

# College of Arts and Letters



Program and Certificate Student Learning Outcomes (2008-09 catalog & AIEA data portal)

Department & programs	University SLO category	Student Learning Outcomes
<b>Art</b>		
<b>BA - Art History</b>	Disciplinary Knowledge & Skills	1. Have a fundamental ability to read and comprehend texts and to analyze works of art with peers and faculty.
	Disciplinary Knowledge & Skills	2. Have a fundamental knowledge of major movements, styles, and artists within the history of art.
	Critical Thinking	3. Have the ability to do independent research from diverse texts within the subject of Art History.
	Communication Skills	4. Be able to synthesize their art historical knowledge into the practice of the art historical discipline through discussion and writing.
	Multiple: Critical Thinking and Communication Skills	5. Have the ability to bring together their research into clear written form.
	Disciplinary Knowledge & Skills	6. Demonstrate an awareness of current scholarly opinion regarding issues of interpretation in the field and the ability.
<b>BA - Studio Art</b>	Multiple: Critical Thinking and Communication Skills	1. Have the ability to analyze, interpret and create written or spoken dialog about diverse works of art.
	Communication Skills	2. Demonstrate the ability to articulate thoughts and ideas in relation to an art historical timeline, and the ability to articulate and discuss art within our own culture and the art of culturally diverse settings.
	Disciplinary Knowledge & Skills	3. Have basic skills to create works of art in at least three different media.
	Disciplinary Knowledge & Skills	4. Have advanced skills and knowledge to create works of art in at least one medium.
	Disciplinary Knowledge & Skills	5. Be able to synthesize their studio practice into the professional practice of the discipline.
<b>BAE - Visual Arts (Elementary)</b>	Disciplinary Knowledge & Skills	1. Have the basic knowledge, skills, and understanding of art's role and function in our daily lives, schools, society, and culture.
	Multiple: Disciplinary Knowledge & Skills and Communication Skills	2. Have the basic knowledge, skills, and understanding to look at, discuss, write about, and interpret artworks and become aware of integrated learning opportunities for art in educational settings.
	Disciplinary Knowledge & Skills	3. Have the basic knowledge, skills, and understanding in contemporary issues and trends in art education, and in the role and value of art education for elementary students and in teaching practice.
	Disciplinary Knowledge & Skills	4. Have basic knowledge, skills and understanding of methods and strategies for teaching meaningful art lessons to K-8 students, exploring the values and possibilities in art-making activities.
	Disciplinary Knowledge & Skills	5. Demonstrate basic studio competencies using a variety of art materials, methods, styles, and techniques appropriate to K-8 education.
	Disciplinary Knowledge & Skills	6. Have basic knowledge, skills, and understanding of the community resources available to enhance the integration of art making, art criticism, aesthetics, and art history in educational settings.

Department & programs	University SLO category	Student Learning Outcomes
<b>Art (cont.)</b>		
<b>BAE - Visual Arts (Secondary)</b>	Disciplinary Knowledge & Skills	1. Understand, develop, demonstrate, and practice knowledge of the theory and practice of Art Education for secondary level students.
	Disciplinary Knowledge & Skills	2. Understand, develop, demonstrate, and practice appropriate curriculum and teaching methods for studio, and for art history, criticism, and aesthetics.
	Disciplinary Knowledge & Skills	3. Understand, develop, demonstrate, and practice appropriate professional dispositions, art content, and art knowledge for successful teaching.
	Multiple: Disciplinary Knowledge & Skills and Global Awareness/Cultural Competence	4. Develop, demonstrate, and practice understanding and knowledge through discussing philosophical and historical knowledge of Art Education, and be able to articulate and discuss art within our own culture and the art of other cultures.
	Info/Technology Literacy	5. Understand, develop, demonstrate, and practice skills in the use of computer for curriculum development, instruction, as an art media, and for classroom management.
	Community Engagement	6. Understand, develop, demonstrate, and practice an understanding of the community resources available to enhance the integration of art making, art criticism, aesthetics, and art history in secondary educational settings.
<b>BFA – Studio Art</b>	Multiple: Critical Thinking and Communication Skills	1. Have the ability to analyze, interpret, and create written or spoken dialog about diverse works of art.
	Multiple: Communication Skills and Global Awareness/Cultural Competence	2. Be able to convey thoughts and ideas in relation to an art historical timeline, apply contemporary concepts in art to their own work, and articulate and discuss art within our own culture and the art of other cultures.
	Disciplinary Knowledge & Skills	3. Have basic skills to create works of art in at least three different media.
	Disciplinary Knowledge & Skills	4. Have advanced skills and knowledge to create work of art in at least one medium and intermediate skills and knowledge of at least one other medium.
	Disciplinary Knowledge & Skills	5. Have the ability to present and apply their skill in studio practice in the creation of a cohesive body of work on a level appropriate to entry into both graduate schools and art professions.
	Communication Skills	6. Have the ability to defend their portfolio work both orally and in written statement.

Department & programs	University SLO category	Student Learning Outcomes
<b>Art (cont.)</b>		
<p><i>BFA - Visual Communication Design</i></p> <p><i>(shared program with Engineering &amp; Design)</i></p>	Critical Thinking	1. Have the ability to solve visual communication problems, including the skills of identification, research and information gathering, analysis and generation of alternative solutions.
	Multiple: Disciplinary Knowledge & Skills and Global Awareness/Cultural Competency	2. Have the ability to draw on thoughts and ideas in relation to an art historical timeline, apply contemporary concepts in design to their own work and articulate and discuss art within our own culture and the art of other cultures.
	Multiple: Disciplinary Knowledge & Skills and Communication Skills	3. Have basic skills to create a response to visual communication problems, including an understanding of the principles of visual organization/composition, information hierarchy, symbolic representation, typography, aesthetics and the construction of meaningful images.
	Info/Technology Literacy	4. Have an understanding of multimedia tools and technology, including their roles in the creation, reproduction and distribution of visual messages.
	Multiple: Communication Skills and Disciplinary Knowledge & Skills	5. Be able to describe and respond to audiences and contexts that communication solutions must address, including recognition of the physical, cognitive and social human factors that shape design decisions. Students will have an understanding of basic business practices, including the ability to organize design projects and to work productively as members of a team.
	Multiple: Disciplinary Knowledge & Skills and Communication Skills	6. Create a cohesive body of work on a level appropriate to entry into both graduate schools and design professions and have the ability to defend their portfolio work both orally and in written statement.

Department & programs	University SLO category	Student Learning Outcomes
<b>Electronic Media, Film and Theatre</b>		
<b>BA - Electronic Media and Filmic Arts</b>	Disciplinary Knowledge & Skills	1. Direct and produce fiction and nonfiction short videos.
	Multiple: Disciplinary Knowledge & Skills and Communication Skills	2. Write classically structured screen plays of varying lengths.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	3. Integrate knowledge of video production, writing and critical practice to their creative work.
	Disciplinary Knowledge & Skills	4. Apply theories of the filmic arts as a means of deepening their criticism.
<b>BA - Theatre</b>	Disciplinary Knowledge & Skills	1. Demonstrate the ability to act and direct in live theatre.
	Disciplinary Knowledge & Skills	2. Analyze, interpret and apply knowledge of dramatic literature, cultural history and aesthetics to aspects of production.
	Global Awareness/Cultural Competence	3. Articulate the role of the theatre within our own culture and the culturally diverse world.
	Disciplinary Knowledge & Skills	4. Utilize the mechanics and aesthetics of technical theatre in design and production of live theatre.
	Multiple: Disciplinary Knowledge & Skills and Communication Skills	5. Describe, demonstrate and communicate the knowledge of one through four above to elementary, middle school and high school students.

Department & programs	University SLO category	Student Learning Outcomes
<b>English</b>		
<b>BA – English (Creative Writing and Literary Studies options)</b>	Multiple: Disciplinary Knowledge & Skills and Communication Skills	1. Demonstrate adherence to disciplinary conventions, including grammar, mechanics and appropriate citation style. Compose sophisticated arguments that are well organized and supported.
	Multiple: Critical Thinking and Info/Technology Literacy	2. Conduct productive research by determining scope of inquiry, identifying credible and useful sources, collecting and assessing data and arranging data into logical and considerate structures.
	Info/Technology Literacy	3. Use proficiently a variety of standard technologies to locate, create, design, present and edit information.
<b>BA - English (Technical Communication option)</b>	Multiple: Critical Thinking and Ethics	1. Analyze communication problems and propose effective and ethical solutions by clearly identifying and describing the problem and its context, the stakeholders and audiences involved, and the possible outcomes and consequences.
	Disciplinary Knowledge & Skills	2. Plan and manage team projects by identifying tasks, creating a time line for task completion, assigning tasks to individuals, and reporting plan and progress to supervisor/client.
	Multiple: Critical Thinking and Info/Technology Literacy	3. Conduct productive research by determining scope of inquiry, identifying credible and useful sources, collecting and assessing data, and arranging data into logical and considerate structures.
	Multiple: Disciplinary Knowledge & Skills and Info/Technology Literacy	4. Write, design, and edit a variety of professional documents, both print and electronic, using the principles of information design to create useable documents that address audiences' information and organizational needs and engage users in appropriate action.
	Info/Technology Literacy	5. Use proficiently a variety of standard technologies to locate, create, design, present, and edit information.
	Disciplinary Knowledge & Skills	6. Copyedit and proofread quantitative and technical information, reference citations, illustrations, and tables using the established symbols and conventions, style sheets, and correct grammar, mechanics, punctuation, and spelling.
<b>BAE - English (Elementary &amp; Secondary)</b>	Other	1. Reflectively assess their own ongoing development as teachers of English/Language Arts.
	Disciplinary Knowledge & Skills	2. Demonstrate their competence in established national standards (such as the guidelines of the National Council of Teachers of English) in content knowledge, pedagogical knowledge, and professional disposition.

Department & programs	University SLO category	Student Learning Outcomes
<b>English (cont.)</b>		
<b>MA - English (all options)</b>	Multiple: Critical Thinking and Info/Technology Literacy	1. Employ research methods, conduct original research, determine the value of a wide variety of sources (including computer databases and computer-mediated texts).
	Disciplinary Knowledge & Skills	2. Write and edit major papers in English.
	Disciplinary Knowledge & Skills	3. Engage in reflective practice in conjunction with academic writing.
<b>CERT - Teaching of Literature</b>	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	1. Demonstrate careful reading of a text and explicate a text using a range of literary theories and critical methodologies.
	Other	2. Reflectively assess their personal ongoing development as writers and teachers.
<b>CERT - Teaching of Writing</b>	Disciplinary Knowledge & Skills	1. Assess their own and others' writing based on analytic scoring criteria.
	Disciplinary Knowledge & Skills	2. Name parts of speech and how they are punctuated in syntactical units in Standard American English (SAE).
	Disciplinary Knowledge & Skills	3. Employ composition-curriculum components that reinforce one another in their students' learning experience.
<b>MFA - Creative Writing (all options)</b>	Disciplinary Knowledge & Skills	1. Develop advanced understanding of the publishing process.
	Disciplinary Knowledge & Skills	2. Develop familiarity with advanced formal and technical aspects of foundational literary works from the tradition and selected contemporary works in that genre. This knowledge will be evident both in students' critical responses and in students' own creative works.
	Disciplinary Knowledge & Skills	3. Demonstrate advanced ability to exercise self-criticism and to offer insightful, supportive and productive criticism to others. Part of this can be construed as students' development of editorial capacities, but part of it must be the development of a capacity to foster their own and others' continued artistic development through critical reading.
<b>BA - Humanities</b>	Disciplinary Knowledge & Skills	1. Learn to distinguish basic forms and strategies of philosophy, literature and at least one of the arts and of the social sciences.
	Disciplinary Knowledge & Skills	2. Recognize significant steps in the development of Western Civilization, not only how values have developed internally, but also the ways in which new values have entered the culture from other civilizations.
	Communication Skills	3. Write clear and effective English in a variety of rhetorical contexts.
	Multiple: Info/Technology Literacy and Critical Thinking	4. Use the different areas and functions of a library and demonstrate practical use of information resources in simple but independent research.
	Global Awareness/Cultural Competency	5. Learn how useful interpretations arise from differing experiences and information, especially from those who are different in age, abilities, ethnicity, gender or sexual orientation.
	Ethics	6. Learn the values of intellectual honesty, personal responsibility and the habits of active rather than passive learning.

