College of Arts and Sciences (CAS)

Undergraduate Programs Outcomes

Division of Arts and Letters	
Antropology and Sociology	1. Demonstrate anthropological and sociological understandings of how experiences of race, ethnicity, social class, gender and sexuality are shaped by social institutions and cultural practices;
	2. Apply anthropology and sociology theory and research methods to explain social phenomena observed in our society or others;
	3. Apply global and cross-cultural knowledge local to interpret social processes and/or problems through the lenses of social justice, with a goal for more equitable, inclusive, and sustainable world;
	4. Implement critical thinking, analytical, and research skills to the anthropological and sociological explanations of social processes;
	5. Building written, visual, and oral communication skills, as experienced through individual and collaborative skill-building exercises.
Art	1. Exhibit skill with fundamental materials, tools, and practices. 2. Communicate effectively about their work through a portfolio 3. Demonstrate knowledge of core professional practices 4. Analyze creative work using theoretical and historical methodologies
Communication	1. Utilize the broad nature of the communication discipline to examine contemporary debates within the field. 2. Employ communication theories and concepts for constucting effective messages across multiple forms of media. 3. Cultivate techniques of effective message design as appropriate to audience, context, and purpose. 4. Critically analyze messages and the significance of their meanings. 5. Demonstrate the ability to communicate effectively and with integrity as members of an informed and engaged citizenry.
Criminal Justice	1. Employ clear written, visual, and oral communication with diverse audiences, as experienced through individual and collaborative skill-building exercises; 2. Demonstrate critical thinking, analytic thinking, research skills, and/or problem-solving skills to current policies and issues in criminal justice; 3. Select the relevant and appropriate criminal, social, and restorative justice theories and research methods to the understanding of criminal justice practices, policies, and institutions; 4. Design academic and professional work that embodies ethical values, personal integrity, and social equity.
English	"1. Interpret literary texts from multiple eras, cultures, and genres, using a variety of critical approaches; 2. Analyze connections between literary texts and their historical, social, political, and cultural contexts; 3. Express complex ideas with clarity and style, both orally and in writing; 4. Evaluate academic discourse in a variety of genres and modalities; 5. Apply research skills which enable them to expand, from a variety of perspectives, their own readings of literature and rhetoric;"
English Teacher Education	1. Evaluate academic discourse in a variety of genres and modalities;
	2. Apply research skills which enable them to expand, from a variety of perspectives, their own readings of literature and rhetoric;
	3. Explain, with respect and understanding, the importance of diversity in language use, patterns, and dialects across cultures, ethnic groups, geographic regions, and social roles; 4. Plan coherent, relevant, standards-aligned, antiracist/antibias, and differentiated instruction that incorporates theories, research, and knowledge of English content.

Gender and Sexuality Studies	1. Explore marginalized epistemologies and experiences and the implications for diverse bodies. 2. Examine the impact of gender and sexuality identiies on human relations within local, national, transnational, and global communities both historically and currently. 3. Analyze the construction and maintenance of power dynamics within legal, criminal, political, economic, educational, and cultural systems. 4. Evaluate the multiple constructions, in both production and reception, of gender and sexuality across multimodal media, including literature, pop culture, social media, etc... 5. Demonstrate the ability to articulate and apply an intersectional analysis - grounded in feminist, queer, and emergin theories, research practices, and methodologies - evaluating issues related to gender and sexuality in order to foster advocacy and promote social justice.
History	1. Understand the dynamics of change over time. 2. Explore the complexity of the human experience, across time and space. 3. Evaluate a variety of historical sources for their credibiity, position, and perspective. 4. Demonstrate how the study of history contributes to lifelong learning and developing critical habits of mind essential for engaged citizenship 5. Distinguish between primary and secondary materials and decide when to use each.
Interdisaplinary Studies	1. Integrate perspectives and methods of at least two academic fields and propose a 'best approach' solution to a complex problem using evidence from these fields; 2. Define information needed for a project, then locate, use, and evaluate information found. 3. Apply interdisciplinary theories and tools to respond to an ethical or policy question. 4. Evaluate the strengths and limitations of a proposed or existing project within a business, non-profit, or governmental setting.
Media Studies	"1. Evaluate local, global, and international perspectives and implications of the changing media environment, emerging cultures, and production practices. 2. Develop exemplary media production skills, practices, and knowledge. 3. Demonstrate the ability to adapt media skills and knowledge to current and emerging opportunities. 4. Understand the relationships of media history, theory, and practice. 5. Engage with a community focus on local and global media production. "
Political Science	"1. Analyze political theories, concepts, and institutions associated with American and Comparative politics and International Relations. 2. Examine the mechanisms of other countries' political and economic systems, the relations among countries in the international arena. 3. Apply interdisciplinary theory and research methodology to political practice as a basis for citizenship and stimulate interest in graduate study and/or governmental service. 4. Demonstrates the breadth, diversity, and development of Political Science as a discipline. 5. Assess social justice as a mechanism of individual empowerment to challenge and change injustice within institutions. "
Social Sciences w/ Concentration in Techer Education* and Social Science Ed (Post-BA Cert)*	

