College of Communications

Cinema and Television Arts BA

Student Learning Outcomes

Demonstrate knowledge of historical, business and cultural issues that inform current and future media environments.

Apply theoretical and/or ethical concepts in a practical media environment.

Understand the role of diversity throughout all aspects of American and/or global media environments.

Write well-executed treatments, scripts, critical essays and/or research papers, employing information literacy in the process.

Analyze and/or execute key elements of production.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Communications

Communication Studies BA

Student Learning Outcomes

Communication Studies graduates should display self-awareness of their own communication competence across a variety of communication settings (interpersonal, small group, organization, and intercultural)

Communication Studies graduates should exhibit lower communication apprehension in a variety of communication contexts.

Communication Studies graduates should be able to identify the basic elements of an argument, advance a cogent argument, apply basic tests of evidence, and identify fallacies in reasoning.

Communication Studies majors should possess a basic understanding of major theories, models, concepts, principles, and processes of human communication.

Communication Studies graduates should possess a basic understanding of fundamental principles of research methods and experimental design.

Communication Studies graduates should be able to generate and present clear, coherent messages, using appropriate proof and supporting materials, in a variety of communication contexts.

Communication Studies graduates should communicate in ethically appropriate, culturally sensitive ways.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Communications

Communication Studies MA

Student Learning Outcomes

Students will complete original research projects that make material, theoretically-driven contributions to the body of knowledge in the field.

Students will integrate communication theory and research into an applied context.

Students will demonstrate a mastery of content in the field and draw important and original connections between different specialty areas.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Communications

Communications BA

Student Learning Outcomes

Demonstrate skills and knowledge for entry into professional practice.

Apply critical thinking, research, and analysis to meet personal and professional goals.

Demonstrate written and oral proficiency appropriate to the entry level of professional practice.

Demonstrate effective use of communication tools and technologies appropriate to the entry level of professional practice.

Apply appropriate concepts, models, and theories of communication to personal and professional situations.

Exhibit awareness of social, economic, and cultural diversity as demonstrated through the mass media.

Demonstrate a basic knowledge of historical, legal, and ethical issues that affect professional practices, and information literacy in such knowledge

Communications students will demonstrate awareness of the history and role of professionals within students' chosen occupational area. At the same time, Communications students will demonstrate current knowledge of and interest in their profession by acti

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Communications

Communications MA

Student Learning Outcomes

All graduate students in the Department of Communications will articulate mastery of knowledge in theoretical foundations of the communications field.

All graduate students in the Department of Communications will demonstrate the ability to conduct graduate-level research using appropriate scholarly sources and applicable academic databases.

All graduate students in the Department of Communications will successfully analyze, interpret, and evaluate research methods used in scholarly study of communications.

All graduate students in the Department of Communications will develop and apply what they have learned in their graduate study through the application of a thesis or project that reflects mastery of these concepts.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Communications

Communicative Disorders BA

Student Learning Outcomes

Application of key concepts and skills relevant to the Communicative Disorders major: The learning goal for the Communicative Disorders major is for our students to maintain the accumulated essential knowledge in the major courses so that they can apply t

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Communications

Communicative Disorders MA

Student Learning Outcomes

Demonstrate knowledge and skills acquisition in diagnosing and treating articulation and phonological disorders

Demonstrate knowledge and skills acquisition in diagnosing and treating developmental language disorders

Demonstrate knowledge and skills acquisition in diagnosing and treating acquired neurologial disorders

Demonstrate knowledge and skills acquisition in diagnosing and treating communicative disorders related to cognitive impairment.

Demonstrate knowledge and skills acquisition in diagnosing and treating social/pragmatic problems

Demonstrate knowledge and skills acquisition in diagnosing and treating voice disorders

Demonstrate knowledge and skills acquisition in diagnosing and treating fluency disorders

Demonstrate knowledge and skills acquisition in diagnosing and treating swallowing disorders

Demonstrate knowledge and skills acquisition in diagnosing and treating hearing disorders

Demonstrate knowledge and skills acquisition in diagnosing and treating the use of alternative/augmentative communication (AAC) system

Mastery of clinical Knowledge and Skills Acquisition (KASA) competencies: The learning goal for the Communicative Disorders major is for students to demonstrate the mastery of clinical KASA competencies.   This goal includes SLOs 1-10: Demonstrate clin

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Communications

Screenwriting MFA

Student Learning Outcomes

Demonstrate improvement in screenwriting fundamentals of story structure, dialogue, and character development.

Increase knowledge of how the role(s) of the writer have evolved over time in television and motion pictures.

Demonstrate the ability to create a plan for successful entry into the profession as a writer for television and/or motion pictures.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Art BA

Student Learning Outcomes

Students will demonstrate competency in art and design principles common to all disciplines (for example theoretical practice of using composition, line, value, and color).

Students will demonstrate knowledge of the principal monuments and artists of major art and design periods using interdisciplinary approaches where appropriate.

Art and design students will demonstrate clear, effective, and professionally written communication appropriate to the discipline.

Art Department students will demonstrate effective and persuasive oral communication appropriate to the discipline.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Art BFA

Student Learning Outcomes

Students will demonstrate knowledge of the principal monuments and artists of major art periods using interdisciplinary approaches where appropriate.

Art department students will demonstrate clear, effective, and professionally written communication appropriate to the discipline.

Art Department students will demonstrate effective and persuasive oral communication appropriate to the discipline.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Art MA

Student Learning Outcomes

Students will successfully complete a final project in their area of concentration.

Art department students will demonstrate clear, effective, and professionally written communication appropriate to the discipline.

Art Department students will demonstrate effective and persuasive oral communication appropriate to the discipline.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Art MFA

Student Learning Outcomes

Students will successfully complete a final project in their area of concentration.

Art and design students will demonstrate clear, effective, and professionally written communication appropriate to the discipline.

Art and design students will demonstrate effective and persuasive oral communication appropriate to the discipline.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Dance BA

Student Learning Outcomes

Students adequately demonstrate the technique, performance skills and movement vocabulary required of performing artists.

Demonstrate critical thinking in the communication about works in the arts.

Demonstrate the ability to create, sustain, realize, and evolve personal vision and purposes.   Students will realize specific works or projects around elements of concepts. During this process they will analyze one's own work, as well as, those of others

Students will adequately demonstrate the capacity to define, analyze, and solve problems in the teaching of dance materials.   Students will solve problems within the area of classroom teaching projects. During this process they will work collaboratively

Students adequately demonstrate the mastery of facts, concepts and vocabulary in the area of dance history. Students will be engaged in the learning and researching the history of the art form. During this process they will utilize critical thinking and

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Music BA

Student Learning Outcomes

Music students will demonstrate knowledge of music history, literature, and theory.

Music students are competent and reflective practitioners of the art of music through performance, composition, analysis, and reflection.

Music students will demonstrate professional standards of oral and written communication.

Music students will demonstrate successful collaboration through concert and recital performances and productions, both onstage and backstage.

Music students will understand and apply global perspectives and current trends to their acquired knowledge and skills in performance, composition and education.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Music BM

Student Learning Outcomes

Music students will have a basic knowledge of music history, literature, and theory.

Music students will exercise professional standards of oral and written communication.

Music students are competent and reflective practitioners of the art of music through performance, composition, analysis, and reflection.

Music students will practice successful collaboration through work on concert and recital performances and production, onstage and backstage.

Music students will understand and apply global perspectives and current trends to their acquired knowledge and skills in performance, composition and education.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Music MA

Student Learning Outcomes

Music scholars have advanced and proficient knowledge of music history, literature, and theory.

Musical practitioners are proficient, independent, and reflective practitioners of the art of music through performance, composition, analysis, and collaboration.

Musical scholars exercise professional standards of oral and written communication through research documents and oral presentations.

Musical practitioners demonstrate leadership through successful collaborative experiences, academically and in musical performances.

Music graduate students will understand and apply global perspectives and current trends to their acquired knowledge and skills in performance, composition, education and career development.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Music MM

Student Learning Outcomes

Music scholars have advanced and proficient knowledge of music history, literature, and theory.

