number of plays from across Shakespeare's career, or a consideration of a number of Shakespeare's plays in historical context. The class will attend to issues such as gender, social class, politics, sexuality, and race, and students will learn how Renaissance perspectives on these issues differed from their own. In order to analyze how Shakespeare's plays continue to be adapted and transformed, the class may also involve the study of modern stage and film performances of Shakespeare. Time allotted for the discussion of each play will vary, but students should expect to read, on average, one play every 1-2 weeks. This class will prepare students for advanced courses in early modern literatures as well as other academic courses that engage in the verbal and written analysis of complex written texts.

Changes Effective Summer 2022:

- Add IL Designation
- Description

ENGL 182: Literature and Empire (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

Literature written in English from countries that were once part of European empires, e.g., India, Canada, South Africa, and others.

Changes Effective Summer 2022:

- Add IL Designation
- Description

ENGL 182H: Literature and Empire Honors (3 Credits) (H) (BA)
Old Listing Effective Through Spring 2022:

This course fulfills a General Education requirement or a Bachelor of Arts requirement.

Changes Effective Summer 2022:

- Add IL Designation
- Description
ENGL 192: The Literature of Fantasy (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

Perhaps more than any other genre of speculative fiction, fantasy is richly varied. This course examines the development of literary traditions in fantasy literature from their earliest origins in mythology and folklore, through the historical development of classic fantasy works, into the books, movies and other fictions of the modern day. The course also explores different critical and theoretical approaches to the student of fantasy literature and related artistic traditions, as surrealism and magical realism.

Changes Effective Summer 2022:
- Add IL Designation
- Description

ENGL 202A: Effective Writing: Writing in the Social Sciences (3 Credits) (GWS)
Old Listing Effective Through Spring 2022:

ENGL 202A introduces students to the types of writing that social scientists typically do in the workplace, including research proposals, proper citation practices, literature reviews, and research reports. In discussing writing and writing activities, this class will focus on some of the more common forms of social science research – among them, experiments, interviews, observations, and surveys. Students will learn to formulate ideas and create coherent pieces of writing from the research they have conducted and read about. In short, this course will introduce students to a variety of writing and research strategies from which they can begin to develop their own identity as a social scientist. (A student may take only one course for credit from ENGL 202A, 202B, 202C, and 202D.)

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T) and 4th Semester

Changes Effective Summer 2022:
- Prerequisites

ENGL 202B: Effective Writing: Writing in the Humanities (3 Credits) (GWS)
Old Listing Effective Through Spring 2022:

Instruction in writing persuasive arguments about significant issues in the humanities. (A student may take only one course for credit from ENGL 202A, 202B, 202C, and 202D.) ENGL 202B Advanced Writing in the Humanities encourages students to develop professional writing skills most likely required in humanities careers. These writing modes include professional materials and then a wider range of writing projects that may include a professional narrative, analysis of a controversy, argumentation, persuasion, and synthesis. Students may analyze a wide-variety of texts – both verbal, digital, and visual – to learn skillful argumentation with advanced writing techniques.

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T) and 4th Semester

Changes Effective Summer 2022:
- Prerequisites

ENGL 202C: Effective Writing: Technical Writing (3 Credits) (GWS)
Old Listing Effective Through Spring 2022:

Writing for students in scientific and technical disciplines. (A student may take only one course for credit from ENGL 202A, 202B, 202C, and 202D.) ENGL 202C is an advanced writing course designed to help students in science and engineering develop the writing strategies that they will need to communicate successfully on the job and to help them understand why those strategies are appropriate and effective. A key emphasis will be on the rhetorical principles of effective communication, including context analysis and defining clear, actionable purposes. Students will gain experience with a wide range of technical writing genres, including reports, descriptions, definitions, procedures, job application documents, emails, memos, and web applications. Students will also learn about the importance of document and graphic design, including how best to design communications to maximize their potential for success.

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T) and 4th Semester

Changes Effective Summer 2022:
- Prerequisites

ENGL 223N: Shakespeare: Page, Stage, and Screen (3 Credits)
Old Listing Effective Through Spring 2022:

This course will explore the relation between literary analysis and both film and theatrical performance by asking students to approach a limited set of plays from multiple perspectives, using texts, film, and theatrical performance to integrate these methodologies. Students will work closely with Shakespearean texts, practice textual and poetic analysis, and will also examine critically different forms of performance: film and live theatre. In particular, the course will explore the interrelation of these elements, revealing a deeper imaginative understanding of works that continue to influence English-speaking literature and culture.

Changes Effective Summer 2022:
- Add IL Designation
- Abbreviated Title
- Description

ENGL 250: Peer Tutoring in Writing (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

Introduction to theories and skills of successful peer tutoring in writing. Provides tutoring experience in a writing center.

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T)

Changes Effective Summer 2022:
- Prerequisites

ENGL 310H: Honors Thesis in English (3 Credits) (H) (BA)
Old Listing Effective Through Spring 2022:

Research paper or creative project on a topic approved by the Departmental Honors Committee.

Changes Effective Summer 2022:
ENGL 312: Globality and Literature (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

Examines relationships between literature and culture, through the study of major texts in English by writers of various cultures.

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T)

Changes Effective Summer 2022:
- Add IL Designation
- Description

ENGL 400: Authors, Texts, Contexts (3 Credits: Maximum of 6 Credits) (BA)
Old Listing Effective Through Spring 2022:

Themes, cultural milieu, critical perspectives toward particular English-language authors and/or movements they represent, and the idea of authorship. (Section subtitles may appear in the Schedule of Courses.)

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T)

Changes Effective Summer 2022:
- Prerequisites

ENGL 401: Studies in Genre (3 Credits: Maximum of 6 Credits) (BA)
Old Listing Effective Through Spring 2022:

English-language texts exemplifying particular genres, with attention to critical theories, historical development, rhetorical strategies, and social, cultural, and aesthetic values. (Section subtitles may appear in the Schedule of Courses.)

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T)

Changes Effective Summer 2022:
- Prerequisites

ENGL 401W: Creative Writing Theory (3 Credits) (WF) (BA)
Old Listing Effective Through Spring 2022:

Theories of art and creativity which inform the making of literary works.

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T)

Changes Effective Summer 2022:
- Prerequisites

ENGL 402: Literature and Society (3 Credits: Maximum of 6 Credits) (BA)
Old Listing Effective Through Spring 2022:

Texts confronting social, political, technological, or other issues in the English-speaking world. (Section subtitles may appear in the Schedule of Courses.) ENGL 402 Literature and Society (3)(BA) This course meets the Bachelor of Arts degree requirements. One variation will focus on Literature and Censorship by first considering general arguments for and against censorship and then by examining texts by writers who sought publication in their own country but whose books were censored or banned. The course will consider such questions as, Are there ever legitimate grounds for censorship? How do standards of censorship differ between countries? What is the relation between censorship on political and on moral grounds? What does artistic merit have to do with concern about moral or political subversion? Works from England, South Africa and the United States will be read and discussed, and where available, excerpts from trial transcripts will be read in order to examine arguments for and against publication. Readings will include works by Milton, D. H. Lawrence, Alan Paton, Nadine Gordimer, Athol Fugard, Eugene O’Neill, Henry Miller, and Alan Ginsberg. Another variation will focus on war and gender in 20th century American literature by examining the ways male and female authors write about war. Texts will vary from battlefield experiences to repercussions of war to the symbolic implications of war. Questions will be raised about literary authority: Does one need to be combatant to write about war? If not, how does one find the authority to speak, particularly as a woman? How does race and/or ethnicity complicate one’s perceptions of American participation in war? Readings will include works by Ernest Hemingway, William Faulkner, Joseph Heller, Cynthia Ozick, Leslie Marmon Silko, Norman Mailer, Bobbie Mason, Tim O’Brien, and Toni Morrison. Another variation will focus specifically on the writings which emerged from the postwar African-American struggle for civil rights. The course will include not only fiction and poetry but also those speeches, sermons, editorials, and other forms of discourse to have emerged from the era. The emphasis will be both traditional literary concerns as well as on the various rhetorical strategies involved in each work. Ideally, the course would make visible to students the difficulties attendant upon any attempt to separate the concerns of rhetoric and persuasion too firmly from the concerns of literature. The course could conclude with a look at some of the various biographies, autobiographies, and histories written over the last twenty-five years, which attempt to shape our national memory. Other variations include literature as a response to Newtonian science or to Darwinism or to the American Depression or to postwar technology or to new dystopias or to AIDS or, as in the sample outline, the Civil Rights movement.

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T)

Changes Effective Summer 2022:
- Prerequisites

ENGL 403: Literature and Culture (3 Credits: Maximum of 6 Credits) (BA)
Old Listing Effective Through Spring 2022:

Historical, theoretical, and practical issues within cultural studies in relation to English-speaking texts. (Section subtitles may appear in the Schedule of Courses.) ENGL 403 Literature and Cultural Studies (3)(BA) This course meets the Bachelor of Arts degree requirements. Topics covered in this course will vary from semester to semester, but a broad framework will be to introduce students to literary and other texts read in relation to cultural studies. Individual instructors may take up different historical periods, while other versions may suggest ways cultural studies draws on different theoretical discourses such
as rhetoric, deconstruction, feminism, or the New Historicism for its problems. All Reading Culture courses should serve as an introduction to cultural studies, moving from theoretical to practical readings of literature and culture. In any case, a common goal would involve examining cultural studies as constituted by plural theories and ends.

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T)

Changes Effective Summer 2022:

• Prerequisites

ENGL 404: Mapping Identity, Difference, and Place (3 Credits: Maximum of 6 Credits) (BA)
Old Listing Effective Through Spring 2022:

Ethnicity, gender, class, race with reference to theoretical inquiry into identity, difference, and place in English-language literatures. (Section subtitles may appear in the Schedule of Courses.)

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T)

Changes Effective Summer 2022:

• Prerequisites

ENGL 487W: Senior Seminar (3 Credits) (WF) (BA)
Old Listing Effective Through Spring 2022:

Issues, themes, periods, critical theories, etc., that invite students to use prior English studies, limited to seniors majoring in English.

Prerequisites: Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T)

Changes Effective Summer 2022:

• Prerequisites

ENGL 491: The Capstone Course in Professional Writing (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

This culminating course for Professional Writing majors concentrates on reflective analyses, design, and presentation of documents in the development of professional portfolios.

Prerequisites: Enforced Prerequisite at Enrollment: [ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 137H and ENGL 138T)] and (ENGL 202A or ENGL 202B or ENGL 202C or ENGL 202D) and 7th Semester standing or higher AND enrollment in the PWRIT_BA major.