Department & programs	University SLO category	Student Learning Outcomes
<b>English (cont.)</b>		
<b>BA - Journalism (all options)</b>	Multiple: Disciplinary Knowledge Skills and Communication Skills	1. Write in both report and feature story forms.
	Disciplinary Knowledge & Skills	2. Understand local government and the public policy process.
	Critical Thinking	3. Be a critical and analytical observer of the American public policy process.
	Communication Skills	4. Know how to observe and write efficiently and clearly about public events and public issues.
<b>BS - Journalism (Public Relations option)</b>	Multiple: Disciplinary Knowledge & Skills, Communication Skills and Critical Thinking	1. Know how to observe and write efficiently and clearly about public events and public issues, understand local government and the public policy process, be able to write in both report and feature story forms and be a critical and analytical observer of the American public policy process.
	Multiple: Critical Thinking, Interpersonal Competencies, Communication Skills, and Disciplinary Knowledge & Skills	2. Develop expertise in analyzing public relations opportunities, issues and environments, learn how to research, prepare and execute public relations tasks and campaigns, develop skills for appropriately interacting with members of disparate publics, develop persuasive and analytical writing and other verbal skills, demonstrate professional behavior, including meeting deadlines, producing clean and well-organized work and being prepared for a variety of types of organizational assignments.

Department & programs	University SLO category	Student Learning Outcomes
<b>Modern Languages &amp; Literatures &amp; Philosophy</b>		
<b>BAE - French (Elementary or Secondary)</b>	Disciplinary Knowledge & Skills	1. Apply knowledge of the historical background of the language culture under study; show conversance in contemporary issues political, economic, social and artistic.
	Disciplinary Knowledge & Skills	2. Demonstrate knowledge of the customs and idioms of the language culture under study in order to be able to respond to everyday situations in appropriate ways.
	Disciplinary Knowledge & Skills	3. Apply knowledge of language teaching techniques, methods and materials; demonstrate and apply knowledge of grammatical concepts and structures in preparation for the teaching profession.
	Communication Skills	4. Demonstrate proficiency in the oral language skills of listening and speaking; demonstrate proficiency in writing and reading.
	Disciplinary Knowledge & Skills	5. Demonstrate knowledge of major themes, genres, movements in the history of the literature of the language culture under study.
<b>BAE - Spanish (Elementary or Secondary)</b>	Disciplinary Content & Skills	1. Apply knowledge of the historical background of the language culture under study; show conversance in contemporary issues political, economic, social and artistic.
	Disciplinary Content & Skills	2. Demonstrate knowledge of the customs and idioms of the language culture understudy in order to be able to respond to everyday situations in appropriate ways.
	Disciplinary Content & Skills	3. Apply knowledge of language teaching techniques, methods and materials; demonstrate and apply knowledge of grammatical concepts and structures in preparation for the teaching profession.
	Communication Skills	4. Demonstrate proficiency in the oral language skills of listening and speaking; demonstrate proficiency in writing and reading.
	Disciplinary Content & Skills	5. Demonstrate knowledge of major themes, genres, movements in the history of the literature of the language culture under study.
<b>BA-French (w/ or w/o minor)</b>	Communication Skills	1. Demonstrate proficiency in the oral language skills of listening and speaking.
	Communication Skills	2. Demonstrate proficiency in writing and reading.
	Disciplinary Knowledge & Skills	3. Demonstrate knowledge of major themes, genres, movements in the history of the literature of the language culture under study.
	Disciplinary Knowledge & Skills	4. Demonstrate an understanding of the interconnectedness of language, culture, history and literature.
	Disciplinary Knowledge & Skills	5. Apply knowledge of the historical background of the language culture under study; show conversance in contemporary issues political, economic, social and artistic.
	Disciplinary Knowledge & Skills	6. Demonstrate knowledge of the customs and idioms of the language culture under study in order to be able to respond to everyday situations in appropriate ways.

Department & programs	University SLO category	Student Learning Outcomes
<b>MLLP (cont.)</b>		
<b>BA-Spanish (w. or w/o minor)</b>	Communication Skills	1. Demonstrate proficiency in the oral language skills of listening and speaking.
	Communication Skills	2. Demonstrate proficiency in writing and reading.
	Disciplinary Knowledge & Skills	3. Demonstrate knowledge of major themes, genres, movements in the history of the literature of the language culture under study.
	Disciplinary Knowledge & Skills	4. Demonstrate an understanding of the interconnectedness of language, culture, history and literature.
	Disciplinary Knowledge & Skills	5. Apply knowledge of the historical background of the language culture under study; show conversance in contemporary issues political, economic, social and artistic.
	Disciplinary Knowledge & Skills	6. Demonstrate knowledge of the customs and idioms of the language culture under study in order to be able to respond to everyday situations in appropriate ways.
<b>MED - French</b>	Disciplinary Knowledge & Skills	1. Demonstrate knowledge of the customs and idioms of the language culture under study in order to be able to respond to everyday situations in appropriate ways.
	Communication Skills	2. Demonstrate proficiency in the oral language skills of listening and speaking; demonstrate proficiency in writing and reading.
	Multiple: Disciplinary Knowledge & Skills and Global Awareness/Cultural Competence	3. Apply knowledge of the historical background of the language culture under study; show conversance in contemporary issues political, economic, social and artistic; demonstrate an ability to draw comparisons between the student's native culture and the language culture under study and/or among the cultures of the various regions and nations of the language culture.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	4. Apply knowledge of methods of educational research, psychological foundations of education, and historical, philosophical and social foundations of education.
	Disciplinary Knowledge & Skills	5. Demonstrate knowledge of major themes, genres, movements in the history of the literature of the language culture under study; demonstrate an understanding of the interconnectedness of language, culture, history and literature.
<b>BA - Philosophy</b>		<b>No student learning outcomes are listed.</b>

Department & programs	University SLO category	Student Learning Outcomes
<b>Music</b>		
<b>BA - Music</b>	Disciplinary Knowledge & Skills	1. Compose, perform, or teach music effectively.
	Disciplinary Knowledge & Skills	2. Demonstrate technical and esthetic understanding of music.
<b>BAE - Music</b>	Disciplinary Knowledge & Skills	1. Demonstrate the ability to teach choral and instrumental music effectively in grades K through 12.
<b>BM - Music (all options)</b>	Disciplinary Knowledge & Skills	1. Perform on their primary instrument in a variety of mediums and musical periods (Instrumental Performance option).
	Disciplinary Knowledge & Skills	2. Compose music in a variety of mediums and musical periods (Music Composition option).
	Disciplinary Knowledge & Skills	3. Compose music effectively in all genres and musical periods (Music Composition option).
	Disciplinary Knowledge & Skills	4. Perform on voice in a variety of mediums and musical periods (Vocal Performance option).
<b>CERT - Jazz and Commercial Music</b>	Multiple: Critical Thinking and Disciplinary Knowledge & Skills	1. Analyze and create arrangements and compositions in the jazz idiom.
	Multiple: Critical Thinking and Disciplinary Knowledge & Skills	2. Analyze, understand and perform literature through the study of jazz theory and improvisation.
	Multiple: Critical Thinking and Disciplinary Knowledge & Skills	3. Analyze and perform literature in a variety of ensemble settings with varying historical perspectives.
	Multiple: Critical Thinking and Disciplinary Knowledge & Skills	4. Analyze and perform various idiomatic instruments.
	Disciplinary Knowledge & Skills	5. Apply knowledge and skills gained for a jury and during a recital.
<b>MA - Music (all options)</b>	Multiple: Critical Thinking and Disciplinary Knowledge & Skills	1. Analyze, interpret and compose at the graduate level.
	Disciplinary Knowledge & Skills	2. Demonstrate the technical and esthetic value of music.

# College of Business and Public Administration



Program and Certificate Student Learning Outcomes (2008-09 catalog & AIEA data portal)

Department & programs	University SLO category	Student Learning Outcomes
<b>Accounting &amp; Information Systems</b>		
<i>BAB - Professional Accounting</i>	Ethics	1. Identify ethical issues and apply personal values and professional codes of conduct to resolve ethical issues, including social responsibility and environmental reporting issues.
	Global Awareness/Cultural Competence	2. Develop awareness of diverse perspectives and cultures and their impact on the communication of accounting information in the international arena.
	Communication Skills	3. Generate, interpret and communicate accounting information for use in decision making.
<i>BAE - Business Education (Secondary)</i>	Multiple: Disciplinary Knowledge & Skills and Global Awareness/Cultural Competence	1. Be able to apply and integrate the state's learning goals and essential learning requirements in program implementation and assessment and, in addition, be able to identify the diverse needs of students and implement programs and strategies that promote student competency and success.
	Multiple: Disciplinary Knowledge & Skills and Global Awareness/Cultural Competence	2. Be able to create and sustain safe learning environments that prepare diverse students for the workplace, advanced training and continued education.
	Multiple: Disciplinary Knowledge & Skills and Interpersonal Competencies	3. Model personal and professional attributes and leadership skills that reflect productive life and work roles as well as implement and maintain collaborative partnerships with students, colleagues, community, business, industry and families that maximize resources and promote student self-sufficiency.
	Multiple: Disciplinary Knowledge & Skills and Info/Technology Literacy	4. Demonstrate workplace competencies in keyboarding and digital input, information technology clusters, information systems management, information processing applications, technical communications, principles of entrepreneurship, business management, accounting and computation, economics & finance, international business and business law.
	Disciplinary Knowledge & Skills	5. Demonstrate teaching competence in all areas listed above in Learning Goal 4, including career development, work-based coordination, integration of leadership development into the curriculum and management of Future Business Leaders of America (FBLA) activities.

Department & programs	University SLO category	Student Learning Outcomes
<b>AIS (cont.)</b>		
<i>BAB - Management Information Systems</i>	Communication Skills	1. Demonstrate effective written and oral communication skills in a business context, which usually involves non-technical departments and users.
	Disciplinary Knowledge & Skills	2. Understand business domain knowledge, such as accounting, finance, marketing, human resource management, logistics and supply chain, health care administration and IT and the management.
	Disciplinary Knowledge & Skills	3. Acquire MIS technical skills, including programming principles, database principles, networking and data communications.
	Critical Thinking	4. Demonstrate problem-solving abilities by applying MIS technical skills, including business application program design, business database design.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	5. Demonstrate MIS project development skills through system analysis and design and demonstrate MIS/IT project management skills and team skills.