Theatre and Performance Studies	"1. Synthesize the disciplinary traditions of Theatre and Performance Studies and their interrelationship within a variety of texts and contexts 2. Exhibit proficiency in performance vernacular, technique, and etiquette, including the vocal, physical, improvisational, imaginative, and collaborative skills essential to performance 3. Analyze and evaluate the aesthetic, historical, cultural, and theoretical dimensions of performance, including significant figures, movements, and issues 4. Conceptualize performance as a transformative agent of social, cultural, political, and personal change, grounded in the art of storytelling 5. Develop artistic abilities, sensibilities, and creativities with integrity, confidence, and critical thought resulting in the creation of a capstone project "
Division of Science, Mathematics, and Technology	
Biology	1. Understand knowledge of biology content areas including molecular, organismic and population biology. 2. Communicate ideas in a scientific style that is clear and logically organized. 3. Identify and refine their academic and career goals.
Biology Teacher Education	1. Understand how students learn and develop scientific knowledge. 2. Plan for engaging all students in science learning with lessons aligned with state and national science standards. 3. Maintain a safe and ethical learning environment for all living organisms in and out of the classroom. 4. Provide evidence to show that P-12 students' understanding of major science concepts, principles, theories and laws have changed as a result of instruction by the preservice teacher.
Chemistry	"1: Acquire foundational knowledge in each of the five traditional subdisciplines of chemistry. 2: Develop problem-solving skills to proficiently conduct chemistry-related work. 3: Utilize modern library search tools to identify and access literature. 4: Perform chemical analyses using modern instrumentation. 5: Adhere to current safety practices to properly handle chemicals and instruments. "
Chemistry Teacher Education	
Computer Science w/ Digital Forensics Certification	"1. Obtain and apply the fundamental understanding of algorithms, data structures, networking, database concepts, operating systems, and programming languages to problems requiring computer solutions; 2. Demonstrate the ability to enhance technical skills through life-long learning; 3. Demonstrate the ability to apply the principles and practice of software design to real problems; 4. Have a sound foundation and ability to apply principles in Computer Science; 5. Work and communicate effectively, either independently or in a team, to solve problems using computer science principles; "
Information Technology	"1. The student can apply a wide range of strategies to solve problems in mathematics and statistics and in the applications of mathematics and statistics 2. The student can compose and communicate mathematical and statistical thinking clearly to peers, faculty and others by using the language of mathematics to express thoughts and ideas 3. The student can demonstrate how mathematical ideas build and connect to on one another to produce a related whole 4. The student can make use of a variety of representations to model and interpret physical, social, and mathematical phenomena 5. The student can use a variety of appropriate technologies to solve problems in mathematics and statistics "

Mathematics; Mathematics w/ Concentration in Techer Education* and Math Ed (Post-BA cert)*	1. The student can apply a wide range of strategies to solve problems in mathematics and statistics and in the applications of mathematics and statistics. 2. The student can compose and communicate mathematical and statistical thinking clearly to peers, faculty, and others by using the language of mathematics to express thoughts and ideas. 3. The student can demonstrate how mathematical ideas build and connect to one another to produce a related whole. 4. The student can make use of a variety of representations to model and interpret physical, social, and mathematical phenomena. 5. The student can use a variety of appropriate technologies to solve problems in mathematics and statistics.
Mathematics Concentration in Techer Education	
Mathematical Actuarial Science	