Changes Effective Summer 2022:

• Prerequisites

ERM 440: Chemistry of the Environment: Air, Water, and Soil (3 Credits)
Old Listing Effective Through Spring 2022:

A global perspective of the chemical principles, composition and processes that operate within and between air, water, and soil environments. E R M 440 Chemistry of the Environment: Air, Water, and Soil (3) This course provides a global perspective of the chemical principles, composition and processes that operate within and between air, water and soil environments. The course is designed to develop knowledge of chemistry fundamentals as applied to the principles and concepts used in environmental chemistry. Upon completion of this course, students will have an understanding of soil, water, and air chemical principles and their applications. Specifically designed for juniors and senior undergraduates, the course will link theoretical chemistry concepts to real-world environmental problems. Students will be evaluated on examinations, homework, and class participation.

Prerequisites: CHEM 110, CHEM 111, CHEM 112, CHEM 202 or CHEM 210

Changes Effective Summer 2022:

• Title
• Abbreviated Title
• Description
• Add Cross-Listing
• Prerequisites

HCDD 264: Design Practice in Human-Centered Design and Development (3 Credits)
Old Listing Effective Through Spring 2022:

This course focuses on concepts, methods, techniques, and tools for designing effective technology-enabled experiences. The course will provide students with all the elements for a toolbox they can use to design and create both prototypes and working applications, and some analytic methods they can use to perform basic evaluations. The course will emphasize iterative design and the benefits of employing a cycle of analyze – design – build – evaluate in close cooperation with prospective technology users and other product stakeholders. In addition to more practice-oriented skills and knowledge, the course will provide students with an appreciation for some persistent design challenges including managing design trade-offs, ensuring universal and international access, working with others on co-design, and receiving and delivering design critiques. Students who successfully complete the course will leave equipped to engage with practicing design teams in industry, government, and academia.

Prerequisites: Enforced Prerequisite at Enrollment: IST 242 and (HCDD 113 or HCDD 113S)

Changes Effective Summer 2022:

• Prerequisites

HCDD 340: Human-Centered Design for Mobile Computing (3 Credits)
Old Listing Effective Through Spring 2022:

The course will provide students with an appreciation for the importance of mobile computing in modern life. It will also provide an introduction to the technical aspects of mobile computing including input modalities, sensors and sensing, wearable and smart home devices, and virtual/augmented reality. It will provide an introduction to established design concepts as well as explore emerging ideas and new concepts in the domains of mobile computing, and explore some of the most important domains where mobile computing is having a significant impact including
health and wellness and computing in the developing world. The latter part of the course will include an analysis, design, and development project for students to work on individually or in groups.

Prerequisites: Enforced Prerequisite at Enrollment: HCDD 264 and IST 311

Changes Effective Summer 2022:

HCDD 364W: Methods for Studying Users (3 Credits) (WF)
Old Listing Effective Through Spring 2022:

This course focuses on concepts, methods, and techniques for studying users and evaluating technology in the context of use. It will provide students with methods and tools they can use to incorporate knowledge of users and their settings into the design and evaluation of interactive systems. These methods will include both qualitative and quantitative techniques, as well as how to combine and sequence multiple techniques to gain a more holistic understanding. Students will learn to select and use appropriate data gathering and analysis methods and how to assemble these into a coherent user research design. The course also provides an overview of the most important statistical analysis methods employed in user research. This is a hands-on, practical course designed for HCDD undergraduate students, and others as an elective.

Prerequisites: Enforced Prerequisite at Enrollment: HCDD 264 and IST 311

Changes Effective Summer 2022:

HCDD 440: Human-Centered Design and Development Capstone Course (3 Credits)
Old Listing Effective Through Spring 2022:

The Human-Centered Design and Development Capstone course develops the research orientation and creative problem solving necessary for successful careers. The capstone develops these skills in the context of a semester long project, the solution to which requires integration of knowledge, skills and analytic techniques taught in the core curriculum. The capstone will also give student a real world experience in which they will need to work in teams and will be coached on ways to translate analytic outcomes into meaningful and actionable information for decision makers. The course is intended for seniors who have successfully completed the core courses. The capstone projects will integrate knowledge gained in technical subjects such as usability engineering, software construction and engineering, and mobile computing as well as general information technology topics such as machine learning, data mining, data integration and visualization, and privacy and security. Students will also hone their presentation and technical writing skills, generating effective reports that not only explain their analytic processes, assumptions underlying the processes and outcomes, but also communicate the limitations of their approach and potential alternate strategies.

Prerequisites: Enforced Prerequisite at Enrollment: (IST 261 or IST 361) and HCDD 364W. Recommended Preparations: HCDD 340

Changes Effective Summer 2022:

INART 215: The Craft of Singing (3 Credits)
Old Listing Effective Through Spring 2022:

Vocal and breathing anatomy and technique, vocal health and classifications, posture, and beginning acting/movement techniques for singers. INART 215 The Craft of Singing (3) (GA) Vocal and breathing anatomy and technique, vocal health and classifications, posture, and beginning acting/movement techniques for singers. Anatomy of the larynx and respiratory system are studied and strengthened through in-class work on vocal and breathing exercises. Focus will be on good tone production and resonance. Aspects of vocal health, voice classification, and basic differences between Classical and Musical Theatre vocal styles are introduced. Techniques that enhance and develop acting and movement choices are also studied through individual and group exercises and through the performance of songs.

Changes Effective Summer 2022:

IST 256: Programming for the Web (3 Credits)
Old Listing Effective Through Spring 2022:

IST 256 will provide students with the knowledge and skills to create both basic and more dynamic web-based content pages and applications. The course will first focus on acquiring competencies in core web development languages including HTML, CSS, and JavaScript, then move on to more advanced topics such as information architecture, incorporation of multimedia, and the use of application programming interfaces (APIs) and application development frameworks for the web. The course will follow an active learning pedagogy and incorporate a substantial project component. The first part of the course consists of introduction of web programming concepts, techniques, and tools. Students will demonstrate understanding of the course content by building web pages via individual and group activities. The latter half of the course will involve more in-depth project work both as individuals and in groups.

Prerequisites: Enforced Prerequisite at Enrollment: IST 250 or IST 242

Changes Effective Summer 2022:

LER 83S: First-Year Seminar in Labor and Human Resources (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

LER 83S meets the Bachelor of Arts degree requirements. This course provides a general introduction to the field of labor, employment relations, and human resources, as well as a more in-depth examination of an issue or topic related to the field and it does so in a small class environment. It also introduces first-year students to the University as an academic community, to their responsibilities as a member of that community, and to the wide range of the opportunities and resources available to them. The course fulfills both a firstyear seminar and a general education or Bachelor of Arts social/behavioral science requirement. Class sessions stress discussion of assigned readings, debates, and/or talks by guest lecturers/speakers.

Changes Effective Summer 2022:
LER 165N: Work and Literature (3 Credits)
Old Listing Effective Through Spring 2022:

If you get a job out of college, work eight hours a day, fifty weeks a year, and retire at age 65, at that point you have will spent roughly one third of your adult, waking life at work. And that is just paid work. Add in housework, childcare, and other forms of unpaid labor and the share of your waking hours devoted to work creeps closer to one half. And those calculations may actually underestimate the influence work has over your life. What you do will determine where you live, how you live, and, perhaps, whether you believe you have ultimately done something meaningful with your life. With work playing such an outsized role in a life, you may as well understand it as best you can. Hence this class. In it, we approach the question of work from the perspective of two disciplines: labor and employment relations and literature. The field of labor and employment relations asks about the social and economic forces-markets, compensation, globalization, immigration, etc.-that shape work. By contrast, the discipline of literature takes a more subjective approach to the question of work. Very broadly speaking, it shows how the forces that shape work play out in individual lives. In short, it shows how individuals feel about the work they do or, in the case of the unemployed, they do not do. Together, the two disciplines provide a global and personal perspective on one of the most important parts of our lives.

Students registering for the course will read representative selections from both domains, engage in course discussions, take exams, and write essays as they explore the variety of ways both labor and employment relations and Literature can prepare them for their work lives and help them understand the place of work in culture and society.

Changes Effective Summer 2022:

- Change Abbreviation to LHR

LER 201: Employment Relationship: Law and Policy (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

Most Americans spend a third of their adult lives at work. This course examines the legal rights and rights and obligations of employers and employees in US workplaces. No previous course in law is necessary. The course begins with an overview of general legal concepts necessary to an understanding of the US legal system. That sets the stage for an examination of the employment contract, a cornerstone of employment law. The main body of the course examines such topics as sexual harassment, drug testing, wage and hour regulation, immigration, health care, pregnancy, family leave, workers’ compensation, employee privacy, and unionization. This introduces students to landmark federal and state employment statutes, regulations, and cases. As students learn about workplace rights and obligations, they discuss the public policy issues underlying most debates. Throughout, students are encouraged to argue policy questions from the different perspectives of employers, employees, and the public. Being both “employee” and “employer-centric,” the course is designed for the generalist as well as the major in the field. Thus, its content helps to prepare literally any future employee with vital liberal arts and career-related knowledge, while at the same time providing a foundation for students who choose to specialize in human resources or labor relations.

Changes Effective Summer 2022:

- Change Abbreviation to LHR
- Description

LER 202: Understanding Employee Behavior (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

The course will be offered at an introductory level. It is designed to encourage students to explore individual and group behavior at work. The ability to describe, explain, and analyze concepts in this course is critical to appreciating the dynamics that determine organizational outcomes. In this context, students will learn basic tools that will assist them in developing management, supervisory and leadership skills. Because the concepts from this course are the foundation of human resource management and employee relations, it is essential to master them in order to be an effective human resource management or employee relations professional. The conceptual learning in the course will include individual differences, diversity, attitudes, fairness perceptions, motivation, decision making, leadership, teams, negotiation, organizational culture and its role in the external context.

Changes Effective Summer 2022:

- Change Abbreviation to LHR

LER 304: Labor and Employment Relations Fundamentals (3 Credits)
Old Listing Effective Through Spring 2022:

The course surveys the main elements of modern labor and employment relations systems in the U.S. and beyond. The course encourages students to use a framework for evaluating workplace outcomes according to three yardsticks: efficiency; equity; and voice. Focusing primarily on employee voice, the course introduces students to a variety of mechanisms that bring democracy, worker engagement, and worker influence to the workplace. Among these mechanisms are U.S.-styled collective bargaining, non-union systems of worker involvement, European works councils, and a new variety of “alt-labor” initiatives from around the world. In its single largest unit, the course focuses on U.S. workplaces, beginning with the historical and legal foundations of the modern U.S. labor relation system. This includes units examining union organizing campaigns, collective bargaining, and dispute resolution systems. Concluding weeks of the course look at issues surrounding the push for workplace flexibility, a comparative labor relations look at other country practices (include European works councils), emerging issues in global supply chains, “alt-labor” institutions and practices, the role of gender, race, and diversity initiatives at work, and the impact of automation and artificial intelligence on the future of work.