Department & programs	University SLO category	Student Learning Outcomes
<b>Management</b>		
<b>BAB - Economics</b>	Disciplinary Knowledge & Skills	1. Be able to use supply and demand modeling to predict and/or explain some economic event.
	Quantitative & Symbolic Reasoning	2. Demonstrate their ability to use quantitative skills to analyze economic data.
	Disciplinary Knowledge & Skills	3. Demonstrate understanding of the use of fiscal and monetary policies in addressing contemporary macroeconomic issues.
	Disciplinary Knowledge & Skills	4. Understand and apply the Cost/Benefit Principle to a current socio-economic issue.
<b>BAB – Finance</b>	Disciplinary Knowledge & Skills	1. Understand and be able to apply the time value of money.
	Disciplinary Knowledge & Skills	2. Be able to conduct long-term financial analysis in real-world domestic and international applications.
	Disciplinary Knowledge & Skills	3. Be able to integrate the cost of capital (derived from risk, capital structure and market factors) into financial analysis.
	Disciplinary Knowledge & Skills	4. Be able to conduct short-term financial analysis including cash-flow projections.
	Disciplinary Knowledge & Skills	5. Understand how modern securities including derivatives can be used to achieve investment and risk-management objectives.
<b>BAB – Management: General Business option</b>	Disciplinary Knowledge & Skills	1. Know the vocabulary of the business disciplines.
	Disciplinary Knowledge & Skills	2. Know the purpose and responsibilities of each business function: accounting, finance, human resource management, operations, and marketing.
	Disciplinary Knowledge & Skills	3. Explain key business concepts in each of the business functions, such as the 4 P's of marketing, motivation theories, time-value of money, and financial statements.
	Multiple: Info/Technology Literacy and Critical Thinking	4. Gather, prepare, and analyze information necessary to make rational business decisions.
	Multiple: Critical Thinking, Communication Skills and Quantitative/Symbolic Reasoning	5. Demonstrate judgment, communication skills, and quantitative techniques necessary to solve business problems.
<b>BAB – Management: Human Resource Management option</b>	Disciplinary Knowledge & Skills	1. Understand and deal with the influence of the major environmental factors that affect HRM activities.
	Disciplinary Knowledge & Skills	2. Possess the knowledge and skills needed to effectively manage the staffing function.
	Disciplinary Knowledge & Skills	3. Possess the knowledge and skills needed to effectively manage the compensation function.
	Disciplinary Knowledge & Skills	4. Possess the knowledge and skills needed to conduct effective training and development activities.
	Disciplinary Knowledge & Skills	5. Possess the knowledge and skills needed to effectively manage labor relations and employee safety and health.

Department & programs	University SLO category	Student Learning Outcomes
<b>Management (cont.)</b>		
<b>BAB – Management: Operations Management option</b>	Disciplinary Knowledge & Skills	1. Know the vocabulary of the operations management discipline.
	Disciplinary Knowledge & Skills	2. Explain key operations management concepts such as operations strategy, planning, scheduling, processes and their relationships.
	Disciplinary Knowledge & Skills	3. Apply operations management concepts to solve operations management problems such as problems related to planning, scheduling, the supply chain, and quality management.
	Multiple: Disciplinary Knowledge & Skills, Critical Thinking and Info/Technology Literacy	4. Calculate resource allocations using operations management tools and techniques and analyze performance using appropriate quantitative methods.
	Disciplinary Knowledge & Skills	5. Assess a company's resource needs based on weekly shifts in simulated operations performance.
<b>BAB – Marketing</b>	Disciplinary Knowledge & Skills	1. Analyze the impact of marketing environment on marketing strategy and performance.
	Disciplinary Knowledge & Skills	2. Explain and apply consumer behavior principles and their implications for marketing strategy and practice.
	Disciplinary Knowledge & Skills	3. Collect, analyze, interpret and report market data.
	Disciplinary Knowledge & Skills	4. Apply marketing principles to segment consumer groups and develop appropriate positioning strategies.
	Disciplinary Knowledge & Skills	5. Explain and apply the principles of managing the marketing mix as they relate to marketing planning and integrate these into a marketing plan.

Department & programs	University SLO category	Student Learning Outcomes
<b>MBA program</b>		
<i>Masters of Business Administration</i>	Multiple: Other, Global Awareness/Cultural Competency and Interpersonal Competencies	1. Develop and demonstrate leadership abilities including an understanding of the importance of diversity and interpersonal relationships in an organization.
	Critical Thinking	2. Analyze and formulate solutions to problems related to the environment in which organizations exist and function including information technology, legal, ethical, economic, social, political, and global aspects.
	Multiple: Info/Technology Literacy and Critical Thinking	3. Demonstrate the application of appropriate technical skills and/or quantitative analysis techniques in organizational settings.
	Communication Skills	4. Demonstrate competency in both written and oral communication skills.
	Disciplinary Knowledge & Skills	5. Understand and apply the principles of financial theory, analysis, reporting and markets to unfamiliar circumstances to create value.

Department & programs	University SLO category	Student Learning Outcomes
<b>Urban &amp; Regional Planning, Public Administration and Health Services Administration</b>		
<b>BA - Health Services Administration</b>	Communication Skills	1. Develop excellent oral and written communication skills.
	Disciplinary Knowledge & Skills	2. Apply strategies learned in the core curriculum during an internship.
	Disciplinary Knowledge & Skills	3. Articulate health services competencies gained in core curriculum classes.
<b>CERT - Health Services Administration</b>	Disciplinary Knowledge & Skills	1. Expand understanding of fiscal, legal and operational constraints and to identify opportunities for financing.
	Multiple: Communication Skills, Interpersonal Competencies and Critical Thinking	2. Enhance communication, interpersonal collaboration, leadership, strategic planning, change management, and critical thinking skills.
	Disciplinary Knowledge & Skills	3. Expand knowledge of future health care issues.
<b>BA - Urban &amp; Regional Planning</b>	Multiple: Disciplinary Knowledge & Skills and Ethics	1. Demonstrate skills needed to practice planning in a variety of venues in ways consistent with planning ethics.
	Disciplinary Knowledge & Skills	2. Understand human settlements as they relate to planning based on knowledge of the relevant concepts and theories.
	Disciplinary Knowledge & Skills	3. Understand historical and contemporary planning practice, policy and processes based on knowledge of the relevant concepts and theories.
	Ethics	4. Understand the different values and ethical standards affecting the practice of planning.
<b>MURP - Urban &amp; Regional Planning</b>	Multiple: Disciplinary Knowledge & Skills and Ethics	1. Demonstrate skills needed to practice planning in a variety of venues in ways consistent with planning ethics.
	Disciplinary Knowledge & Skills	2. Understand human settlements as they relate to planning based on knowledge of the relevant concepts and theories.
	Disciplinary Knowledge & Skills	3. Understand historical and contemporary planning practice, policy and processes based on knowledge of the relevant concepts and theories.
	Ethics	4. Understand the different values and ethical standards affecting the practice of planning.

Department & programs	University SLO category	Student Learning Outcomes
<b>Urban &amp; Regional Planning, Public Administration and Health Services Administration</b>		
<b><i>Masters in Public Administration</i></b>	Disciplinary Knowledge & Skills	1. Articulate how political, economic, social and legal contexts of public administration influence the management of public service programs.
	Disciplinary Knowledge & Skills	2. Manage human resources in ways that recognize the merit system and union related factors in public service organizations.
	Disciplinary Knowledge & Skills	3. Strategically approach budgeting and financial processes.
	Other	4. Develop professionally through reflective analysis of employment and educational experiences.
	Disciplinary Knowledge & Skills	5. Analyze the internal organizational environments of public service agencies.
	Communication Skills	6. Utilize oral and written communication skills effectively to inform, persuade and work with others.
<b><i>CERT - Public Administration</i></b>	Disciplinary Knowledge & Skills	1. Articulate how political, economic, social and legal contexts of public administration influence the management of public service programs.
	Disciplinary Knowledge & Skills	2. Manage human resources in ways that recognize the merit system and union related factors in public service organizations.
	Disciplinary Knowledge & Skills	3. Strategically approach budgeting and financial processes.
	Other	4. Develop professionally through reflective analysis of employment and educational experiences.
	Disciplinary Knowledge & Skills	5. Analyze the internal organizational environments of public service agencies.
	Communication Skills	6. Utilize oral and written communication skills effectively to inform, persuade and work with others.
<b><i>CERT - Public Management Development</i></b>	Disciplinary Knowledge & Skills	1. Articulate how political, economic, social and legal contexts of public administration influence the management of public service programs.
	Disciplinary Knowledge & Skills	2. Manage human resources in ways that recognize the merit system and union related factors in public service organizations.
	Disciplinary Knowledge & Skills	3. Strategically approach budgeting and financial processes.
	Other	4. Develop professionally through reflective analysis of employment and educational experiences.
	Disciplinary Knowledge & Skills	5. Analyze the internal organizational environments of public service agencies.
	Communication Skills	6. Utilize oral and written communication skills effectively to inform, persuade and work with others.

# College of Education and Human Development



Program and Certificate Student Learning Outcomes (2008-09 catalog & AIEA data portal)

Department & programs	University SLO category	Student Learning Outcomes
<b>CED Psyc</b>		
<i>BAE - Child Development (Elementary)</i>		<b>No student learning outcomes are listed in catalog.</b>
<i>BAE-Special Education (all options including Dual Endorsement)</i>	Disciplinary Knowledge & Skills	1. Demonstrate special education competencies by passing the WEST-E Praxis Exam.
	Disciplinary Knowledge & Skills	2. Apply special education knowledge and skills by passing special education field experiences.
<i>BS - Applied Developmental Psychology</i>	Disciplinary Knowledge & Skills	1. Complete 2 quarters of field work in a community setting that provides human service.
	Disciplinary Knowledge & Skills	2. Participate in a community service project as a group in CEDP 490 (Capstone in Developmental Psychology).
<i>MED - Special Education</i>	Critical Thinking	1. Complete a research project on a topic of interest in the field of special education and defend this project at the end of their program.
	Multiple: Disciplinary Knowledge & Skills and Global Awareness/Cultural Competency	2. Complete three quarters of practica and internship in public school classrooms involving students with special needs; thus, over 500 hours of experience with diverse populations will be achieved.
<i>MS - Mental Health Counseling</i>	Disciplinary Knowledge & Skills	1. Assess community needs, design, implement and evaluate mental health programs and systems.
	Disciplinary Knowledge & Skills	2. Provide accurate assessment, diagnosis (where appropriate) and treatment planning for a diverse client population.
	Ethics	3. Describe the ethical and legal considerations that govern the practice of mental health counseling.
<i>MS - School Counseling</i>	Disciplinary Knowledge & Skills	1. Utilize the American School Counseling Association's National Model (a framework for school counseling programs) to develop an individual school's comprehensive program.
	Disciplinary Knowledge & Skills	2. Describe and apply the counseling theories and techniques that have proven to be the most applicable to the K-12 school population.
	Ethics	3. Describe and utilize the laws and ethics that govern the school counseling profession.
<i>MS - School Psychology</i>		<b>Refer to SLO information for program under Department of Psychology.</b>
<i>CERT - School Psychology</i>		<b>Refer to SLO information for certificate under Department of Psychology.</b>