Musical practitioners are proficient, independent, and reflective practitioners of the art of music through performance, composition, analysis, and collaboration.

Musical scholars exercise professional standards of oral and written communication through research documents and oral presentations.

Musical practitioners demonstrate leadership through successful collaborative experiences, academically and in musical performances.

Music graduate students will understand and apply global perspectives and current trends to their acquired knowledge and skills in performance, composition, education and career development.

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College of the Arts

Theatre Arts MFA

Student Learning Outcomes

Demonstrate intellectual literacy in theatre history and dramatic literature.

Demonstrate an ability to research, analyze and critically examine theatrical literature within its historical context.

Conceive, research, design and implement artistic work for the theatre at a professional level.

Communicate clearly, effectively and persuasively through a variety of expressions.

Collaborate effectively as both a team member and leader to achieve cohesive works for the theatre.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Theatre BA

Student Learning Outcomes

Demonstrate a comprehensive knowledge of Theatre History and Literature from the earliest beginnings of the art to the modern day.

Demonstrate an ability to analyze Theatrical Literature in its many forms and from a variety of viewpoints and perspectives.

Critically evaluate, orally and in writing, the elements of production and performance as conceived by the various artists and executed by actors, technicians, and production personnel.

Apply skills and techniques in working with the materials of technical theatre including those involved in the creation of sets, costumes, makeup, lights and sound.

Communicate interpretations and conceptualizations of theatrical material orally, in writing, and through performance or other means of artistic expression.

Collaborate successfully with other students and artists in the creation and execution of work for the theatre in one or more capacities, including as actors, directors, designers, playwrights, technicians, stage managers and production personnel.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of the Arts

Theatre BFA

Student Learning Outcomes

Demonstrate proficiency in the ability to analyze text and character.

Students will be able to demonstrate an ability to integrate text analysis, voice production, movement, and acting technique into a cohesive characterization for public performance.

Students will demonstrate proficiency in the effective use of body and voice in the creation of character.

Collaborate successfully with other students and artists in the creation and execution of work for the theatre.

Students will demonstrate a comprehensive knowledge of theatre history and literature from the earliest beginnings of the art to modern day.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Engineering and Computer Science

Civil Engineering BS

PROGRAM EDUCATIONAL OBJECTIVES

1. Technical Skills: Graduates will be successful in multidisciplinary engineering practice and being well integrated into the workforce.

2. Professional Skills: Graduates will demonstrate professional skills necessary to be competent employees/leaders.

3. Professional Attitude: Graduates will have high ethical and professional standards toward advancement of the profession and society.

STUDENT OUTCOMES

Upon completion of the degree program, graduates must demonstrate:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

3. an ability to communicate effectively with a range of audiences

4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

*In compliance with ABET accreditation standards.

College of Engineering and Computer Science

Civil Engineering MS

Student Learning Outcomes

An ability to utilize scientific inquiry and knowledge skills to design and solve and interpret complex engineering problems

An ability to design a specific system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability and to work as part of a

An ability to communicate effectively.

Recognition of the need for, and an ability to engage in life-long learning and knowledge of contemporary issues.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Engineering and Computer Science

Computer Engineering BS

PROGRAM EDUCATIONAL OBJECTIVES

1. Technical Growth: Graduates will be successful in modern engineering practice, integrate into the local and global workforce, and contribute to the economy of California and the nation.

2. Professional Skills: Graduates will continue to demonstrate the professional skills necessary to be competent employees, assume leadership roles, and enjoy career success and satisfaction.

3. Professional Attitude and Citizenship: Graduates will become productive citizens with high ethical and professional standards, make sound engineering or managerial decisions, and have enthusiasm for the profession and professional growth.

STUDENT OUTCOMES

Upon completion of the degree program, graduates must demonstrate:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

*In compliance with ABET accreditation standards.

College of Engineering and Computer Science

Computer Engineering MS

Student Learning Outcomes

An ability to apply knowledge of advanced mathematics, science & engineering

Ability to communicate effectively

An ability to use the techniques, skills and modern engineering tools necessary for engineering practice

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Engineering and Computer Science

Computer Science BS

PROGRAM EDUCATIONAL OBJECTIVES

1. Technical Growth – Graduates will be successful in foundational and modern computing practices, integrate into the local and global workforce, promote growth and prosperity of the regional economy in the state and national level, and have passion for the profession and its growth.

2. Professional Skills – Graduates will continue to demonstrate the professional skills and communicative abilities necessary to be competent employees, assume leadership roles, and have career success and satisfaction.

3. Professional Attitude and Citizenship – Graduates will become productive members of society with high ethical and professional standards, who make sound technical or managerial decisions.

STUDENT OUTCOMES

Upon completion of the degree program, all B.S. graduates will have an ability to:

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

*In compliance with ABET accreditation standards.

College of Engineering and Computer Science

Computer Science MS

Student Learning Outcomes

Demonstrate knowledge and competence in such fundamental areas of computer science as algorithms, design and analysis, computational theory, computer architecture, and software engineering

Be able to analyze a problem, define the computing requirements appropriate to its solution, and apply design principles in the construction of software systems of varying complexity following systematic processes

Be able to survey an area of interest, identify the key issues and problems of the selected area through review of academic literature, and provide potential solutions to the issues and problems

Be able to function effectively on a team to accomplish a common goal

Be able to communicate effectively with a range of audiences in both written and oral form

Be able to understand and weigh possible social impacts of their work

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Engineering and Computer Science

Electrical Engineering BS

PROGRAM EDUCATIONAL OBJECTIVES

1. Technical Growth: Graduates will be successful in modern engineering practice, integrate into the local and global workforce, and contribute to the economy of California and the nation.

2. Professional Skills: Graduates will continue to demonstrate the professional skills necessary to be competent employees, assume leadership roles, and have career success and satisfaction.

3. Professional Attitude and Citizenship: Graduates will become productive citizens with high ethical and professional standards, who make sound engineering or managerial decisions, and have enthusiasm for the profession and professional growth.

STUDENT OUTCOMES

Upon completion of the degree program, graduates must demonstrate:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. An ability to communicate effectively with a range of audiences
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

*In compliance with ABET accreditation standards.

College of Engineering and Computer Science

Electrical Engineering MS

Student Learning Outcomes

Academic preparation and proficiency in mathematics, science, and engineering

Ability to identify, formulate, design, implement, and solve engineering problems that meet desired needs within realistic constraints and solve problems in modern engineering practice

Ability to integrate into the local and global workforce, communicate effectively by using written, oral, and electronic methods and assume leadership roles

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Engineering and Computer Science

Engineering (General) BS

Student Learning Outcomes

An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

An ability to communicate effectively with a range of audiences

An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Engineering and Computer Science

Environmental Engineering MS

Student Learning Outcomes

Understanding basic principles and ability to conduct calculations related to environmental engineering (a) Understanding basic principles (chemistry, hydraulics, and/or hydrology) related to environmental engineering (b) Ability to conduct calculations

Understanding environmental regulations, engineering ethics, environmental impact report, and project management (a) Understanding environmental regulations, engineering ethics, and components of an environmental impact report (b) Ability to write techn

Understanding contemporary pollution management issues and ability to conduct conceptual design of sustainable treatment processes (a) Understanding contemporary environmental issues related to pollution management (air, water, wastewater, solid waste, s

Ability to develop a research plan, write technical articles, and conduct oral presentation (a) Ability to conduct literature search and development of a research plan (b) Ability to write technical papers and conduct oral presentation

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Engineering and Computer Science

Mechanical Engineering BS

PROGRAM EDUCATIONAL OBJECTIVES

1. Technical Growth: Graduates will be successful in modern engineering practice, integrate into the local and global workforce, and contribute to the economy of California and the nation.

2. Professional Skills: Graduates will continue to demonstrate the professional skills necessary to be competent employees, assume leadership roles, and enjoy career success and satisfaction.

3. Professional Attitude and Citizenship: Graduates will become productive citizens with high ethical and professional standards, make sound engineering or managerial decisions, and have enthusiasm for the profession and professional growth.