Prerequisites: LER 100

Changes Effective Summer 2022:

- Change Abbreviation to LHR
- Prerequisites

LER 305: Human Resources Fundamentals (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

This course will provide students with an opportunity to understand and apply important concepts concerning human resources in the workplace. Students will learn to think of the issues in the class from both the employees’ and organizations’ perspectives. The course begins with a description and analysis of the role human resource managers play in supporting employees’ personal needs as well as an organization’s strategic objectives. The discussion traces the changes in that role historically, as well as the contemporary understanding of HR’s part in helping stakeholders succeed. Against this backdrop, students will study
three critical variables affecting HR's involvement in management: the individual; the organization; and, the law. Each of these foci illustrates variables with which HR managers must contend. The course presents these variables through a variety of lenses: law, psychology, sociology, history and literature. Students will also spend considerable time studying the various functions HR plays in recruiting, selecting, training, evaluation, compensation, labor relations and safety. In these portions of the class, students will learn to understand the functions not only from the organization's, but also from the employees' perspective. The discussion of functional areas will end with application of the concepts studied to the global business environment in which HR increasingly operates. Throughout students will not only learn the mechanics of, for example, the selection process, but how processes support an organization's and individual's pursuit of their unique purposes. Consistent with the liberal arts environment in which LER students enroll, the final project requires students to apply the concepts learned concerning the HR function to their everyday lives, helping students to reflect on the difference HR processes can have on both the organization but equally important on the employee. As a Gen Ed course (GS), the course qualifies as a Bachelor of Arts (B.A.) course consistent with the B.A. Fields category.

Prerequisites: LER 100

Changes Effective Summer 2022:

- Change Abbreviation to LHR
- Description
- Prerequisites

LER 312: Employment Relations to Research Methods in Labor and Employment Relations (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

The objective of this course is to enhance students' abilities to use a range of methodologies to evaluate and conduct research in the field of employment relations and human resource management. LER 312 Employment Relations to Research Methods in Labor and Employment Relations (3)(BA) This course meets the Bachelor of Arts degree requirements. The objective of this course is to enhance students' abilities to use a range of methodologies to evaluate and conduct research in the field of employment relations and human resource management. It covers core concepts such as the scientific method, literature search, the logic of hypothesis formulation and testing, measurement, sampling and data collection methods, and basic statistical analysis. To accomplish these objectives, the course utilizes readings, lectures, class discussions, exercises and assignments, student presentations, and examinations.

Changes Effective Summer 2022:

- Change Abbreviation to LHR
- Description
- Prerequisites

LER 400: Comparative Employment Relations Systems (3 Credits) (IL) (BA)
Old Listing Effective Through Spring 2022:

Analysis of structure and elements of employment relations systems in developed and developing areas. LER 400 LER 400 Comparative Employment Relations Systems (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. This course explores contemporary topics in employment relations in the world. The course examines seven examples of employment relations systems, each carefully chosen to illustrate important variations in employment relations practices. It also provides an overview of economic globalization and its impact on employment relations. Topics include global sweatshops, child labor, the diffusion of human resource practices, and corporate social responsibility. The first country case is Germany, which provides an example of a country with strong national unions and a highly developed system of works councils. The Swedish case exemplifies a long-tradition of centralized bargaining and triplicate relations that is now in transition. The third case, Japan, illustrates some of the initial experiences with team work, just-in-time production, and employee commitment through job security and training. China offers an example of a socialist system in transition that has become an economic powerhouse through massive export processing zones, government controlled unions, and wage competition. Brazil provides an important example of a Latin American country with a state dominated employee relations system. South Africa offers a case of highly politicized employment relations in a country in transition from extreme racial segregation to a democracy. Finally, India represents Asia's other economic powerhouse, with an English speaking workforce that is drawn to the booming call center industry and export-oriented production. The second half of the course looks at broader themes related to the topic of globalization. Sweatshops in Mexico and child labor in India examined alongside the diffusion of high-end human resource practices in Brazil. In this section, student will also study inter-governmental institutions such as the World Trade Organization, and the International Monetary Fund. The final unit of this section examines the topic of Corporate Social Responsibility (CSR), recent attempts by corporations at times in coordination with labor unions—to establish basic sets of rules or standards for their employees wherever units of the corporation might be located in the world today.

Prerequenties: 3 credits in Labor and Employment Relations

Changes Effective Summer 2022:

- Change Abbreviation to LHR
- Description
- Prerequisites

LER 401: The Law of Labor-Management Relations (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

Development of Anglo-American law regulating collective bargaining, with emphasis on American labor-management relations under Wagner, Taft-Hartley, and other acts. LER 401 The Law of Labor – Management Relations (3)(BA) This course meets the Bachelor of Arts degree requirements. This course will examine the evolution of labor law in the United States. The N.L.R.A. itself, and the decisions of the National Labor Relations Board (N.L.R.B) and the courts, will be examined in order to gain an understanding of the current legal framework underpinning our system of labor-management relations. Major issues to be examined include the rights of employees to union representation; the formation of bargaining units; the conduct of organizing campaigns and elections; the duty to bargain; strikes, striker’s rights, and lockouts; picketing, boycotts, and related activity; the enforcement of collective bargaining agreements and the duty to arbitrate; union members’ rights and responsibilities, the duty of fair representation; and federal-state relationships in labor relations. Also covered in the course will be the legal framework for public sector labor-management relations, with specific attention paid to Pennsylvania Acts 111 and 195. The course will be taught from a liberal arts perspective, meaning that societal factors influencing the law—history, politics, and economics—will be emphasized. Student performance will be evaluated by means of tests, short papers, and such
reports as may be required. This course is complementary to others in Labor Law, including LER 434, Collective Bargaining and LER 435 Labor Relations in the Public Sector. The course requires no special facilities or equipment; however, students enrolled are expected to have computer skills sufficient for communication and word processing purposes.

Prerequisites: 3 credits in Labor and Employment Relations or Political Science

Changes Effective Summer 2022:

- Change Abbreviation to LHR
- Description
- Prerequisites

LER 403: International Human Resource Studies (3 Credits) (IL) (BA)

Old Listing Effective Through Spring 2022:

Course exploring human resource management from an international perspective. LER 403 International Human Resource Studies (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. This course on International Human Resource Management expands beyond the traditional disciplines of HRM through a broader consideration of the impact of national contexts on these areas of organizational practice. The first question addressed is whether ‘HRM’ actually means the same thing in different countries, especially given that the term ‘HRM’ was developed from US management practice and scholars. This opens the discussion as to how institutions and culture at the national level help to shape management practice. As organizations become increasingly global, these issues of national culture and institutions can often stand in the way of a seamless progression of HRM across national boundaries. From a national culture perspective, the course compares how people in different countries see themselves and others around them, and how expectations, values and beliefs can differ in the workplace. This understanding is drawn from frameworks of national culture which describe the culture's multiple dimensions. This enables students to identify why and how it may be different working with colleagues from other cultures, as well as understanding the implications this can have for designing appropriate HRM practices. From a national institutions perspective, the course compares how institutions such as legislation, state intervention, trade union influence, education systems, and the respective power of shareholders versus stakeholders can impact on patterns of HRM and employee relations practices in different countries. For example, comparisons are made between economies with very high levels of employment regulation, explaining local employee rights and benefits, and those in which firms have more autonomy to choose how to manage their employees. From a strategic perspective, the course looks at how multinational enterprises are managing this cultural and institutional complexity, making strategic choices in international HRM to ensure they achieve the ultimate balancing act of thinking global but acting local. It considers different strategies firms might take (from complete standardization of HRM to complete localization) and how this then translates into different roles and activities for the IHRM function. This section also explores how these firms manage their international staff (expatriates), as well as finally exploring ethical issues around outsourcing activities to lower-cost countries, and the impact of a more globalized workforce on diversity and work-life balance issues.

Prerequisites: LER 100

Changes Effective Summer 2022:

- Change Abbreviation to LHR
- Description
- Prerequisites

LER 409: Leadership Development: A Life-Long Learning Perspective (3 Credits) (BA)

Old Listing Effective Through Spring 2022:

The course examines the continuing influence of social and environmental factors in shaping leadership and leadership development. LER (OLEAD) 409 Leadership Development: A Life-Long Learning Perspective (3) (BA) This course meets the Bachelor of Arts degree requirements. Current social conditions, such as financial crises, ineffective solutions to local, national, and international problems and corrupt leaders, call for more effective and ethical leadership on a broad scale. The positive and moral transformation of social institutions requires active participation and leadership of more authentic transformational leaders. This course will discuss authentic transformational leadership development from a life span developmental perspective. More specifically, it will focus on how an individual develops his/her leadership skills, potential, and capacity in his/her childhood, school, social organizations, colleges, and work organizations. The primary purpose of this course is to help students understand how family, educational, and other environmental factors have helped and/or will help them develop their transformational leadership potential and leadership effectiveness, in addition to gaining a better understanding of their strengths and weaknesses in respect to personality, individual difference, motivation, values, emotions, self-awareness, and identity. The fundamental objectives of this course are to help students 1) increase self-awareness; 2) to help students to know more about their sense of self, including self-identity, self-awareness, self-efficacy, and other types of self concepts; 3) to understand the effect of life span influences in an individual's leadership development.

Prerequisites: Prerequisites: OLEAD 100 or 6TH Semester Standing

Changes Effective Summer 2022:

- Change Abbreviation to LHR
- Description
- Prerequisites

LER 426: Staffing and Training Strategies in Organizations (3 Credits) (BA)

Old Listing Effective Through Spring 2022:

This course focuses on the theory and practice of human resource staffing and training in organizations. It provides the conceptual framework for understanding the staffing and training function as a factor of production and service. For this we will discuss policies and practices designed to attract, retain, and motivate employees. It explains how staffing and training can be used as a competitive weapon. For this we discuss how human resource policies and practices can be targeted towards achieving business objectives. This should inspire you to think of the connection between employee effectiveness and profitability. The course also provides the government regulations that impact staffing and training practices. The course uses lectures, group discussion, and in-class exercises to impart these concepts.