Department & programs	University SLO category	Student Learning Outcomes
<b>Education</b>		
<b>BAE - Reading (Elementary &amp; Secondary)</b>	Disciplinary Knowledge & Skills	1. Demonstrate professional leadership in the field.
	Communication Skills	2. Demonstrate excellent communication skills necessary to communicate effectively with all constituencies, including students, colleagues, parents and community.
	Disciplinary Knowledge & Skills	3. Design and implement curriculum based on standards, knowledge, skills and professional dispositions from the Department of Education, state of Washington Office of Superintendent of Public Instruction (OSPI) standards and certification requirements, National Council for Teacher Accreditation (NCATE) and other applicable professional standards.
	Multiple: Disciplinary Knowledge & Skills, Critical Thinking and Global Awareness/Cultural Competency	4. Demonstrate effective practice in the implementation of learning activities which include: knowledge of content area; problem solving; use of technology; opportunity for student choice; motivation; collaboration and respect for diversity in a student-centered learning environment.
<b>MED – shared by all programs</b>	Multiple: Disciplinary Knowledge & Skills, Critical Thinking and Global Awareness/Cultural Competency	1. Demonstrate effective practice in the implementation of learning activities that include: knowledge of content area; problem solving; use of technology; opportunity for student choice; motivation; collaboration and respect for diversity in a student centered learning environment.
	Disciplinary Knowledge & Skills	2. Demonstrate professional leadership in the field.
	Disciplinary Knowledge & Skills	3. Design and implement curriculum based on standards, knowledge, skills and professional dispositions from the Department of Education, state of Washington Office of Superintendent of Public Instruction (OSPI) standards and certification requirements, National Council for Teacher Accreditation (NCATE) and other applicable professional standards.
	Communication Skills	4. Demonstrate excellent communication skills necessary to communicate effectively with all constituencies, including students, colleagues, parents and community.
<b>MED - Adult Education</b>	Multiple: Disciplinary Knowledge & Skills and Communication Skills	1. Demonstrate instructional and communication competence and skills necessary to work with adults in educational settings.
<b>MED - Curriculum &amp; Instruction</b>	Disciplinary Knowledge & Skills	1. Demonstrate advanced research based knowledge and skills in curriculum and instruction in an selected area of emphasis including but not limited to early childhood education, elementary teaching, science education, social science education, at risk learners, middle school or gifted education.
<b>MED - Educational Leadership</b>	Disciplinary Knowledge & Skills	1. Demonstrate principles, knowledge and skills and best practices in leadership and management based upon Interstate School Leaders Licensure Consortium Standards, SPI school principal, certificate requirements and competency in State Board of Education standards required for appropriate certification.
<b>MED - Foundations of Education</b>	Disciplinary Knowledge & Skills	1. Demonstrate in-depth knowledge and a comprehensive understanding of education in terms of its history, philosophy and organization through literature, research and other focus courses of investigation.

Department & programs	University SLO category	Student Learning Outcomes
<b>Education (cont.)</b>		
<i><b>MED - Instructional Media and Technology</b></i>	Disciplinary Knowledge & Skills	1. Demonstrate professional expertise and leadership in the field to facilitate learning in efficient ways.
<i><b>MED - Literacy</b></i>	Disciplinary Knowledge & Skills	1. Demonstrate knowledge of the role of literacy in K-12 classrooms and also provide evidence of their understanding of research and accompanying strategies for teaching and empowering literacy in K-12 educational settings.
<i><b>MED - MIT: Secondary Teaching</b></i>	Disciplinary Knowledge & Skills	1. Demonstrate required WAC knowledge and skills and meet all SPI and EWU Department of Education professional education program requirements including a year-long internship in K-12 schools which are necessary to qualify for a residency teaching certificate in middle school, junior high and high school.
<i><b>MED - MIT: Teaching K-8</b></i>	Disciplinary Knowledge & Skills	1. Demonstrate required WAC knowledge and skills and meet all SPI and EWU Department of Education professional education program requirements including a year-long internship in K-8 schools which are necessary to qualify for a residency teaching certificate in teaching in elementary grades.

Department & programs	University SLO category	Student Learning Outcomes
<b>Physical Education, Health &amp; Recreation</b>		
<b>BA - Outdoor Recreation</b>	Communication Skills	1. Demonstrate effective oral and written communication skills.
	Critical Thinking	2. Demonstrate knowledge of and skill at research, problem solving, and critical thinking.
	Info/Technology Literacy	3. Demonstrate a working knowledge of technology and its various uses in the recreation and leisure services industry.
	Disciplinary Knowledge & Skills	4. Demonstrate an understanding of the history, breadth, depth, and complexity of the recreation and leisure services industry.
	Diversity	5. Demonstrate an awareness of diversity, equity, inclusion, and will demonstrate multi-cultural competence in recreation and leisure service delivery settings.
	Other	6. Demonstrate a working knowledge of the career and entrepreneurship opportunities available upon graduation.
<b>BA - Recreation Management</b>	Communication Skills	1. Demonstrate effective oral and written communication skills.
	Critical Thinking	2. Demonstrate knowledge of and skill at research, problem solving, and critical thinking.
	Info/Technology Literacy	3. Demonstrate a working knowledge of technology and its various uses in the recreation and leisure services industry.
	Disciplinary Knowledge & Skills	4. Demonstrate an understanding of the history, breadth, depth, and complexity of the recreation and leisure services industry.
	Diversity	5. Demonstrate an awareness of diversity, equity, inclusion, and will demonstrate multi-cultural competence in recreation and leisure service delivery settings.
	Other	6. Demonstrate a working knowledge of the career and entrepreneurship opportunities available upon graduation.
<b>BA - Therapeutic Recreation</b>	Communication Skills	1. Demonstrate effective oral and written communication skills.
	Critical Thinking	2. Demonstrate knowledge of and skill at research, problem solving, and critical thinking.
	Info/Technology Literacy	3. Demonstrate a working knowledge of technology and its various uses in the recreation and leisure services industry.
	Disciplinary Knowledge & Skills	4. Demonstrate an understanding of the history, breadth, depth, and complexity of the recreation and leisure services industry.
	Diversity	5. Demonstrate an awareness of diversity, equity, inclusion, and will demonstrate multi-cultural competence in recreation and leisure service delivery settings.
	Other	6. Demonstrate a working knowledge of the career and entrepreneurship opportunities available upon graduation.

Department & programs	University SLO category	Student Learning Outcomes
<b>PEHR (cont.)</b>		
<b>BAE - Health &amp; Fitness (Elementary and Secondary options)</b>	Disciplinary Knowledge & Skills	1. Understand health/physical education content and disciplinary concepts related to the development of a healthy/physically educated person.
	Disciplinary Knowledge & Skills	2. Understand how individuals learn and develop, and provide opportunities that support physical, cognitive, social and emotional development.
	Disciplinary Knowledge & Skills	3. Understand how individuals differ in their approaches to learning and create appropriate instruction adapted to these differences.
	Disciplinary Knowledge & Skills	4. Use and have an understanding of individual and group motivation and behavior to create a safe learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.
	Communication Skills	5. Use knowledge of effective verbal, nonverbal, and media communication techniques to enhance learning and engagement.
	Disciplinary Knowledge & Skills	6. Understand the importance of planning developmentally appropriate instructional units to foster the development of a healthy/physically educated person.
<b>BS - Athletic Training</b>	Other	1. Gain an understanding and demonstrate experience in being good citizens both in the community and in their professional organization.
	Disciplinary Knowledge & Skills	2. Gain clinical experiences in a variety of service learning settings that will allow them to be prepared to work in the diverse opportunities found within the field of Athletic Training.
	Disciplinary Knowledge & Skills	3. Gain the basic knowledge, understanding and skills needed to work competently as an entry level Certified Athletic Trainer.
<b>BS - Community Health</b>	Disciplinary Knowledge & Skills	1. Participate in an internship in which they will gain practical real world experience within the field.
	Disciplinary Knowledge & Skills	2. Understand what factors are involved in adopting healthy behaviors and how to effectively facilitate change.
	Disciplinary Knowledge & Skills	3. Conduct health assessments and design health promotion programs.
<b>BS - Exercise Science</b>	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	1. Demonstrate competency in foundational skills of reading, writing, arithmetic, speaking and listening and thinking skills demonstrating the ability to learn, to reason, to think creatively, to make decisions and to solve problems.
	Disciplinary Knowledge & Skills	2. Be prepared for appropriate certification exams in the industry.
	Disciplinary Knowledge & Skills	3. Demonstrate competency in fitness testing of the relatively healthy population in all components of fitness-cardiovascular, muscle strength, endurance, flexibility and body composition.

Department & programs	University SLO category	Student Learning Outcomes
<b>PEHR (cont.)</b>		
<b>CERT - Challenge Course Management &amp; Leadership</b>	Disciplinary Knowledge & Skills	1. Understand experiential education and challenge course history, philosophy and foundational concepts and be able to convey those concepts to other practitioners.
	Disciplinary Knowledge & Skills	2. Be able to model and teach appropriate facilitation skills for group ground initiatives, low and high elements including sequencing, setting participant expectations, teaching appropriate spotting skills, and managing the activity.
	Disciplinary Knowledge & Skills	3. Exhibit an understanding of using group ground initiatives, low and high elements with varied populations including educational, military, adaptive, therapeutic, cultural and business settings.
	Disciplinary Knowledge & Skills	4. Be able to model and teach a variety of debriefing techniques and tools to aid in effective group processing.
	Disciplinary Knowledge & Skills	5. Learn technical skills for low and high elements including equipment use, retrieval and maintenance, various belay techniques, systems and transfers, course set-up, breakdown and inspection, rescue, knot typing and leading edge climbing skills.
	Disciplinary Knowledge & Skills	6. Learn to assess and manage all aspects of challenge course operations including standard operating procedures, equipment maintenance and inspection, practitioner training, personnel management, risk and emergency management, program planning and design, and challenge course policies and procedures.
<b>MS - Physical Education (all options)</b>	Multiple: Critical Thinking and Disciplinary Knowledge & Skills	1. Investigate ideas and complete professional tasks as a member of a team.
	Other	2. Demonstrate familiarity with the scholarly publications, primary written works, professional organizations and certification/licensure requirements of their specialization.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	3. Discuss advanced topics in their area of specialization with an appropriate level of knowledge and application of critical thinking.
	Critical Thinking	4. Design, conduct and report scholarly work.

# College of Social and Behavioral Sciences



Program and Certificate Student Learning Outcomes (2008-09 catalog & AIEA data portal)

Department & programs	University SLO category	Student Learning Outcomes
<b>Anthropology &amp; Geography</b>		
<i>BA - Anthropology</i>	Disciplinary Knowledge & Skills	1. Demonstrate basic knowledge of the four anthropological sub-disciplines: cultural anthropology, archaeology, linguistic anthropology, and physical anthropology.
	Disciplinary Knowledge & Skills	2. Demonstrate basic knowledge of the history of anthropology.
	Disciplinary Knowledge & Skills	3. Demonstrate basic knowledge of anthropological theory.
	Critical Thinking	4. Demonstrate critical reasoning required to use the knowledge of anthropology s/he has learned.
	Communication Skills	5. Demonstrate communication skills required to use the knowledge of anthropology s/he has learned.
<i>BA - Geography</i>	Critical Thinking	1. Demonstrate proficiency in interpreting existing and creating new maps, in both paper and digital formats.
	Global Awareness/Cultural Competency	2. Demonstrate awareness of the diversity of cultural and natural landscapes on a global scale.
	Disciplinary Knowledge & Skills	3. Demonstrate basic knowledge of the content and history of geography's main sub-disciplines, including physical, human, regional and cartographic techniques.
	Critical Thinking	4. Apply basic research methodologies and field techniques to geographic research.
	Multiple: Communication Skills & Critical Thinking	5. Demonstrate communication skills and critical thinking abilities required to interpret and express geographic information in clear written form.
<i>CERT -Geographic Information Systems</i>	Disciplinary Knowledge & Skills	1. Demonstrate mastery of foundational concepts of geographic information science.
	Disciplinary Knowledge & Skills	2. Demonstrate mastery of foundational concepts of social context of geographic information.
	Critical Thinking	3. Have the ability to critically evaluate quality and accuracy of spatial data.
	Info/Technology Literacy	4. Show demonstrated proficiency with GIS software.
	Communication Skills	5. Have the ability to communicate geographic information through well-designed maps.
	Other	6. Have the ability to work in teams.
<i>CERT - Wetlands Science and Management</i>	Disciplinary Knowledge & Skills	1. Mastery of foundational concepts of wetlands science.
	Disciplinary Knowledge & Skills	2. Mastery of foundational concepts of the social context of wetlands
	Disciplinary Knowledge & Skills	3. Ability to identify and analyze wetlands landscapes in a field work setting.
	Communication Skills	4. Ability to communicate information about wetlands in written, oral and mapped forms.
	Other	5. Ability to work in teams.