STUDENT OUTCOMES

Upon completion of the degree program, graduates must demonstrate:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

3. an ability to communicate effectively with a range of audiences

4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

*In compliance with ABET accreditation standards.

College of Engineering and Computer Science

Mechanical Engineering MS

Student Learning Outcomes

An ability to apply knowledge of advanced mathematics, science & engineering to identify, formulate and solve advanced engineering problems

Ability to communicate effectively

An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

A knowledge of contemporary issue

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Engineering and Computer Science

Software Engineering MS

Student Learning Outcomes

Be aware of professional, legal, and ethical issues in the software engineering area, and social impact. Be a responsible engineer to healthy society.   Professional, legal and Ethical Issues – the ability to analyze, assess and apply ethical theories, pr

Understand requirements clearly, and communicate with stakeholders in an appropriate manner. Be able to communicate properly through oral presentation and in a written form.

Ability to analyze, specify and apply software requirements using software engine

Be able to identify and use the best practices in various parts of software development. Be able to assess the current work process, and to improve continuously.

Be able to work collaboratively with others. Be a good citizen in a team involved.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Education

Education MS (Bilingual/Bicultural)

Student Learning Outcomes

Graduates will: a) demonstrate a strong foundation of knowledge   b) implement effective practice   c) use current technologies for teaching and learning

Graduates will: a) advance just, equitable, and inclusive education   b) make informed decisions   c) participate in collaborative endeavors   d) think critically and creatively

Graduates will: a) demonstrate leadership potential   b) maintain professional and ethical standards   c) engage in continuous improvement

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Education

Education MS (Elementary Curriculum and Instruction)

Student Learning Outcomes

Graduates will: a) demonstrate a strong foundation of knowledge   b) implement effective practice   c) use current technologies for teaching and learning

Graduates will: a) advance just, equitable, and inclusive education   b) make informed decisions   c) participate in collaborative endeavors   d) think critically and creatively

Graduates will: a) demonstrate leadership potential   b) maintain professional and ethical standards   c) engage in continuous improvement

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Education

Education MS (Reading)

Student Learning Outcomes

Graduates will: a) demonstrate a strong foundation of knowledge   b) implement effective practice   c) use current technologies for teaching and learning

Graduates will: a) advance just, equitable, and inclusive education   b) make informed decisions   c) participate in collaborative endeavors   d) think critically and creatively

Graduates will: a) demonstrate leadership potential   b) maintain professional and ethical standards   c) engage in continuous improvement

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Education

Education MS (Secondary Education)

Student Learning Outcomes

Graduates will: a) demonstrate a strong foundation of knowledge   b) implement effective practice   c) use current technologies for teaching and learning

Graduates will: a) advance just, equitable, and inclusive education   b) make informed decisions   c) participate in collaborative endeavors   d) think critically and creatively Save

Graduates will: a) demonstrate leadership potential   b) maintain professional and ethical standards   c) engage in continuous improvement

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Education

Education MS (Special Education)

Student Learning Outcomes

Graduates will:a) demonstrate a strong foundation of knowledge b) implement effective practice c) use current technologies for teaching and learning

Graduates will: a) advance just, equitable, and inclusive education   b) make informed decisions   c) participate in collaborative endeavors   d) think critically and creatively

Graduates will: a) demonstrate leadership potential   b) maintain professional and ethical standards   c) engage in continuous improvement

College of Education

Educational Administration MS

Student Learning Outcomes

Graduates will: a) demonstrate a strong foundation of knowledge   b) implement effective practice   c) use current technologies for teaching and learning

Graduates will: a) advance just, equitable, and inclusive education   b) make informed decisions   c) participate in collaborative endeavors   d) think critically and creatively

Graduates will: a) demonstrate leadership potential   b) maintain professional and ethical standards   c) engage in continuous improvement

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Education

Educational Administration MS (Higher Education)

Student Learning Outcomes

Learning Objectives: I.   Leadership III.   Education

Learning Objectives: IV.   Assessment and Evaluation V.   Personal and Professional Development

Learning Objectives: IV.   Assessment and Evaluation V.   Personal and Professional Development

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Education

Educational Leadership Ed.D. (Community College)

Student Learning Outcomes

Graduates are: I) Experts in Educational Leadership II) Professionals whose Practice is Informed by Scholarly Literature IV) Critical Thinkers

Graduates are: III) Reflective Practitioners VII) Professionals Who Value Diversity

Graduates are: V) Change Agents VI) Self-Aware and Ethical Professionals

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Education

Educational Leadership Ed.D. (P-12)

Student Learning Outcomes

Graduates are: I) Experts in Educational Leadership II) Professionals Whose Practice is Informed by Scholarly Literature IV) Critical Thinkers

Graduates are: III) Reflective Practitioners VII) Professionals Who Value Diversity

Graduates are: V) Change Agents VI) Self-Aware and Ethical Professionals

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Education

Educational Technology Online MS

Student Learning Outcomes

Graduates will: a) demonstrate a strong foundation of knowledge   b) implement effective practice   c) use current technologies for teaching and learning

Graduates will: a) advance just, equitable, and inclusive education   b) make informed decisions   c) participate in collaborative endeavors   d) think critically and creatively

Graduates will: a) demonstrate leadership potential   b) maintain professional and ethical standards   c) engage in continuous improvement

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Education

Instructional Design and Technology MS

Student Learning Outcomes

Critically discriminate, compare, and select appropriate criteria, and effectively implement methodology for developing an effective instructional product.

Conduct, evaluate, interpret, and synthesize research and apply theoretical ideas to the development and implementation of an instructional product in a practical setting.

Critically analyze, evaluate and synthesize information as well as effectively generate, select, and apply appropriate solutions to solve problems in the development and implementation of the instructional product based on reasoned rationale.

College of Health and Human Development

Athletic Training BS

Student Learning Outcomes

Students will incorporate clinical reasoning in the selection of assessment procedures and interpretation of findings in order to formulate a differential diagnosis and/or diagnosis, determine underlying impairments, and identify activity limitations and

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Health and Human Development

Child and Adolescent Development BS

Student Learning Outcomes

Students can describe and/or explain relevant theories, concepts and related research findings.

Students can identify and describe normative development and individual and group differences.

Students can describe biological, psychological, cultural and environmental influences on development.

Students can identify and describe key components of cultural competence.

Students will be able to identify, access, analyze and synthesize relevant sources, including research studies.

Students write effectively in APA style, taking purpose and audience into account.

Students make effective oral presentations, taking purpose and audience into account.

Students can effectively apply theories, concepts, and research findings to promote child well-being across diverse populations.

Students can identify relevant ethical principles and legal issues and the impact of possible actions in real-world situations.

Students can describe effective case, administrative, legislative, and media advocacy strategies to promote the well-being of children, adolescents, and families.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Health and Human Development

Counseling MS

Student Learning Outcomes

Students will be able to: critically analyze research methodology and the professional literature regarding a counseling topic; construct an original research project; and demonstrate professional writing skills in accordance with APA guidelines.

Students will be able to demonstrate knowledge of: (a) the historical and philosophical underpinnings of the counseling profession; (b) ethical and legal guidelines of the profession; and (c) professional counseling credentialing, certification, and licen

Students will be able to: demonstrate awareness of the social and cultural influences on human behavior; demonstrate effective counseling skills; evaluate clients' progress; recognize and mitigate countertransference; and conduct counseling with appropria

Students will be able to: demonstrate awareness of the major cultural influences on human behavior, how those intersect with the mental health of their clients, and how they influence their own perceptions and biases regarding clients.

Students will demonstrate knowledge of counseling theories and a bio-psycho-sociocultural framework and apply them to case conceptualization. They will demonstrate the ability to appropriately use the DSM-5 (diagnostic manual of mental disorders). They wi

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Health and Human Development

Human Services BS

Student Learning Outcomes

Students will be able to effectively integrate and apply theory and practice.

Students will employ research designs and evaluation methods in the human services field to draw reasonable evidence based conclusions.