Prerequisites: LER 100

Changes Effective Summer 2022:
LER 427: Organizational Context for Human Resource Management and Employment Relations Professionals (3 Credits)
Old Listing Effective Through Spring 2022:

This course examines human resource management (HRM) and employment relations (ER) from a strategic perspective embedded in a complex and evolving organizational system. To be effective, students must understand how different organizational strategies interface with the entire set of HR/ER practices put in place. This approach also requires an ability to connect business functions, governance, organizational metrics and financial considerations with investments in the broader HR/ER system. The goal of this course is to build business acumen by providing a foundational understanding of the components of a strategic and proactive HR/ER system. Through active learning, this course will encourage the development of analytical skills, personal competencies, and in-depth understanding of how various HRM and ER parts work together to shape organizational success. Students are more effective in their roles when they understand organizational strategic typologies, business functions, and governance structures that can affect the structure and implementation of the HRM/ER functions. Other topics include vertical and horizontal integration of the supply chain, and mergers and acquisitions, both of which are important to the work context. Basic finance and accounting concepts relevant to HRM/ER such as profit and loss statements, balance sheets, and cash flow enable students to understand how managers and leaders make resource decisions. Students gain credibility with other organizational decision makers by better understanding concepts such as earnings per share, return on assets (ROA) and return on investment (ROI). Understanding the time value of money and implications for decisions regarding investments in people enables students to be more effective in decision-making roles. The goal is to provide students with the fundamentals of the business context as relevant to their roles as HRM and ER professionals. The use of metrics and measures to provide feedback to the organization and individual employees will be examined. The criticality of understanding appropriate metrics and the importance of finding or creating valid, reliable, and bias-free metrics is explored. Learning how to create balanced score cards and associated HRM/ER scorecards can provide actionable insight to all organizational stakeholders. Finally, exposure to conceptual frameworks related to ethics and risk assessment will enable students to apply such frameworks in an organizational context. The goal is to have HRM and ER students develop a deep understanding of perspectives, practices, and tools that connect HRM and ER policies and practices to an organization’s context and strategy.

Prerequisites: LER 100 AND LER 305

Changes Effective Summer 2022:

• Change Abbreviation to LHR
• Description
• Prerequisites

LER 437: Workplace Dispute Resolution (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

Dispute resolution practices and procedures used in the workplace and employment law settings. LER 437 LER 437 Workplace Dispute Resolution (3)(BA) This course meets the Bachelor of Arts degree requirements. This course examines dispute resolution procedures in unionized and nonunion workplaces. The course begins with an examination of grievance procedures in unionized workplaces and the system of labor arbitration. Students will read labor arbitration decisions and learn how to research arbitration issues. The second major theme of the course is an examination of the design and use of nonunion workplace dispute resolution procedures. Students will read descriptions and analyses of examples of nonunion grievance procedures. Finally, the course will look at procedures for resolving employment law disputes and the major public policy debates surrounding mandatory nonunion arbitration procedures. Students will read some of the major legal cases in this area of the law and perspectives both for and against mandatory arbitration. A key objective of the course is to enable students to both understand and think critically about different alternative dispute resolution procedures and their role in employment relations. As part of achieving this objective, the course will include simulated dispute resolution exercises to provide students with experience in using techniques such as arbitration, mediation, and peer review. Additional course requirements include regular class attendance and participation, and paper assignments based on each of three main sections of the course. This course builds on and is complementary with other coursework in Labor and Employment Relations in the areas of employment relations, employment and labor law, and human resource management. It also compliments courses in other departments in the area of dispute management and resolution, including the Minor in Dispute Management and Resolution. LER 437 may also be taken as an

• Change Abbreviation to LHR
• Title
• Abbreviated Title
• Prerequisites

LER 435: Labor Relations in the Public Sector (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

Analysis of labor relations problems within different areas of public employment. LER 435 LER 435 Labor Relations in the Public Sector (3)(BA) This course meets the Bachelor of Arts degree requirements.

Upon completing this course, students should be able to identify the legal frameworks that govern collective bargaining between employers and unions in federal, state and local governments. Students should also be able to explain the process of collective bargaining in the government sector and the special circumstances that make public sector bargaining different from private sector bargaining. At course end, students should be able to identify the parties involved in public sector bargaining, including those involved in dispute resolution, and explain their priorities in the labor relations process. Students should come to understand and articulate the reasons why it is important to study and more fully comprehend the public sector labor relations process. Together, we will explore the distinctions between public and private sector employers that impact labor relations in the public sector, in order to better understand those distinctions. Also, we will explore the principal historical differences between negotiations in the public and private sectors, in order that students can better articulate those differences. In addition, we will work to understand the principal arguments for and against the right to strike for public sector employees, as well as other impasse resolution processes. Finally, we will work to identify and discuss the challenges facing public sector labor relations in the near term and in the intermediate term.

Prerequisite: 3 credits in Labor and Employment Relations

Changes Effective Summer 2022:

• Change Abbreviation to LHR
• Description
• Prerequisites
elective by students in the MS in Human Resources and Employment Relations and compliments coursework in the graduate program.

Prerequisite: LER 100 LER 110 or 6th Semester standing

**Changes Effective Summer 2022:**
- Change Abbreviation to LHR
- Description
- Prerequisites

**LER 444: Workplace Safety and Health: Principles and Practices (3 Credits) (BA)**

Old Listing Effective Through Spring 2022:

The role of employees, unions, employers, and government in dealing with work-related safety and health issues. LER 444 Workplace Safety and Health: Principles and Practices focuses on the roles of employees, unions, employers, and government in addressing work-related safety and health issues. The course will introduce students to the three interrelated fields of workplace safety, workplace health, and environmental protection. Students will be provided with an overview of key issues within these fields and gain an appreciation for their importance within the workplace. Students will also become familiar with the fundamental concepts involved in the management of workplace safety and health issues. LER 444 satisfies requirements within the Labor Studies and Employment Relations major and may be taken as an elective. LER 444 is complementary to other courses dealing with employee relations and legal principles within the workplace.

Prerequisite: LER 100 or sixth-semester standing

**Changes Effective Summer 2022:**
- Change Abbreviation to LHR
- Description
- Prerequisites

**LER 458Y: History of Work in America (3 Credits) (WF) (US) (BA)**

Old Listing Effective Through Spring 2022:

A study of selected problems in the history of work in the United States, especially since 1877.

Cross-Listed Courses: HIST 458Y

Prerequisite: HIST 021, HIST 156, or LER 100

**Changes Effective Summer 2022:**
- Change Abbreviation to LHR
- Description
- Prerequisites

**LER 465: Collective Decision Making (3 Credits) (BA)**

Old Listing Effective Through Spring 2022:

Application of theories of decision making to work-related issues in groups and organizations requiring collective resolution and action. LER 465 Collective Decision Making focuses on the roles of employees, unions, employers, and government in dealing with work-related choice making in groups and organizations and is open to students majoring or minoring in Labor and Industrial Relations, as well as to students who may wish to use the course as an elective. The course is offered once each academic year and has an enrollment limit of 40 students per offering. It requires no special facilities.

**Cross-Listed Courses:** OLEAD 464

**Changes Effective Summer 2022:**
- Change Abbreviation to LHR
- Description
- Prerequisites

**LER 464: Communication Skills for Leaders in Groups and Organizations (3 Credits) (BA)**

Old Listing Effective Through Spring 2022:

Theory-and research-based communication skills for leaders dealing with work-related problems in contemporary groups and organizations. LER 464 Communication Skills for Leaders in Groups and Organizations (BA) This course meets the Bachelor of Arts degree requirements. LER 464 Communication Skills for Leaders in Groups and Organizations is a survey of theory, research, and practice related to the communication processes by which individuals in groups and organizations exercise influence, whether or not they occupy positions of acknowledged leadership, and may be taken as part of an Labor and Industrial Relations major or minor, or as an elective by students in other disciplines. The course is offered once each academic year and has an enrollment limit of 40 students per offering. The course requires no special facilities. It extends to other courses in the major primarily in the areas of Industrial Relations and Human Resources. It is also complementary to courses focusing on groups and organizations in Sociology, Psychology, Management, and Engineering. During the course, students are exposed to a variety of theoretical perspectives on the study of leadership, learn about research illuminating its functions, and become acquainted with communication practices derived from and/or suggested by such theories and research that contribute to the exercise of influence and, thereby, effective group and organizational performance. These terminal outcomes define the objectives of the course. Focus will be on leadership as both role-related behavior and goal-directed behavior, regardless of roles that members of groups and organizations occupy.

**Cross-Listed Courses:** OLEAD 464

**Changes Effective Summer 2022:**
- Change Abbreviation to LHR
- Description
- Prerequisites

**LER 444: Workplace Safety and Health: Principles and Practices (3 Credits) (BA)**

Old Listing Effective Through Spring 2022:

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Prerequisite: LER 100 or sixth-semester standing

**Changes Effective Summer 2022:**
- Change Abbreviation to LHR
- Description
- Prerequisites

**LER 458Y: History of Work in America (3 Credits) (WF) (US) (BA)**

Old Listing Effective Through Spring 2022:

A study of selected problems in the history of work in the United States, especially since 1877.

Cross-Listed Courses: HIST 458Y

Prerequisite: HIST 021, HIST 156, or LER 100

**Changes Effective Summer 2022:**
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**LER 465: Collective Decision Making (3 Credits) (BA)**

Old Listing Effective Through Spring 2022:

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**Cross-Listed Courses:** OLEAD 464

**Changes Effective Summer 2022:**
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- Prerequisites

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**Changes Effective Summer 2022:**
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Prerequisite: LER 100 or sixth-semester standing

**Changes Effective Summer 2022:**
- Change Abbreviation to LHR
- Description
- Prerequisites

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Prerequisite: HIST 021, HIST 156, or LER 100

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Changes Effective Summer 2022:

- Change Abbreviation to LHR
- Description
- Prerequisites

LER 494: Research Project (1-12 Credits: Maximum of 12 Credits) (BA)
Old Listing Effective Through Spring 2022:

Supervised student activities on research projects identified on an individual or small-group basis.

Changes Effective Summer 2022:

- Change Abbreviation to LHR

LER 494H: Research Project (1-12 Credits: Maximum of 12 Credits) (H) (BA)
Old Listing Effective Through Spring 2022:

Supervised student activities on research projects identified on an individual or small-group basis.

Changes Effective Summer 2022:

- Change Abbreviation to LHR

LER 495: Labor Studies Internship (1-12 Credits: Maximum of 12 Credits) (BA)
Old Listing Effective Through Spring 2022:

Supervised practicum in labor relations setting with union, management, or government agency.

Prerequisite: prior approval by department

Changes Effective Summer 2022:

- Change Abbreviation to LHR

LER 496: Independent Studies (1-18 Credits: Maximum of 18 Credits) (BA)
Old Listing Effective Through Spring 2022:

Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.

Changes Effective Summer 2022:

- Change Abbreviation to LHR
- Prerequisites

LER 497: Special Topics (1-9 Credits: Maximum of 9 Credits) (BA)
Old Listing Effective Through Spring 2022:

Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

Changes Effective Summer 2022:

- Change Abbreviation to LHR

LER 499: Foreign Studies (1-12 Credits: Maximum of 12 Credits) (IL) (BA)
Old Listing Effective Through Spring 2022:

Courses offered in foreign countries by individual or group instruction.