Department & programs	University SLO category	Student Learning Outcomes
<b>Children's Studies</b>		
<i>BA - Children's Studies (all options)</i>	Communication Skills	1. Demonstrate excellent communication skills necessary to communicate effectively with all constituencies, including students, colleagues, parents and community.
	Disciplinary Knowledge & Skills	2. Demonstrate effective practice in the implementation of learning activities which include: knowledge of content area, problem solving, use of technology, opportunity for student choice, motivation, collaboration and respect for diversity in a student-centered learning environment.
	Other	3. Demonstrate professional leadership in the field.
	Disciplinary Knowledge & Skills	4. Design and implement curriculum based on standards, knowledge, skills and professional dispositions from the Department of Education, State of Washington Office of Superintendent of Public Instruction (OSPI) stands and certification requirements, National Council for Teacher Accreditation (NCATE) and other applicable professional standards.
<i>BAE - Children's Studies</i>	Other	1. Demonstrate professional leadership in the field.
	Communication Skills	2. Demonstrate excellent communication skills necessary to communicate effectively with all constituencies, including students, colleagues, parents and community.
	Disciplinary Knowledge & Skills	3. Design and implement curriculum based on standards, knowledge, skills and professional dispositions from the Department of Education, State of Washington Office of Superintendent of Public Instruction (OSPI) stands and certification requirements, National Council for Teacher Accreditation (NCATE) and other applicable professional standards.
	Disciplinary Knowledge & Skills	4. Demonstrate effective practice in the implementation of learning activities which include: knowledge of content area, problem solving, use of technology, opportunity for student choice, motivation, collaboration and respect for diversity in a student centered learning environment.

Department & programs	University SLO category	Student Learning Outcomes
<b>Communication Studies</b>		
<b>BA - Communication Studies (all options)</b>	Multiple: Communication Skills & Info/Technology Literacy	1. Demonstrate an understanding of communications combined with skills in using contemporary technologies.
	Multiple: Communication Skills & Info/Technology Literacy	2. Present material in written, oral and multi-media formats.
	Other	3. Participate in community activities such as debate, internships or others that demonstrate applications of communications study and training.
	Global Awareness/Cultural Competency	4. Analyze the relationship between politics, economics, experience and communications media in international settings and will understand intercultural bases for communications.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	5. Understand major theoretical positions and implications central to the discipline. Additionally, students will demonstrate competencies in at least 2 research methodologies.
<b>CERT - Leadership</b>		<b>No Student Learning Outcomes are listed in catalog.</b>
<b>MS - Communications</b>	Disciplinary Knowledge & Skills	1. Deploy various written, oral and electronic media in creating and presenting original work.
	Global Awareness/Cultural Competency	2. Analyze various cultural products through the application of contemporary communications theories and methods.

Department & programs	University SLO category	Student Learning Outcomes
<b>Economics</b>		
<b><i>BA - Economics (all options)</i></b>	Disciplinary Knowledge & Skills	1. Use supply and demand modeling to predict and/or explain some economic event.
	Critical Thinking	2. Use quantitative skills to analyze economic data.
	Disciplinary Knowledge & Skills	3. Understand the use of fiscal and monetary policies in addressing contemporary macroeconomic issues.
	Disciplinary Knowledge & Skills	4. Understand and apply the Cost/Benefit Principle to a current socio-economic issue.

Department & programs	University SLO category	Student Learning Outcomes
<b>Government</b>		
<b>BA - Government (all options)</b>	Disciplinary Knowledge & Skills	1. Demonstrate basic knowledge, skills and values related to various forms and structure in governments and relate those specifics to political and policy outcomes as necessary for responsible and active participation as both national and international citizens.
	Multiple: Critical Thinking and Info/Technology Literacy	2. Effectively apply critical thinking and problem solving skills to political issues and should be able to utilize normative and empirical analysis tools in the study of national and international political realities.
	Disciplinary Knowledge & Skills	3. Be able to apply an understanding of foundational and enduring political thought and ideas throughout history to questions of politics and policy at the national and international levels.
	Global Awareness/Cultural Competency	4. Demonstrate an awareness of the role played by race, ethnicity, gender and religion in historic and contemporary political debates and an awareness of effects of multiculturalism and diversity on domestic and international affairs.
	Communication Skills	5. Possess effective communication skills including the verbal and writing skills needed to communicate clearly and effectively, make persuasive, professional presentations and convey information essential to the discipline and beyond in an orderly and understandable manner.
	Critical Thinking	6. Demonstrate analytical and conceptual skills, reading skills, critical thinking and problem solving skills and be able to effectively apply those skill sets to political issues.
<b>CERT - Asian Studies</b>	Disciplinary Knowledge & Skills	1. Demonstrate awareness of historical, social, cultural, geographic, and political dynamics in Asia and Asian countries.
	Critical Thinking	2. Apply normative and empirical tools to the study of Asian political, cultural and governmental realities, both past and present.
	Disciplinary Knowledge & Skills	3. Apply knowledge of Asian history to interpret current political, social and cultural dynamics in Asia and in comparison to other world regions.
	Communication Skills	4. Acquire basic communication skills in at least one Asian language.
	Disciplinary Knowledge & Skills	5. Attain advanced understanding of Asia sufficient to enter graduate studies concerning the region, or a career track wherein expertise in Asia is necessary.
<b>CERT - Public Policy and Administration</b>	Disciplinary Knowledge & Skills	1. Acquire an understanding of the institutional, political, legal and economic processes of the United States.
	Disciplinary Knowledge & Skills	2. Acquire an understanding of the public policies of the U.S. and the ways in which they are created by and carried out through political and economic processes.
	Multiple: Critical Thinking & Communication Skills	3. Demonstrate an ability to analyze political and economic phenomena through oral and written communication skills in public presentations, written reports and documents.

Department & programs	University SLO category	Student Learning Outcomes
<b>Government (cont.)</b>		
<i>BA - International Affairs</i>	Critical Thinking	1. Apply social science research methods to at least one non-U.S. case study.
	Critical Thinking	2. Demonstrate analytical and conceptual skills, reading skills, critical thinking and problem solving skills and be able to effectively apply those skill sets to political issues.
	Disciplinary Content	3. Identify and represent accurately the key ideas, people, historical events, social processes and governmental systems associated with various geographic regions around the world.
	Multiple: Critical Thinking	4. Apply critical thinking and problem solving skills to political issues and should utilize normative and empirical analysis tools in the study of national and international political realities.
	Global Awareness/Cultural Competency	5. Demonstrate awareness of racial, ethnic, gender and religious dynamics in historic and contemporary political questions.
	Disciplinary Content	6. Demonstrate mastery of and apply accurately key analytic concepts of the social sciences, to cases, states, and regions around the world.

Department & programs	University SLO category	Student Learning Outcomes
<b>History</b>		
<b>BA – History (w/ or w/o minor)</b>	Multiple: Critical Thinking and Info/Technology Literacy	1. Display an ability to do original research in library, archival and electronic resources.
	Communication Skills	2. Develop writing proficiency on historical topics.
	Critical Thinking	3. Analyze and interpret a wide spectrum of historical source materials.
	Disciplinary Knowledge & Skills	4. Demonstrate knowledge about a wide variety of historical issues, themes, events and persons.
	Other	5. Articulate how their historical training can be applied in various careers.
	Global Awareness/Cultural Competency	6. Display an appreciation for the culturally diverse nature of human beings from a historical perspective.
<b>CERT - Latin and Iberian Studies</b>	Disciplinary Knowledge & Skills	1. Demonstrate awareness of the historical, social, cultural, geographic, and political dynamics of the Latin American and Iberian countries (Latin America, Spain, and Portugal).
	Critical Thinking	2. Apply normative and empirical tools to the study of Latin American and Iberian political, cultural and governmental realities, both past and present.
	Disciplinary Knowledge & Skills	3. Apply knowledge of Latin American and Iberian history to interpret current political, social and cultural dynamics in Latin American and Iberia (Spain and Portugal) and in comparison to other world regions.
	Communication Skills	4. Acquire basic communication skills in Spanish, French, or Portuguese.
	Disciplinary Knowledge & Skills	5. Attain advanced understanding of Latin America and Iberia sufficient to enter graduate studies concerning the region, or a career track wherein expertise in Latin America, Spain and/or Portugal is necessary.
<b>MA - History</b>	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	1. Understand historical studies, including historical methodology and selected aspects of modern historiography.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	2. Demonstrate factual and bibliographic mastery and the ability to interpret institutional and cultural change in two historical fields.
	Multiple: Info/Technology Literacy & Communication Skills	3. Conduct effective library research and write a major graduate research paper.
	Critical Thinking	4. Think critically about historical information and historical problems.

Department & programs	University SLO category	Student Learning Outcomes
<b>History</b>		
<i>BAE - Social Studies (Elementary/Secondary)</i>	Disciplinary Knowledge & Skills	1. Understand chronology and cause-and-effect relationships in U.S., world and Washington state history.
	Disciplinary Knowledge & Skills	2. Understand the core principles of U.S. democracy and understand the rights and responsibilities of citizenship.
	Disciplinary Knowledge & Skills	3. Understand major developments, eras and turning points in U.S., world and Washington state history.
	Communication Skills	4. Explain the spatial arrangements of people, places and environments using maps, charts and other tools.
	Critical Thinking	5. Use sources of information such as historical documents and artifacts to investigate and understand historic occurrences.
	Disciplinary Knowledge & Skills	6. Understand monetary systems, consequences of economic choices and influence of government policies upon the economy.

Department & programs	University SLO category	Student Learning Outcomes
<b>Interdisciplinary Studies</b>		
<b>BA - Interdisciplinary Studies (all options)</b>	Communication Skills	1. Possess the essential verbal and written communications skill to write and speak effectively in varied career environments.
	Critical Thinking	2. Exercise critical thinking in order to adequately problem solve in any venue.
	Info/technology Literacy	3. Be technologically literate to adapt to ever changing software programs.
	Critical Thinking	4. Acquire research skills necessary for post baccalaureate educational endeavors.
	Global Awareness/Cultural Competency	5. Be informed on contemporary global issues and how they affect their lives.
	Other	6. Be prepared for career success, mobility and adaptability.