Students will demonstrate cultural competence in working collaboratively and ethically with diverse populations in the human services field.

Students will demonstrate effective written communication related to human services using proper APA formatting and free of grammatical errors

Students demonstrate effective oral communication on topics related to human services.

Integrate information technology in support of human services implementation

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Health and Human Development

Kinesiology BS

Student Learning Outcomes

Demonstrate knowledge of key concepts in the sub-disciplines of Kinesiology from a biological, physiological, biomechanical, psychological, sociocultural, historical, and philosophical perspective.

Demonstrate knowledge and skill in a variety of physical activities including safe practices, practices with diverse populations, and strategies for maintaining a physically active lifestyle across the lifespan.

Apply previously learned multidisciplinary concepts to Kinesiology related problems and activities across the lifespan applying current best practices and technology.

Describe and apply systematic ways of knowing and appropriate technology to analyze, critique, evaluate and support research-oriented inquiry of professional practice in movement-related fields.

Demonstrate professional, ethical, and legal behaviors in the promotion of the discipline of Kinesiology.

Promote a physically active lifestyle in an interdependent global community by engaging in informed dialog with professional communities regarding kinesiology-based principles and practices.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Health and Human Development

Kinesiology MS

Student Learning Outcomes

Students will be able to explain, analyze, and evaluate selected theories from two or more subdisciplines of kinesiology.

Students will be able to formulate appropriate questions and study designs grounded in a comprehensive understanding of selected research literature.

Students will be able to produce high-quality writing and presentations skills suitable for academic and/or professional environments.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Health and Human Development

Nursing BS

Student Learning Outcomes

Plans and/or provides patient-centered, empathic, and coordinated care that contributes to safe and high quality outcomes

Accesses, analyzes, and interprets information (theoretical, research, other) at the individual/family and community level to improve patient health outcomes

Uses a systematic approach to analyze real or potential problems for the purpose of developing, testing, and evaluating innovative solutions within a variety of healthcare settings.

Uses communication theories/techniques and demonstrates communication/collaboration with colleagues, transdisciplinary groups, including the use of informatics, to promote relationships with individuals/families and communities.

Engages in ethical reasoning and actions to promote advocacy, collaboration, social justice, and leadership as a healthcare professional

Demonstrates accountability for self and nursing practice including continuous engagement in life-long learning.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Health and Human Development

Nursing MS

Student Learning Outcomes

Integrates a wide range of theories and knowledge from nursing and other disciplines to develop a comprehensive and holistic approach, implement advanced roles, and continue life-long learning

Uses a systematic approach to identify, analyze and diagnose real or potential problems with a variety of health care settings, and develop, evaluate and test possible solutions based upon highest level of evidence available, allowing for innovative solut

Accesses, analyzes, and interprets information (theoretical, research, other) at the individual/family and community level to provide high quality health care, initiate change, and improve nursing practice and health care outcomes.

Manages communication, including the uses of informatics, with clients, colleagues, and diverse groups to foster effective collaboration to promote optimal health outcomes in individuals/families/communities

Evaluates ethical decision making from a person and organization perspective, develops an understanding of how these two perspectives may create conflict of interest, and acts to resolve them.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Health and Human Development

Nursing Practice DNP

Student Learning Outcomes

Develops and evaluates practice approaches based upon theory as well as to integrate nursing science with ethics, biophysical sciences, & psychosocial sciences as the basis for nursing practice.

Selects, designs, or uses programs to evaluate and monitor patient care systems. Develops and executes evaluation plans involving data extraction from practice information systems and databases.

Designs, delivers, and evaluates evidence-based care/therapeutic interventions to improve patient or population outcomes based upon advanced clinical judgment, systems thinking, and accountability.

Analyzes epidemiological, biostatistical, environmental, and other forms of data as well as evidence-based reports as they relate to the health of individuals and populations. Evaluates care delivery models/strategies using concepts related to community,

Appraises literature in order to implement best practices, apply relevant findings to develop practice guidelines, and disseminate findings from practice through scholarship.

Demonstrates leadership in policy development at multiple levels, educates others about nursing/health policy/patient care outcomes, and advocates within healthcare arenas for social justice/equity/ethical procedures.

Employs leadership & consultative skills with intraprofessional and interprofessional teams to create change in healthcare and healthcare delivery systems. Leads interprofessional teams in the analysis and evaluation of practice and organizational issues.

Develops and evaluates ways of managing ethical and organizational/system dilemmas in patient care and health care organizations emphasizing practice, ongoing improvement of health outcomes, and ensuring patient safety.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Health and Human Development

Public Health BS

Student Learning Outcomes

Describe major theories associated with health science and public health.

Describe the steps involved in planning, implementing and evaluating research based health interventions.

Identify and access evidence based information sources relevant to specific health issues.

Analyze statistical, epidemiological and qualitative data to promote population health.

Apply theories, research findings and best practices to promote health with diverse communities.

Analyze ethical issues that arise in the field of health science and public health.

Make effective oral presentations taking into account diverse stakeholders.

Write effectively taking purpose and audience into account.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Health and Human Development

Public Health MPH

Student Learning Outcomes

Students are able to apply a theoretical framework in the development of a community health program.

College of Health and Human Development

Social Work MSW

Student Learning Outcomes

Students identify as a professional social worker and conduct oneself accordingly.

Students engage with diversity and difference in social work practice.

Students demonstrate competency in practice-informed research and research-informed practice. (This is a new outcome assessed first time in AY 2016-2017).

Students demonstrate competency in policy practice and policy-informed practice. (This is a new outcome assessed first time in AY 2016-2017).

Students demonstrate competency in engaging with individuals, groups, organizations and communities. (This is a new outcome assessed first time in AY 2016-2017).

Students demonstrate competency in assessing individuals, families, groups, organizations, and communities. (This is a new outcome assessed first time in AY 2016-2017).

Students demonstrate competency in intervening individuals, families, groups, organizations, and communities. (This is a new outcome assessed first time in AY 2016-2017).

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

American Studies BA

Student Learning Outcomes

Students will demonstrate an understanding of the concept of culture by analyzing the functioning of American cultural texts within historic contexts, using knowledge developed by different disciplines.

Students will express an understanding of American cultural diversity that recognizes the historical construction and functioning of categories of identity such as race, ethnicity, gender, sexuality, class, or region.

Students will become informed citizens who understand American political and social issues within historical, cultural, and global contexts.

Students will interpret and analyze critically a range of cultural documents and expressive forms.

Students will design and carry out an original interdisciplinary research project exploring American culture that makes use of both primary and secondary sources.

Students will communicate complex ideas about American culture in clear and well-organized written papers and oral presentations.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

American Studies MA

Student Learning Outcomes

Students will demonstrate an advanced understanding of how scholars approach cultural evidence, critically evaluating scholarly theories and methods.

Students will demonstrate a sophisticated understanding of cultural processes in history, analyzing the dynamics of diverse cultural interactions and change over time.

Students will design and carry out an original interdisciplinary research project at an advanced level, communicating their own conclusions in a clearly-written essay.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Anthropology BA

Student Learning Outcomes

Students are able to write an essay at the "proficient" to "advanced" level of the CSUF Senate Writing Rubric

Students will be able to identify, understand, and apply theories from Anthropology

Students can identify and interpret a real world problem using a holistic and comparative approach

Students can develop a research question or problem statement within a theoretical framework

Students can interpret the archaeological evidence of human behavior using the principles of archaeological methodology and anthropological theory.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Anthropology MA

Student Learning Outcomes

Students are able to write an essay at the "proficient" to "advanced" level of the CSUF Senate Writing Rubric

Students will be able to identify, understand, and apply theories from Anthropology

Students will be able to identify, understand, and apply methods from Anthropology.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Comparative Literature BA

Student Learning Outcomes

Analyze and interpret texts from a variety of genres, as informed by such critical traditions as rhetorical, stylistic, and formal analysis; theory; and historicism

Write clear, cogent and rhetorically effective prose for a variety of purposes and audiences

Demonstrate the ability to locate relevant research materials, effectively integrate this information into one's written work, and cite it appropriately

Demonstrate a working knowledge of major writers, periods, and genres of at least two literary traditions (one tradition can be an Anglophone tradition), and be able to place important works and genres in their historical context

Demonstrate ability to analyze literary, cultural, historical, and linguistic relations between two linguistically distinct literary traditions (one tradition can be an Anglophone tradition), highlighting especially the diversity and interconnectedness of

Demonstrate a working knowledge of the various theories of comparative literature and the major works of literary theory that have informed comparative literature as a discipline

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Criminal Justice BA

Student Learning Outcomes

Students are able to articulate key concepts and trends in crime, law and justice

Students are able to write clearly, effectively, and persuasively.