Changes Effective Summer 2022:

- Change Abbreviation to LHR

MNG 412: Mineral Property Evaluation (3 Credits)
Old Listing Effective Through Spring 2022:

Ore reserve estimation using statistics and geostatistics, mine cost estimation, engineering economy concepts applied to mineral deposits.

Changes Effective Summer 2022:

- Description
- Prerequisites
- Concurrent

MUSIC 77: Philharmonic Orchestra (1 Credit: Maximum of 8 Credits) (BA)
Old Listing Effective Through Spring 2022:

Orchestra rehearsal and performance. MUSIC 077 Philharmonic Orchestra (1 per semester/maximum of 8) (GA) (BA) This course meets the Bachelor of Arts degree requirements. The goals of this course are to develop the instrumental performing skills, music reading abilities, and interpretive capabilities of the class members within a large symphonic orchestra context. The repertoire includes the standard literature from the 19th and 20th centuries as well as new music written for symphony orchestra. Students will be assessed by the use of performance evaluation and assessment of participation and contribution to established goals of the ensemble. The course is for students who have advanced performance skills on standard orchestral string, wind, and percussion instruments. An audition is required.

Prerequisites: Audition

Changes Effective Summer 2022:

- Add Travel Component
- Description
- Remove Prerequisites

PLET 222: Introduction to Plastics Processing (4 Credits)
Old Listing Effective Through Spring 2022:

Introduction to plastic processing methods, materials, tooling, design, and equipment. Safe operation and practices are emphasized. PL ET 222 Introduction to Plastics Processing (4) This course provides an introduction to plastics processing and is intended to provide broad foundational knowledge of the different types of plastics processing methods, equipment, and materials. The educational objectives are to develop competency in the determination of potential methods for manufacturing various component designs and the determination of cost effectiveness for the possible process alternatives selected. After completing this course, the student should have a basic understanding of a multitude of plastic processing methods and have knowledge of the interrelationship of part and tool design as it impacts manufacturing. The student should also understand materials and material flow phenomena as it affects processing and should understand the processing and troubleshooting techniques typically found in the industry.

Enforced Prequisite at Enrollment: PLET 205
Changes Effective Summer 2022:

- Remove Enforced Prerequisites
- Add Concurrent

PLET 323: Packaging Processes (3 Credits)
Old Listing Effective Through Spring 2022:

In-depth studies and laboratory experiments will be conducted on processes such as blow molding, thermoforming, extrusion, and rotational molding, and other packaging processes. PLET 323 Packaging Processes (3) In this course the student will learn about plastic packaging processes of blow molding, thermoforming, extrusion. Other minor processes will be presented. The course objectives are to develop student proficiencies in identifying the polymer material requirements for each process, in identifying the mold design and construction techniques for each process, and knowing how plastic packaging processes differ from injection molding. The laboratory will include experiments that show the advantages of each process and to develop student competency in running equipment for each process explored. The students shall also develop competency in conducting elementary process troubleshooting for each process. Student competency is assessed by graded lab reports and projects.

Prerequisites: PLET 227 AND PLET 304

Changes Effective Summer 2022:

- Add Concurrent

PLET 345: Heat Transfer (2 Credits)
Old Listing Effective Through Spring 2022:

Fundamentals of heat transfer including conduction, convection, and radiation. PL ET 345 Heat Transfer (2) The course is intended to allow the student to develop the ability to conceptually evaluate heat transfer problems, and solve practical problems that might be encountered in the plastics industry including those that relate to energy management in plastic materials or processes. The course objectives are accomplished by establishing the concepts of the three principle mechanisms of heat transfer, solving plastics related problems illustrative of each mechanism, and reinforcing theoretical concepts learned through the use of simulation software and hands-on laboratory experiments. During this course students will build upon the knowledge gained in an earlier course in the thermal and fluid sciences. Student competency is assessed by graded quizzes, examinations, homework, and special assignments. The course is offered once per year with an enrollment of 40 to 50 students.

Enforced Prerequisite at Enrollment: PLET 366

Changes Effective Summer 2022:

- Credits

PLET 464: Plastics Failure Analysis (3 Credits)
Old Listing Effective Through Spring 2022:

Fundamentals of Plastics Materials Process and Design Failure Analysis. PL ET 464 Plastics Failure Analysis (3) This course is intended to give the student an introduction to failure analysis for plastic articles. Course objectives are to: provide methods for the identification of common failure problems associated with modern molded plastic parts, perform a causal analysis for each failure type, provide an introduction, instruction, and allow operation of several analytical tools used to establish failure mechanisms, and review the relevant polymer physics and chemistry concepts involved in failure analysis. During the course students will be using concepts studied earlier in plastic material properties and applications. Student competency is assessed by graded quizzes, examinations, homework, and special assignments. The course is offered once per year as a technical elective with an enrollment of 15 to 20 students.

Prerequisites: Enforced Prerequisite at Enrollment: PLET 30

Changes Effective Summer 2022:

- Enforced Prerequisites

PNG 440W: Formation Evaluation (3 Credits) (WF)
Old Listing Effective Through Spring 2022:

Study of those methods used to evaluate the engineering properties of oil and gas bearing reservoir formations.

Concurrent Courses: PNG 405, PNG 406

Changes Effective Summer 2022:

- Description

PSYCH 230: Introduction to Psychologies of Religion (3 Credits)
(BA)
Old Listing Effective Through Spring 2022:

Introduction to major Western psychologies of religion (James, Freud, Jung) and to subsequent extensions of and departures from them.

Changes Effective Summer 2022:

- Abbreviated Title
- Prerequisites
- Concurrent

RADSC 295A: Radiologic Science Clinical Internship I (1.5 Credits: Maximum of 1.5 Credits)
Old Listing Effective Through Spring 2022:

Supervised off-campus, non-group instruction including field experiences, practica, or internships. Written and oral critique of activity required.

Prerequisites: Enforced Prerequisite at Enrollment: RADSC 101 and RADSC 110

Changes Effective Summer 2022:

- Credits

RM 440: Risk, Strategy, and Decision Making (3 Credits)
Old Listing Effective Through Spring 2022:

To examine key strategic concepts, ranging from cognitive to organizational, that are critical for managing risk at the enterprise level. RM 440 Risk, Strategy, and Decision Making (3) One of the key ways that a business attempts to manage risk it anticipates and confronts in markets is through organizational-level elements such as its business strategy, structure, and culture. These elements emerge from a series of decisions guided by the insights and biases of individuals. As such, the management of enterprise risk must also include an understanding of how individuals (e.g. managers) approach risk through their decisions and decision making processes. In this course, we look at some of
these critical elements separately and then together as they integrate to guide and define enterprise risk management. The basic course objectives are to come away with an understanding of the following: Forms of strategic risk – From market to internally-driven risk; from emotional to economic-driven, how does strategic risk present itself? How do executives recognize/assess and respond to the “portfolio of risk” that they must address to make the business successful? Business strategy and structure – One way risk is addressed and articulated is through a business strategy. What is strategy? What are the key decisions that comprise a business strategy? How are organizations structured to implement these strategies and move information across the firm? Where and how is risk assessed in these processes and structures, and incorporated into a strategic risk plan? Decision making – Decision making around strategy and risk management plays out in various forms and across different levels (i.e., individuals and groups). What goes right and wrong? How are these processes systematically linked to perceptions and actions associated with risk management. Organizational culture – Perhaps one of the most critical elements in enterprise risk management is the role played by organizational culture (or simply “How we do things around here and my role as an organizational member doing it.”) We examine the roots of organizational culture and how it is aligned to perspectives of risk and its management. Descriptive vs. prescriptive perspectives – Once we “described” what does/could go on, we need to engage in looking at ways that organizations can prevent pitfalls and correct suboptimal practices.

Prerequisites: Enforced Prerequisite at Enrollment: RM 320W or RM 330W

Changes Effective Summer 2022:

• Description
• Enforced Prerequisites

SPAN 305: Spanish for Social Services (3 Credits)
Old Listing Effective Through Spring 2022:

Provides practical language applications for students going to social work, psychology, and the legal and medical professions. SPAN 305 Spanish for Social Services (3) SPAN 305 Spanish for Social Services (3) provides practical language applications for students going into social work, psychology, and the legal and medical professions. At the same time, there is an emphasis on the wide range of historic, linguistic and cultural influences that make up the Hispanic community in the US today.

Prerequisite: SPAN 200

Changes Effective Summer 2022:

• Remove Prerequisites

SPAN 314: Spanish Sounds (3 Credits)
Old Listing Effective Through Spring 2022:

Spanish phonetics and phonemics; systematic means of correcting pronunciation defects; other audio-lingual applications.

Prerequisite: SPAN 200

Changes Effective Summer 2022:

• Remove Prerequisites

SPAN 316: Building Words and Sentences in Spanish (3 Credits)
Old Listing Effective Through Spring 2022:

Building words and sentences in Spanish. Analysis of Spanish work structure and its relationship to syntactic structures. SPAN 316 Building Words and Sentences in Spanish (3) “Building words and sentences in Spanish” is an introduction to the study of Spanish morphology and syntax. In linguistics, morphology is the study of the morphemes (e.g. affixes, words, roots) of language and how they combine together to form words. Syntax is the study of how words combine together to form phrases and sentences. Because this course is for Spanish majors and minors, the focus in this course is on the structure of words, phrases, and sentences in Spanish, how Spanish compares to other languages, and how morphology and syntax vary across Spanish dialects. Special focus will be made on explaining the kinds of errors typical of English-speaking learners of Spanish as a second language, and a primary goal of the course is for students to improve their proficiency in using Spanish morphosyntax. The course is taught in Spanish.

Prerequisite: SPAN 200

Changes Effective Summer 2022:

• Remove Prerequisites

SPAN 353: Topics in the Cultures of Spain (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

This course offers a comparative study of the literature, artistic manifestations, intellectual traditions, and cultural productions of Spain. This course offers a comparative study of the literature, artistic manifestations, intellectual traditions, and cultural productions of Spain. Depending on the semester focus, topics related to literary movements, comparative approaches to genre, and/or connections between textual representation and politics, social movements, and/or Spain’s long and complex history (both locally and globally) may be at the center of discussion. Additionally, varied issues of gender, race and ethnicity, rural and urban environments, religion, and evolving conceptions of nationhood may be included as overarching themes. Particular literary genres and representative works may be foregrounded in yet another iteration of the course, wherein students will study and discuss principal readings against cultural backdrops framed by exposure to art, film, music, and/or other historical, intellectual, sociopolitical, and/or media-based materials of relevance to the semester-specific context at hand.

