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Anthropology and Sociology

Anthropology, B.S.
1. Students will understand general anthropological concepts.
2. Students will be able to explain anthropological core concepts.
3. Students will be able to explain key theoretical anthropological concepts.
4. Students will be able to effectively communicate via written and/or presentation mediums.
5. Students will be able to effectively communicate answers to essay questions.

Forensic Anthropology, B.S.
1. Students will understand general anthropological concepts.
2. Students will be able to explain general forensic anthropological concepts.
3. Students will be able to explain key theoretical anthropological concepts.
4. Students will be able to effectively communicate using a professional reporting structure.
5. Students will be able to effectively communicate answers to essay questions to a general audience.

Sociology, B.S.
1. Students will be able to identify the core concepts in sociology.
2. Students will be able to identify the core theoretical perspectives in sociology.
3. Students will be able to identify the core research methods and data analysis tools in sociology.
4. Students will be able to apply theoretical perspectives and methods to the study of sociology.
5. Students will be able to verbally communicate effectively within the context of sociology via public presentations.
6. Students will be able to verbally communicate effectively within the context of sociology via Engaged Learning Experience (ELE) written work.

Biology

Biology, B.S.
1. Students will learn the basic principles of biology and how they are connected by evolutionary processes.
2. Students will learn the elements of biological investigations and are expected to demonstrate competence in the basic quantitative and technical skills necessary to plan and conduct such a study.
3. Students will learn how to find, synthesize, and integrate results produced by other biologists.
4. Students will learn how to collect, summarize, and communicate data in the style of their specific biological discipline as well as in non-technical summaries or abstracts for others.

Biology, M.S.
1. Students will learn to use the scientific literature and prior knowledge to formulate an original testable research question in biological science and identify methods for testing that question.
2. Students will learn to use appropriate methods to collect data.
3. Students will learn to analyze and interpret scientific data.
4. Students will learn to interpret and present research results and contextual scientific knowledge of biological sciences in oral and written forms.

Chemistry and Physics

Chemistry, B.S.
1. Students will achieve an acceptable level of precision in their laboratory work.
2. Students will achieve an acceptable level of accuracy in their laboratory work.
3. Students will demonstrate competence in laboratory techniques.
4. Students will demonstrate complex problem-solving skills in the area of chemical measurement.
5. Students will demonstrate complex problem-solving skills in the area of chemical synthesis.
6. Students will demonstrate complex problem-solving skills in the area of chemical theory.

Chemistry, M.S.
1. Students will demonstrate complex problem-solving skills.
2. Students will demonstrate laboratory skills.
3. Students will demonstrate development of independent research skills.
4. Students will demonstrate skills that serve the profession, which may include professional ethics, oral and written scientific communication skills, and/or the ability to work in teams.

Forensic Science, B.S.
1. Students will have solid foundational knowledge in chemistry, biology, physics and math.
2. Students will have an in-depth understanding of the scientific concepts within their chosen concentration (biology or chemistry) and be able to apply these concepts within a forensic science framework.
3. Students will be able to perform standard laboratory techniques related to their chosen concentration.
   a. Forensic Biology: Students will perform human identification techniques on various biological specimen types. Techniques will include serological tissue
determination, DNA extraction, DNA quantification, PCR amplification of forensically relevant DNA markers, DNA profile analysis and statistics

b. Forensic Chemistry: Students will use various instrumentation that may include gas chromatography-mass spectrometry, liquid chromatography-mass spectrometry, Infrared spectroscopy, x-ray fluorescence spectrometry and scanning electron microscopy for various forensic applications. Applications may include arson/explosive analysis, fiber analysis, counterfeit money analysis, counterfeit pharmaceutical analysis, glass analysis, soil analysis or toxicology.