Students are able to apply various curricular constructs to criminal justice patterns, policies and practices.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Education MS (TESOL)

Student Learning Outcomes

M.S. in TESOL students will be able to sequence and teach lessons using appropriate instructional resources and teaching strategies.

MS in TESOL students will be able to use problem-solving and critical thinking in analyzing ESL/EFL instructional settings and materials, along with awareness of relevant language policy issues, to plan curriculum and integrate assessment with learning.

MS in TESOL students will demonstrate mastery of philosophical and research foundations of second language acquisition and pedagogy, as well of as the nature of language and English language systems.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

English BA

Student Learning Outcomes

Analyze and interpret texts from a variety of genres, as informed by such critical traditions as rhetorical, stylistic, and formal analysis; theory; and historicism

Write clear, cogent and rhetorically effective prose for a variety of purposes and audiences

Demonstrate the ability to locate relevant research materials, effectively integrate this information into one's written work, and cite it appropriately

Demonstrate a working knowledge of the major writers, periods and genres of British and American literature and be able to place works in their historical, cultural, theoretical, and rhetorical contexts

Demonstrate a working knowledge of the structure of the English language

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

English MA

Student Learning Outcomes

Demonstrate sophistication in analyzing and interpreting texts, as informed by such critical traditions as rhetorical, stylistic, and formal analysis; theory; and historicism

Demonstrate a mastery of the techniques and conventions of scholarly, persuasive, and/or creative writing

Demonstrate the ability to find relevant research materials, evaluate scholarly arguments, and contribute to current scholarship

Demonstrate an appropriate level of expertise in literary studies, composition-rhetoric, or creative writing, including an in-depth understanding of major writers, movements, stylistic trends, forms, and concepts

Demonstrate competence in professional skills and practices necessary to pursue careers in a variety of fields, including teaching, editing, publishing, and writing, and/or to pursue further graduate study

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Environmental Studies MS

Student Learning Outcomes

Students will demonstrate their ability to analyze environmental issues through social, economic, and ecological lenses

Students will demonstrate their ability to apply quantitative and qualitative methods as appropriate to environmental research

Students will demonstrate their ability to utilize information resources and technology to organize and evaluate environmental research.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Ethnic Studies BA (African American Studies)

Student Learning Outcomes

Students will identify a range of cultural documents and expressive forms and describe their significance to African American culture.

Identify and explain the significance of key individuals and events that shaped the culture and history of people of African descent in the U.S. and wider diaspora.

Examine the ways that race, gender, class and/or sexuality intersect in the lives of individuals and their communities

Integrate Ethnic Studies methodologies into one's written work

Communicate complex arguments, ideas, and research findings in well-organized written papers

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Ethnic Studies BA (Asian American Studies)

Student Learning Outcomes

Acquire knowledge of the historical and contemporary experiences of Asian Americans and Pacific Islanders.

Demonstrate competence in using multidisciplinary and interdisciplinary perspectives in the study of Asian Americans and Pacific Islanders.

Demonstrate the ability to think critically about the issues and concerns of Asian Americans and Pacific Islanders.

Demonstrate the ability to synthesize new ideas bringing together experience and theories.

Communicate clearly, effectively, and persuasively, both orally and in writing.

Work effectively as a leader or as members of a collaborative group to achieve a goal.

Demonstrate the ability to apply concepts toward creating social change affecting Asian Americans and Pacific Islanders.

Acquire experience in civic engagement or service-learning.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Ethnic Studies BA (Chicana and Chicano Studies)

Student Learning Outcomes

Demonstrate knowledge of the history and contemporary developments of the field of Chicana/o Studies—its intellectual traditions, theories, and methodologies.

Demonstrate knowledge of the role of critical theoretical and interdisciplinary perspectives to understand power dynamics.

Demonstrate literacy in qualitative and quantitative research traditions.

Develop and communicate clear, well-organized research papers through multiple delivery methods for diverse audiences.

Engage in technology and multimedia oral presentations.

Engage in group communication and projects.

Engage in social justice practices in communities.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

French BA

Student Learning Outcomes

Synthesize varying critical perspectives and distinguish among them using appropriate terminology.

Formulate sound arguments and support them with appropriate evidence and frames of reference (e.g. linguistic, literary, historical, political, economic, etc.).

Analyze language as a system and as a tool for communication as well as recognize discrete language segments and their historical development.

Identify historical and cultural trends as well as their role in shaping cultural expressions.

Communicate orally and in writing in the target language in an effective and culturally-appropriate manner, in a variety of academic, social, and professional circumstances.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Geography BA

Student Learning Outcomes

Students are able to articulate the definitions of, connections between, and differences among fundamental concepts, models and theories in geography.

Students are able to identify and explain patterns and processes of human and physical geography including the diversity of the earth's peoples and environments, and the interactions between humanity and the earth's environments.

Students can apply mapping and geospatial technologies to analyze geographic data and solve geographic problems.

Students can critically assess, interpret, and analyze geographic research.

Students can clearly and effectively communicate geographic knowledge and research in writing, orally, and/or visually.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Geography MA

Student Learning Outcomes

Students acquire in-depth knowledge of at least one subfield of geography (physical, human, or geospatial techniques).

Students can clearly and effectively communicate in-depth geographic knowledge and research in writing, orally, and/or visually.

Students are able to conduct high-quality independent research on geographic issues.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Gerontology MS

Student Learning Outcomes

Acquire and apply advanced interdisciplinary knowledge of gerontological theories, concepts, and issues

Written Communication Skills

Oral Communication Skills

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

History BA

Student Learning Outcomes

Students can explain causes and consequences of change over time across different eras.

Students can explain causes and consequences of change over time in and across different global regions.

Students can explain causes and consequences of change over time within diverse societies.

Students can devise a research project driven by a thesis, informed by historiographical contexts, and structured by a clearly articulated analytical framework appropriate to the field of study.

Students can defend a historical interpretation with critical use of primary and secondary sources.

Students can effectively communicate historical knowledge and understanding orally.

Students can effectively communicate historical knowledge and understanding in writing.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

History MA

Student Learning Outcomes

Students will synthesize a range of historiographical debates about a topic or event.

Students will critically evaluate and apply methodologies and theories appropriate to the discipline.

Students will design a research plan using historical methods and resources.

Students will demonstrate historical knowledge and original analysis in essays or projects that follow the professional standards appropriate to the discipline.

Students will communicate historical knowledge and analysis orally according to professional standards.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Japanese BA

Student Learning Outcomes

Synthesize varying critical perspectives and distinguish among them using appropriate terminology.

Formulate sound arguments and support them with appropriate evidence and frames of reference (e.g. linguistic, literary, historical, political, economic, etc.).

Analyze language as a system and as a tool for communication as well as recognize discrete language segments and their historical development.

Identify historical and cultural trends as well as their role in shaping cultural expressions.

Communicate orally and in writing in the target language in an effective and culturally-appropriate manner, in a variety of academic, social, and professional circumstances.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Latin American Studies BA

Student Learning Outcomes

Write effectively about Latin America's geography, peoples, history, cultures, economies, societies, art history and institutions from an interdisciplinary perspective using appropriate use of sentence structure, content, organization, and purpose as is p

Perform research from an interdisciplinary perspective understanding the foundational knowledge in anthropology, art history, Chicana/o studies, economics, geography, history, political science, Portuguese, or Spanish, as it pertains to Latin America and

Read critically to identify textual ideologies from different historical moments, languages, and power structures in order to demonstrate an understanding of biases inherent in a text's contents and how those ideologies have influenced Latin America's eco

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Liberal Studies BA

Student Learning Outcomes

Present ideas and subject matter coherently in written communication.