Prerequisite: SPAN 200

Changes Effective Summer 2022:

• Remove Prerequisites

SPAN 354: Topics in Border Studies (3 Credits) (BA)
Old Listing Effective Through Spring 2022:

This course offers a study of borders as key sites of contact, exchange, conflict, hybridity, and identity production in and across varied contexts of Spanish, Latin American, and/or Latina/o culture(s). This course offers a study of borders – geopolitical, social, intellectual, literary, artistic, and/or historical – as key sites of contact, exchange, conflict, hybridity, and identity production in and across varied contexts of Spanish, Latin American, and/or Latina/o culture(s). While diverse variables (including diaspora, gender, race and ethnicity, sexuality, colonialism, nationhood and transnationalism) will inform particular iterations of the course, approaches and text selection will be shaped by an understanding of borders as constructs defined by conditions of dynamic interaction and transformation. Materials to be considered in the course, which will vary
according the focus, may include literary, artistic, and intellectual works, film, mediabased texts, music, and/or historical documents.

Prerequisite: SPAN 200

Changes Effective Summer 2022:

• Remove Prerequisites

SUR 381: Stormwater Hydraulics and Hydrology (4 Credits)
Old Listing Effective Through Spring 2022:

Hydraulics: statics, continuity, energy, friction; hydrology: rainfall, abstractions, travel time, runoff; stormwater design: sewers, culverts, basins, erosion; municipal regulations. SUR 381 Stormwater Hydraulics and Hydrology (4) Stormwater Management Hydraulics and Hydrology is an elementary treatment of common design practices used to create stormwater management plans for small to medium sized land development projects. Erosion and sedimentation design is also addressed within the context of a stormwater management plan. The course is intended for engineering students who are not required to take formal fluid mechanics or hydrology courses, yet have a need to understand or complete the design aspects of stormwater management as it relates to their professional practice. Some state professional registration laws refer to this type of engineering design as “minor engineering” which is engineering design as it relates to land surveys connected to land development activities. Other types of “minor engineering” include street alignment, sanitary sewers, water lines, utilities and site grading. The course contains three segments. The first segment covers the elementary hydraulics necessary to design drainage structures and storm water detention facilities. These topics include fluid statics, continuity, conservation of mass, conservation of energy, friction losses, minor losses, energy grade line, open channel flow, weirs and orifices. The second segment covers elementary hydrology methods used to analyze runoff from land development sites and small to medium watersheds. The hydrology topics include watershed characteristics, rainfall, abstractions, runoff, time of concentration, peak flow methods, hydrograph methods, basic channel routing and detention basin routing. The third segment covers government regulations and common design methods used to design storm sewers, detention basins and erosion control plans. A project includes the design of a multiplement element storm sewer system, a stable open channel, a detention facility with a multiple outlet structure, and some erosion control measures.

Prerequisites: MATH 141 , 6th semester standing: Concurrent: PHYS 213

Changes Effective Summer 2022:

• Remove Concurrent

Program Changes

Accounting, B.S. (Behrend) (ACNTG_BS)
Effective Summer 2022:

• Increased Prescribed Courses from 64 credits to 70 credits
• Added MIS 250, MIS 345 to Prescribed Courses
• Decreased Additional Courses from 20 credits to 17 credits
• Added MIS 336, MIS 344 to Additional Courses
• Decreased Supporting Courses and Related Areas from 12 credits to 9 credits

Advertising/Public Relations, B.A. (ADPR_BA)
Effective Summer 2022:

• Changed Electives from 23 credits to 23-26 credits
• Changed Requirements for the Major from 35 credits to 35-38 credits
• Removed COMM 411 from Additional Courses in the Advertising Option
• Changed Requirements for the Public Relations Option from 21 credits to 24 credits
• Added COMM 372 to Prescribed Courses in the Public Relations Option
• Added COMM 305 to Additional Courses in the Public Relations Option
• Removed COMM 411 from Additional Courses in the Public Relations Option

African American Studies, Minor (AFAMR_UMNR)
Effective Fall 2022:

• Added AFAM 126N/INART 126N, AFAM 207N/MUSIC 207N, AFAM 226N to Additional Courses
• Deleted ECON 436W from Additional Courses

Applied Economics, Minor (APECN_UMNR)
Effective Fall 2022:

• Revised Program Description
• Revised Supporting Courses and Related Areas

Art History, B.A. (ARTH_BA)
Effective Fall 2022:

• Added ART 111Z, ART 220Z to Additional Courses
• Removed ARTH 111H from Additional Courses
• Added course listings to Supporting Courses and Related Areas

Art History, Minor (ARTH_UMNR)
Effective Fall 2022:

• Revised Program Description
• Added ARTH 111Z to Additional Courses

Biblical Studies, Certificate (BIBSTD_UCT)
Effective Summer 2022:

• New certificate added

Biobehavioral Health, B.S. (Health and Human Development, Capital, University College) (BBH_BS, BBHCA_BS, BBHUC_BS)
Effective Fall 2022:

• Removed Electives
• Increased Prescribed Courses from 34 credits to 37 credits
• Decreased Additional Credits from 48-50 credits to 45-47 credits
• Moved BBH/AFAM 302 from Additional Courses to Prescribed Courses
• Added BBH 370 to Additional Courses
• Removed RLS 131 from Additional Courses

Communication Arts and Sciences, B.A. (CASBA_BA)
Effective Summer 2022:

• Added new Integrated B.A. in Communication Arts and Sciences and M.S. in Human Resources and Employment Relations
Effective Spring 2021:

- Data Sciences, B.S. (DATSC_BS, DTSCE_BS, DTSCS_BS)
  - Added new Integrated B.S. in Communication Arts and Sciences and M.S. in Human Resources and Employment Relations

Communications, B.A. (University College) (COMUC_BA)

Effective Fall 2022:

- Enrollment Hold implemented at Beaver campus; program not accepting new students at Beaver campus

Computer Science, B.S. (Engineering) (CSENG_BS)

Effective Fall 2022:

- Program added to Beaver, Brandywine, Hazleton campuses

Data Sciences, B.S. (DATSC_BS, DTSCE_BS, DTSCS_BS)

Effective Spring 2021:

- Revised Program Description
- Decreased total requirements for degree completion from 125 credits to 123 credits
- Changed Electives from 5-14 credits to 0-9 credits
- Increased Requirements for the Major from 72-81 credits to 75-84 credits
- Decreased Prescribed Courses for the Major from 27 credits to 24 credits
- Added DS 435 to Prescribed Courses for the Major
- Removed DS 300, DS 440 from Prescribed Courses for the Major
- Increased Additional Courses for the Major from 10 credits to 13 credits
- Added STAT 418/MATH 418, DS 440, DS 440W to Additional Courses for the Major
- Removed STAT 414/MATH 414 from Additional Courses for the Major
- Increased Additional Courses for the Option from 35-44 credits to 38-47 credits
- Increased credits required for the Applied Data Sciences option from 38 credits to 41 credits
- Added DS 300 to Prescribed Courses for the Applied Data Sciences option
- Removed IST 230 from Prescribed Courses for the Applied Data Sciences option
- Increased Additional Courses for the Applied Data Sciences option from 6 credits to 9 credits
- Added CMPSC 360, DS 420, DS 494, IST 230, MATH 311W to Additional Courses for the Applied Data Sciences option
- Removed IST 445, IST 462 from Additional Courses for the Applied Data Sciences option
- Increased credits required for the Computational Data Sciences option from 44 credits to 47 credits
- Increased Prescribed Courses for the Computational Data Sciences option from 28 credits to 31 credits
- Added CMPSC 461, STAT 414/MATH 414 to Prescribed Courses for the Computational Data Sciences option
- Removed CMPSC 455 from Prescribed Courses for the Computational Data Sciences option
- Increased credits required for the Statistical Modeling Data Sciences option from 35 credits to 38 credits
- Increased Prescribed Courses for the Statistical Modeling Data Sciences option from 13 credits to 16 credits
- Added STAT 414/MATH 414 to Prescribed Courses for the Statistical Modeling Data Sciences option

Elementary Education, B.El.Ed. (ELEM_BELED)

Effective Summer 2022:

- Revised Program Description
- Revised Entrance to Major Requirements
- Changed total requirements for degree completion for the PK-4 Early Childhood Education Option from 134 credits to 139 credits
- Changed total requirements for degree completion for the Grade 4-8 English/Language Arts and Reading Option from 132 credits to 137 credits
- Changed total requirements for degree completion for the Grade 4-8 Social Studies Option from 135 credits to 137 credits
- Changed Requirements for the Major from 132-142 credits to 131-141 credits
- Added 0-6 credits of Electives
- Decreased Prescribed Courses for the Major from 71 credits to 67 credits
- Added EDUC 385 to Prescribed Courses for the Major
- Removed EDUC 320, SPLLED 404 from Prescribed Courses for the Major
- Changed EDUC 490 from 12 credits to 9 credits in Prescribed Courses for the Major
- Changed EDUC 495B from 1 credit to 3 credits in Prescribed Courses for the Major
- Increased Additional Courses for the Major from 21 credits to 24 credits
- Added HDFS 229 and HDFS 239 to Additional Courses for the Major
- Increased Supporting Courses and Related Areas for the Major from 13-18 credits to 13-21 credits
- Added EDUC 477, EDUC 452, SPLLED 404, SPLLED 409C to Supporting Courses and Related Areas for the Major
- Removed SPLLED 409A, SPLLED 409B, SPLLED 418 from Supporting Courses and Related Areas for the Major
- Added EDUC 320 to Prescribed Courses in the PK-4 Early Childhood Education Option
- Removed HDFS 229 from Prescribed Courses in the PK-4 Early Childhood Education Option
- Added 0-6 credits of Electives
- Changed Requirements for the Major from 132-142 credits to 131-141 credits
- Changed total requirements for degree completion for the Grade 4-8 Mathematics Option from 137 credits to 139 credits
- Changed total requirements for degree completion for the Grade 4-8 Social Studies Option from 135 credits to 137 credits
- Changed Requirements for the Major from 132-142 credits to 131-141 credits
- Added 0-6 credits of Electives
- Decreased Prescribed Courses for the Major from 71 credits to 67 credits
- Added EDUC 385 to Prescribed Courses for the Major
- Removed EDUC 320, SPLLED 404 from Prescribed Courses for the Major
- Changed EDUC 490 from 12 credits to 9 credits in Prescribed Courses for the Major
- Changed EDUC 495B from 1 credit to 3 credits in Prescribed Courses for the Major
- Increased Additional Courses for the Major from 21 credits to 24 credits
- Added HDFS 229 and HDFS 239 to Additional Courses for the Major
- Increased Supporting Courses and Related Areas for the Major from 13-18 credits to 13-21 credits
- Added EDUC 477, EDUC 452, SPLLED 404, SPLLED 409C to Supporting Courses and Related Areas for the Major
- Removed SPLLED 409A, SPLLED 409B, SPLLED 418 from Supporting Courses and Related Areas for the Major
- Added EDUC 320 to Prescribed Courses in the PK-4 Early Childhood Education Option
- Removed HDFS 229 from Prescribed Courses in the PK-4 Early Childhood Education Option
- Added AA 193N, AFAM 141N/ENGL 141N/INART 141N, AMST 150N, APLNG 220N, ARTH 224N/ENGL 224N, CMLIT 109, CMLIT 130, CMLIT 140, CMLIT 153, CMLIT 1830/S183Q, ENGL 103, ENGL 112, ENGL 129, ENGL/SC 142N, ENGL 161N/HIST 162N, ENGL 165N, ENGL/PLSC 183N, ENGL 184, ENGL 185, ENGL 189, ENGL 223N, ENGL 228, ENGL/CHEM 233N, ENGL 235N, ENGL 237N, HDFS 254N, LLED 215N to Additional Courses in the PK-4 Early Childhood Education Option
- Removed CMLIT 184, CMLIT 185, CMLIT 189, ENGL 2, ENGL 129H, ENGL 139 from Additional Courses in the PK-4 Early Childhood Education Option
- Added EDUC 320, LLED 420 to Prescribed Courses in the English/Language Arts and Reading (4-8) Option
- Removed EDUC 322, HDFS 239 from Prescribed Courses in the English/Language Arts and Reading (4-8) Option
• Changed the Mathematics (4-8) Option from 32 credits to 29 credits
• Decreased Prescribed Courses in the Mathematics (4-8) Option from 23 credits to 20 credits
• Removed HDFS 239 from Prescribed Courses in the Mathematics (4-8) Option
• Added ENGL 194H to Additional Courses in the Mathematics (4-8) Option
• Removed ENGL 101, ENGL 139 from Additional Courses in the Mathematics (4-8) Option
• Changed the Social Studies (4-8) Option from 30 credits to 27 credits
• Decreased Prescribed Courses in the Social Studies (4-8) Option from 24 credits to 21 credits
• Removed HDFS 239 from Prescribed Courses in the Social Studies (4-8) Option
• Added AA 193N, AFAM/ENGL/INART 141N, AMST 150N, APLNG 220N, ARTH/ENGL 224N, CMLIT 130, CMLIT 140, CMLIT 183O/SC 183Q, ENGL 112, ENGL 142N/SC 142N, ENGL 161N/HIST 162N, ENGL 165N, ENGL 183N/PLSC 183N, ENGL 194H, ENGL 223N, ENGL 236N, ENGL 237N, HDFS 254N, LL ED 215N to Additional Courses in the Social Studies (4-8) Option
• Removed ENGL 2, ENGL 104/JST 104, ENGL 139, ENGL 140 from Additional Courses in the Social Studies (4-8) Option