4. Students will be able to present orally scientific information in a clear and organized manner in a style appropriate for the target audience.
5. Students will be able to write well-organized and concise scientific reports and other written communications in a style appropriate for the target audience.
6. Students will be knowledgeable of ethical principles and the application of those principles to forensic science
7. Students will be able to identify situations requiring decisions, find and use appropriate information to address the situation, analyze data and make decisions using appropriate methods
8. Students will be able to identify problems that require solutions, find and use appropriate information to address the situation, analyze data and identify solutions using appropriate methods
9. Students will work effectively in groups, and be able to interact productively with a diverse group of peers
10. Students will be effective team leaders as well as effective team members.

Communication

Communication, B.S.
1. Students will be able to explain fundamental communication concepts, principles, and theories
2. Students will be able to demonstrate a combination of oral, written, and technical skills.
3. Students will be able to apply an understanding of ethical communication principles in personal and/or professional contexts.
4. Students will be able to articulate the role of communication in understanding and relating to diverse people, contexts, situations and cultures.
5. Students will be able to synthesize relevant information into effective messages for a variety of communication contexts.
6. Students will be able to evaluate information critically across communicative contexts.

Criminology and Criminal Justice

Criminal Justice, B.S.
1. Students will contrast diverse perspectives for explaining crime causation.
2. Students will apply research design principles and data analytic techniques to analyzing criminological and criminal justice issues.
3. Students will critically analyze operations through all phases of the criminal justice process (creation of laws, policing, court operations and correctional activities).
4. Students will display and present an understanding of ethical principles and diversity values in the context of seeking justice.
5. Students will effectively communicate, both in writing and orally, regarding a wide range of criminological issues.
6. Students will critically assess career trajectories in the field of criminal justice, broadly defined.

Emergency Disaster Management, B.S.
1. Students will comprehend how the roles, functions and interrelationships affect the coordination of planning and response to disasters.
2. Students will critically analyze how risk principles apply to the assignment of priorities and resources.
3. Students will apply knowledge of the legal framework, regulations and protocols to disaster events.
4. Students will apply principles of basic research methods to a review of the literature and the development of a research project.
5. Students will integrate and apply Emergency and Disaster Management theories, principles and concepts to address real life disaster events and emergency situations.
6. Students will communicate in writing and orally to convey professionalism, coordinate effectively and facilitate collaboration.

English, B.A.
1. Students will locate, evaluate, analyze, and synthesize information from multiple kinds of sources.
2. Students will articulate content knowledge in visual literacy, language, literature, rhetoric, and writing.
3. Students will execute effective writing skills across a variety of tasks, media, audiences, and contexts.
4. Students will show awareness and understanding of unfamiliar communities, ideas, cultures, and values.
5. Students will exhibit readiness for careers and/or advanced studies by embodying high standards of professional activity, discourse, and behavior.

English, M.A.
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English, M.A.Ed.
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3. Students will execute effective writing skills across a variety of tasks, media, audiences, and contexts.
4. Students will show awareness and understanding of unfamiliar communities, ideas, cultures, and values.
5. Students will exhibit readiness for careers and/or advanced studies by embodying high standards of professional activity, discourse, and behavior.

English, M.A.T.
1. Students will locate, evaluate, analyze, and synthesize information from multiple kinds of sources.
2. Students will articulate content knowledge in visual literacy, language, literature, rhetoric, and writing.
3. Students will execute effective writing skills across a variety of tasks, media, audiences, and contexts.
4. Students will show awareness and understanding of unfamiliar communities, ideas, cultures, and values.
5. Students will exhibit readiness for careers and/or advanced studies by embodying high standards of professional activity, discourse, and behavior.