Identify significant figures, concepts, themes and developments in the arts and humanities.

Identify significant figures, concepts, themes and developments in the social sciences.

Identify significant figures, concepts, themes and developments in the natural sciences.

Compare and contrast significant concepts, themes and arguments from the arts and humanities.

Compare and contrast significant concepts, themes and arguments from the social sciences.

Compare and contrast significant concepts, themes and arguments from the natural sciences.

Explain interdisciplinary connections among and within the three subject areas: arts and humanities, social sciences, natural sciences.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Linguistics BA

Student Learning Outcomes

Understand how language is structured, particularly to what extent languages share a universal structural base and to what extent they differ from one another Understand how language is used, and the factors accounting for variation in language use Unders

Demonstrate the ability to analyze problems, both linguistic and otherwise, and to find and critically evaluate alternative solutions

Demonstrate the ability to present ideas in effectively written form

Demonstrate the ability to find in textbooks and research materials — paper and electronic — the kinds of information relevant to a given problem or issue, linguistic or otherwise, and to integrate that information into one's own written work to support o

Have a working knowledge of the subdisciplines of linguistics dealing with the organization of language, i.e., phonetics, phonology, morphology, syntax and semantics Have a working knowledge of the subdisciplines of linguistics dealing with language use,

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Linguistics MA

Student Learning Outcomes

Develop an advanced interdisciplinary interpretive framework for studying language in ways that will enable students to solve practical and theoretical problems Develop an advanced understanding of the nature of language structure, language use, language

Identify a variety of examples of linguistic diversity and commonality in American English as well as in other languages, demonstrating an advanced understanding of the similarities, differences, and relationships among the multitude of language varieties

Develop the ability to adhere to scholarly conventions in research, writing and documentation Design and carry out original research projects in Linguistics Discover primary and secondary sources (hard copy as well as digital) using the library's resource

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Philosophy BA

Student Learning Outcomes

The student demonstrates thorough and competent understanding of original texts. The student uses sound arguments and strong reasoning to support assertions. The student makes careful selection and presentation of evidence and argument to support assertio

The student's paper has a clear thesis, which is well developed by means of good structure, succinct expression of ideas and a competent, fluent writing style. The language is clear and direct, avoiding vague or superfluous expressions that adversely affe

Students shall be knowledgeable about specific periods of historical philosophy, specific major currents of the twentieth century philosophical investigation, and some specific methodologies employed by philosophers.

All students will be exposed to issues of culture, ethnicity, and gender. They will be able to cultivate a global perspective. Students shall have the ability to examine and critically assess normative standards governing social relations, practices, and

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Political Science BA

Student Learning Outcomes

Students apply political science methods correctly.

Students must be able to explain the relevance for politics and policy making of formal political institutions, rules, and processes in the U.S. and cross-nationally.

Analyze the roles or class, race, gender, religion, and ideology in the U.S. and cross-nationally.

Students must demonstrate that they can write proficiently at an upper-division college level.

Students demonstrate information competence.

Students understand and use interdisciplinary knowledge important to the study of politics.

Students can define basic political science concepts and theories.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Political Science MA

Student Learning Outcomes

Understand the relevance for politics and policy-making of formal political institutions, rules, and processes in the U.S. and cross-nationally

Understand the relevance for politics and policy-making of non-institutional aspects of politics, including the roles of class, race, gender, religion, and political beliefs in the U.S. and cross-nationally

Understand the relevance of classical and contemporary political philosophy to the study of politics

Demonstrate proficiency in the use of various tools of analysis, including library research, computer skills, and data analysis techniques

Be able to think and write clearly, critically, and intelligently about topics relevant to political science and to defend claims in writing and orally at a level appropriate to a graduate degree

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Psychology BA

Student Learning Outcomes

Students can identify appropriate basic research methods to test hypotheses empirically.

Students can apply psychological theory to scientific questions and real-world problems.

Students can find and evaluate relevant literature.

Students can demonstrate proficient writing skills, including scientific writing in APA style.

Students can manage data and analyze data using appropriate statistical methods.

Students can analyze psychological research and theory in relation to their own personal development.

Students can identify how diversity impacts individual and social behavior.

Students can employ appropriate ethical principles in psychological settings.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Psychology MA

Student Learning Outcomes

Develop strong critical thinking skills with regard to evaluating psychological research incorporating theoretical framework.

Employ statistical knowledge to analyze research data and develop conclusions.

Demonstrate proficient and compelling writing skills, including scientific writing in APA style.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Psychology MS

Student Learning Outcomes

Students will know the legal and ethical responsibilities related to clinical practice; apply these in actual clinical situations.

Students will master the diagnostic and conceptual framework for mental disorders and related terminology; accurately diagnose actual clinical patients.

Students will apply a variety of dominant theoretical frameworks for describing personality, predicting behavior, treatment planning and guiding clinical interventions.

Students will employ therapeutic techniques from a variety of theoretical models for intervening with children, adolescents and adults in individual, family and group modalities.

Students will be sensitive to the influence of ethnicity and cultural values on clinical practice; consider cultural and ethnic influences while working with therapy cases.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Public Administration BA

Student Learning Outcomes

Define basic concepts and theories in public administration

Demonstrate knowledge of the role of personnel administration, and budgeting and finance in public policy making process

Demonstrate knowledge of the role of the administrative function in political systems and global community

Demonstrate knowledge of research concepts, computer application, and information management applied to public administration and policy analysis

Demonstrate skill in acquiring, analyzing, and assessing information in public organization

Apply public administration methods correctly and interpret findings from the methods appropriately

Demonstrate skills in thinking and writing clearly, critically and intelligently about public administration

Be provided with the opportunity through internships to experience public administration directly

Understanding the role of the public administration professional as participants in public policy making

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Public Administration MPA

Student Learning Outcomes

Student Learning Outcome #1:? Students in the Master of Public Administration Program at Cal State Fullerton will be able to demonstrate and understanding of the major components of a public personnel system, as well as the nuances of effective motivation

Outcome 1: Students in the Master of Public Administration program at CSUF will be able to describe the policy process through the application of appropriate theories, including those related to the role of stakeholders, administrators, bureaucracies, and

To analyze, synthesize, think critically, solve problems and make decisions. Our students are able to use graphical and tabular methods to summarize and interpret data, analyze basic univariate and bivariate statistics, conduct and evaluate survey resear

To articulate and apply a public service perspective. Our students are able to identify and apply our public service values: commitment to diversity; accountability; social equity; democratic values; ethical administration.

To communicate and interact productively with a diverse and changing workforce and citizenry.   Our students are able to work effectively in diverse teams and communities; appreciate the value of diversity in workplace and community.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Religious Studies BA

Student Learning Outcomes

Students can analyze written materials related to the study of religion

Students are able to identify the history and development of specific religions and their contemporary relevance.

Students can compare key theories and theorists in the study of religion.

Students can interpret key thinkers and figures within religious traditions.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Sociology BA

Student Learning Outcomes

Students will apply key sociological concepts.

Students will compare, contrast and critique major theoretical and epistemological orientations in sociology including functionalism, conflict, interactionism, and feminism.

Students will demonstrate critical thinking from various sociological perspectives, such as reflecting on their social location, evaluating the implicit assumptions of everyday life, challenging commonsense understandings, and assessing the structure of a

Students will show clear and effective written and oral communication skills.

Students will demonstrate knowledge of qualitative and quantitative research design and methods and evaluate their appropriate use.

Students will use sociological knowledge and skills to engage with local and global communities for the purpose of social justice.

Students will demonstrate a critical understanding of power, privilege, and oppression across a range of cultures, human experiences, and the intersections of social locations and historical experiences, including their own.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Sociology MA

Student Learning Outcomes

Graduate students will demonstrate, through application to real world problems, their grasp of sociological theory.