Energy Finance, Certificate (ENFIN_UCT)
Effective Fall 2022:
• Revised Program Description
• Added EBF 301 and MET 436 to Required Courses
• Removed FIN 419 from Required Courses

English, B.A. (University College) (ENGUC_BS)
Effective Summer 2022:
• Enrollment Hold implemented at Wilkes-Barre campus; program not accepting new students at Wilkes-Barre campus

Effective Spring 2022:
• Program phased out at Wilkes-Barre campus

Health Humanities, B.A. (HHUM_BA)
Effective Summer 2022:
• New program added

Information Sciences and Technology, A.S. (Information Sciences and Technology, Berks, University College) (2IST_AS, 2ISBK_AS, 2ISUC_AS)
Effective Fall 2022:
• Added Application Development Option and Cybersecurity Option
• Renamed Individualized Option to Custom Option
• Phased out the Baccalaureate Option
• Added Generalized Business Option to Greater Allegheny campus
• Networking Option phased out at York campus
• Added Custom Option to DuBois campus
• Revised Program Description
• Changed General Education credits included in Requirements for the Major from 9-12 credits to 6-9 credits
• Changed Electives from 4-7 credits to 0-5 credits

Information Sciences and Technology, B.S. (Information Sciences and Technology) (ISTBS_BS)
Effective Fall 2022:
• Information Technology: Integration & Application Option phased out at University Park campus

Information Sciences and Technology, B.S. (Abington, Berks, University College) (ISSAB_BS, ISSBK_BS, ISSUC_BS)
Effective Summer 2022:
• Program phased out at Penn State Abington, the Abington College; Penn State Berks, the Berks College; and University College

Information Sciences and Technology for Communication Arts and Sciences, Minor (ISCAS_UCT)
Effective Summer 2022:
• Program phased out

Information Systems and Statistical Analysis, Minor (ISSA_UCT)
Effective Spring 2022:
• Program phased out

**Integrative Arts, B.A. (Altoona) (IARAL_BA)**
Effective June 15, 2022:

• Enrollment Hold implemented at Penn State Altoona, the Altoona College; program not accepting new students at Penn State Altoona, the Altoona College

**International Business, B.S. (INTB_BS)**
Effective Fall 2022:

• Revised Program Description
• Increased total requirements for degree completion from 122 credits to 128 credits
• Changed Requirements for the Major from 98 credits to 104 credits
• Increased Prescribed Courses from 39 credits to 51 credits
• Added IB 303, IB 404, IB 464, MKTG 445 to Prescribed Courses
• Decreased Additional Courses from 23 credits to 17 credits
• Added ACCTG 461, IB 350 to Additional Courses
• Removed IB 303, MGMT 461, MKTG 445 from Additional Courses

**International Business, Minor (IB_UMNR)**
Effective Fall 2022:

• Revised Program Description
• Added Entrance to Minor Requirements
• Changed the Requirements for the Minor from 37 credits to 27 credits
• Increased Prescribed Courses from 7 credits to 9 credits
• Removed ACCTG 211 from Prescribed Courses
• Moved FIN 301 and SCM 301 from Additional Courses to Prescribed Courses
• Decreased Additional Courses from 18 credits to 6 credits
• Added IB 470 to Additional Courses
• Removed BA 301, BA 302, BA 303, BA 304, IB 440, MGMT 301 and MKTG 301 from Additional Courses
• Revised Supporting Courses and Related Areas section

**Letters, Arts, and Sciences, A.A. (Liberal Arts, Abington, Altoona, Behrend, Berks, Capital, University College) (2LAS_AA, 2LAAB_AA, 2LAAL_AA, 2LABC_AA, 2LABK_AA, 2LACA_AA, 2LAUC_AA)**
Effective Summer 2022:

• Program name changed to Multidisciplinary Studies, A.A.

**Letters, Arts, and Sciences, B.A. (Liberal Arts, Abington, Altoona, University College) (LAS_BA, LASAB_BA, LASAL_BA, LASUC_BA)**
Effective Summer 2022:

• Program name changed to Multidisciplinary Studies, B.A.

**Mathematics, B.A. (Altoona) (MTAAL_BA)**
Effective June 15, 2022:

• Enrollment Hold implemented at Penn State Altoona, the Altoona College; program not accepting new students at Penn State Altoona, the Altoona College

**Mathematics, B.S. (Altoona) (MTSAL_BS)**
Effective June 15, 2022:

• Enrollment Hold implemented at Penn State Altoona, the Altoona College; program not accepting new students at Penn State Altoona, the Altoona College

**Mechanical Engineering, B.S. (Engineering, Altoona) (ME_BS, MEENG_BS, MEAL_BS)**
Effective Summer 2021:

• Decreased Prescribed Courses from 83-84 credits to 82-83 credits
• Added ME 435 to Prescribed Courses
• Removed CMPSC 200 from Prescribed Courses
• Changed ME 348 from 4 credits to 3 credits in Prescribed Courses
• Increased Additional Courses from 18 credits to 19 credits
• Added BIOL 161, CMPSC 200, CMPSC 201 to Additional Courses
• Removed CAS 100, EMCH 316, ME 315, ME 325, ME 355, ME 375, ME 442W, ME 443W from Additional Courses
• Added ME 435 to Supporting Courses and Related Areas

**Mining Technology, A.S. (2MNGT_AS)**
Effective July 28, 2022:

• Enrollment Hold removed

**Nursing, B.S.N. (NURS_BSN)**
Effective Fall 2022:

• Revised Program Description
• Added R.N. to B.S.N. option
• Changed Electives from 5-9 credits to 3-9 credits
• Changed Requirements for the Major from 87-92 credits to 87-93 credits
• Changed General Education credits included in Requirements for the Major from 21-22 credits to 21 credits
• Changed Requirements for the Option from 57-60 credits to 57-61 credits
• Increased Prescribed Courses in the General Nursing Option from 54 credits to 57 credits
• Added NURS 302, NURS 480 to Prescribed Courses in the General Nursing Option
• Removed Supporting Courses and Related Areas from the General Nursing Option
• Added NURS 302, NURS 480 to Prescribed Courses in the Second Degree Option
• Decreased credits for NURS 495 from 6 credits to 3 credits in Prescribed Courses in the Second Degree Option

**Nursing, R.N. to B.S.N. (NURN_BSN)**
Effective Summer 2022:

• Program phased out

**Nutritional Sciences (NUTR_BS)**
Effective Summer 2022:

• Added new Integrated B.S. in Nutritional Sciences and M.P.S. in Nutritional Sciences
• Added new Integrated B.S. in Nutritional Sciences and M.P.H. in Public Health
Occupational Therapy, A.S. (University College, Berks) (2OTUC_AS, 2OTBK_AS)  
Effective Fall 2022:
- Revised Entrance to Major Requirements
- Added Retention Requirements
- Increased total requirements for degree completion from 69 credits to 71 credits
- Increased Requirements for the Major from 60 credits to 62 credits
- Increased Prescribed Courses from 57 credits to 59 credits
- Added OT 295B to Prescribed Courses
- Removed KINES 13, OT 395 B from Prescribed Courses
- Changed OT 212 from 3 credits to 4 credits in Prescribed Courses
- Changed OT 214 from 3 credits to 4 credits in Prescribed Courses
- Changed OT 295E from 1 credits to 2 credits in Prescribed Courses

Organizational Leadership, B.A. (OLBA_BA)  
Effective Summer 2022:
- Changed Electives from 21-24 credits to 9-14 credits
- Changed Requirements for the Major from 36-37 credits to 40-41 credits
- Increased Prescribed Courses from 12 credits to 21 credits
- Added OLEAD 201, OLEAD 210, PSYCH 100, PSYCH 484 to Prescribed Courses
- Removed OLEAD 409 from Prescribed Courses
- Increased Additional Courses from 12-13 credits to 16 credits
- Added IST 110, PHIL 10, LHR 202, PSYCH 281, STAT 200, SCM 200, PSYCH 200 to Additional Courses
- Removed MGMT 321, PSYCH 484 from Additional Courses
- Decreased Supporting Courses and Related Areas from 12 credits to 3-4 credits
- Removed CAS 404, CAS 452, CAS 475, CRIM 100, CRIM 113, CRIM 482, LER 100, 136, 201, LER 312, LER 400, LER 434, LER 435, LER 437, LER 458Y, LER 460, MGMT 321, PHIL 103, PHIL 119, PLSC 1, PLSC 490, PSYCH 484, PSYCH 485, SOC 207, SOC 404, SOC 455, SOC 456 from Supporting Courses and Related Areas