Masters Programs Outcomes

Division of Arts and Letters	
Art	
Communication, Media, and Performance	1. Analyze effective message construction across multiple forms of media. 2. Interpret and constructively critique message meanings. 3. Evaluate useful message design and identify its implications. 4. Investigate and evaluate dynamic communication with regard to changing technological, socio-cultural, political, leadership and economic environments. 5. Explore and exemplify ethical and professional communication practices that promote human relations.
Criminal Justice	1. Understanding of team-building techniques for justice-related projects
	2. Familiarity with historical and current theoretical approaches to explaining criminal behavior and organizational theory pertaining to public organizations, particularly justice-related organizations
	3. Apply planning, analysis, and problem-solving techniques to justice-related problems and challenges
	4. Understanding of community-based, multi-agency approaches to solving crime problems
	5. Utilize research-based, strategic approaches to solving crime problems
English	"1. Describe threshold concepts, foundational knowledge, and theoretical approaches pertinent to English Studies, demonstrating advanced content knowledge in the discipline. (Content Knowledge) 2. Analyze and interpret a wide range of texts, insightfully and originally, attentive to style and form as well as relevant social, historical, cultural, and rhetorical contexts. (Analysis/Interpretation) 3. Develop sophisticated methodologies and theoretical frameworks to address focused research questions in literary studies and writing studies, in the creation of high-quality, original texts. (Research; Theory) 4. Compose high-quality, original texts in a variety of genres and modalities for both scholarly and public audiences, in line with disciplinary expectations for writing process (rhetorical awareness, drafting, peer review, revision); discourse conventions; and students' rights to their own language. (Writing Process; Rhetorical Awareness) "

Independent Film and Digital Imaging	1. Students will undertake productions in the disciipline of independent film and digital imaging, in laboratory, studio and remote production. Undertakings include the making of gallery works and feature-length high definition video productions. Students will engage in exercises related to conception, development, composition, producing, photography, cinematorgraphy, directing, lighting, sound recording, sound mixing, still graphic design, motion graphic design, video editing, marketing and publicity. 2. Students will develop professional skills that enable them to be considered candidates as faculty in the applied multimedia disciplines of post-secondary education, and independent digital filmmakers and artists. 3. Students will master discipline-related theory and aesthetics and demonstrate this mastery through effective written and oral presentations. 4. Students will demonstrate critical thinking and evaluative abilities as they relate to interpretations of digital photographic arts and the cinema.
Political and Social Justice Studies	1. Critically evaluate classical and contemporary theories of political and social justice. 2. Apply quantitative or qualitative research methods toward an orifinal analysis of an issue in social justice and/or global and comparative politics, including issues of
Public Adminstration*	1. To lead and manage in public governance 2. To participate in and contribute to the policy process 3. To analyze, synthesize, think critically, solve problems and make decisions 4. To articulate and apply a public service perspective 5. To communicate and interact with a diverse and changing workforce and citizenry
Division of Science, Mathematics, and Technology	
Analytical Chemistry	"1: Develop advanced problem-solving skills. 2: Apply advanced instrumentation to carry out experiments and chemical analyses. 3: Adhere to current safety practices to properly handle chemicals and instruments. 4: Carry out an independent research project. 5: Present outcomes of research in a public forum and prepare a thesis or a capstone project report. "
Biology	1. Demonstrate knowledge of biology content areas including molecular, organismic and population biology. 2. Improve critical thinking skills. 3. Use scientific and scholarly approach to answer a question or solve a problem in the discipline. 4. Identify and refine their academic and career foals.
Computer Science	1. Integrate concepts, tools, and theories to find technology-based solutions to problems;
	2. Apply professional skills to model, analyze, and design components or systems that meet technical specification;
	3. Apply concepts of software architectures for different development projects;
	4. Utilize concepts to dissect and identify system limitation in terms of threats and vulnerabilities;
	5. Work and communicate effectively, either independently or in a team, to solve problems using computer science principles;
w/ Data Analytics (Post-BA)	
w/ Digital Forensics (Post-BA)	
Information Technology	
Mathematics	
Mathematical Actuarial Science	