Graduate students will demonstrate in-depth knowledge in a specific domain of sociological research specialization (e.g. gender, race/ethnicity, education, inequality, political sociology, etc.).

Graduate students will apply core concepts in an area of research specialization through the interpretation of sociological data, using such concepts.

Graduate students will either design and implement a qualitative or quantitative research program, with data generation or data analysis, and the writing-up of research findings, or assess design options in the comprehensive exam.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Spanish BA

Student Learning Outcomes

Synthesize varying critical perspectives and distinguish among them using appropriate terminology.

Formulate sound arguments and support them with appropriate evidence and frames of reference (e.g. linguistic, literary, historical, political, economic, etc.).

Analyze language as a system and as a tool for communication as well as recognize discrete language segments and their historical development.

Identify historical and cultural trends as well as their role in shaping cultural expressions.

Communicate orally and in writing in the target language in an effective and culturally-appropriate manner, in a variety of academic, social, and professional circumstances.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Spanish MA

Student Learning Outcomes

Formulate and sustain sound, original arguments and support them with compelling evidence and appropriate frames of reference (e.g. linguistic, literary, historical, political, economic, etc.).

Identify historical, cultural, and linguistic trends as well as their role in shaping language and cultural expressions.

Effectively use the target language and appropriate terminology from the field in academic and professional settings to explain concepts of a varying degree of complexity both orally and in writing.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Humanities and Social Sciences

Women and Gender Studies BA

Student Learning Outcomes

Students will be able to develop and apply critical thinking skills to gender issues, and demonstrate the ability to understand an issue, analyze the problems embedded therein, and articulate the issue using feminist theory.

Articulate and critique multiple theoretical frameworks, such as feminism, critical race feminism, queer theory, masculinity, and sexuality studies.

Understand and apply feminist epistemology and research methods demonstrated through independent research using standard English grammar and coherent written organization.

Analyze and evaluate texts and ideas in both oral and written modalities.

Demonstrate leadership skills by organizing and implementing projects.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

Mihaylo College of Business and Economics

Accountancy MS

Student Learning Outcomes

Student will be able to think critically and apply conceptual solutions to advanced accounting issues.

Students will be able to design and execute effective research related to accounting topics.

Students will be able to demonstrate effective written communication skills appropriated for the accounting profession.

Students will be able to demonstrate effective oral communication skills appropriated for the accounting profession.

Suggest an appropriate course of action to resolve ethical dilemmas related to accounting issues and the accounting profession.

Work effectively as part of a team

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

Mihaylo College of Business and Economics

Business Administration BA

Student Learning Outcomes

Demonstrate an understanding of each of the functional areas of business.

Analyze business problems and integrate concepts from multiple business disciplines

Be aware of business problems in different markets

Identify solutions using appropriate techniques and models.

Recognize and apply appropriate concepts and theories of motivation to achieve group and organizational goals.

Analyze and compare data, applying appropriate methodologies to support decision-making.

Diagnose sources of conflict in group and organizational settings and identify effective solutions

Understand the implications of legal and multicultural issues

Communicate, influence, and inform using effective oral/written communication

Identify how global, local, and regional factors interact with the business environment

Identify solutions to ethical dilemmas

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

Mihaylo College of Business and Economics

Economics BA

Student Learning Outcomes

To understand the economic problem of allocating limited resources among competing uses in an economy given a technological and institutional context.

To understand and use microeconomic concepts such as supply and demand, elasticity, costs, market structure, market imperfection, consumer and firm decision-making.

To understand and use macroeconomics concepts such as key measures and determinants of macroeconomic activity and growth, the interaction between goods, factors and financial markets, and monetary and fiscal policy.

To understand and use international economic concepts such as trade and exchange rates, and balance of payments.

To communicate coherently about economic issues and events

To access, use and interpret economic literature and data.

To employ statistical methods for estimation and evaluation.

To apply various quantitative methods used in economic theory.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

Mihaylo College of Business and Economics

Economics MA

Student Learning Outcomes

Identify new topics for study from the pertinent scholarly literature, summarize the findings of previous studies, and emphasize the contribution of the new study.

Understand how to use economic theory to generate testable hypotheses about economic relationships that have practical relevance to the business community and/or public policy

Possess effective communication skills and understand how to write reports and give presentations to disseminate research findings to business leaders, experts in the field, and to a broader audience

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

Mihaylo College of Business and Economics

Information Systems MS

Student Learning Outcomes

Identify and summarize problems and opportunities

Prepare a development plan

Make logical and reasoned conclusions

Identify data sources to extract data/information, integrate and prepare data for analysis

Analyze data using appropriate design and methods

Interpret, recommend and report business decisions

Demonstrate effective written communication skills

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Mihaylo College of Business and Economics

Information Technology MS

Student Learning Outcomes

Identify and summarize problems and opportunities

Prepare a development plan

Make logical and reasoned conclusions

Identify data sources to extract data/information, integrate and prepare data for analysis

Analyze data using appropriate design and methods

Interpret, recommend and report business decisions

Demonstrate effective written communication skills

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Mihaylo College of Business and Economics

International Business BA

Student Learning Outcomes

Demonstrate an understanding of the major concepts, methods, models and practices relevant to international business.

Apply and integrate techniques and theories from multiple business disciplines to international business situations.

Identify solutions to business opportunities in the global market using appropriate techniques and models.

Present, influence and inform using effective oral and written communication.

Demonstrate global competency that allows students to conduct business with people in different global regions and/or with different cultural backgrounds.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

Mihaylo College of Business and Economics

MBA

Student Learning Outcomes

Apply analytical and quantitative techniques to analyze and interpret business data

a. Demonstrate proficiency in functional areas of the business disciplines. b.Ability to integrate knowledge of current business practices and managerial techniques to formulate strategic plans.

Understand the strategic implications and applications of technology within business.

Students will develop skills and behaviors to be more effective leaders

Work effectively in teams using collaborative techniques

a.Identify legal and ethical issues b.Analyze legal and ethical issues, and propose socially responsible solutions.

Explain implications for working effectively in a diverse environment.

a. Design and present information in an organized and logical manner b.Employ clear and concise written communication

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

Mihaylo College of Business and Economics

Taxation MS

Student Learning Outcomes

Students will be able to demonstrate a technical understanding of an application of advanced tax knowledge

Identify relevant information, think critically, and apply analytical solutions to advanced tax issues

Students will be able to demonstrate effective written communication skills appropriate for the accounting profession

Demonstrate effective oral communication skills appropriate for the accounting profession

Suggest an appropriate course of action to resolve ethical dilemmas related to tax issues and the accounting profession

Demonstrate advanced research skills using appropriate professional literature

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Natural Sciences and Mathematics

Biochemistry BS

Student Learning Outcomes

Recognize that all matter is composed of atoms whose inherent periodic properties determine their interactions and combinations into compounds with specific molecular structure, chemical function and physical properties

Explain the various ways that chemists represent and test chemical knowledge in models, theories, mathematical relationships and symbolic notations.

Illustrate the principles of safe practices and ethical use of scientific knowledge, materials and procedures, and explain their impact on a diverse society.

Demonstrate literacy in concepts underlying fundamental analytical instrumentation and instrumentation techniques used in chemistry and biochemistry.

Discriminate between equlibrium and nonequilibrium systems using fundamental thermodynamic laws and kinetics.

Demonstrate the ability to generate and collect data and information through designing and safely implementing hypothesis-driven experiments using contemporary methods and techniques.

Analyze, interpret, and retrieve data and appropriate literature, to develop critical thinking and problem solving skills.

Work effectively, independently and cooperatively to communicate data, concepts, skills and processes to experts and nonexperts in the field.

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College of Natural Sciences and Mathematics

Biological Science BS

Student Learning Outcomes

Engage in projects that require contributions of multiple individuals, resulting in a product that reflects an ability to collaborate and communicate.

Explain fundamental biological principles from the major areas of biology (cellular, molecular, physiological, organismal, ecological, and evolutionary).

Design a biological research study to answer a testable question, using appropriate and ethical research procedures for data collection and analysis.