Department & programs	University SLO category	Student Learning Outcomes
<b>Military Science</b>		
<i>BA - Military Science</i>	Disciplinary Knowledge & Skills	1. Know and apply basic individual and unit military skills and leadership while functioning in a tactical environment as a member of a squad or platoon.
	Disciplinary Knowledge & Skills	2. Know and apply time management skills and troop leading procedures to develop and articulate a complete five paragraph Operations Order.
	Disciplinary Knowledge & Skills	3. Know and apply a basic understanding of Army operations, training management, safety, risk management, counseling and communications as a member of the Cadet Battalion Chain-of-Command.
	Critical Thinking	4. Critically analyze the current Operational Environment in which our Armed Forces are deployed to better prepared to be a Platoon Leader.

Department & programs	University SLO category	Student Learning Outcomes
<b>Psychology</b>		
<b>BA - Psychology</b>	Disciplinary Knowledge & Skills	1. Develop conceptual frameworks that embrace information representing the breadth and depth of the discipline and profession of psychology.
	Critical Thinking	2. Develop basic skills in learning, critical thinking and reasoning.
	Other	3. Expand and pursue curiosity about human behavior and experience.
	Critical Thinking	4. Engage in critical thinking about human behavior and experience, think carefully about issues before coming to conclusions and recognize that many problems have more than one solution.
	Disciplinary Knowledge & Skills	5. Recognize well-founded theories, research designs, psychological phenomena and conclusions.
	Global Awareness/Cultural Competency	6. Think critically about self and have awareness of similarities and differences with others, such as differences in gender, race, ethnicity, culture and class.
<b>MS - Psychology (Clinical &amp; Exp. Options)</b>	Multiple: Disciplinary Knowledge & Skills and Communication Skills	1. Comprehend the discourse of psychology and communicate using the conventions of the discipline.
	Disciplinary Knowledge & Skills	2. Be familiar with the historical context in which important theories in psychology were developed.
	Multiple: Disciplinary Knowledge & Skills and Communication Skills	3. Develop expertise in the broad science of psychology, including advanced knowledge in research methods, statistics, biological psychology, history and systems of psychology and human learning.
	Critical Thinking	4. Pose research questions and devise research strategies to answer them, including the use of quantitative methods.
	Multiple: Info/Technology, Communication Skills and Ethics	5. Gather information from many sources and present persuasive arguments, learn the primary ethical principles of psychologists and recognize basic ethical issues and violations and be guided accordingly.
<b>MS - School Psychology</b>	Disciplinary Knowledge & Skills	1. Know the laws and procedures governing school psychology practice, know general principles of measurement, have skill in the precise administration of specific measurement instruments, and understand educational systems and the role of the school psychologist within these systems.
	Critical Thinking	2. Understand a problem-solving model and use the model effectively to gather information for the purpose of making decisions in a multi-dimensional matrix that includes the individual student and the student's interactions with environments that establish and maintain academic and social behaviors.

Department & programs	University SLO category	Student Learning Outcomes
<b>Psychology (cont.)</b>		
<b><i>CERT - School Psychology</i></b>	Disciplinary Knowledge & Skills	1. Be competent in applying knowledge and skills of school psychological practices.
	Disciplinary Knowledge & Skills	2. Be competent in applying specific areas of knowledge of the field, such as assessment and diagnosis, behavioral intervention, counseling and interviewing, program development, consultation and program evaluation and school-based research.
	Disciplinary Knowledge & Skills	3. Become proficient in understanding special education legal and procedural processes utilized in schools.
	Diversity	4. Be competent in serving diverse populations within the school, home and community.
	Ethics	5. Be competent in applying knowledge and skill consistent with professional ethical practices and in accordance with National Association of School Psychology (NASP) and American Psychological Association (APA) professional codes of conduct.

Department & programs	University SLO category	Student Learning Outcomes
<b>Sociology &amp; Justice Studies</b>		
<i>BA - Criminal Justice</i>	Critical Thinking	1. Be able to understand and apply various methodological and theoretical approaches for conducting research and evaluation with regard to criminal justice practices and policies.
	Critical Thinking	2. Be able to engage in critical inquiry of criminal justice institutions, practices and policies which explores their benefits and consequences for social justice and equity.
	Disciplinary Knowledge & Skills	3. Demonstrate mastery of theories of criminology and deviance, a strong understanding of the correlates of crime and be able to make clear links between theoretical and applied contexts.
	Disciplinary Knowledge & Skills	4. Demonstrate an awareness of the systems, processes and relationships between components which comprise the criminal justice system (Courts/Law, Law Enforcement and Corrections).
<i>BA - Sociology</i>	Disciplinary Knowledge & Skills	1. Demonstrate an understanding of the relationship between critical inquiry and social justice.
	Critical Thinking	2. Understand and apply various methodologies and theoretical approaches for conducting research.

Department & programs	University SLO category	Student Learning Outcomes
<b>Women's &amp; Gender Studies</b>		
<b>BA - Women's &amp; Gender Studies</b>	Disciplinary Knowledge & Skills	1. Demonstrate knowledge of women's individual and collective cultural contributions.
	Disciplinary Knowledge & Skills	2. Analyze connections among societal structures such as gender, race, class, age and sexuality that contribute to women's oppressions.
	Disciplinary Knowledge & Skills	3. Analyze the role of language in producing and perpetuating cultural attitudes.
	Disciplinary Knowledge & Skills	4. Demonstrate familiarity with the multiplicity of views within feminist scholarship.
	Global Awareness/Cultural Competency	5. Demonstrate knowledge of global perspectives on gender and/or women's issues.
	Disciplinary Knowledge & Skills	6. Demonstrate knowledge of historical perspectives on feminist thought and feminism as a movement.
<b>CERT - Gender Studies</b>	Disciplinary Knowledge & Skills	1. Convey knowledge of historical perspectives on feminist thought and feminism as a movement.
	Disciplinary Knowledge & Skills	2. Analyze connections among societal structures such as gender, race, class, age and sexuality that contribute to women's oppressions.
	Disciplinary Knowledge & Skills	3. Analyze the role of language in producing and perpetuating cultural attitudes.
	Other	4. Apply their theoretical knowledge through an internship or experiential learning.

# College of Science, Health and Engineering



Program and Certificate Student Learning Outcomes (2008-09 catalog & AIEA data portal)

Department & programs	University SLO category	Student Learning Outcomes
<b>Biology</b>		
<b>BAE-Natural Science (Elementary)</b>	Disciplinary Knowledge & Skills	1. Understand the process of science.
	Disciplinary Knowledge & Skills	2. Understand how energy and matter flow through physical life and earth systems.
	Disciplinary Knowledge & Skills	3. Understand the evolution of natural systems and factors that result in evolution or equilibrium.
	Disciplinary Knowledge & Skills	4. Understand how systems are organized.
	Critical Thinking	5. Understand the process of learning science through inquiry.
<b>BAE-Biology (Secondary)</b>	Global Awareness/Cultural Competency	1. Create a community of diverse learners who construct meaning from their science experiences and possess a disposition for further exploration and learning.
	Disciplinary Knowledge & Skills	2. Organize a safe and effective learning environment.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	3. Interrelate and interpret important concepts, ideas and applications in the field of biology; and conduct scientific investigations.
	Disciplinary Knowledge & Skills	4. Develop strategies for teaching that organic evolution is a unifying theme.
	Disciplinary Knowledge & Skills	5. Construct and use effective strategies to determine the backgrounds and achievements of learners and facilitate their intellectual, social and personal development.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	6. Engage students both in studies of various methods of scientific inquiry and in active learning through scientific inquiry.
	Disciplinary Knowledge & Skills	7. Engage students effectively in the study of the history, philosophy, and practice of biology.
	Disciplinary Knowledge & Skills	8. Plan and implement an active, coherent, and effective curriculum that is consistent with the goals and recommendations of the national and state learning standards.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	9. Engage students successfully in the analysis of problems, including consideration of risks, costs, and benefits of alternative solutions; relating these to the knowledge, goals and values of the students.
<b>BS - Biology (all options)</b>	Disciplinary Knowledge & Skills	1. Expand and deepen their knowledge of biology and integrate that knowledge in their specialization
	Critical Thinking	2. Become informed, critical thinking scientists who can design, execute and communicate original research in the field of biology.
	Communication Skills	3. Become proficient in oral communication about biology in general and their research area in particular.

Department & programs	University SLO category	Student Learning Outcomes
<b>Biology (cont.)</b>		
<i>MS - Biology</i>	Disciplinary Knowledge & Skills	1. Become proficient in oral communication about biology in general and their research area in particular.
	Critical Thinking	2. Be informed, critically thinking scientists who can design, execute and communicate original research in the field of biology.
	Disciplinary Knowledge & Skills	3. Expand and deepen their knowledge of biology and integrate that knowledge in their specialization.

Department & programs	University SLO category	Student Learning Outcomes
<b>Chemistry &amp; Biochemistry</b>		
<b>BA - Chemistry &amp; Biochemistry (all options)</b>	Disciplinary Knowledge & Skills	1. Demonstrate a knowledge of major concepts in the areas of inorganic, organic, analytical, and physical chemistry.
	Disciplinary Knowledge & Skills	2. Demonstrate sufficient preparation in chemistry to successfully compete in a science-related career.
	Multiple: Disciplinary Knowledge & Skills and Info/Technology Literacy	3. Demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and/or separation of chemicals and an ability to interpret data.
	Multiple: Communication Skills and Critical Thinking	4. Demonstrate effective oral and communication skills and critical thinking skills as related to the field of chemistry.
	Disciplinary Knowledge & Skills	5. Demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.
<b>BAE - Chemistry &amp; Biochemistry (Secondary)</b>	Disciplinary Knowledge & Skills	1. Demonstrate a knowledge of major concepts in the areas of inorganic, organic, analytical, and physical chemistry.
	Disciplinary Knowledge & Skills	2. Demonstrate knowledge and skills sufficient for them to safely teach chemistry in the secondary school setting.
	Multiple: Disciplinary Knowledge & Skills, Info/Technology Literacy and Critical Thinking	3. Demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and/or separation of chemicals, and an ability to interpret data.
	Multiple: Communication Skills and Critical Thinking	4. Demonstrate effective oral and written communication skills and critical thinking skills as related to the field of chemistry.
	Disciplinary Knowledge & Skills	5. Demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.
<b>BS - Chemistry &amp; Biochemistry (all options)</b>	Disciplinary Knowledge & Skills	1. Demonstrate a knowledge of major concepts in the areas of inorganic, organic, analytical, and physical chemistry.
	Disciplinary Knowledge & Skills	2. Demonstrate sufficient preparation in chemistry to successfully compete in a graduate or professional program or to realize employment in a chemistry- or biochemistry-related career.
	Multiple: Disciplinary Knowledge & Skills, Info/Technology Literacy and Critical Thinking	3. Demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and/or separation of chemicals, and an ability to interpret data.
	Multiple: Communication Skills and Critical Thinking	4. Demonstrate effective oral and written communication skills and critical thinking skills as related to the field of chemistry.
	Disciplinary Knowledge & Skills	5. Demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.