English, Post-Bac Certificate
1. Students will locate, evaluate, analyze, and synthesize information from multiple kinds of sources.
2. Students will articulate content knowledge in visual literacy, language, literature, rhetoric, and writing.
3. Students will execute effective writing skills across a variety of tasks, media, audiences, and contexts.
4. Students will show awareness and understanding of unfamiliar communities, ideas, cultures, and values.
5. Students will exhibit readiness for careers and/or advanced studies by embodying high standards of professional activity, discourse, and behavior.
Geosciences and Natural Resources

Environmental Science, B.S.
1. Students will acquire foundational knowledge and skills in a diversity of natural sciences, including chemistry, biology, geology and geospatial analysis.
2. Students will understand and analyze the interactions and dependencies between built and natural systems and how the values of social systems— such as wellbeing and justice— connect to features of natural systems—such as biodiversity and ecosystem function.
3. Students will be competent in the practice of field science, gaining knowledge about the natural world in an outdoor setting with the proper use of field equipment and sampling techniques.
4. Students will be competent in the practice of laboratory science, including the proper use of instruments and analytical techniques to quantify chemicals relevant to environmental problems.
5. Students will integrate data from a variety of disciplinary contexts and clearly communicate its significance for creating solutions to environmental problems.

Geology, B.S.
1. Students will have effective written, oral, and graphic communication skills in general and within geology.
2. Students will be able to carry out geological research, including problem definition, study design, analytical procedures, analysis of results, and communication of results.
3. Students will have broad understanding of geological knowledge and supporting field, laboratory, and computer skills.
4. Students will have the confidence to solve problems independently in the field and in the lab.

Natural Resource and Conservation Management, B.S.
1. Students will be able to form scientific hypotheses, interpret inferential statistics to test associated statistical hypotheses (predictions), and produce professional quality results (tables and figures) to effectively disseminate results.
2. Students will be able to calculate both the standard deviation and a confidence interval for a set of numerical data. Students will also be able to interpret both the standard deviation and confidence interval in a sentence.
3. Students will be able to use geospatial technologies to collect, edit, and map spatial data.
4. Students will gain a better understanding of the discipline in order to become more certain regarding their career path.

History, B.S.
1. Students will construct a narrative of historical events through appropriate sources.
2. Students will identify historical themes and construct a historical argument across time and space.
3. Students will gather evidence through research in appropriate sources.
4. Students will construct papers in Standard Academic English that use properly cited historical evidence.
5. Students will orally articulate historical questions, arguments, and evidence in a group or public setting.
6. Students will apply and reflect on historical skills to a variety of internships or other significant experiential activities.

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6. Students will apply and reflect on historical skills to a variety of internships or other significant experiential activities.

History, M.A.
1. Students will encounter and study a broad range of periods, cultures, ideas, and perspectives.
2. Students will demonstrate advanced research and writing skills.
3. Students will demonstrate understanding of the literature in their fields.
4. Students will contribute to their fields through scholarly presentations, publications, and/or collaborations with Public History institutions.

Public History, Undergraduate Certificate
1. Students will demonstrate an understanding of how academic history and public history overlap and diverge.
2. Students will demonstrate the ability to communicate historical concepts to diverse audiences.
3. Students will have an experience practicing in the public history profession.

Social Studies Education, B.S.Ed.
1. Students will demonstrate content-area knowledge including, though not limited to, extensive knowledge of United States and European history, and a working knowledge of non-western history, political science, economics, and geography.
2. Students will possess the pedagogical and professional knowledge, skills, and dispositions to organize and provide instruction that is aligned with state standards and appropriate for the secondary school classroom.
3. Students will apply pedagogical and professional knowledge, skills, and dispositions effectively in a clinical setting.
4. Students will demonstrate the knowledge, capabilities, and dispositions to develop as reflective practitioners and continuous learners.

**Math and Computer Science**

**Computer Science, B.S.**
1. Students will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Students will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Students will communicate effectively in a variety of professional contexts.
4. Students will recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Students will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Students will apply computer science theory and software development fundamentals to produce computing-based solutions.