Communicate ideas related to biological concepts, or the results of biological investigations, using professionally appropriate oral (e.g. poster or oral presentations), visual (e.g. graphs, tables), and written (e.g. research proposal, journal article) f

Demonstrate intellectual independence by distinguishing between reliable and unreliable sources of information while respecting alternative possibilities and explanations.

Discuss the intersection of biology and society, including the impact of biological issues on society, the importance of responsible conduct of research, and the role of society in supporting scientific endeavors.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Natural Sciences and Mathematics

Biology MS

Student Learning Outcomes

Demonstrate expertise in a biological discipline through critical evaluation of primary literature and knowledge of appropriate research approaches and techniques.

Demonstrate expertise in a biological discipline through the design, execution, analysis, and interpretation of an independent ethical research project.

Communicate the results and conclusions of an independent research project orally and in writing to appropriate professional audiences.

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College of Natural Sciences and Mathematics

Chemistry BA

Student Learning Outcomes

Recognize that all matter is composed of atoms whose inherent periodic properties determine their interactions and combinations into compounds with specific molecular structure, chemical function and physical properties.

Explain the various ways that chemists represent and test chemical knowledge in models, theories, mathematical relationships and symbolic notations.

Illustrate the principles of safe practices and ethical use of scientific knowledge, materials and procedures, and explain their impact on a diverse society.

Demonstrate literacy in concepts underlying fundamental analytical instrumentation and instrumentation techniques used in chemistry and biochemistry.

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Analyze, interpret, and retrieve data and appropriate literature, to develop critical thinking and problem solving skills.

Work effectively, independently and cooperatively to communicate data, concepts, skills and processes to experts and nonexperts in the field.

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College of Natural Sciences and Mathematics

Chemistry BS

Student Learning Outcomes

Recognize that all matter is composed of atoms whose inherent periodic properties determine their interactions and combinations into compounds with specific molecular structure, chemical function and physical properties

Explain the various ways that chemists represent and test chemical knowledge in models, theories, mathematical relationships and symbolic notations.

Illustrate the principles of safe practices and ethical use of scientific knowledge, materials and procedures, and explain their impact on a diverse society.

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Analyze, interpret, and retrieve data and appropriate literature, to develop critical thinking and problem solving skills.

Work effectively, independently and cooperatively to communicate data, concepts, skills and processes to experts and nonexperts in the field.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Natural Sciences and Mathematics

Chemistry MA

Student Learning Outcomes

Demonstrate in-depth knowledge and an understanding of scientific questions in a primary area of expertise in the chemical and biochemical sciences and place the thesis research in the context of the current state of knowledge of the field.

Appropriately employ models, theories, mathematical relationships and symbolic notations that are used to represent and test knowledge in the chemical and biochemical sciences.

Demonstrate an awareness of the diversity and interdisciplinary nature of the chemical and biochemical sciences and a competent understanding of the fundamental principles in related disciplinary fields through participation in coursework, seminars and gr

Employ the principles of safe practices and ethical use of scientific knowledge, materials and procedures.

Analyze, interpret, and retrieve data from the primary and review literature, to develop critical thinking and problem solving skills for raising and addressing scientific question(s).

Demonstrate the ability to generate and collect data and information through designing and safely testing original hypothesis using contemporary methods and techniques.

Work independently and cooperatively on an original research project to collect, interpret, analyze, organize, and present high quality data for an original thesis.

Effectively communicate ideas, concepts, results and conclusions from the original research project in a written thesis, oral defense and poster presentations.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Natural Sciences and Mathematics

Chemistry MS

Student Learning Outcomes

Demonstrate in-depth knowledge and an understanding of scientific questions in a primary area of expertise in the chemical and biochemical sciences and place the thesis research in the context of the current state of knowledge of the field.

Appropriately employ models, theories, mathematical relationships and symbolic notations that are used to represent and test knowledge in the chemical and biochemical sciences.

Demonstrate an awareness of the diversity and interdisciplinary nature of the chemical and biochemical sciences and a competent understanding of the fundamental principles in related disciplinary fields through participation in coursework, seminars and gr

Employ the principles of safe practices and ethical use of scientific knowledge, materials and procedures.

Demonstrate mastery of fundamental and advanced instrumentation and techniques used in his/her disciplinary field of chemistry and biochemistry.

Analyze, interpret, and retrieve data from the primary and review literature, to develop critical thinking and problem solving skills for raising and addressing scientific question(s).

Demonstrate the ability to generate and collect data and information through designing and safely testing original hypothesis using contemporary methods and techniques.

Work independently and cooperatively on an original research project to collect, interpret, analyze, organize, and present high quality data for an original thesis.

Effectively communicate ideas, concepts, results and conclusions from the original research project in a written thesis, oral defense and poster presentations.

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College of Natural Sciences and Mathematics

Earth Science BA

Student Learning Outcomes

Produce and interpret a geological cross-section

Model the function, interactions, and trends of Earth Systems: geosphere, hydrosphere, cryosphere, atmosphere, and biosphere

Apply mathematics, chemistry, biology and/or physics to help clarify the mechanisms behind major Earth systems

Develop a hypothesis, collect, test, and analyze data, and summarize results

Communicate geoscience concepts to peers and/or public both orally and written

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Natural Sciences and Mathematics

Geology BS

Student Learning Outcomes

Produce and interpret a geological cross-section

Identify geological materials and explain their geologic significance

Apply mathematics, chemistry, biology and/or physics to help clarify the mechanisms behind major geological systems

Develop a hypothesis, collect, test, and analyze data, and summarize results

Communicate geological concepts to peers and/or public both orally and written

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College of Natural Sciences and Mathematics

Geology MS

Student Learning Outcomes

Develop a hypothesis, collect, test, and analyze data, and summarize results

Communicate geological concepts to peers and/or public both orally and written

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College of Natural Sciences and Mathematics

Mathematics BA

Student Learning Outcomes

Students will understand and construct mathematical proofs.

Students will demonstrate ability to communicate mathematics in written and oral forms.

Students will demonstrate ability to use mathematics to solve problems.

Students are competitive in the job market and/or in pursuing graduate education.

Students will be able to utilize technology when doing mathematics.

*Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Natural Sciences and Mathematics

Mathematics MA (Applied Math Option)

Student Learning Outcomes

Use mathematical and computational methods to solve real-world problems.

Communicate mathematical and computational findings in written and oral forms.

Be competitive in the job market and/or be ready to pursue a Ph.D. degree.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Natural Sciences and Mathematics

Mathematics MA (Teaching Math Option)

Student Learning Outcomes

Make sense of problems, persevere in solving them, and pose other problems.

Be competitive in the job market, and/or be prepared to continue graduate studies at the Ph.D. level.

Communicate mathematics in written and oral forms.

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College of Natural Sciences and Mathematics

Physics BS

Student Learning Outcomes

Students will solve problems by applying the primary physical theories: classical mechanics, thermodynamics, wave phenomena, electricity and magnetism, and modern physics.

Students will apply appropriate mathematical tools to solve physical problems.

Students will extract meaningful data from physical systems and construct conclusions through data analysis.

Students will clearly and concisely report scientific observations and analysis of experimental data.

Students will demonstrate the ability to work collaboratively to collect and interpret data and draw conclusions.

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Natural Sciences and Mathematics

Physics MS

Student Learning Outcomes

Students will solve problems by applying the primary physical theories: classical mechanics, electrodynamics and quantum mechanics.

Students will demonstrate engagement in scientific inquiry by analyzing advanced physics questions and designing solutions to those questions.

Students will clearly and concisely report results and analysis from their research

Retrieved from AMS January 14, 2020. For the most up-to-date information, please contact the program.

College of Natural Sciences and Mathematics

Statistics MS

Student Learning Outcomes

Will be able to decipher and solve real world problems.

Will be able to utilize technology and statistical software to construct statistical models and perform statistical computations.

Will be able to communicate statistical findings in written and oral forms.

Will be competitive in the job market and/or be prepared to continue their graduate studies at the Ph.D. level.