Organizational Leadership, B.S. (OLBS_BS)  
Effective Summer 2022:
- Changed Electives from 16-18 credits to 20-21 credits
- Changed Requirements for the Major from 64-66 credits to 61-62 credits
- Added LHR 312, OLEAD 201, OLEAD 210, PSYCH 484 to Prescribed Courses
- Removed CAS 352, ECON 102, ECON 104, OLEAD 409, PHIL 10, PSYCH 281 from Prescribed Courses
- Changed credits for Additional Courses from 12-13 credits to 15 credits
- Added PHIL 10, IST 110, LHR/AFAM/WMNST 136, OLEAD 220, OLEAD 410, OLEAD 411, WMNST 105N, LHR 202, PSYCH 281, LHR 437, BA 100, LHR 427 to Additional Courses
- Removed LER 312, SOC 207, MGMT 321, PSYCH 484 from Additional Courses
- Removed CAS 404, CAS 452, CAS 475, CRIM 100, CRIM 113, CRIM 482, LER 100, LER 136, LER 201, LER 312, LER 400, LER 434, LER 435, LER 437, LER 458Y, LER 460, MGMT 321, PHIL 103, PHIL 119, PLSC 1, PLSC 490, PSYCH 484, PSYCH 485, SOC 207, SOC 404, SOC 455, SOC 456 from Supporting Courses and Related Areas

Pharmacology and Toxicology, B.S. (TOX_BS)  
Effective Fall 2022:
- Decreased total requirements for degree completion from 124 credits to 120 credits
- Changed Requirements for the Major from 92-94 credits to 88-91 credits
- Decreased Prescribed Courses from 78 credits to 71 credits
- Added VBSC 331, BMB 433, CHEM 213W, VBSC 431 to Prescribed Courses
- Removed BIOL 240W, BIOL 472, CHEM 213, VBSC 451 from Prescribed Courses
- Increased Additional Courses from 5-7 credits to 8-11 credits
- Added BIOL 141, BIOL 240W to Additional Courses

Physical Therapist Assistant, A.S. (2PTA_AS)  
Effective Summer 2022:
- Program phased out at DuBois campus

Effective Fall 2022:
- Revised Entrance to Major Requirements
- Added Retention Requirements
- Decreased Prescribed Courses from 45 credits to 41 credits
- Increased Additional Courses from 16 credits to 20 credits
- Moved PT 395F from Prescribed Courses to Additional Courses
- Added PT 395H and PT 395I to Additional Courses

Plastics Engineering Technology, B.S. (PLTBC_BS)  
Effective Summer 2022:
- Changed Requirements for the Major from 105 credits to 106 credits
- Changed Electives from 2 credits to 1 credit
- Changed PLET 345 from 2 credits to 3 credits in Prescribed Courses

Political Science, B.A. (Altoona) (PLSAL_BA)  
Effective June 15, 2022:
- Enrollment Hold implemented at Penn State Altoona, the Altoona College; program not accepting new students at Penn State Altoona, the Altoona College

Psychological and Social Sciences, B.A. (PSSBA_BA)  
Effective Fall 2022:
- Revised Supporting Courses and Related Areas

Psychological and Social Sciences, B.S. (PSSBS_BS)  
Effective Fall 2022:
- Changed Electives from 15-17 credits to 8 credits
- Changed Requirements for the Major from 67-68 credits to 71 credits
- Changed General Education credits included in Requirements for the Major from 7-8 credits to 3 credits
- Decreased Prescribed Courses from 17 credits to 10 credits
- Removed MATH 110, SOC 471 from Prescribed Courses
- Increased Additional Courses from 29-30 credits to 34 credits
Effective June 15, 2022:

- Added BIOL 133, 155, 161, 169N, ANTH 408, ANTH 421, ANTH 428, ANTH 458, HDFS 401, HDFS 415, PSYCH 404, PSYCH 406W, PSYCH 407, PSYCH 408, PSYCH 439, PSYCH 492, SOC 405, SOC 413, SOC 423, SOC 470, SOC 471 to Additional Courses
- Removed BIOL 110, BIOL 141, BIOL 142, CAS 352, CAS 455 from Additional Courses
- Increased Supporting Courses and Related Areas from 21 credits to 27 credits
- Added ANTH 408, ANTH 446, ANTH 476, ANTH 497, ANTH 499, HDFS 415, HDFS 429, HDFS 497, HDFS 499, PSYCH 408, PSYCH 434, PSYCH 466, PSYCH 473, PSYCH 474, PSYCH 476, PSYCH 492, PSYCH 499, SOC 408, SOC 413, SOC 432, SOC 445, SOC 446, SOC 447, SOC 451, SOC 454, SOC 459, SOC 467, SOC 470, SOC 472, SOC 477, SOC 478, and SOC 499 to Supporting Courses and Related Areas. Remove ANTH 2, 11, 22, 40, 146, 197, 199, 216, 321, 380, 395, BB H 302, 315, CAS 352, 415, 455, CNED 404, COMM 100, COMM 120, COMM 411, EDPSY 14, HDFS 229, HDFS 239, HDFS 249, HDFS 250, HDFS 315, HDFS 432, HDFS 468, PSYCH 221, PSYCH 281, PSYCH 412, PSYCH 415, PSYCH 426, PSYCH 441, PSYCH 478, PSYCH 485, PSYCH 496B, SOC 3, SOC 30, SOC 35, SOC 103, SOC 109, SOC 110, SOC 309, SOC 403, SOC 406, SOC 429, SOC 430, SOC 455, and WMNST 471 from Supporting Courses and Related Areas

**Russian, B.A. (RUS_BA)**

**Effective Fall 2022:**

- Changed Program Description
- Increased Requirements for the Major from 28 credits to 29 credits
- Decreased Electives from 23 credits to 22 credits
- Increased Prescribed Courses from 13 credits to 17 credits
- Removed RUS 400 from Prescribed Courses
- Added RUS 420 to Prescribed Courses
- Decreased Additional Courses from 15 credits to 12 credits
- Moved RUS 401 from Additional Courses to Prescribed Courses
- Removed RUS 402, RUS 403 from Additional Courses

**Russian, Minor (RUS_UMNR)**

**Effective Summer 2022:**

- Revised Program Description
- Added Entrance to Minor requirements
- Increased Requirements for the Minor from 19 credits to 20 credits
- Increased Prescribed Courses from 7 credits to 11 credits
- Added RUS 401 to Prescribed Courses
- Added RUS 101N, RUS 110, RUS 144, RUS 145 to Additional Courses
- Decreased Supporting Courses and Related Areas from 9 credits to 6 credits

**Russian Translation, B.S. (RUST_BS)**

**Effective Fall 2022:**

- Program phased out

**Russian Translation, Minor (RUST_UMNR)**

**Effective Fall 2022:**

- Program phased out

**Science, B.S. (Altoona) (SCIAL_BS)**

**Effective June 15, 2022:**

- Enrollment Hold implemented at Penn State Altoona, the Altoona College; program not accepting new students at Penn State Altoona, the Altoona College

**Science, B.S. (Science) (SCBS_BS)**

**Effective Summer 2022:**

- Life Sciences option phased out at University Park campus

**Statistics, B.S. (STAT_BS)**

**Effective Summer 2022:**

- Changed total requirements for degree completion from 124 credits to 120 credits
- Changed Requirements for the Major from 80-95 credits to 81-94 credits
- Added 0-1 credits of Electives
- Increased Common Requirements for the Major (All Options) from 38-41 credits to 39-42 credits
- Increased Prescribed Courses for the Major from 37-38 credits to 38-39 credits
- Increased the number of credits for STAT 184 in Prescribed Courses for the Major from 1 credit to 2 credits
- Added STAT 300, STAT 400 to Prescribed Courses for the Major
- Removed STAT 461, STAT 462 from Prescribed Courses for the Major
- Changed STAT 470 to STAT 470W in Prescribed Courses for the Major
- Changed the Actuarial Statistics Option from 53 credits to 48 credits
- Added CMPSC 131, BBH/HPA 440, CMPSC 448, RM 415, RM 420 to Additional Courses in the Actuarial Statistics Option
- Removed CMPSC 202 from Additional Courses in the Actuarial Statistics Option
- Changed Supporting Courses and Related Areas in the Actuarial Statistics Option from 13 credits to 8 credits
- Changed the Applied Statistics Option from 47 credits to 42 credits
- Added CMPSC 131, BBH/HPA 440, CMPSC 448, RM 415, RM 420 to Additional Courses in the Applied Statistics Option
- Removed CMPSC 202 from Additional Courses in the Applied Statistics Option
- Changed Supporting Courses and Related Areas in the Applied Statistics Option from 32 credits to 27 credits
- Changed the Biostatistics Option from 56-57 credits to 50-52 credits
- Added CMPSC 131, BBH/HPA 440, CMPSC 448, RM 415, RM 420 to Additional Courses in the Biostatistics Option
- Removed CMPSC 202 from Additional Courses in the Biostatistics Option
- Changed Supporting Courses and Related Areas in the Biostatistics Option from 19-20 credits to 14-15 credits
- Changed the Graduate Study Option from 47 credits to 42 credits
- Added CMPSC 131, BBH/HPA 440, CMPSC 448, RM 415, RM 420 to Additional Courses in the Graduate Study Option
- Removed CMPSC 202 from Additional Courses in the Graduate Study Option
- Changed Supporting Courses and Related Areas in the Graduate Study Option from 14 credits to 9 credits
- Changed the Statistics and Computing Option from 47 credits to 42 credits
- Added CMPSC 131 and CMPSC 132 to Prescribed Courses in the Statistics and Computing Option
• Removed CMPSC 121 and CMPSC 122 from Prescribed Courses for the Statistics and Computing Option
• Added BBH/HPA 440, CMPSC 448, RM 415, RM 420 to Additional Courses in the Statistics and Computing Option
• Changed Supporting Courses and Related Areas in the Statistics and Computing Option from 14 credits to 9 credits

**Telecommunications and Media Industries, B.A. (TELCM_BA)**
*Effective Summer 2022:*
• Added COMM 170, COMM 305, COMM 388, COMM 482 to Additional Courses
• Removed COMM 242, COMM 404, COMM 492 from Additional Courses
• Added COMM 305 to Supporting Courses and Related Areas
• Removed COMM 403, COMM 411 from Supporting Courses and Related Areas

**Worklink Strategies and Employability, Certificate (WKLNK_UCT)**
*Effective Summer 2022:*
• New certificate added