**Math, B.S.**
1. Students will demonstrate conceptual understanding in a variety of core mathematical domains.
2. Students will demonstrate procedural fluency in a variety of core mathematical domains.
3. Students will correctly and appropriately use inductive reasoning in proving mathematical statements.
4. Students will communicate undergraduate mathematical concepts correctly and clearly using mathematical language, both orally and in writing.
5. Students will utilize mathematical tools strategically, including technology, as a part of a problem-solving process.
6. Students will apply mathematics to analyze and solve problems in context.
7. Students will develop the ability to independently explore mathematical ideas.

**Secondary Math Education, B.S.Ed.**
1. Students will demonstrate conceptual understanding and procedural fluency in a variety of core mathematical domains.
2. Students will communicate undergraduate mathematical concepts correctly and clearly using mathematical language, both orally and in writing.
3. Students will apply mathematics to analyze and solve problems in context, using tools strategically.
4. Students will develop and write effective lesson plans for diverse learners.
5. Students will implement and analyze assessment plans that demonstrate a variety of assessment techniques and informs their practice.
Philosophy and Religion

Philosophy and Religion, B.A.

1. Students will demonstrate an ability to articulate and critically engage with core positions in philosophy and religion covered within the student’s area of concentration.
2. Students will demonstrate an ability to conduct research using primary and secondary sources.
3. Students will demonstrate an ability to construct a cogent argument with a clear thesis that anticipates and responds to key objections.
4. Students will demonstrate the ability to articulate and justify positions within the student’s area of concentration orally in a clear and well-structured manner and also to provide appropriate and relevant answers to questions.
5. Students will demonstrate the ability to articulate and justify positions within the student’s area of concentration in writing in a clear and well-structured manner, and to revise and improve in response to comments.
6. Students will demonstrate knowledge of core areas of the discipline as represented by required courses in the major within the student’s concentration.
7. Students will identify and articulate the values that are most important to them, both implicitly and ideally, and identify practical means by which to implement those values in their lives.
8. Students will demonstrate knowledge of scholarly consensus views about the origins, primary religious institutions, and ritual practices of major world religious traditions.

Political Science and Public Affairs

International Studies, B.S.

1. Students will analyze one or more global or regional challenges from an interdisciplinary perspective.
2. Students will develop realistic policy solutions to pressing global problems.
3. Students will demonstrate intermediate (four semester) proficiency in a foreign language.
4. Students will demonstrate competency in communicating research to audience.
5. Students will evaluate career and post-graduate opportunities available to International Studies majors.
6. Students will extend disciplinary knowledge to international engagement outside of the classroom.

Political Science, B.S.

1. Students will critically evaluate the credibility of information sources, assessing them for relevance, legitimacy, and potential bias.
2. Students will interpret both qualitative and quantitative data in order to draw appropriate conclusions based on evidence and will demonstrate foundational knowledge of data analysis tools and techniques.
3. Students will recognize and evaluate information regarding career and post-graduate opportunities related to their education and specific interests.
4. Students will demonstrate effective written communication, appropriate to the field.
5. Students will demonstrate effective oral communication, appropriate to the field.
6. Students will analyze, and critically evaluate political processes and outcomes outside of the United States, utilizing major theories of Political Science.
7. Students will analyze, and critically evaluate political processes and outcomes inside the United States, utilizing major theories of Political Science.
8. Students will analyze political theory texts and apply theories to fundamental political concepts.

Public Affairs, M.P.A.
1. Students will be able to communicate how individualized career goals fit within the broader sphere of public service.
2. Students will apply public values, ethical reasoning, and professional norms to navigate dilemmas in the practice of public affairs administration.
3. Students will demonstrate cultural awareness by identifying different stakeholder communities and their information needs regarding a policy, program, or project.

World Languages

Spanish, B.A.
1. Students will be able to exchange ideas and opinions in spoken and written Spanish in the present, past, and future.
2. Students will be able to demonstrate critical thinking in the present, past, and future in a sophisticated and culturally appropriate manner.
3. Students will be able to demonstrate critical thinking with respect to literary texts written in Spanish.
4. Students will be able to demonstrate comprehension of Hispanic cultures based on those cultures’ products and practices.