Department & programs	University SLO category	Student Learning Outcomes
<b>Communication Disorders</b>		
<b>BA - Communication Disorders</b>	Disciplinary Knowledge & Skills	1. Know the processes for assessment and intervention of disorders of hearing, speech, language, and swallowing.
	Disciplinary Knowledge & Skills	2. Know the causes, characteristics, and consequences of the disorders of hearing, speech, language, and swallowing.
	Disciplinary Knowledge & Skills	3. Understand the content and sequence of the development of speech and language.
	Disciplinary Knowledge & Skills	4. Know the anatomical, physiological, and psychological properties involved in the normal communication processes of hearing, speech, language, and swallowing.
	Disciplinary Knowledge & Skills	5. Demonstrate knowledge of the physics of sound and the measurement of its dimensions, and be able to apply basic principles of acoustics to human hearing and speech.
	Other	6. Gain an appreciation and insight into the communication disorders profession by participating in service learning opportunities.
<b>MS - Communication Disorders</b>	Critical Thinking	1. Be intelligent consumers of research in the discipline of communication disorders.
	Info/Technology Literacy	2. Use the products of technology in both scholarship and clinical applications.
	Communication Skills	3. Write and speak clearly and effectively.
	Info/Technology Literacy	4. Understand and be able to evaluate and utilize new information in the discipline of communication disorders.
	Disciplinary Knowledge & Skills	5. Know and be able to discuss and evaluate the principles, processes, and procedures for the prevention, identification, evaluation, intervention, and management of communication disorders.
	Ethics	6. Know and adhere to the Code of Ethics of the American Speech-Language-Hearing Association.

Department & programs	University SLO category	Student Learning Outcomes
<b>Computer Science</b>		
<b>BA - Computer Science (all options)</b>	Other	1. Have the ability to function effectively on teams to accomplish a common goal.
	Disciplinary Knowledge & Skills	2. Have the ability to analyze a problem and identify and define the computing requirements appropriate to its solution.
	Other	3. Recognize the need for and have the ability to engage in continuing professional development.
	Disciplinary Knowledge & Skills	4. Have the ability to design, implement and evaluate a computer-based system, process, component or program to meet desired needs.
	Communication Skills	5. Have the ability to communicate effectively with a range of audiences.
	Disciplinary Knowledge & Skills	6. Have the ability to use current techniques, skills and tools necessary for computing practice.
	Global Awareness/Cultural Competency	7. Have the ability to analyze the local and global impact of computing on individuals, organizations, and society.
	Disciplinary Knowledge & Skills	8. Have the ability to apply knowledge of computing and mathematics appropriate to the discipline.
<b>BS - Computer Information Systems</b>	Ethics	9. Have an understanding of professional, ethical, legal, security, and social issues and responsibilities.
	Other	1. Recognize the need for and will have the ability to engage in continuing professional development.
	Disciplinary Knowledge & Skills	2. Have the ability to apply knowledge of computing and mathematics appropriate to the discipline.
	Ethics	3. Have an understanding of professional, ethical, legal, security and social issues and responsibilities.
	Communication Skills	4. Have the ability to communicate effectively with a range of audiences.
	Disciplinary Knowledge & Skills	5. Have the ability to use current techniques, skills and tools necessary for computing practice.
	Global Awareness/Cultural Competency	6. Have the ability to analyze the local and global impact of computing on individuals, organizations and society.
	Disciplinary Knowledge & Skills	7. Have the ability to design, implement and evaluate a computer-based system, process, component or program to meet desired needs.
<b>Other</b>	Other	8. Have the ability to function effectively on teams to accomplish a common goal.
	Disciplinary Knowledge & Skills	9. Have the ability to analyze a problem and identify and define the computing requirements appropriate to its solution.

Department & programs	University SLO category	Student Learning Outcomes
<b>Computer Science (cont.)</b>		
<b>BS - Computer Science</b>	Global Awareness/Cultural Competency	1. Have the ability to analyze the local and global impact of computing on individuals, organizations and society.
	Disciplinary Knowledge & Skills	2. Have the ability to design, implement and evaluate a computer-based system, process, component or program to meet desired needs.
	Communication Skills	3. Have the ability to communicate effectively with a range of audiences.
	Disciplinary Knowledge & Skills	4. Have the ability to analyze a problem and identify and define the computing requirements appropriate to its solution.
	Disciplinary Knowledge & Skills	5. Have the ability to apply knowledge of computing and mathematics appropriate to the discipline.
	Disciplinary Knowledge & Skills	6. Have the ability to apply design and development principles in the construction of software systems of varying complexity.
	Ethics	7. Have an understanding of professional, ethical, legal, security, and social issues and responsibilities.
	Disciplinary Knowledge & Skills	8. Have the ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
	Other	9. Have the ability to function effectively on teams to accomplish a common goal.
	Other	10. Recognize the need for, and will have the ability to engage in, continuing professional development.
	Disciplinary Knowledge & Skills	11. Have the ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
	Disciplinary Knowledge & Skills	12. Have the ability to use current techniques, skills, and tools necessary for computing practice.
<b>MED - Computer and Technology Supported Education</b>	Info/Technology Literacy	1. Be cognizant of the impact of technology on society.
	Disciplinary Knowledge & Skills	2. Understand the issues and processes for integrating computer/technology use into the curriculum.
	Disciplinary Knowledge & Skills	3. Have knowledge of the methods, techniques and strategies for use of computer/technology authoring tools.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	4. Be able to operate a computer system to solve problems.
	Disciplinary Knowledge & Skills	5. Have a general understanding of typical K-12 computer systems.
	Disciplinary Knowledge & Skills	6. Have a general understanding of K-12 software.

Department & programs	University SLO category	Student Learning Outcomes
<b>Computer Science (cont.)</b>		
<i>MS - Computer Science</i>	Other	1. Recognize the need for and will have the ability to engage in continuing professional development.
	Disciplinary Knowledge & Skills	2. Have the ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs.
	Disciplinary Knowledge & Skills	3. Have the ability to apply knowledge of computing and mathematics appropriate to the discipline.
	Disciplinary Knowledge & Skills	4. Have the ability to communicate effectively with a range of audiences.
	Disciplinary Knowledge & Skills	5. Have the ability to analyze a problem and identify and define the computing requirements appropriate to the solution.
	Disciplinary Knowledge & Skills	6. Have the ability to use current techniques, skills and tools necessary for computing practice.

Department & programs	University SLO category	Student Learning Outcomes
<b>Dental Hygiene</b>		
<b>BS - Dental Hygiene</b>	Disciplinary Knowledge & Skills	1. Assess, plan, implement and evaluate preventive, therapeutic and restorative treatment using methods consistent with medico-/dental principles, law and evidence.
	Global Awareness/Cultural Competency	2. Initiate and assume responsibility for health promotion and disease prevention activities for diverse populations.
	Multiple: Disciplinary Knowledge & Skills and Communication Skills	3. Promote healthy lifestyles and provide planned educational services using appropriate interpersonal communication skills and educational strategies.
	Ethics	4. Discern and manage the ethical issues of dental hygiene practice in a rapidly changing environment.
	Critical Thinking	5. Acquire and synthesize information in a critical, scientific and effective manner.
	Other	6. Be concerned with improving the knowledge, skills, and values of the profession.
<b>MS - Dental Hygiene</b>	Multiple: Disciplinary Knowledge & Skills and Ethics	1. Be technically, intellectually and ethically prepared for the upcoming challenges facing the dental profession.
	Critical Thinking	2. Possess critical thinking skills that help them to be community leaders and outstanding citizens.
	Global Awareness/Cultural Competency	3. Possess skills needed to be health care professionals who can provide comprehensive care to diverse population groups in a variety of settings.
	Other	4. Have the perpetual self-learning capacity to live up to their full potential and to contribute to making our community, our profession and our world a better place to live.

Department & programs	University SLO category	Student Learning Outcomes
<b>Geology</b>		
<i>BAE - Earth Science</i>	Communication Skills	1. Understand the communication skills necessary to teach earth science safely and effectively to students.
	Disciplinary Knowledge & Skills	2. Learn the principles and concepts of earth science in order to be able to teach earth science to middle school and high school students.
	Disciplinary Knowledge & Skills	3. Be able to explain earth science using modern plate tectonics theory to integrate physical and historical geological knowledge.
<i>BA - Geology</i>	Communication Skills	1. Develop effective skills in oral and written communication in order to be successful in the field of geology.
	Disciplinary Knowledge & Skills	2. Understand basic principles of the history and development of earth through time.
	Info/Technology Literacy	3. Learn and demonstrate the proper use of office, laboratory and field equipment used in the field of geology.
<i>BS - Geology</i>	Communication Skills	1. Develop effective oral and written communication skills necessary for employment in the various fields of geology.
	Critical Thinking	2. Develop critical thinking skills to solve geological problems encountered in the various fields of geology.
	Info/Technology Literacy	3. Understand and be able to use the tools and equipment available to professional geologists to solve geological problems.
	Disciplinary Knowledge & Skills	4. Have a solid understanding of geologic principles and processes that operate in the complex systems of the earth.

Department & programs	University SLO category	Student Learning Outcomes
<b>Engineering &amp; Design</b>		
<b>BA - Visual Communication Design</b>  <i>(program shared with Art)</i>	Other	1. Understand basic business practices, including working on teams.
	Multiple: Disciplinary Knowledge & Skills and Critical Thinking	2. Identify, analyze and solve communication problems.
	Disciplinary Knowledge & Skills	3. Create and develop visual form in response to communication problems.
	Global Awareness/Cultural Competency	4. Show respect for diversity and a knowledge of contemporary professional, societal and global issues.
	Other	5. Recognize the need for, and the ability to engage in, lifelong learning.
	Disciplinary Knowledge & Skills	6. Describe and respond to the audiences and contexts which communication solutions must address.
	Ethics	7. Understand professional, ethical, or social responsibilities.
	Multiple: Disciplinary Knowledge & Skills and Info/Technology Literacy	8. Develop an appropriate mastery of knowledge, techniques, skills, and modern tools.
Other	9. Develop a commitment to quality, timeliness, and continuous improvement.	
<b>BS - Computer Engineering Technology</b>	Other	1. Develop a commitment to quality, timeliness and continuous improvement.
	Critical Thinking	2. Conduct, analyze and interpret experiments and apply results to improve processes.
	Other	3. Function effectively on teams.
	Ethics	4. Understand professional, ethical or social responsibilities.
	Critical Thinking	5. Identify, analyze and solve technical and creative problems.
	Communication Skills	6. Communicate effectively.
	Global Awareness/Cultural Competence	7. Develop respect for diversity and a knowledge of contemporary professional, societal, and global issues.
	Critical Thinking	8. Apply creativity in the design of systems, components, or processes appropriate to program objectives.
	Multiple: Disciplinary Knowledge & Skills and Info/Technology Literacy	9. Master the knowledge, techniques, skills, and modern tools of their discipline.
	Disciplinary Knowledge & Skills	10. Apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology.
Other	11. Recognize the need for, and develop the ability to engage in, lifelong learning.	

Department & programs	University SLO category	Student Learning Outcomes
<b>Engineering &amp; Design (cont.)</b>		
<b>BS - Electrical Engineering</b>	Critical Thinking	1. Design and conduct experiments, as well as analyze and interpret data.
	Ethics	2. Develop an understanding of professional and ethical responsibility.
	Disciplinary Knowledge & Skills	3. Develop knowledge of contemporary issues in the field.
	Multiple: Disciplinary Knowledge & Skills and Info/Technology Literacy	4. Use the techniques, skills and modern engineering tools necessary for engineering practice.
	Disciplinary Knowledge & Skills	5. Design a system, component or process to meet desired needs within realistic constraints such as economic, environment, social, political, ethical, health and safety, manufacturability and sustainability.
	Communication Skills	6. Communicate effectively.
	Other	7. Recognize the need for, and possess the ability to engage in, lifelong learning.
	Global Awareness/Cultural Competency	8. Understand the impact of engineering solutions in a global, economic, environmental, and societal context.
	Disciplinary Knowledge & Skills	9. Apply knowledge of mathematics, science, and engineering.
	Other	10. Function on multi-disciplinary teams.
	Disciplinary Knowledge & Skills	11. Identify, formulate, and solve engineering problems.
<b>BS - Mechanical Engineering Technology</b>	Global Awareness/Cultural Competency	1. Show respect for diversity and a knowledge of contemporary professional, societal and global issues.
	Ethics	2. Develop the ability to understand professional, ethical or social responsibilities.
	Other	3. Function effectively on teams.
	Communication Skills	4. Communicate effectively.
	Multiple: Disciplinary Knowledge & Skills and Info/Technology Literacy	5. Develop appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines.
	Critical Thinking	6. Conduct, analyze and interpret experiments and apply results to improve processes.
	Other	7. Recognize the need for, and develop the ability to engage in, lifelong learning.
	Critical Thinking	8. Identify, analyze, and solve technical and creative problems.
	Other	9. Commitment to quality, timeliness, and continuous improvement.
	Disciplinary Knowledge & Skills	10. Apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology.
	Critical Thinking	11. Apply creativity in the design of systems, components, or processes appropriate to program objectives.

Department & programs	University SLO category	Student Learning Outcomes
<b>Engineering &amp; Design (cont.)</b>		
<i>BS - Technology (all options)</i>	Disciplinary Knowledge & Skills	1. Develop an appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines.
	Other	2. Develop a recognition of the need for, and the ability to engage in, lifelong learning.
	Other	3. Develop a commitment to quality, timeliness and continuous improvement.
	Communication Skills	4. Communicate effectively.
	Critical Thinking	5. Identify, analyze and solve technical and creative problems.
	Ethics	6. Develop an ability to understand professional, ethical or social responsibilities.
	Disciplinary Knowledge & Skills	7. Apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology.
	Other	8. Function effectively on teams.

Department & programs	University SLO category	Student Learning Outcomes
<b>Environmental Science</b>		
<b><i>BS - Environmental Science (all options)</i></b>	Disciplinary Knowledge & Skills	1. Develop a broad knowledge of major concepts in the area of environmental science and an understanding of fundamental roles that biology, chemistry and geology play in environmental science.
	Disciplinary Knowledge & Skills	2. Demonstrate knowledge of the interrelationship between the geosphere, atmosphere and biosphere.
	Multiple: Info/Technology Literacy and Critical Thinking	3. Use modern instrumentation and classical techniques for the analysis of soil and water samples and demonstrate an ability to design and carry out experiments and to interpret data.
	Disciplinary Knowledge & Skills	4. Develop sufficient preparation in environmental science to successfully compete in a graduate or professional program or to realize employment in an environmental science-related career.
	Communication Skills	5. Demonstrate effective oral and written communication skills and critical thinking skills as related to the field of environmental science.

Department & programs	University SLO category	Student Learning Outcomes
<b>Mathematics</b>		
<b>BA - Mathematics (applied to appropriate options)</b>	Disciplinary Knowledge & Skills	1. Apply knowledge gained in computer science courses to mathematical problems. <i>(for comp. sci. option only)</i>
	Disciplinary Knowledge & Skills	2. Apply mathematical concepts to economics. <i>(for econ. option only)</i>
	Disciplinary Knowledge & Skills	3. Write clear, well-reasoned proofs.
	Disciplinary Knowledge & Skills	4. Understand the interconnectedness between mathematics and economics. <i>(for econ. option only)</i>
	Disciplinary Knowledge & Skills	5. Understand the interconnectedness between various branches of mathematics.
<b>BAE - Mathematics</b>	Disciplinary Knowledge & Skills	1. Provide evidence of competence in mathematics and school mathematics.
	Disciplinary Knowledge & Skills	2. Demonstrate knowledge of students as learners of mathematics.
	Disciplinary Knowledge & Skills	3. Demonstrate knowledge of mathematics pedagogy.
	Other	4. Demonstrate a positive attitude towards mathematics.
	Other	5. Demonstrate a positive attitude towards teaching mathematics and working with students.
<b>MA - Teaching K-9 Mathematics</b>		<b>No student learning outcomes are listed in catalog</b>
<b>MS - Mathematics</b>	Disciplinary Knowledge & Skills	1. Demonstrate the ability to solve challenging in-depth mathematical problems.
	Disciplinary Knowledge & Skills	2. Demonstrate the ability to learn advanced mathematics independently.
	Other	3. Demonstrate the ability to work effectively as a member of independent self-directed teams.
	Other	4. Demonstrate adaptability and flexibility to different contexts and situations.
	Communication Skills	5. Demonstrate the ability to effectively communicate mathematics research and exposition orally and in writing.

Department & programs	University SLO category	Student Learning Outcomes
<b>Occupational Therapy</b>		
<i>MOT - Occupational Therapy</i>	Other	1. Demonstrate a commitment to the common good that promotes effective, responsible, and compassionate delivery of occupational therapy services.
	Other	2. Demonstrate leadership skills that advocate for individuals and groups, promote the profession, and improve the service delivery of occupational therapy.
	Disciplinary Knowledge & Skills	3. Demonstrate entry-level practice competencies based upon a comprehensive understanding of human occupation and occupational performance.
	Multiple: Communication Skills and Other	4. Demonstrate entry-level professional competencies in communication and a commitment to professional growth through life-long learning.

Department & programs	University SLO category	Student Learning Outcomes
<b>Physical Therapy</b>		
<i>DPT - Physical Therapy</i>	Other	1. Integrate the principles of teaching and learning in professional practice.
	Other	2. Respond to the changing health care environment.
	Ethics	3. Use ethical and moral principles in professional practice.
	Critical Thinking	4. Incorporate the principles of research in physical therapy practice.
	Critical Thinking	5. Practice physical therapy incorporating scientific knowledge and critical analysis.
	Other	6. Value lifelong learning through personal and professional growth.

Department & programs	University SLO category	Student Learning Outcomes
<b>Physics</b>		
<b>BA - Physics</b>	Disciplinary Knowledge & Skills	1. Demonstrate knowledge of the basic concepts of physics (such as mechanics, thermodynamics and electricity and magnetism).
	Critical Thinking	2. Make and interpret laboratory measurements in physics.
	Communication Skills	3. Write effectively using the language of physics.
<b>BAE - Physics</b>	Disciplinary Knowledge & Skills	1. Demonstrate knowledge of the basic concepts of physics (such as mechanics, thermodynamics and electricity and magnetism).
	Critical Thinking	2. Write effectively using the language of physics.
	Communication Skills	3. Make and interpret laboratory measurements in physics.
<b>BS - Physics</b>	Disciplinary Knowledge & Skills	1. Demonstrate knowledge of the basic concepts of physics (such as mechanics, thermodynamics and electricity and magnetism).
	Critical Thinking	2. Make and interpret laboratory measurements in physics.
	Communication Skills	3. Write effectively using the language of physics.

# School of Social Work & Human Services



Program and Certificate Student Learning Outcomes (2008-09 catalog & AIEA data portal)

Department & programs	University SLO category	Student Learning Outcomes
<b>Social Work</b>		
<b>BASW (general goals – pg. 305 of catalog)</b>	Critical Thinking	1. Apply critical thinking skills within the context of professional social work practice.
	Multiple: Ethics and Global Awareness/Cultural Competency	2. Practice within the values and ethics of the social work profession and with the understanding of and respect for the positive value of diversity.
	Disciplinary Knowledge & Skills	3. Demonstrate the professional use of self.
	Disciplinary Knowledge & Skills	4. Understand the forms and mechanism of oppression and discrimination and the strategies of change that advance social and economic justice.
	Disciplinary Knowledge & Skills	5. Understand the history of social work profession and its current structures and issues.
	Disciplinary Knowledge & Skills	6. Apply the knowledge and skills of generalist social work to practice with systems of all sizes.
	Disciplinary Knowledge & Skills	7. Apply knowledge of bio-psycho-social variables that affect individual development and behavior and use theoretical frameworks to understand the interactions among individuals and social systems (i.e., families, groups, organizations and communities.)
	Critical Thinking	8. Analyze the impact of social policies on client systems, workers and agencies.
	Critical Thinking	9. Evaluate research studies and apply findings to practice and under supervision, to evaluate their own practice interventions and those of other relevant systems.
	Communication Skills	10. Use communication skills differentially with a variety of client populations, colleagues, and members of the community.
<b>BA - Social Work</b>	Critical Thinking	1. Be open to new ideas, think critically and be capable of incorporating evidenced based theories and interventions into their professional social work tasks.
	Other	2. Take a leadership role in understanding, articulating and advocating on behalf of client definitions of social and personal problems, client strengths and client defined solutions.
	Disciplinary Knowledge & Skills	3. Base their practices on systems and empowerment theories and ecological and strengths perspectives, as well as other understandings supported by scientific evidence.
	Multiple: Disciplinary Knowledge & Skills and Other	4. Perform a wide range of tasks and roles within the context of organizational and service delivery structures and bring enthusiasm and creativity to generalist social work practice.
	Multiple: Ethics and Global Awareness/Cultural Competency	5. Define themselves as professional social workers, guided by social work values and ethical standards which include a deep respect for diversity in all its forms and a commitment to work with populations-at-risk for social justice.

Department & programs	University SLO category	Student Learning Outcomes
<b>Social Work (cont.)</b>		
<i>MSW - Social Work</i>	Multiple: Critical Thinking and Disciplinary Knowledge & Skills	1. Critique and implement evidence and strengths-based intervention models within and ecological practice framework.
	Interpersonal Competencies	2. Form relationships with community partners to meet client needs and address barriers to social justice across systems of all sizes.
	Disciplinary Knowledge & Skills	3. Practice from case to cause and back to case, demonstrating an understanding of the interplay between policy and practice and the impact on client systems.
	Critical Thinking	4. Engage in participatory forms of applied research to solve community problems.
<i>CERT - Disability Studies</i>	Disciplinary Knowledge & Skills	1. Demonstrate knowledge of the perceptions of disability throughout history and in contemporary society.
	Disciplinary Knowledge & Skills	2. Display knowledge of how laws and policies influence the lives of people with disabilities.
	Disciplinary Knowledge & Skills	3. Analyze societal representations of defining disability including the moral, medical and social models.
	Global Awareness/Cultural Competency	4. Understand disability as a characteristic in the diverse tapestry of society.
	Disciplinary Knowledge & Skills	5. Apply the principles of universal access to disability and to other diverse societal characteristics.
	Other	6. Demonstrate disability and universal access understanding through the application of community based service learning.
<i>CERT - Suicide Risk Assessment, Treatment and Prevention</i>	Disciplinary Knowledge & Skills	1. Be able to demonstrate basic knowledge of the fundamental relationship between substance use disorders and suicide.
	Disciplinary Knowledge & Skills	2. Be able to demonstrate basic proficiency in assessing for suicide potential using an approved risk assessment tool.
	Disciplinary Knowledge & Skills	3. Be able to demonstrate the ability to contract for safety.
	Disciplinary Knowledge & Skills	4. Be able to demonstrate basic knowledge of the relationship of crisis to the client's stage of change.
	Communication Skills	5. Be able to demonstrate listening skills and the appreciation of the importance of empathy in the face of feelings of hopelessness or suicidal thoughts and feelings.
	Disciplinary Knowledge & Skills	6. Be able to demonstrate basic knowledge of the role of public health model in the prevention of suicide.